A PROPOSAL PREPARED FOR

City of Madison Heights, MI

Street and Park Tree Inventory

Jun 11, 2025

DAVEY Resource Group

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Melissa Marsh
City Manager
City of Madison Heights, MI
300 W 13-Mile Rd.
Madison Heights, Michigan 48071

RE: Street and Park Tree Inventory Proposal

Dear Ms. Marsh,

I am writing to submit our proposal for conducting a comprehensive tree inventory for City of Madison Heights, MI. Our team is excited about the opportunity to collaborate with you to map, assess, and manage your urban forest resources effectively. Trees are part of everyday life. The urban forest creates a sense of place and supplies real benefits to those who live in an area surrounded by trees. Trees along streets, in parks, around playgrounds, and in backyards provide shade and beauty and enhance the quality of life by bringing natural elements and wildlife habitats into urban settings. Trees also moderate temperatures, reduce air pollution and energy use, improve water quality, and promote human health and well-being.

Davey Resource Group, Inc. (DRG) understands the benefits trees bring, and we also realize the challenges that come with managing public trees. Our parent company, The Davey Tree Expert Company, was founded in 1880 to train tree surgeons - predecessors to the modern-day arborists. Through the years, our company has developed numerous tree care and maintenance protocols, standards, and best practices - including developing software for organizing and managing tree inventories. Our world-leading research and development department, the Davey Institute, is staffed with scientists and technical advisors to guide our field service teams in diagnosing and prescribing the best approaches to tree maintenance and care. Fundamentally, our tree knowledge is rooted in direct science and research, differentiating us from our competitors and ensuring our clients receive the best advice to manage and maintain trees.

The team we proposed to manage your project has the knowledge, experience, and availability to meet your goals and help you with the next steps for your project. They understand how to help you meet your specific program needs and project budget. We believe that our expertise in urban forestry management and our commitment to sustainability makes us an ideal partner for City of Madison Heights, MI in this important endeavor.

Thank you for considering DRG, and we look forward to talking with you about the next steps.

Sincerely,

Gerritt Moeke
Michigan Team Leader / Project Manager
Davey Resource Group, Inc.
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Section One: Project Understanding

INTRODUCTION

DRG provides a wide range of environmental consulting services to clients throughout the world. As the industry leader in urban forestry, we understand that trees have immense value to communities, and we know that trees sometimes fail and can cause damage. Our experience in collecting data on millions of trees and having done more inventories than any other company in the world provides you the reassurance that your investment will not go to waste and that we understand your goals. We aim to bring our experience to assist you with maximizing the value that trees provide and minimize the risks of damage, injury, or disruption trees may cause. Tools like a tree inventory and management plan help identify opportunities, focus attention, and secure resources to tackle community priorities.

We understand that your goal is to improve the urban forest's health and structure by understanding this vital tree resource better. You can't manage if you don't know what you have. DRG's tree inventory will be a ground-based arborist evaluation of the public trees, specifically in defined areas, including the street ROWs, mowed and manicured areas of public parks, and properties. It will include information about species diversity, age distribution, ecosystem benefits, and the overall condition of each tree. This project will provide a much-needed insight into the tree population and allows for a proactive approach to prioritizing tree work.

Applying our proprietary **Quality, Teamwork, and Communication (QTC)** methodology, we ensure the **quality** of our project by leveraging the latest GIS technology, the most recent arboriculture industry standards, and best practices to collect tree inventory data. We customize our field data collection application to your specifications, ensuring our qualified arborists collect all data attributes at each tree and effectively minimize data entry errors. To ensure accuracy, our arborists employ extensive quality control processes to identify errors and improve our approach, and before delivering data, our senior urban foresters run additional data checks and quality control processes.

This project will be led by our local regional **team**, with support from our headquarters in Kent, Ohio, allowing us to draw from resources across the United States, meet tight deadlines, share expertise, and scale as needed. Our professional staff includes many former city foresters, tree nonprofit program leaders, and tree workers who know how to assess trees and understand the difficulties in managing trees on the ground and in forestry operations.

During the inventory, DRG will **communicate** in real-time by providing access to the data from our web-based TreeKeeper® software. We will create custom reports for you that will provide important visualization and insights into the findings. This allows you to track progress and make immediate management decisions.

Upon completion of the inventory, if desired, DRG can use the inventory data to develop a Tree Inventory Analysis and Maintenance Strategy with a projected 5-year budget. This plan will describe the status of the current urban forest and provide an approach to tree maintenance that focuses on risk reduction over time. The plan will enable you to project realistic budgets and work plans.

Overall, this project will provide you with comprehensive data about the trees and illuminate a path forward to address the needs of the urban forest. DRG is excited about the opportunity to be part of your proactive tree management project.

PROJECT APPROACH - QTC

Our team is excited to present our proprietary approach, which integrates quality, teamwork, and communication (QTC) to ensure unparalleled service and results for your project. Our process is designed to meet our client's unique needs and standards.

UNCOMPROMISING QUALITY

Our commitment to quality is at the core of everything we do. We utilize state-of-the-art tools and methodologies to ensure the highest standards are met. Our quality assurance process involves rigorous testing and validation at every stage, ensuring that the final product not only meets but exceeds your expectations.

TEAMWORK AT ITS BEST

We believe that the key to successful project delivery is rooted in effective teamwork. Our team comprises industry experts who bring diverse skills and perspectives to the table. We foster a collaborative environment where every team member's contribution is valued, leading to innovative solutions and creative problem-solving.

SEAMLESS COMMUNICATION

Clear and consistent communication is vital for the success of any project. We have established a structured communication protocol that keeps all stakeholders informed and engaged throughout the project lifecycle. Regular updates, transparent reporting, and open channels for feedback ensure that we are always aligned with your goals and expectations.

CUSTOMIZED APPROACH

Understanding that each project has unique challenges and requirements, we customize our approach to best fit your needs. Our flexible methodology allows us to adapt to changing circumstances and requirements, ensuring that we deliver optimal results every time.

With DRG, you are choosing a partner committed to excellence. Our proprietary process, emphasizing quality, teamwork, and communication, is designed to deliver superior results that align with your mission and objectives. We are eager to bring our expertise to your project and look forward to a successful collaboration.

Section Two: Scope of Work

The following key tasks constitute the proposed project:

1. **Inventory:** DRG will conduct a Geographic Information System (GIS)-based inventory of an estimated 9,500 trees, stumps, and planting sites in the street ROWs and maintained areas of parks. The project area will be defined using GIS data layers such as a parcel, street ROW, and parks boundary layers.

2. **TreeKeeper Software®:** DRG will provide TreeKeeper®, our state-of-the-art leading tree inventory software management tool, while the inventory project is in process. At the conclusion of the project, you will receive all of your data in an ESRI® shapefiles and an Excel™ spreadsheet and have the opportunity to continue TreeKeeper® access if desired.

3. **Tree Inventory Analysis & Maintenance Strategy:** After completing the inventory, DRG will utilize inventory data, along with industry standards and best management practices, to develop a tree Inventory analysis & maintenance strategy with a 5-year projected maintenance budget.

TASK ONE: TREE INVENTORY

Utilizing our proprietary method of QTC, we have developed the following approach to provide consistent high-quality tree inventory data. As a client-focused company, we prioritize clear and effective communication with our clients. We intend to keep you informed every step of the way so that you are confident in your data and our services. Our communication process aims to address any issues that may arise before they become problems, and we discuss issues as they occur and work towards developing solutions that work for everyone involved.

