



**INVITATION TO BID
BID CALL 2023-04**

TREE PLANTING SERVICES

Issued March 8, 2023

Prepared by City of Morgantown, West Virginia

Responses Due:
March 29, 2023, 4:00PM
City of Morgantown
Finance Director
430 Spruce Street
Morgantown, WV 26505

Questions and Contact Information:
Marchetta Maupin, Urban Landscape Director
304-284-7422
mmaupin@morgantownwv.gov

TABLE OF CONTENTS

1 ADVERTISEMENT FOR BIDS 3

2 GENERAL SCOPE 3

3 GENERAL REQUIREMENTS 3

3.1 VENDOR QUALIFICATIONS 3

3.2 BASIS OF AWARD 4

3.3 EVALUATION OF BIDS 4

3.4 CONTRACT LENGTH 4

3.5 BID FORM 4

3.6 REFERENCES 4

3.7 WARRANTY 4

3.8 PENALTIES FOR NON-COMPLIANCE WITH CONTRACT 4

3.9 CONTACT PERSON 5

3.10 INSURANCE 5

4 SPECIFIC REQUIREMENTS 6

4.1 GENERAL DESCRIPTION 6

4.2 NOTIFICATION 6

4.3 QUANTITIES 6

4.4 INSPECTION 6

4.5 UTILITY LOCATING 6

4.6 ALLOWABLE PLANTING SEASON/TIME 6

4.7 GENERAL TREE/SHRUB SELECTION.....6

4.8 PLANTING STOCK 7

4.9 PLANTING PREPARATION 7

4.10 PLANTING BALLED AND BURLAPPED TREES 8

4.11 PLANTING CONTAINERIZED TREES 9

4.12 PLANTING BARE ROOT TREES 9

4.13 TREE PLANTING AND CARE 9

5 PAYMENT FOR SERVICES 10

5.1 BASIS FOR PAYMENT 10

6 BIDDING INSTRUCTIONS & REQUIREMENTS 10

6.1 INVITATION TO BID SCHEDULE AND BID SUBMISSION 10

6.2 BID CONTENTS 11

7 REPRESENTATIONS, CONDITIONS, AND OTHER REQUIREMENTS 11

7.1 DUTIES AND OBLIGATIONS OF VENDORS IN THE BID PROCESS 11

7.2 ADDENDA 11

7.3 NO COLLUSION, BRIBERY, LOBBYING OR CONFLICT OF INTEREST 11

7.4 PUBLIC RECORDS 12
7.5 BUSINESS REGISTRATION WITH CITY OF MORGANTOWN 12
7.6 FINANCIAL CAPACITY; INSURANCE REQUIREMENTS 12
7.7 CONTRACT 12
7.8 EQUAL OPPORTUNITY 12
7.9 FAMILIARITY AND COMPLIANCE WITH LAWS AND ORDINANCES 12

EXHIBIT 1 – NATIVE SEED MIX SPECIFICATIONS
APPENDIX A – UNIT PRICE AND TOTAL BID FORM

1 ADVERTISEMENT FOR BIDS

Publish: March 8, 2023 and March 15, 2023

Advertisement for Bids
Bid Call 2023-04
Tree Planting Services

Sealed bids will be received by the City of Morgantown, WV for all labor, supervision, equipment, materials, and expertise necessary for tree planting services on City properties and Right of Ways. The City estimates this contract will involve the procurement and planting of 326 trees and shrubs over a four-year period, with the first delivery and installation of trees scheduled for Fall 2023.

All bids shall be clearly marked "Sealed Bid 2023-04". No bidder may withdraw their bid after the time set for the opening thereof, unless the award of the contract is delayed for a period exceeding sixty (60) days. The City reserves the right to reject any or all bids and to waive irregularities or informalities in the bid or the bidding. Bids must be received at the City of Morgantown's Finance Director, 430 Spruce Street, Morgantown, WV 26505, by March 29, 2023 by 4:00 p.m.

Information related to this invitation to bid, including any addenda, will be posted to the City's website at <http://morgantownwv.gov/bids.aspx> or by contacting the City Manager's Office at 304-225-4213 or callen@morgantownwv.gov. For questions related to this invitation to bid, contact Marchetta Maupin, Urban Landscape Director at mmaupin@morgantownwv.gov.

A Kim Haws
City Manager

2 GENERAL SCOPE

The City of Morgantown, WV is seeking vendors for all labor, supervision, equipment, materials, and expertise necessary for tree planting services on City properties and Right of Ways. The City estimates this contract will involve the procurement and planting of 326 trees and shrubs over a four-year period, with the first delivery and installation of trees scheduled for Fall 2023.

3 GENERAL REQUIREMENTS

3.1 Vendor Qualifications. No contract shall be awarded except to responsible vendors capable of providing the quality and quantity of services desired. Vendor should have expertise in tree selection, handling, and planting services. This work is to be performed by a vendor that derives a majority of its annual income from arboricultural and/or nursery work and whose employees are highly trained and skilled in all phases of tree planting. Before awarding the contract, the City may require a vendor to present

evidence of the necessary experience, capability, facilities, equipment, and financial resources, including performance and payment bonds, to provide the desired materials in a timely manner. No award of contract shall be made to vendors who cannot provide sufficient documentation to prove a minimum of five (5) years' experience of tree planting.

- 3.2 Basis of Award. The contract will be awarded to the lowest responsible and responsive bidders based on their ability to provide the procurement and planting services listed herein. As a condition to award the contract, the City will require the selected vendor to obtain a performance bond and payment bond equal to the amount of the awarded contract. The City reserves the right to request any information necessary to determine a vendor's ability to provide the desired service. This may include standard specification information and references from other clients. If these information requests are denied, the City reserves the right to reject the bid.
- 3.3 Evaluation of Bids. The evaluation team shall recommend award of this contract to the vendor(s) that are able to deliver the services specified within this document in a timely fashion for the lowest grand total price.
- 3.4 Contract Length. The initial contract will be valid from the date of award until December 31, 2026. Upon mutual written consent, the City and the vendor may agree to extend the contract for one (1) additional one year.
- 3.5 Bid Form. Included at the end of these specifications is a bid form for planting services (Appendix A), which **must be included with the bid submission**. Vendors shall supply unit prices for trees/shrubs inclusive of all costs including but not limited to all labor, supervision, equipment, transportation, materials, plants, mulch, of the trees/shrubs listed on the form. Unit prices should include all costs related to completion of the work. No other costs will be accepted.
- 3.6 References. Vendor shall attach at least two municipal or commercial references that attest to the vendor's ability to fulfill the requirements of this contract. Please provide name, address, phone number, and nature and size of past contracts for each reference.
- 3.7 Warranty. The vendor shall be responsible for the tree for up to eighteen (18) months from the date of installation. Any damaged/dead trees must be replaced within thirty (30) days of notification from the City, or longer period if deemed necessary from the Urban Landscapes Director or designee, during the warranty period, unless the tree damage is clearly from circumstances outside of the control of the vendor such as vandalism or animal damage. Replacement trees need not be warrantied further once the planting is deemed acceptable.
- 3.8 Penalties for non-compliance with contract. Vendors who deviate from the specifications listed herein without the written approval of the Urban Landscape

Director, or deemed non-responsive in their ability to provide a quality product in a timely manner will be considered non-compliant with the contract. Non-compliant vendors will be contacted in writing and given **three (3) days** to correct any issues that do not conform to the specifications of this contract. Should the issue(s) not be corrected to the satisfaction of the Urban Landscape Director, the City may rescind this contract with the vendor and the vendor may not be considered for any future contract with the City for a period of up to three (3) years.

3.9 Contact Person. The contact person for this proposal is Marchetta Maupin, Urban Landscapes Director, at 304-284-7422 or mmaupin@morgantownwv.gov.

3.10 Insurance. The vendor selected under this bid will be required, during the life of the contract with the City, to purchase and maintain the following insurance with a company acceptable to the City and authorized to do business with the State of West Virginia:

- Automobile Liability Insurance: Bodily injury and property damage liability covering all owned, non-owned, and hired automobiles for limits of not less than \$1,000,000 bodily injury each person, each accident and \$1,000,000 property damage, or \$1,000,000 combined single limit each occurrence/aggregate.
- Comprehensive General Liability: Bodily injury and property damage liability as shall protect the Company and any subcontractor performing work under the Agreement from claims of bodily injury or property damage which arise from operation of this agreement whether such operations are performed by the Company, any subcontractor, or any person directly or indirectly employed by either. The amounts of such insurance shall not be less than \$1,000,000 bodily injury each occurrence/aggregate and \$1,000,000 property damage each occurrence/aggregate or \$1,000,000 bodily injury and property damage combined single limits each occurrence/aggregate. This insurance shall include coverage for products/completed operation, personal injury liability and contractual liability assumed under the indemnity provision of the agreement.
- Worker's Compensation and Occupation Disease Insurance: In conformance with State Law, in an amount of \$100,000 each accident and disease for each employee, and \$500,000 disease policy limit providing coverage for employees and owners.