We maintain strict quality control measures throughout the project and monitor the site count, budget, and timeline while keeping you informed. Our proprietary approach to project implementation applies stringent quality control measures, engaged team members, and clear communication to deliver the final project with confidence in meeting the specifications.

PROJECT MANAGEMENT

Prior to starting fieldwork, it is imperative that we are clearly aligned on the complete project scope. The DRG team sets up meetings and updates schedules prior to starting fieldwork and continually evaluates communication throughout the project to ensure the scope of work is completed on time and within budget. These meetings and e-mail updates include a Virtual Kick-Off Meeting, On-Site Kick-Off Meeting, project update e-mails, and On-Site Close-Out Meeting.

DRG will request relevant GIS data and imagery or, if necessary, we can use imagery from other public sources. We will use this data to program the data collection software and will confirm the agreed-upon data specification. Once computers are programmed and fieldwork is scheduled, we will set up an on-site kick-off meeting. This meeting occurs on the first day of data collection and includes topics such as safety, data calibration, communication procedures, project expectations, and milestones. We can also provide you with a press release, which can be utilized to notify homeowners about the project, funding sources, and what to expect.

TREE INVENTORY DATA COLLECTION

DRG begins data collection after the on-site kick-off meeting. Our arborists and urban foresters locate trees, stumps, and planting sites (if desired) as per the agreed upon specification of work. They evaluate the trees and record the specified data for each site.

- **Location Accuracy:** DRG uses field computers and equipment that meet or exceed the project's location accuracy requirements. Our project teams use GIS software and ruggedized computers with GPS receivers capable of sub-meter location accuracy under favorable conditions.
- **Individual Tree Inspection Process:** Urban foresters inspect each tree from the ground during data collection. They identify the species, measure tree diameter, assess tree condition and risk, and suggest the needed recommended maintenance. Data collection is done systematically for consistency and is typically done Monday through Saturday during daylight hours.
- **Safety:** DRG provides Personal Protective Equipment (PPE), such as hard hats, high-visibility safety vests, safety glasses, and boots. Additionally, our vehicles are marked with company logos and equipped with first-aid kits, fire extinguishers, and safety cones.

Data Fields

Based on our years of experience, the data fields below will provide the information needed to accomplish the project goals. However, if you have specific requirements that are not covered by the mentioned data fields, we are happy to further customize the project's scope of work. Based on our industry-leading experience, the following data fields should be assessed:

- **Address/Location:** transfer values from parcel GIS layer including house address, on street, X & Y coordinates, and park name.
- **Species:** using botanical and common names and cultivars when appropriate.
- **Tree Size:** measured by diameter at breast height (DBH) in 1-inch size classes.
- **Multi-Stem Tree:** noting if a tree has multiple stems.
- **Condition:** categorized as good, fair, poor, or dead based on signs of stress, poor structure, damage, soil and root problems, disease, and pests.
- **Primary Tree Maintenance:** assigned as remove, prune, train, discretionary, palm prune (if applicable), stump removal, or plant (if applicable).
- **Risk Rating:** Collected per the ISA BMP, moderate, low, high, and extreme.
- **Defects:** including dead and dying branches, broken or hanging branches, branch attachment, trunk condition, cracks, decay or cavity, tree architecture, and root problems.
- **Further Inspection**: categorizing trees that require additional inspections for various issues beyond the scope of a standard inventory.
- **Overhead Utilities:** recording if overhead utilities are present and conflicting, present but not conflicting, or not present.
- **Comments/Notes:** observations and other pertinent information are recorded.
- **Date of Inventory:** the date the urban forester collected the data.

PLANTING SITE ASSESSMENT

When examining the state of the urban forest, it is essential to assess more than just the trees themselves. Species diversity is integral to the sustainability of an urban forest. Understanding your current stocking level and potential ability is crucial to short- and long-term planning. When assessing planting sites, we follow the mantra “Right Tree in the Right Place.” DRG will determine planting sites based on factors such as growing space, overhead utilities, and proximity to signs, lights, intersections, etc. Due to the nature of inventorying available planting sites, DRG recognizes the importance of understanding your goals and objectives for this tree inventory project. Based on your priorities, we recommend considering one of the following options:

1. **100% Inventory**. DRG will inventory all available planting sites during the tree inventory.

2. **Partial Planting Site Inventory.** DRG will prioritize and limit the collection of the planting sites to keep the total number to approximately 25% of the total sites inventoried.

3. **Five-Year Planting Strategy.** Based on City of Madison Heights, MI current annual planting levels, DRG will locate five years of potential planting sites. For example, if 100 trees are planted annually, then DRG will locate approximately 500 available sites. These sites can be a combination of small, medium, or large based on planting goals.

4. **Priority Areas (i.e., Environmental Justice Areas).** DRG will inventory available planting sites in predetermined areas during the tree inventory to facilitate improving canopy cover and diversity goals within these areas.

TREE RISK ASSESSMENT

During the inventory, DRG's urban foresters can inspect each tree following the ANSI tree risk assessment (ANSI 2017) protocol. DRG will complete a 360-degree ground-based visual inspection of the crown, trunk, trunk flare, above-ground roots, and site conditions around the tree in relation to targets. The assessment only includes conditions detected from the ground and does not include aerial or subterranean inspection, testing, or analysis.

DRG evaluates risk and assigns a risk rating based on an assessment of the failure mode (i.e., branch, whole tree, codominant stem) with the most significant risk. The specified period for the risk assessment is one year. The risk part of this inventory and evaluation is to maintain compliance with the most recent standards and practices in the arboricultural industry. It is important to note that our inspections are "rapid assessments" and are meant to show a need for further study, and thus are not legally binding in any litigation. DRG used the following criteria based on the *International Society of Arboriculture Best Management Practices—Tree Risk Assessment*, Second Edition (E. Thomas Smiley, Nelda Matheny, and Sharon Lilly 2017) to arrive at a risk rating.

- **Likelihood of Failure:** Identifies the most probable failure and rates the likelihood that structural defect(s) will result in failure based on observed current conditions.
- **Likelihood of Impacting a Target:** The rate of occupancy of targets within the target zone and any factors that could affect the failed tree as it falls towards the target.
- **Consequences of Failure:** The consequences of tree failure are based on the level of target and potential harm that may occur. Consequences can vary depending on the size of the defect, a distance of fall for the tree or limb, and any other factors that may protect a target from harm. Target values are subjective, but DRG staff try to assess them from our client's perspective.