The City shall be exempt from, and in no way liable for, any sums of money that may represent a deductible in any insurance policy. The payment of such deductible shall be the sole responsibility of the vendor and/or subconsultant providing such insurance.

The City shall be named as additional insured under the commercial general liability insurance for operations and services rendered under this Agreement. At the time of execution of the contract, certificates of all required insurance shall be furnished to the City and shall contain the provision that the City will be given thirty (30) day written notice of any intent to amend/terminate by either the insured or the insuring company.

4 SPECIFIC REQUIREMENTS

- 4.1 General Description. The vendor shall plant trees/shrubs as directed by Urban Landscape Director or her representative, and in accordance with this invitation to bid, at the locations specified each season.
- 4.2 Notification. Vendor must contact the Urban Landscape Director at least three (3) days prior to day of planting to provide sufficient time for a representative from the City to schedule an on-site inspection during planting.
- 4.3 Quantities. The number of trees to be planted under this contract is estimated at 326. However, the City of Morgantown does not guarantee that the quantities of trees that will be planted during each planting season. The City shall only be billed for and compensate the vendor for trees actually planted, in accordance with this contract.
- 4.4 Inspection. The vendor shall be responsible for the proper planting of trees/shrubs and that reasonable care was taken during the planting process to assure no mechanical damage occurs. Each tree will be inspected and approved before submitting for payment. Only trees/shrubs that have passed inspection will be processed for payment.
- 4.5 Utility Locating. The vendor shall confirm there are no utilities located in the proposed planting areas by calling WV 811 and other reasonable sources. The vendor shall be responsible for any negligent damage to utilities that are clearly marked. Each planting site will be clearly marked by the Urban Landscape Director. Once the utility locations have been completed, the vendor shall contact the Urban Landscape Director if there exists any underground utilities at the site. If so, the Urban Landscape Director will determine if adjustments to the planting site are necessary.
- 4.6 Allowable planting season/time. All plantings shall be done after November 1 and before April 30 each season. Any plantings occurring outside this timeframe must be approved in writing by the Urban Landscape Director prior to planting. Working hours shall be between 7:30 a.m. and 6:00 p.m., Monday through Saturday. Planting operations shall stop when soil is frozen or when the soil is muddy.
- 4.7 General Tree/Shrub Selection. All trees must be number one grade plants with good form and branching. Tree leaders shall not be pruned. Root flare must be visible at the top of the root ball/soil line. Trees must be fresh. Trees shall not be dug and balled during a previous growing season. The Urban Landscape Director or designee reserves the right to inspect the trees in the nursery, during planting, and after planting occurs.

- 4.8 Planting Stock. The contractor shall supply trees/shrubs from areas in the USDA Cold Hardiness Zones 4 and 5 and will provide this information to the City at least 10 days prior to purchase of any trees/shrubs. Native trees supplied per the contract shall be as listed on the requested Planting Schedule. Canopy trees supplied shall be branched up four and one-half feet (4 1/2') and have one strong main leader. Evergreen trees shall meet the required specific height indicated and must not be sheared.

The ANZI300 Part 6 Planting and Transplanting Standards shall be incorporated herein and shall be made part of this tree/shrub planting specification as fully written. Trees/Shrubs supplied shall meet all standards of ANSI A300 (2018) - Part 6 - Planting and Transplanting. This standard covers plant and site inspection, timing of transplanting, determination of the root ball size (for transplanting), digging trees and shrubs, transplanting, lifting, moving and storage, digging the planting hole, planting woody plants; planting container stock and post-planting care. ANZI A300 (2018) gives guidance on the initial assessment of the existing site including above and below ground hazards, access, soil conditions, obstacles, slope, and utilities.

The Standard can be found and purchased at the Tree Care Industry Association website at: https://www.tcia.org/TCIA/Shop/TCIA%20Item_Detail.aspx?iProductCode=A300P6_2018&Category=

All plant species, size ranges of trees/shrubs, type of tree (B&B or container) shall adhere to the The American Standard for Nursery Stock (ANSI Z60.1) is published by American Horticulture Industry Association d/b/a AmericanHort an ANSI-accredited Standards Developing Organization. See www.AmericanHort.