QUALITY CONTROL AND QUALITY ASSURANCE

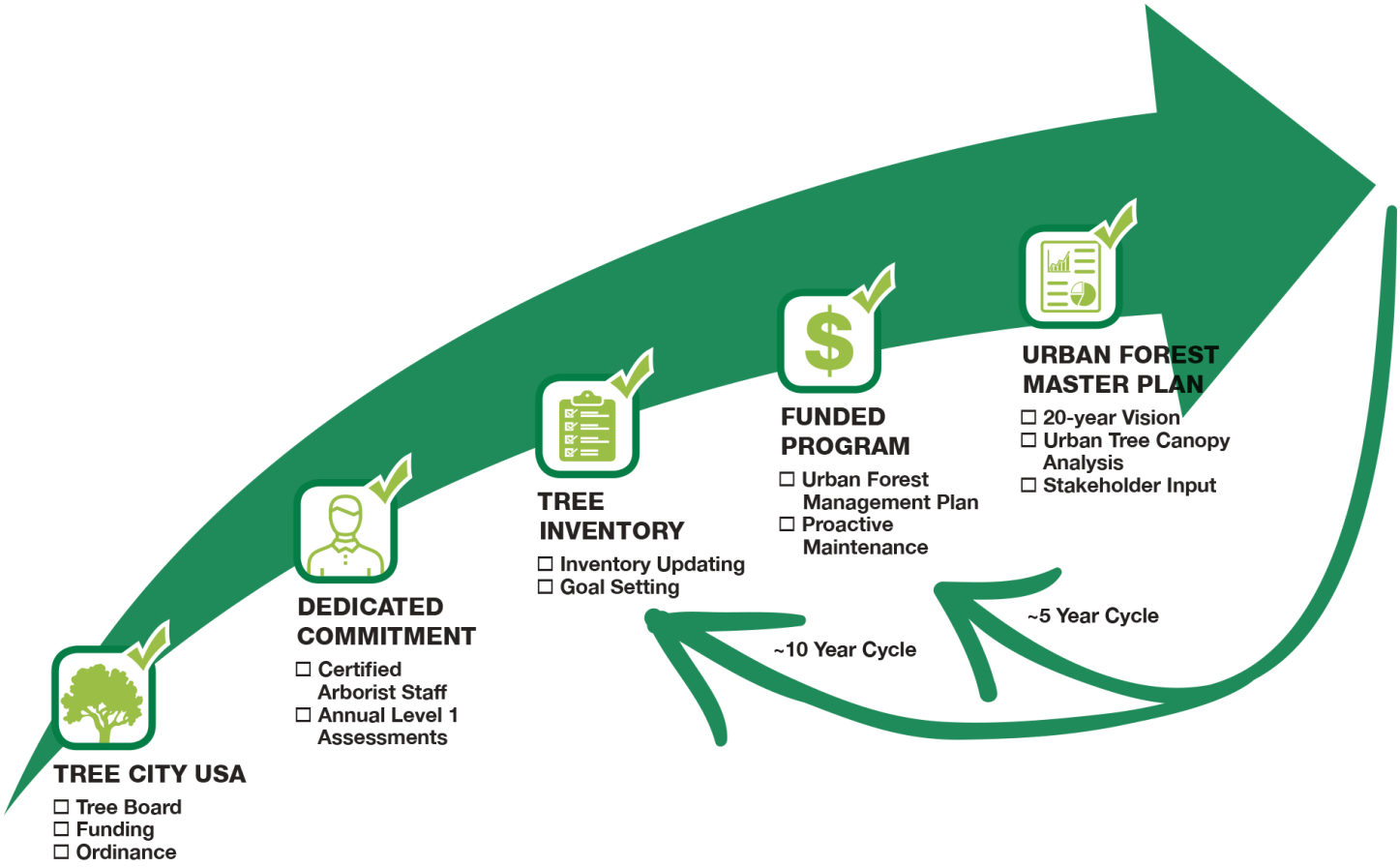
Not only do we provide you with real-time data viewable from our TreeKeeper® software, but we also have a detailed quality control and quality assurance processes to guarantee a high level of accuracy. While minor errors are always possible in human-collected data, we are confident that our approach to quality control surpasses that of any other firm. We understand the importance of the data for your decision-making and stand by the accuracy.

To ensure the accuracy of the data, the team employs several quality control checks consisting of hot and cold data checks during fieldwork. Hot checks involve the urban foresters working together and collecting the same data to ensure consistency. In cold checks, the urban foresters review a sample of each other's data to identify any inconsistencies. Any necessary corrections are made to ensure that you receive consistent and accurate data communicated to you. After the data collection is complete and before final delivery, a series of queries and checks are run to verify the data's correctness. Any identified errors are addressed before delivering the data to you and your representatives. Below is an example of a snapshot from our QC/QA methodology:

Inventory Statistics				
Site Count to Date		Percent Complete	Estimated Total Site Count	
3,161		83%	3,800	
Overall Critical Error Score	Target Critical Score	Non-Critical Error Score	Target Non-Critical Score	Percent Audited
100%	95%	98.7%	90%	1%

DATA DELIVERY

At the end of data collection and final QC checks, we provide the data in both shapefile and Microsoft Excel™ format. If desired, you can continue to maintain your web-based TreeKeeper® system, which has the ability to export data in these formats at any time. Additionally, we have experience delivering data or creating API's into a wide variety of other software systems such as ESRI, Cartegraph, CityWorks, Salesforce, etc.



We understand the importance of this Tree Inventory Milestone to the further development of your program.

TASK TWO: TREEKEEPER®

Davey's TreeKeeper® software is the world's leading tree inventory software and has been continually in operation for longer than our competitors have even been in business. TreeKeeper®'s stability and large diverse user base gives you the confidence that your data are safe, secure, and usable. While many competitors have come and gone, we have never wavered from our commitment to providing our clients with the highest quality software.

TreeKeeper® is constantly being updated based on technology advancements, user feedback, and internal research and development. It is a subscription service offered as a Software as a Service (SaaS) and requires an acceptance of SaaS terms and conditions. TreeKeeper®'s scalability allows our clients to grow alongside the software and facilitates a paperless workflow operation without dictating exact procedures. The pricing for TreeKeeper® is transparent and upfront, with no hidden fees, additional costs, or a-la-carte modules. With a role-based user experience, users access data with specific user-created dashboards, reports, filters, and permission rights.

KEY SOFTWARE FEATURES

- **Interactive Dynamic Work Environment.** TreeKeeper® makes managing inventory data in the field or on a desktop easy with its interactive work environment. Users can view and work with the tree inventory data through an interactive map and table that is fully customizable and can be used independently or simultaneously. TreeKeeper® also enables multiple people in different locations to access the system at the same time, enabling real-time updates to the data.
- **Unlimited Information with Multiple Data Layers.** We do not limit or charge more for the amount of users, trees, or information stored in TreeKeeper®. You have the ability to have multiple editable layers, such as historical data, additional facilities, and additional assets, as well as multiple base layers.
- **Role-Based.** Each system has the following roles that can be assigned to an unlimited number of users; admin, edit, read, contractor, and public. Each role has specific functionality and can be assigned to each layer built into the system.
- **Public View.** All TreeKeeper® systems come with an included landing page that is aimed at educating and informing the general public. Users dictate what information is viewable (not editable) and can include i-Tree benefits, species information, custom reports, planting requests, and more!
- **Mobile.** Each system has the ability to switch between mobile and desktop views. The desktop view is built on a dynamic web page optimized for whichever screen size is used. The mobile version is optimized for tablets and provides full functionality in a streamlined user experience to edit, manage work orders, add trees, take photos, etc.
- **i-Tree Eco Benefits.** Utilizing i-Tree's Eco API, TreeKeeper® automatically and dynamically calculates the environmental benefits of the trees on an annual basis and is projected out for 20 years. Information includes air quality, carbon sequestration and storage, stormwater benefits, and energy (if possible), and is displayed for individual trees, groups of trees, or the entire population.

- **Infinite Searchability.** Users can search the live data with either the integrating mapping tools or the explore section. In the Map-Centric view, users can use the map to find information about specific sites or groups of sites. The explore section also allows users to query the data by searching for sites based on various data fields, such as address, species, condition, maintenance, size, etc. Whether searching from the map or exploring sections, the results are synchronized, so you will always have results in both spots.
- **Editability & Archive.** Within the tree view mode, users with Admin or Edit rights have the ability to make edits to all the data fields. Most data fields utilize dropdowns to minimize potential errors from spelling or inconsistent nomenclature. All edits are displayed within the Archive feature and are timestamped. This allows all users to see how the tree has changed over time.
- **Work Orders & Calls.** All systems come with a robust work order and caller log feature that can be utilized if desired. Work orders can be created for individual or groups of trees. They can then be requested, scheduled, or completed and assigned to work crews, contractors, or projects. The system keeps track of the edits made to a site through its work history feature. Users also have the ability to log information about specific callers for a specific site.
- **Photos & Electronic Documents.** All sites have the ability to have various electronic attachments associated with them, including photos, PDFs, and documents. The upload photo option automatically uses your phone's built-in camera when using the mobile version.
- **Tree Appraisals.** Using the Council of Tree and Landscape Appraisals (CTLA) 10th Edition trunk formula method, all trees have an estimated tree valuation by default. Users can further define attributes to get an actual tree valuation with the ability to record pricing estimates and local information.
- **Custom Dashboards, Reports, & Filters.** Dashboards are configurable for each user with pre-set and user-designed graphs, reports, work orders, and filters viewable upon logging in. TreeKeeper's robust reporting feature allows users to create custom reports related to attributes, work orders, project tracking, and more. All searches are savable as quick filters, enabling users to quickly and easily run and share search results. Reports and filters are dynamic and pull from the current inventory information.
- **Administrative Hub.** Within the administrative hub, admin users can use a variety of easy-to-use tools to further customize your TreeKeeper® experience. You can add additional users, assign roles, edit attributes, create projects, update work crews, assign cost information, and more!
- **Exporting & Importing Data.** You always own your data and have access to it. You can use the exporter & importer tool on all the data or a subset of data at any time.
- **Custom API Integration.** If desired, we can work with a variety of 3rd party software providers to configure a customized API into their system. This can be customized as a simple push of data or as a complete push and pull to fully keep all systems updated. We have successfully created API's for many systems, including, but not limited to, in-house ESRI configurations, Cartegraph, Cityworks, Salesforce, Lagin, 311, etc.

To learn more about TreeKeeper®, please visit our website, where you can watch a video and request a demo if desired.

SOFTWARE TRAINING & SUPPORT

We are happy to provide a complementary orientation training during the inventory. Additionally, DRG offers custom software training for an additional fee that can be arranged at any time throughout your subscription. These trainings are approved for ISA continuing education units (CEUs).

SOFTWARE UPDATES

All TreeKeeper® clients receive free unlimited updates. We are committed to staying up-to-date with the latest technology trends to ensure that TreeKeeper® remains the most advanced software system for tree inventory management. We value client feedback and have made numerous upgrades to TreeKeeper® based on suggestions from clients over the past 20 years. These upgrades are developed in-house by DRG's professional software developers—not by off-shore labor or other subcontractors.

TASK THREE: TREE INVENTORY ANALYSIS & MAINTENANCE STRATEGY

The goal of DRG's Tree Inventory Analysis & Maintenance Strategy is to recognize priority and proactive tree management tasks, know the value of the inventoried trees, and project a realistic multi-year budget. To develop this plan, our experienced urban foresters analyze the tree inventory data, assessing the data to determine the tree population's composition, structure, and function. Then, DRG uses the findings from the data analysis, along with industry standards, risk management goals, and best management practices, to report on the status of the urban forest and prioritize tree maintenance needs. DRG develops a multi-year maintenance schedule and cost spreadsheet, provided as an editable Excel™ spreadsheet, based on prioritized maintenance needs.

PLAN SECTIONS

- **Executive Summary:** Provides an inventory, recommended maintenance, and benefits summary overview of the project and its findings in a format that facilitates printing and sharing with elected officials, citizens, and others.
- **Structure & Composition:** Using charts, tables, and insight from DRG's experienced urban foresters, this section describes the composition, function, and structure of the inventoried urban forest. Detailed observations and recommendations are analyzed on the following:
    - Species & General Diversity
    - Pest Susceptibility
    - Condition
    - Relative Age Distribution
    - Defect Observations
    - Infrastructure & Growing Space
    - Canopy Cover & Stocking Level
- **Functions & Benefits:** Using i-Tree, an analysis highlighting the environmental, ecological, and economic benefits trees provide with the following analysis:
    - Overall Results
    - Annual Benefits
    - Improving Air Quality
    - Sequestering & Storing Carbon
    - Controlling Stormwater
    - Replacement Value
- **Recommended Maintenance:** Focuses on the tree maintenance tasks that will help mitigate risk, complete proactive maintenance cycles, and plant trees (if collected). Based on the inventory data, the following analyses are discussed:
    - Priority Maintenance & Further Inspections
    - Routine Maintenance
    - Routine Pruning Cycle
    - Young Tree Training Cycle
    - Routine Inspections & Inventory Updates
    - Tree Planting & Stump Removal (if collected)
- **Maintenance Strategy & Example 5-Year Budget:** Using the tree inventory data, an example 5-year annual maintenance schedule and budget are provided with details that recommend tasks to complete each year in an editable Excel™ table format.
- **Conclusion:** Summarizes the report, drawing inferences from the entire process about what has been found and decided, and the impact of those findings and decisions.
- **Appendices:** Relevant appendices are provided, including References, Summary of Recommendations, Study Area and Data Collection Procedures, and Risk Assessment if applicable.

OPTIONAL ADDITIONAL SECTIONS

While the information and recommendations in the Tree Inventory Analysis & Maintenance Strategy focus on inventory data analysis for proactive and cost-effective tree management, particular issues or needs may require further analysis. Additional customized sections can be developed using the inventory data and other local, regional, and national sources of information and best management practices for an additional fee.