- 4.9 Planting Preparation. The City will provide a list of requested trees/shrubs and proposed location(s) to the vendor. If the vendor is unable to produce the specific requested tree/shrub, an alternate may be suggested. Any suggested alternate must be a comparable species and must receive approval from the Urban Landscape Director or designee. No change in price is acceptable due to species unavailability. Once the vendor has acquired the necessary materials, the contractor shall work to identify any underground utilities and or impediments prior to beginning site work and planting. The contractor will provide 3 days' notice prior to planting commencement. A diagram of tree/shrub planting is shown in Figure 1.

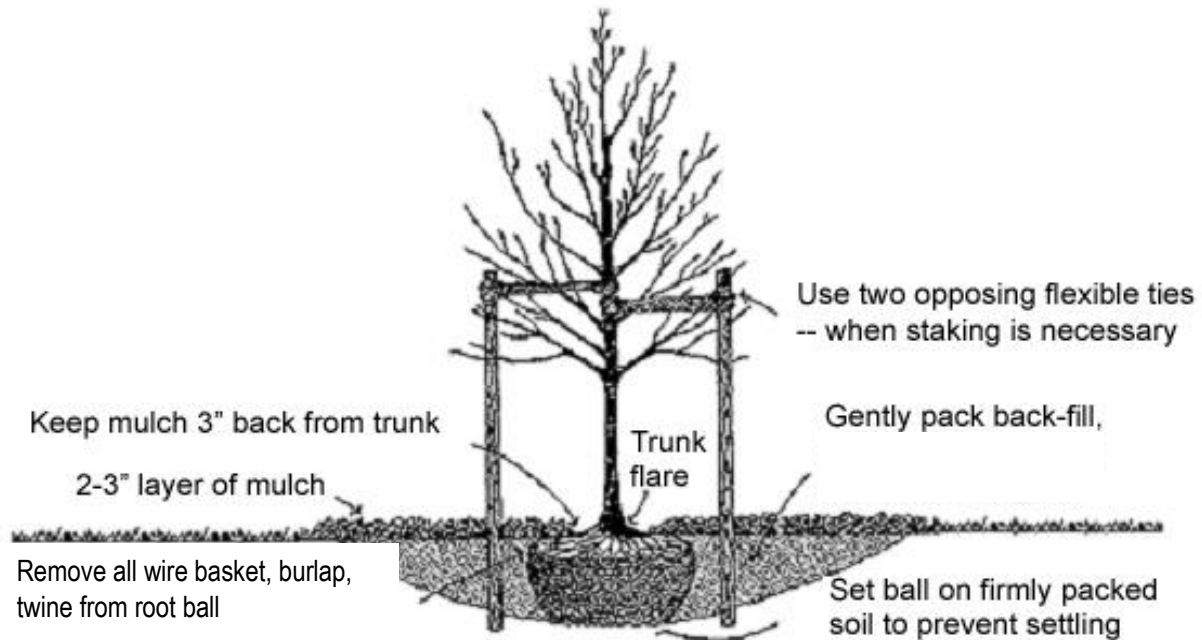


Figure 1 – Acceptable Tree/Shrub Planting Diagram

- 4.10 Planting Balled and Burlapped Trees. If not readily apparent, locate trunk flare by removing twine or burlap. Dig tree hole at least two times wider than the root ball, with sides sloped to an unexcavated or firm base. Dig hole to a depth so the located trunk flare, at the first order lateral root is at finished grade. Lift root balls only from the bottom of the root ball, position tree on firm a firm pad of compacted soil so that it is straight and top of trunk flare is level with the surrounding soil.

Remove all twine from the root ball. If present, remove and discard at least the top one half of the wire basket. Burlap shall be removed from the top to a point halfway down the root ball and discarded. Ideally, all burlap and wire basket should be removed from the root ball. With clean, sharp pruning tools, prune off any secondary/adventitious, girdling, and potential girdling roots. Spread roots apart as much as possible without providing hard to the root ball.