- **Invasive Pest Management Strategy:** This section identifies potential threats to the tree population by local and regional invasive pests (insects and/or diseases). Fundamentals of an Integrated Pest Management program will be explained, and strategies will be applied to existing pests. This section may also include information on wood utilization and how to effectively monitor the community, improve public education, manage tree debris, reforest after an infestation, and work with stakeholders. (3-5 pages)
- **Wood Waste Utilization:** Efficient utilization of waste wood can reduce costs for a community. Local needs and opportunities define the best management of this resource. An analysis of existing and future wood waste will be calculated. Based on the wood waste analysis findings, recommendations will be made to best utilize urban wood based on local resources and abilities. (6-8 pages)
- **Planting Plan:** A sustainable community forest must be diverse, vigorous, and properly stocked. This goal is often accomplished by having a planting plan that informs and advises tree managers and other stakeholders on the overall capacity for new trees, where tree canopy should be expanded, species diversity measures improved, and the best planting techniques utilized. The inventory data can produce a detailed statistical analysis of planting sites (including type, dimensions, and quantity). The plan will also discuss urban forest diversity issues, species selection, design methods, a detailed recommended species list, a tree planting worksheet, and recommendations for proper planting techniques and new tree maintenance tasks. Local needs and environmental justice will inform the planting plan. (7-10 pages)
- **Urban Tree Canopy Analysis:** This section will either estimate canopy cover using i-Tree Canopy or analyze data from a pre-existing Urban Tree Canopy study. Depending on the data source and accuracy of the information, this section will discuss the total community tree canopy benefits provided and compare canopy levels to similar communities in the region. A canopy change analysis and recommendation on a canopy goal will be included if possible. (5-6 pages)
- **Storm Preparedness:** This is a practical section that details policies and procedures to increase the efficiency and productivity of tree risk reduction and storm response operations in the event of a storm emergency. Recommendations will range from overall management objectives to specific operational details and from long-term management objectives to short-term program priorities. An analysis of priority streets, potential tree failures, and equipment and staffing needs will be formalized. (8-11 pages)
- **Funding Analysis:** A proactive and successful tree management program requires sufficient funding to accomplish priority work, implement a proactive pruning program, and proper sustainable planting with maintenance. This section will discuss and compare the current funding level and source(s) to the projected costs of completing tree pruning, removal, and planting tasks identified by the inventory. The funding needed for additional tree management program services or objectives, such as public outreach, new equipment purchases, and improved computer technology, can also be analyzed. The section will discuss budget shortfalls, offer options for additional revenue streams, and explain why proper tree management is a prudent and profitable investment strategy. (4-6 pages)
- **Stakeholder Meetings:** DRG can participate, lead, and/or facilitate various stakeholder meetings. These meetings can be a combination of surveys, virtual or in-person. They can be aimed at internal departments, allied organizations, the general public, partners, and/or private organizations. DRG will provide a detailed agenda, publicity plan, post-meeting notes, and recommendations for each meeting for each meeting. The results of the meetings will be integrated into the overall Strategy, and individual responses will be provided as an Appendix.

Section Three:
Qualifications and Experience

Davey Resource Group, Inc. is the leader in urban forestry consulting in the United States and has provided tree inventory assessment services and assisted with managing urban forests since its founding in 1992. We regularly assess over two million trees annually and develop a wide range of plans for communities. These plans include data-driven operationally-focused work plans and strategic master plans guided by community and stakeholder input. Our TreeKeeper® software is used by over 500 clients nationwide and has more than 10 million trees hosted.

In addition to our on-the-ground arborist assessment and urban forest planning services, we provide GIS-based mapping and canopy assessments. Since 2010, DRG has completed over 225 urban tree canopy (UTC) assessments, providing accurate estimates of tree canopy cover and impervious surfaces. Our team consists of arborists, urban foresters, planners, landscape architects, ecologists, GIS, and Information Technology (IT) professionals. Together, we offer proven solutions for urban forest management and unique strategies for today's challenges, such as the urban heat island effect and the lack of tree canopy in underserved neighborhoods.

In addition to DRG's renowned urban forestry services, we also offer a diverse range of other environmental consulting services. This includes wetlands and stream studies, environmental design and ecosystem restoration, stormwater management and compliance, and invasive species management. DRG's staff is well versed in complex ecosystems, resource challenges, and regulatory concerns that can impact project success. With 24 local regional offices and a national presence, DRG is well equipped to handle urban forestry and environmental projects in your area.

Internally, **we believe in the QTC method - Quality, Teamwork, and Communication**. How does this benefit you and your project? We continually look for ways to reinvent, innovate, and adapt our processes to achieve the highest quality results at the best value for our clients. This includes hiring and training team members who are accountable for good work, working safely, and providing accurate results. We encourage and engage in active communication with you and within our teams to provide quality service throughout the project and beyond. This philosophy has led to our history of satisfied repeat clients.

As a trusted partner, Davey collaborates with the United States Department of Agriculture (USDA) Forest Service, The Nature Conservancy, American Forests, and the Arbor Day Foundation on a variety of industry-leading initiatives. Our commitment extends to the International Society of Arboriculture (ISA) and its local chapters, with staff serving on boards and committees. We support the Urban and Community Forestry Society with regular presentations, sponsorships, and volunteering.

Davey has actively contributed to developing and revising arboriculture standards and best management practices, including tree risk assessment, through the American National Standards Institute (ANSI) and ISA. We also work directly with the USFS on the continued development and support of i-Tree to quantify the value ecosystem services trees provide.

DRG'S URBAN FORESTRY SERVICES

DRG's urban foresters support municipalities, campuses, parks, cemeteries, utilities, and the private sector across North America and internationally. We often provide tree risk reduction strategies through assessments and tools such as tree inventories, risk assessments, and urban tree canopy assessments. DRG tailors each project to meet our client's specific program needs and project budget. We provide:

- Tree inventory data collection and updates of existing data.
- Smart tree inventory data collection (AI and machine learning).
- TreeKeeper® software.
- Urban forest planning services to help manage trees and achieve short- and long-term goals.
- GIS services and specialists in-house to assess urban tree canopy, map tree growth, analyze planting space, and predict the impact of threats to tree canopy, such as the urban heat island effect.
- Staff augmentation and contract forestry.
- i-Tree Tools and analyses to highlight the benefits of trees.

We provide innovative solutions through experience and expertise.

Why Choose the Davey Team?

DRG'S UNIQUE QUALIFICATIONS

The following assets and qualities of DRG distinguish us within the arboriculture and urban forestry fields and demonstrate our ability to provide high-quality services.

- **Large professional arborist and GIS/IT staff.** DRG has over 100 professional arborists dedicated to tree inventories and urban forestry consulting, 20 GIS/IT specialists, and access to additional trained employees as the needs arise. As a large national firm, DRG can expand a project team quickly to meet the needs of any project. Our size and internal resources allow it to complete large, long-term inventory projects.

- **Large equipment inventory.** DRG owns multiple handheld computers and pen tablets for tree data collection and precise GPS units. We have national purchase and rental agreements with computer hardware manufacturers and technical equipment to quickly obtain specialty, additional, or replacement equipment.

- **Tree inventory and software project experience.** DRG has over 30 years of experience conducting municipal tree inventories, creating long-term management plans, and creating customized software systems. We have successfully completed more tree inventories than any other company and regularly assess more than 2 million trees annually. Our inventory arborists are highly trained in tree identification, tree maintenance determinations, and tree risk assessments.

- **Local offices and staff with national support.** DRG maintains several offices throughout the region, and our staff can respond directly to any questions or inquiries you might have, ensuring quick and constant communication. Our parent company, The Davey Tree Expert Company, also has residential and commercial tree care and landscaping, horticultural technical support, and urban forestry consulting offices throughout the region. These local offices have our nationwide company's collective support and resources and can assist as necessary.

A 135-year history of providing clients with quality work and proven results. The Davey Tree Expert Company has been in business for over 135 years. It is an employee-owned company that has stood the test of time. While other urban forestry companies and their inventory software programs have gone out of business, The Davey Tree Expert Company's history speaks to longevity and security, such that it will remain successful and be able to serve the needs of your community well into the future.