Backfill planting hole with existing unamended soil, and thoroughly water. Mulch the entire planting surface with clean, native shredded bark mulch applied no less than two inches (2") deep and no more than three inches (3") deep, leaving three inches (2") adjacent to the tree trunk free of mulch. Mulch areas designated as shrub groupings (per planting design drawings) with weed free native shredded bark mulch applied no less than two inches (2") deep and no more than three inches (3") deep, leaving three inches (2") adjacent to the tree trunk or 2" adjacent to any shrub stems. Shrub massing shall be mulched in beds as noted on the planting plan.

Water all trees thoroughly immediately after planting with a minimum of 10 gallons per

a tree allowing all water to percolate into the existing soil. Remove any tags from the trees and shrubs.

- 4.11 Planting Containerized Trees. No containerized plant tree or shrub shall have a trunk flare covered by soil. Dig tree hole at least two times wider than the root ball with sloping sides. Dig hole to a depth so the located trunk flare, at the first order lateral root, will be at finished grade. Create a firm soil mound at the bottom of the planting hole. Remove tree from container and completely tease apart the outside root system, repositioning any girdling or potentially girdling roots. Spread roots over soil mound so that trunk flare is at finished grade and the tree is straight. With clean, sharp pruning tools, prune off any secondary/adventitious, girdling, and potential girdling roots.

Backfill planting hole with existing unamended soil and thoroughly water with a minimum of 10 gallons of water allowing the water to percolate into the existing soil. Mulch the entire planting surface with weed free native shredded bark mulch applied no less than two inches (2") deep and no more than three inches (3") deep, leaving three inches (3") adjacent to the tree trunk free of mulch or two (2") free of mulch for shrubs.

- 4.12 Planting Bare Root Trees. DO NOT plant bare-root trees that have already leafed out. Trees will be rejected if already leafed out. Dig tree hole at least two times wider than the root ball with sloping sides. Dig hole to a depth so the located trunk flare, at the first order lateral root, will be at finished grade. Create a firm soil mound at the bottom of the planting hole. Spread roots over soil mound so that trunk flare is at finished grade and the tree is straight.

Backfill planting hole with existing unamended soil and thoroughly water. Mulch the entire planting surface with an approved composted bark mulch applied no less than two inches (2") deep and no more than three inches (3") deep, leaving three inches (3") adjacent to the tree trunk free of mulch and 2" adjacent to shrubs.

- 4.13 Tree Planting and Care: After the soil around the root ball has been tamped into place, all excess soil shall be removed. The excess soil shall be placed in an area designated by the Urban Landscape Director or designee.

Trees shall be immediately watered after planting with a slow, saturating watering equal to a minimum of 10 gallons of water. The entire planting surface shall be mulched with hardwood bark mulch applied no less than two inches (2") deep and no more than three inches (3") deep, leaving two inches (3") adjacent to the tree trunk and (2" adjacent to shrub branch(es) free of mulch.

Damaged or broken branches shall be pruned off per the ANSI A300 (2018) Pruning Standards.

Staking is only to be done if determined by the Urban Landscape Director or designee and may be requested any time during the guarantee period after installation. A proper tree staking detail will be provided in the event that staking is needed at a future date.

Vendor shall repair any damage to surrounding area, including seeding any areas determined by the Urban Landscape Director or designee to need seeding. Seeded areas shall be covered with a minimum of (1") of clean, weed free straw. Native seed mix specifications are included in Exhibit 1.

All tags, tree wrap, etc. shall be removed from the trees and shrubs.

5 PAYMENT FOR SERVICES

5.1 Basis for Payment. Payment for trees/shrubs planted under the direction of the City shall only occur after inspection and approval of all trees by the Urban Landscape Director. Vendor may request an adjustment of payment to accommodate special circumstances only at the discretion of the Urban Landscape Director or her representative.

6 BIDDING INSTRUCTIONS & REQUIREMENTS

6.1 Invitation to Bid Schedule and Bid Submission. Provided below is the anticipated schedule of events. The City reserves the right to adjust the schedule and to add/remove specific events to meet the unique needs of this Project.

Advertisement of Invitation to Bid:	March 8 and March 15, 2023
Due Date and Time for Bids:	March 29, 2023, 4:00 pm
Bid Opening:	March 29, 2023, 4:00 pm
Anticipated Award Date:	April 4, 2023

Bids shall be enclosed in a sealed envelope or package, addressed to the City of Morgantown. The name and address of the firm, due date, and the Bid Title and number, shall be placed on the outside of the package. All items required for a responsive bid shall be included. It is the sole responsibility of the vendor to ensure that the bid package is received no later than the established due date and time at the

proper location. Bids received after the due date and time will not be considered. Bids submitted by facsimile or other electronic means will not be accepted.