THE PROJECT TEAM

DRG's staff members are the most qualified and credentialed in the industry and possess extensive industry knowledge and experience. This knowledge and experience includes industry standards, best management practices (BMPs), and the municipal work environment. All of our DRG team members are either ISA-certified arborists or on a path to becoming certified. Many have additional credentials and maintain the ISA Tree Risk Assessment Qualification (TRAQ) and/or are Board Certified Master Arborists (BCMA). Our team also includes IT and GIS analysts, plan writers, software technicians, data analysis, and administrative support. DRG has the largest staff of urban forestry consultants in the country, allowing us to scale and substitute staff as needed. The staff listed below have been identified as an ideal solution for your project, but due to timing or other assignments, we may elect to substitute staff or equal expertise if needed.

Gerritt Moeke, CCF., is an associate consultant with DRG. Gerritt project manages and site manages the implementation of urban forestry and ecological restoration projects. Currently, he supports a Michigan Department of Transportation project covering the maintenance of newly planted trees along I-75 and the mitigation of invasives and other undesirable species that threaten the health of the planted trees and shrubs. Gerritt is OSHA 10-hour certified in General Industry Safety and was internally trained in construction oversight by DRG alongside TGC Engineering. Previously, Gerritt worked in traditional forestry assessing and managing private tracts of forest land in Northern Michigan for a small forest products company. His experience covered the cruising of timber to appraise both the value and the health of forest, planning and implementation of long-term management of northern hardwood forests, the grading and scaling of cut timber, and the sale of veneer-quality hardwood logs. Gerritt earned his Bachelor of Science degree in forestry from Michigan State University with a minor in economics, and is currently a Candidate Certified Forester for the Society of American Foresters and an International Society of Arboriculture Certified Arborist (MI-4520A).

Lee Spangler is an environmental specialist with DRG. He holds a Bachelor of Science degree in forestry with a minor in urban/community forestry and has 6 years of experience in urban forestry, as well as over 10 years' experience in horticulture and landscape maintenance. Some of his skills include invasive species control, residential tree and garden planning and planting, native plant installation, prescribed burns, erosion control, heavy equipment use and training, plant/tree identification, and GIS. As an environmental specialist, he engages in a wide variety of projects, from invasive species control for homeowner associations to Michigan Dept. of Transportation right-of-way tree and shrub planting and upkeep. Mr. Spangler is an ISA Certified Arborist and a former Certified Green Industry Professional. He has training in S190/S130 Wildland Firefighting.

Kyle Schumann is an environmental scientist with DRG. Mr. Schumann has supported numerous tree surveys and assessments in metro-Detroit and Columbus, OH. His areas of professional interest include ecological restoration, wetland and stream conservation, invasive species management, and conservation stewardship. Mr. Schumann has completed several projects, including comparative studies of pre-settlement tall-grass prairies, macroinvertebrate stream surveys, and first order stream surveys across the state of Michigan with Michigan State University and Michigan Department of Environment, Great Lakes, and Energy. Mr. Schumann is currently supporting a large-scale reforestation project in conjunction with MDOT along I-75 He holds Bachelors of Arts degrees in biology and environmental science from Adrian College.

Thomas Flynn is an inventory arborist technician with Davey Resource Group, Inc. (DRG) with over three years of experience with municipal inventory data collection, utility forestry, and management. He also has specialized knowledge in utility vegetation management and tree risk assessment. In his current role, he is responsible for patrolling municipal rights-of-way, identifying trees, and recording biometrics using Rover GIS. In addition, he assesses the likelihood of tree site failure and determines the necessary measures to establish and maintain the urban forest. Thomas' recent and relevant accomplishments include his contributions to completing an inventory update in Livonia, MI. Additionally, he has assisted with invasive removals at Great Lake Crossing and native plantings for the Saginaw Chippewa Indian Tribe. In November 2023, he successfully passed the Pesticide Applicator exams. Certified Arborist and TRAQ.

Ashley McElhinney, M.S., is an associate urban forestry planner with DRG. She brings over four years of experience in tree planting, tree care, nursery production, and lawn conversion. Ms. McElhinney provides technical input for urban forest master plans, best management practices manuals, and other reports.

Prior to joining DRG, Ms. McElhinney led field operations at an urban forestry non-profit in San Jose, California, where she built partnerships with local leaders, stakeholders, and regional coalitions; was awarded and managed private and government grants; and made strategic programmatic decisions to increase capacity in the city's urban forest. She engaged and educated volunteers to plant trees, provided tree care, converted lawns into drought-tolerant landscapes, and operated a nursery while providing job training to AmeriCorps service members. She is experienced and passionate about finding innovative opportunities to increase community engagement, climate resilience, and tree equity.

She holds both a bachelor's degree in environmental science and a master's degree in urban forestry from the University of Massachusetts Amherst, and is an International Society of Arboriculture (ISA) Certified Arborist (WE-14004A). Ashley McElhinney works primarily out of her home office in Massachusetts and regularly collaborates with our Michigan-based team.

Lee S. Mueller, M.S., C.F., is a market manager with DRG. Lee is responsible for expanding environmental consulting services, establishing new regional offices, and strengthening key business partnerships across the Great Lakes. Throughout his career, Lee has demonstrated deep experience in all aspects of developing and supporting complex, multi-partner projects in urban forestry and ecosystem restoration—from project visioning and budgeting to implementation strategies and long-term maintenance. He has also served as a staff or board member on a variety of professional and nonprofit organizations dedicated to forestry, arboriculture, and parks and recreation. Lee is excited by creating strategic partnerships; building and evaluating processes and systems; engaging diverse communities; and seeking, writing, and managing private or government grants. Prior to joining DRG, he was instrumental in establishing an urban forestry outreach and volunteer program that garnered state and national recognition in Grand Rapids, Michigan, as well as managing large-scale, volunteer-led tree planting and phytoremediation projects in Detroit. Lee is an International Society of Arboriculture (ISA) Certified Arborist, has obtained an ISA Tree Risk Assessment Qualification (TRAQ), and is a Certified Forester through the Society of American Foresters, and a Michigan Registered Forester. Lee has a master's degree and a bachelor's degree in forestry from Michigan State University.

RELATED PROJECTS

We understand the importance of this project and how you only have one chance to get it right. With our vast experience providing urban forestry consulting, you can rest assured we will get it right the first time, and your investment will not be wasted. Below is a limited selection of projects demonstrating our expertise in delivering similar scopes of work on time and within budget. We are happy to provide additional project examples or references if desired.

Client: City of Big Rapids, Michigan
Contact: Heather Bowman | 231.592.4018

Big Rapids has been a Tree City USA community for a number of years. As such, the city has worked to plant replacement trees where those were removed and care for trees along city streets and within public parks. Due to a number of staff changes, the city's inventory data were completely out of date. The city received a Michigan Department of Natural Resources grant in 2020 to re-establish inventory control of city streets, and the city selected DRG through a competitive bid process. DRG navigated city streets and parks and ultimately assessed 3,797 trees and stumps across the community. Data included tree location, species, diameter, condition, and maintenance needs. Data were delivered to the city in DRG's TreeKeeper® 8 inventory management software and incorporated into the city's GIS platform. Ultimately, the city is using these data to prioritize tree maintenance activities and allocate resources effectively to improve city tree management.

Client: City of Birmingham, Michigan
Contact: Carrie Laird | 248.530.1714

In 2020, the City of Birmingham received from the Michigan Department of Natural Resources for a tree standards manual. DRG wrote a Tree Manual & Standards of Practice for the city to align city tree maintenance guidelines with community goals and priorities. In 2022, Birmingham contracted DRG to update the city's public tree inventory. DRG also performs ongoing tree inspections and provides additional urban forestry expertise and training sessions.

Client: City of Coldwater, Michigan
Contact: Dean Walrack | 517.279.6926

The City of Coldwater received a Michigan Department of Natural Resources grant to support a tree inventory. Through a competitive bid process, the city selected DRG to complete its tree inventory. In 2019, DRG's ISA Certified Arborists navigated city streets and collected information on 5,503 trees and stumps located in the right-of-way and on public properties. Inventory data included tree location, species, diameter, and an assessment of tree risk and maintenance needs. Tree inventory data were delivered to the city in Davey's TreeKeeper® 8 software. The city has incorporated inventory data into the city's existing GIS platform and uses inventory data to prioritize tree maintenance activities. DRG has subsequently worked with Coldwater, in partnership with ReLeaf Michigan, to provide urban tree canopy assessment data, prioritized planting analyses, and an estimation of tree benefits. Coldwater is using these data to identify planting locations, engage the public, and host volunteer tree planting events.

Client: City of East Grand Rapids, Michigan
Contact: Doug La Fave | 616.940.4817

DRG conducted a street tree inventory in the City of East Grand Rapids. The GIS-based inventory included an assessment of 7,113 trees and stumps. All trees were evaluated for condition, structural soundness, and assigned a risk level to enable the city to prioritize its maintenance needs. DRG's experienced GIS/IT team ensured the city was able to successfully import all inventory data into the city's existing asset management system. The city immediately used their tree inventory to address all priority maintenance issues identified by DRG. DRG's experienced consulting team also presented inventory findings to the City Council, further establishing the value and importance of monitoring community trees.

Subsequently, the city has engaged DRG in ongoing contract forestry services. DRG's team of professional arborists have provided tree inspections and risk assessments to guide city decisions in the maintenance of specific trees. DRG was also asked to put together a cyclical pruning program and specifications for future tree maintenance contracts. More recently, DRG used inventory data to identify specific tree management concerns, set up a body of work, advertised a contract, managed the bid process, and administered the contract for Fiscal Years 2018 through 2021 pruning and removal operations. DRG continues to support the city's forestry efforts through tree assessments, contract management, tree pest and disease concerns, and public outreach.

Client: City of East Lansing, Michigan
Contact: Cathy DeShambo | 517.319.6936

In 2002, DRG was hired to perform a comprehensive, computerized street tree inventory for the City of East Lansing. Approximately 9,000 street trees were assessed to establish the city's first-ever tree inventory. By 2016, the inventory had grown out of date due to staff turnover and rapidly changing technologies (e.g., geographic information systems). DRG was again hired by the City of East Lansing to re-establish its tree inventory. DRG's urban foresters collected a total of 9,329 trees, stumps, and potential planting sites throughout the entire municipality. All trees were evaluated for condition, structural soundness, and hazard potential to enable the city to prioritize its maintenance needs. After analyzing the data, DRG's urban foresters completed an urban tree canopy assessment to understand the extent of trees on both public and private lands. These data were compiled into an urban forest management plan that characterized the city's urban forest and provided direction for future management. Additionally, to help East Lansing better utilize its tree database in a more efficient manner, the inventory data were delivered in DRG's TreeKeeper® 7 subscription software.

Client: City of Ferndale, Michigan
Contact: Daniel Antosik | 248-546-2525 Ext. 602

The City of Ferndale contracted DRG to perform an urban tree canopy assessment (UTC), ordinance review, phased inventory, and management plan. The UTC identified the city's total tree canopy, where tree canopy occurs, and opportunities for improvement. Coupled with the city's tree ordinance review, the city has clear direction and strategies to maximize tree canopy across the community. To date, all 4 inventory phases have been completed. A total of 8,014 trees have been collected. As data are collected, the city immediately handles any maintenance concerns identified. These efforts have raised the visibility of the city's forestry program among city leadership.

As a result of these efforts, Ferndale crafted a series of goals and metrics to advance their urban forestry program. While the city has capacity to move several of their goals forward, they do not have forestry expertise on staff. Since 2017, Ferndale has contracted with DRG to provide urban forestry expertise and insight. DRG's experienced team of urban foresters handle tree inspections, additional ordinance review, resident outreach, planting program evaluation, city council meetings, staff training, and program management. These activities have improved Ferndale's in-house urban forestry capacity and assured residents that Ferndale's trees are being properly cared for.

Client: Macomb County Department of Planning and Economic Development
Contact: Gerry Santoro | 586.469.5285

Funded in part by a Michigan Department of Natural Resources grant, the Macomb County Department of Planning and Economic Development launched a partnership to advance urban forestry across one of Southeastern Michigan's areas of lowest tree canopy, southern Macomb County. The initial phase of the project was designed to assess urban forestry programs in several communities, evaluate existing data sources, and create a coordinated future vision to strengthen urban and community forestry efforts across multiple communities.

DRG was secured to provide multiple consulting services to support county efforts and develop a strategic foundation for the partnership. Our team of professionals performed a needs assessment of 11 Macomb County communities, which included a review of existing partnerships, staffing, budgets, urban forestry programs, ordinances and policies, and other programmatic elements. DRG provided materials and presentations to support partnership meetings with the participating communities. DRG also analyzed existing tree canopy data and established a prioritized planting plan to improve both environmental impacts and social equity. DRG created a calculator to estimate the number of trees and associated costs needed to meet the county's canopy goals. Additionally, DRG brought a partnership with ReLeaf Michigan, a statewide non-profit, to the table to coordinate volunteer-led demonstration tree planting events.

Finally, DRG used the community needs assessments to develop a strategic urban forestry roadmap. The roadmap established a series of ways in which the Green Macomb Urban Forest Partnership can support community efforts to expand tree canopy and improve urban forest programs. Each strategy was developed based on themes that emerged in the needs assessments and customized to the particular characteristics of Macomb County. This roadmap will be used by the county to prioritize strategic actions, continue developing the partnership, solicit grant dollars, and support community efforts to expand tree canopy county-wide.

Subsequently, DRG has been retained to help implement the roadmap. Specifically, DRG has provided educational seminars for community partners to continue to establish a working knowledge of tree care, urban forest program management, and volunteer engagement. Additionally, DRG worked with Macomb County to develop social media campaign messages, images, and materials to help widely promote the benefits that trees offer Macomb County residents. More recently, DRG developed specifications for tree inventories and a management plan template for county communities and helped conduct inventories and author management plans as part of a pilot project. These tools have been used to advance urban forestry across Macomb County.

INVESTMENT AND AUTHORIZATION TO PROCEED

The prices, terms and conditions, and warranty are hereby accepted. I am authorized to bind and authorize Davey Resource Group, Inc. to perform the specified work. I am familiar with and agree to the terms and conditions appended to this proposal. I understand that once accepted, this proposal constitutes a binding contract. This proposal is based on an estimated number of trees/sites to be inventoried. Davey Resource Group, Inc. reserves the right to renegotiate the price based on the timing of the award, scheduling of fieldwork, the final methodology chosen by the client, and availability, completeness, and quality of maps and GIS information.