Submit/Deliver to:

City of Morgantown, City Manager's Office
430 Spruce Street
Morgantown, WV 26505

6.2 Bid Contents. Each bid shall include all four of the following items. All documents must be legible and properly completed.

- 1) Cover letter expressing interest in the project and confirming the ability to provide the planting services listed in this Invitation to Bid and including all contact information for the vendor.
- 2) References as described in section 3.6.
- 3) Bid Form (Appendix A), fillable form available at <http://morgantownwv.gov/bids.aspx>
- 4) Copy of a WV Business License;

7 REPRESENTATIONS, CONDITIONS, AND OTHER REQUIREMENTS

7.1 Duties and Obligations of Vendors in the Bid Process. Interested vendors are expected to fully inform themselves as to all conditions, requirements and specifications of this Invitation to Bid before submitting a bid. Vendors are expected to promptly notify the City in writing to report any ambiguity, inconsistency or error in this invitation to bid. Failure to notify the City accordingly will constitute a waiver of claim of ambiguity, inconsistency or error.

7.2 Addenda. In order to clarify or modify any part of this Invitation to Bid, addenda may be issued and posted at the City's official website at <http://morgantownwv.gov/bids.aspx>. Any requests for additional information or clarifications should be submitted in writing to the contact listed in Section 3.9.

7.3 No Collusion, Bribery, Lobbying or Conflict of Interest. By responding to this Bid, the vendor shall be deemed to have represented and warranted that its Bid submittal is not made in connection with any competing vendor submitting a separate response to this Bid, and is in all respects fair and without collusion or fraud. Furthermore, the vendor certifies that neither it, any of its affiliates or subconsultants, nor any employees of any of the foregoing has bribed, or attempted to bribe, an officer or employee of the City in connection with this Bid.

- 7.4 Public Records. Upon receipt by the City, each proposal becomes the property of the City and is considered a public record unless it qualifies as protected. Proposals will be reviewed by City staff to ensure adherence with the bid specification and requirements, as well as other members of stakeholder agencies. To properly designate material as a protected under these circumstances, each vendor must take the following precautions: (a) any trade secrets or similar information submitted by the vendor should be submitted in a separate, sealed envelope marked “Confidential and Proprietary Information – Do Not Disclose Except for the Purpose of Evaluating this Proposal,” and (b) the same trade secret/confidentiality designation should be stamped on each page of the trade secret materials contained in the envelope. The City will take all reasonable precautions to avoid disclosure of such marked information but cannot guarantee that information will not be disclosed, nor whether disclosure will be required by law. Each vendor, by submitting a proposal, waives any and all claims against the City, on behalf of itself, its officers, employees, agents, and insurers, arising out of or relating to the release of information contained in the proposal.

In submitting a proposal, each firm agrees that the City may reveal any trade secret materials contained in such response to all City staff and stakeholder members involved in the bid review process. Furthermore, each vendor agrees to indemnify and hold harmless the City and each of its officers, employees and agents from all costs, damages and expenses incurred in connection with refusing to disclose any material that the firm has designated as a trade secret.

- 7.5 Business Registration with City of Morgantown. The selected vendor and subcontractors may be required to be registered in the City’s Business Registration System in order to receive payment for services and/or supplies provided under any City contract.
- 7.6 Financial Capacity; Insurance Requirements. The selected vendor must have the financial capacity to undertake the work and assume associated liability. A performance bond and payment bond, each equal to the full amount of the contract, will be required for successful award. The selected firm shall provide proof of insurance deemed necessary to secure such obligations in the determination of City.
- 7.7 Contract. The contents of this invitation to bid and all provisions of the successful bid deemed responsive by the City of Morgantown may be incorporated, either in whole or in part, into a contract and become legally binding when approved and executed by both parties.
- 7.8 Equal Opportunity. The firm will ensure that employees and applicants for employment are not unfairly discriminated against because of their race, color, religion, sex, gender identity, age, national origin, disability or veteran status.
- 7.9 Familiarity And Compliance with Laws and Ordinances. The firm shall make itself aware of and comply with, and shall cause each of its subcontractors to comply with, all

applicable federal, state, and local laws and regulations, including obtaining all required permits and licenses. This obligation includes compliance with Article 153 of the Morgantown City Code providing that no person shall exclude from, or fail or refuse to extend to, a person equal opportunities because of race, religion, color, national origin, ancestry, sex, age, blindness, disability, sexual orientation, gender identity, familial status or veteran status and includes to separate or segregate.