Madison Heights, MI - Street and Park Tree Inventory

Description of Service	Price	Acceptance
TASK 1: TREE INVENTORY		
Computerized inventory data collection of up to 9,500 existing trees, planting sites, and stumps.	$47,500	☐
Additional inventory data collection above 9,500 trees/sites.	$5.00/site	☐
(Optional) TASK 2: TREEKEEPER® SOFTWARE		
Annual subscription	$3,600	☐
Annual premium support package for customization & trainings	$1,500	☐
Web-based 4-hour TreeKeeper® training	$750	☐
In-person 6-hour TreeKeeper training	$1,800	☐
TASK 3: TREE INVENTORY AND MAINTENANCE STRATEGY		
Tree inventory and maintenance strategy with 5-year budget and benefits analysis	$4,500	☐
Project Total (Tasks 1 and 3)	**$52,000.00**	

By signing this form, I do hereby acknowledge acceptance of the scope of work and associated fee, as well as the terms and conditions and limited warranty contained herein. Furthermore, my signature authorizes the work to be performed effective the date of my signature and denotes that I am an authorized representative of City of Madison Heights, MI with authority to authorize and bind my company.

City of Madison Heights, MI		**Davey Resource Group, Inc.**	
Client Representative:		DRG Project Representative:	Gerritt Moeke
Authorizing Signature:		Title:	MI Team Leader
Authorizing Name:		Date:	Feb 20th, 2025
Title:		Phone Number:	231-675-7549
Date:		E-mail:	gerritt.moeke@gmail.com
Phone Number:			
E-mail:			

INVOICING METHOD

How would you like to receive invoices for this project?

☐ Mail: Invoice(s) will be mailed to the address listed on page 1 of this proposal.

☐ E-mail: Invoice(s) will be e-mailed to:

_____

Other: Please provide instructions below:

_____

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_____

INSURANCE REQUIREMENTS

Certificate Holder Name and Address (if different than listed on page 1 of the proposal):

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List of Additional Insured Entities:

_____

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CLIENT RESPONSIBILITIES

- Provide DRG with imagery, maps, and data files. Our request may include the following: digital orthophotographs, available GIS data layers, other electronic or paper copies of maps for roads, pavement widths, right-of-way widths, boundaries and utilities, and an electronic file or printed list of street names and endpoints.
- Provide daily contact information and directions during the inventory project.
- Provide a copy of any existing tree inventory databases.
- Coordinate and host an on-site kick-off meeting before the start of fieldwork.
- By accepting this proposal, you accept DRG's Terms and Conditions and Limited Warranty and agree that, upon award, this proposal and its attachments will be made a part of the Agreement.

TERMS AND CONDITIONS

- All pricing is valid for 30 days from the date of this proposal, after which time we reserve the right to amend fees as needed.
- Time and materials (T&M) estimates will be billed using the labor rates in DRG's current commercial price list. Fixed Fee Contract Prices will be billed in monthly increments for the percentage of work completed in the billing period. Firm-Fixed Unit Prices will be billed in monthly increments for the number of completed units in the billing period.
- Payment terms are net 30 days.
- If prevailing wage requirements are discovered after the date of this proposal, we reserve the right to negotiate our fees.
- The client is responsible for any permit fees, taxes, and other related expenses unless noted as being included in our proposal.
- The client shall provide 48 hours notice of any meetings where the consultant's attendance is required.
- Unless otherwise stated, one round of revisions to deliverables is included in our base fee. Additional edits or revisions will be billed on a time and material (T&M) basis.
- All reports are provided only to the client unless otherwise directed.
- DRG represents that it and its agents, and consultants employed by it, are protected by Workers' Compensation insurance and that DRG has coverage under liability insurance policies which DRG deems reasonable and adequate. DRG shall furnish certificates of insurance upon request. DRG agrees to maintain general liability insurance in commercially reasonable amounts. Client is responsible for requesting specific inclusions or limits of coverage that are not present in DRG insurance, and the cost of such inclusion or coverage increases if available, will be at Client's sole cost and expense. If the Client requires an Additional Insured endorsement, DRG shall provide one in the certificate of insurance, listing only the entities requested in the "Additional Insured Requirements" section above.

LIMITED WARRANTY

Davey Resource Group, Inc. ("DRG") provides this limited warranty ("Limited Warranty") in connection with the provision of services by DRG (collectively the "Services") under the agreement between the parties, including any bids, orders, contracts, or understandings between the parties (collectively the "Agreement").
Notwithstanding anything to the contrary in the Agreement, this Limited Warranty will apply to all Services rendered by DRG and supersedes all other warranties in the Agreement and all other terms and conditions in the Agreement that conflict with the provisions of this Limited Warranty. Any terms or conditions contained in any other agreement, instrument, or document between the parties, or any document or communication from you, that in any way modifies the provisions in this Limited Warranty, will not modify this Limited Warranty nor be binding on the parties unless such terms and conditions are approved in a writing signed by both parties that specifically references this Limited Warranty.

Subject to the terms and conditions set forth in this Limited Warranty, for a period of ninety (90) days from the date Services are performed (the "Warranty Period"), DRG warrants to Customer that the Services will be performed in a timely, professional and workmanlike manner by qualified personnel.

To the extent the Services involve the evaluation or documentation ("Observational Data") of trees, tree inventories, natural areas, wetlands and other water features, animal or plant species, or other subjects (collectively, "Subjects"), the Observational Data will pertain only to the specific point in time it is collected (the "Time of Collection"). DRG will not be responsible nor in any way liable for (a) any conditions not discoverable using the agreed upon means and methods used to perform the Services, (b) updating any Observational Data, (c) any changes in the Subjects after the Time of Collection (including, but not limited to, decay or damage by the elements, persons or implements; insect infestation; deterioration; or acts of God or nature [collectively, "Changes"]), (d) performing services that are in addition to or different from the originally agreed upon Services in response to Changes, or (e) any actions or inactions of you or any third party in connection with or in response to the Observational Data. If a visual inspection is utilized, visual inspection does not include aerial or subterranean inspection, testing, or analysis unless stated in the scope of work. When performing tree inventories or assessments, DRG will not be liable for the discovery or identification of non-visually observable, latent, dormant, or hidden conditions or hazards, and does not guarantee that Subjects will be healthy or safe under all circumstances or for a specified period of time, or that remedial treatments will remedy a defect or condition.

To the extent you request DRG's guidance on your permitting and license requirements, DRG's guidance represents its recommendations based on its understanding of and experience in the industry and does not guarantee your compliance with any particular federal, state or local law, code or regulation.
DRG may review information provided by or on behalf of you, including, without limitation, paper and digital GIS databases, maps, and other information publicly available or other third-party records or conducted interviews (collectively, "Source Information"). DRG assumes the genuineness of all Source Information. DRG disclaims any liability for errors, omissions, or inaccuracies resulting from or contained in any Source Information.
If it is determined that DRG has breached this Limited Warranty, DRG will, in its reasonable discretion, either: (i) re-perform the defective part of the Services or (ii) credit or refund the fees paid for the defective part of the Services. This remedy will be your sole and exclusive remedy and DRG's entire liability for any breach of this Limited Warranty. You will be deemed to have accepted all of the Services if written notice of an alleged breach of this Limited Warranty is not delivered to DRG prior to the expiration of the Warranty Period.

To the greatest extent permitted by law, except for this Limited Warranty, DRG makes no warranty whatsoever, including, without limitation, any warranty of merchantability or fitness for a particular purpose, whether express or implied, by law, course of dealing, course of performance, usage of trade or otherwise.