Tree Planting Services
Exhibit 1 – Native Seed Mix Specifications

Native Seed Mix Specifications: seed Mix, Site Preparation and Sowing:

Shortgrass Woods Edge - Savanna Seed Mix

Prairie Moon® Nursery Prairie: The Savannah Grass Mix shall be planted from mid-October up until the ground freezes. This will allow the existing clay soils to be prepared for planting when they are not wet or saturated with spring rains. It also results in higher forb/sedge germination in the first growing season, less watering and a period of Cold stratification.

Savannah Prairie Seed Mix (2,500 SF) Proper site preparation is required three times to prepare the soil for the savannah seed mix, reduce competition from undesirable species, and allow for better establishment of slow-growing perennials. shallow discing. This site will require 1 full season of shallow discing (1-2" deep) beginning in the spring and ending in the fall. Shallow Discing shall be required every six weeks beginning May 1, and then by June 15, July 30 and September 15th to prepare the site for planting. Shallow discing will expose weed seeds in the seed band and kill them via exposure. It also eliminates freshly germinated weed seedlings. To prepare a site with cultivation, soil disturbance must be repeated and continue until the end of the growing season. Undesirable shrubs, small trees and nonnative plants and weeds should be destroyed by hand cultivation in the interim between discing.

See: <https://www.prairiemoon.com/shortgrass-woods-edge-or-savanna-seed-mix-prairie-moon-nursery.html>

Shortgrass Prairie Seed Mix for Medium-Dry Soils

Prairie Moon® Nursery (1,000 S.F): The Shortgrass Prairie Seed Mix for Medium-Dry Soils shall be planted from mid-October up until the ground freezes. This will allow the existing clay soils to be prepared for planting when they are not saturated with spring rains. It also results in higher forb/sedge germination in the first growing season, less watering and a period of cold stratification. Site preparation as per the Savannah Prairie Seed Mix above. See: <https://www.prairiemoon.com/shortgrass-prairie-seed-mix-for-medium-dry-soils-prairie-moon-nursery.htm>

Floodplain Wildflower Enhancement Seed Mix

Seed Mix Enhancement for Wetter Soils (500 S.F.):

See: <https://www.prairiemoon.com/seed-mix-enhancement-for-wetter-soils-prairie-moon-nursery.html>

The Enhancement Seed Mix for Wetter Soils shall be planted from mid-October up until the ground freezes. This will allow the existing clay soils to be prepared for planting when they are not wet or saturated with spring rains. It also results in higher forb/sedge germination in the first growing season, less watering and a period of cold stratification.

Site preparation for this seed mix shall be located in the field with a representative from MUB/MTB and hand prepared due to the vegetated nature of this area as identified on the planting plan.

Sowing the Seed Mix:

All seed mixes shall be hand sown per Prairie Moon Sowing Recommendations:

<https://www.prairiemoon.com/PDF/Prairie-Moon-Nursery.Hand-Sowing-Seed-Mix-Instructions.2020.pdf>

TREE PLANTING SERVICES

Bid No.: 2023-04

Appendix A – Unit Price and Total Bid Form (11x17 size)

Common Name	Scientific Name	Description	DBH/Width	Height	Type	Grade/Notes	Qty	Unit Price	Sub-Total
								To be completed by Vendor	
Trident Maple	<i>Acer buergerianum</i>	Large Tree	1" - 1 ½"	8-10 ft.	BB	Specimen	10		
Paperback Maple	<i>Acer griseum</i>	Large Tree	1" - 1 ½"	8-10 ft.	BB	Specimen	10		
Red maple and cultivars	<i>Acer rubrum and cultivars</i>	Large Tree	1" - 1 ½"	8-10 ft.	BB	Specimen	15		
Serviceberry	<i>Amelanchier alleghensis</i>	Med. Tree	1" - 1 ½"	6-7 ft.	BB	Multi-stem	20		
Allegheny Serviceberry	<i>Amelanchier laevis</i>	Med. Tree	1" - 1 ½"	6-7 ft.	BB/C25	Multi-Stem	3		
Paw Paw	<i>Asimia triloba</i>	Med. Tree	1" - 1 ½"	6-7 ft.	BB/C25	Specimen	3		
River Birch	<i>Betula nigra "Heritage"</i>	Med. Tree	1" - 1 ½"	6-7 ft.	BB	Multi-stem	10		
Persian Ironwood	<i>Parrotia persica</i>	Med. Tree	1" - 1 ½"	6-7 ft.	BB	Specimen	10		
Corneliancherry Dogwood	<i>Cornus mas</i>	Small Tree	1"	5-6 ft.	BB	Specimen	5		
Redosier dogwood	<i>Cornus sericea</i>	Shrub	Min 4 canes	2 ft.	Cont. 2	Type 2	6		
Dogwood species	<i>Cornus species</i>	Small Tree	1"	5-6 ft.	BB	Specimen	15		
Hackberry	<i>Celtis occidentalis</i>	Med. Tree	1" - 1 ½"	6-7 ft.	Potted or BB	Specimen	10		
Eastern Redbud & cultivars	<i>Cercis canadensis</i>	Small Tree	1"	5-6 ft.	Potted or BB	Specimen	15		
Japanese Cedar	<i>Cryptomeria japonica</i>	Med. Tree	1" - 1 ½"	6-7 ft.	Potted or BB	Specimen	5		
Thornless Honey Locust	<i>Gleditsia triacanthos inermis</i>	Large Tree	1" - 1 ½"	8-10 ft.	BB	Specimen	5		
Kentucky Coffee Tree	<i>Gymnocaldus dioicus</i>	Med. Tree	1" - 1 ½"	6-7 ft.	Potted or BB	Specimen	5		
Carolina Silverbell	<i>Halesia carolina</i>	Med. Tree	1" - 1 ½"	6-7 ft.	BB	Specimen	10		
Itea	<i>Itea virginica</i>	Shrub	Min 4 canes	2 ft.	Cont. 2	Type 2	5		
American Sweetgum	<i>Liquidambar styraciflua</i>	Large Tree	1" - 1 ½"	8-10 ft.	BB	Specimen	10		
Black gum	<i>Nyssa sylvatica</i>	Med. Tree	1" - 1 ½"	6-7 ft.	BB/C25	Specimen	10		
Sourwood	<i>Oxydendrum arboreum</i>	Med. Tree	1" - 1 ½"	6-7 ft.	BB	Specimen	10		
London Plane Tree	<i>Platanus x hispanica & cultivars</i>	Med. Tree	1" - 1 ½"	6-7 ft.	BB	Specimen	10		
Flowering Cherries & cultivars	<i>Prunus species</i>	Med. Tree	1" - 1 ½"	6-7 ft.	BB	Specimen	10		
White Oak	<i>Quercus alba</i>	Large Tree	1" - 1 ½"	8-10 ft.	BB	Specimen	3		
White Swamp Oak	<i>Quercus bicolor</i>	Large Tree	1" - 1 ½"	8-10 ft.	BB	Specimen	20		
Scarlet Oak	<i>Quercus coccinea</i>	Large Tree	1" - 1 ½"	8-10 ft.	BB	Specimen	19		
Shumard Oak	<i>Quercus shumardii</i>	Large Tree	1" - 1 ½"	8-10 ft.	BB	Specimen	15		
Red Oak	<i>Quercus rubra</i>	Large Tree	1" - 1 ½"	8-10 ft.	BB	Specimen	15		
Sassafras	<i>Sassafras albidum</i>	Med. Tree	1" - 1 ½"	6-7 ft.	Potted or BB	Specimen	8		
Japanese Stewartia	<i>Stewartia pseudocamellia</i>	Med. Tree	1" - 1 ½"	6-7 ft.	BB	Specimen	8		
Japanese Snowbell	<i>Styrax japonica</i>	Med. Tree	1" - 1 ½"	6-7 ft.	Potted or BB	Specimen	10		
American Elm	<i>Ulmus americana (Dutch Elm Disease resistant cultivars)</i>	Large Tree	1" - 1 ½"	8-10 ft.	BB	Specimen	11		
Zelkova	<i>Zelkova serrata</i>	Large Tree	1" - 1 ½"	8-10 ft.	BB	Specimen	5		
Savanna Seed Mix (as needed)	<i>Savannah Prairie Seed Mix</i>	Prairie Moon						incidental	incidental
Floodplain Seed Mix (as needed)	<i>Floodplain Wildflower Enhancement Seed Mix</i>	Prairie Moon						incidental	incidental
						Total	326	-	