

Date: May 12, 2021

Requisition No.: 210635

**PURCHASING DEPARTMENT
101 EAST 11TH STREET
CITY HALL
SUITE G13
CHATTANOOGA, TENNESSEE
37402**

Request for Bid (RFB) for the City of Chattanooga, Tennessee

*Proposals will be received at 101 East 11th Street, Suite G13,
Chattanooga, TN 37402 until 2:00 P.M., EST. on May 26, 2021*

**Requisition / Bid No.: R210635 / 306162
Ordering Dept.: Parks Division, Public Works
Buyer & E-mail: Mark McKeel mmckeel@chattanooga.gov**

**Items Being Purchased: Turf Treatment & Athletic Field Maintenance at
Select City Parks**

*****REQUEST FOR BIDS MUST BE RECEIVED***
2:00 P.M., EST on May 26, 2021**

***** Pre-Bid will be held at the Parks Division, 1503 Middle Street,
Chattanooga, TN 37408 at 10:00 A.M. EST on May 19, 2021**

**The City of Chattanooga reserves the right to reject any and/or all proposals,
waive any informality in the proposals received, and to accept any proposal
which in its opinion may be for the best interest of the City.
The City of Chattanooga will be non-discriminatory in the purchase of all goods
and services on the basis of race, color or national origin.
The City's Standard Terms and Conditions may be found on website:
[http://www.chattanooga.gov/newpurchasing/supplier-central/how-we-
do-business](http://www.chattanooga.gov/newpurchasing/supplier-central/how-we-do-business)**

Note: ALL BIDS MUST BE SIGNED
All proposals received are subject to the terms and conditions contained herein and as listed in the above referenced website. The undersigned Offeror acknowledges having received, reviewed, and agrees to be bound to these terms and conditions, unless specific written exceptions are otherwise stated.

PLEASE PROVIDE THE FOLLOWING INFORMATION:

Company Name: _____

Mailing Address: _____

City & Zip Code: _____

Phone/Toll Free No.: _____

Fax No.: _____

E-Mail Address: _____

Contact Person: _____

Company Title: _____

Signature: _____

BID SOLICITATION



City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

BID OPENING DATE AND TIME:

26-MAY-21 at 2:00 PM

BID NUMBER: 306162

SEALED BIDS

Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

BUYER:

PHONE #: (423) 643-7230

DELIVERY REQUIRED:

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 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total
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Requisition / Bid No.: 210635 / 306162
 Ordering Dept.: City Wide Services Division, Public Works
 Buyer: Mark McKeel
 Phone No.: 423-643-7236

Items Being Purchased: Turf Treatment & Athletic Field Maintenance at Select City Parks

Are you a City of Chattanooga Employee
 Yes _____ No _____

ATTACHMENTS:
 1. Specifications (12 pages)
 2. Affirmative Action Plan (2 pages)
 3. Iran Divestment Act Disclosure (1 page)
 4. No Contact / No advocacy Notice (1 page)
 City of Chattanooga (COC) Terms and Conditions posted on Website
<http://www.chattanooga.gov/newpurchasing/supplier-central/how-we-do-business>
 At the right of that page is a link labeled "Standard Terms and Conditions."
 If you can't download call buyer for a copy.

** Pre-Bid will be held at the Parks Division Building at 1503 Middle Street, Chattanooga, TN 37408
 ** at 10:00 AM EST.

This Shall Be A Twelve (12) Month Blanket Contract To Supply Masonry Materials as needed to all Departments within the City of Chattanooga.

The Contract Term May Be Renewed For An Additional Two (2) Twelve (12) Month Terms Under The Same Terms And Conditions By Mutual Agreement. The City Of Chattanooga And The Contractor May Bilaterally Extend The Contract By Providing Written Confirmation Of Agreement By Both Parties At Least 30 Days Prior To The Contract's Current Expiration Date Into Any Successive Term As Provided Herein.

QUANTITIES ARE ESTIMATES ONLY THE CITY OF CHATTANOOGA SHALL GUARANTEE NO MINIMUM OR MAXIMUM AMOUNT PURCHASED DURING THE LIFETIME OF THE CONTRACT.

*** BID MUST BE RECEIVED NO LATER THAN ***
 *** 2:00 PM EST ON MAY 26, 2021 ***

PLEASE SUBMIT BIDS IN DUPLICATE INDICATING BID NUMBER (306162) ON OUTSIDE PACKAGING

PLEASE DO NOT EMAIL BIDS

**** Vendor Shall Hold Prices Firm for First (1st) Year of Contract ****

Price Escalation Clause:
 If as a result of a general change in prices or discounts, the Contractor has changed prices to all of its customers, the price under this contract may be adjusted accordingly. Contractor may be requested to show proof of alleged price changes prior to approval of any price adjustments.

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Item	Class-Item	Quantity	Unit	Unit Price	Total
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Any manufacturer;s names, trade names, brand names, or catalog numbers used in the specifications are for the purpose of describing and establishing general quality levels. Such references ar enot intended to be restrictive. Bids will be considered for any brand which meets or exceeds the quality of the specifications listed for any item.

The City of Chattanooga reserves the right to reject any and/or all bids, waive any informalities in the bids received, and to accept any bid which in its opinion may be for the best interest of the city.

The City of Chattanooga will be non-discriminatory in the purchase of all goods and services on the basis of race, color, or national origin.

**** NOTE ****
 PLEASE PROVIDE US WITH THE FOLLOWING INFORMATION:

Company Name _____

Address _____

Phone/Toll-Free No. _____

Fax No. _____

eMail Address _____

Contact Person's Name _____

Estimated Delivery _____

Minority-Owned Business _____ Small Business _____ Veteran _____

Minority Woman-Owned Business _____ Disabled Veteran _____

Woman-Owned Business _____

**** ALL ITEMS MUST BE QUOTED F.O.B. DESTINATION ****

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS

ALL BIDS MUST BE SIGNED – The undersigned offers the above quoted prices under the conditions contained herein.

The City is Exempt from all Federal and State Tax.
Bids will be received at the above mentioned address.

COMPANY: _____

TERMS OF PAYMENT: _____

SIGNATURE: _____

TELEPHONE NUMBER: _____

NAME AND TITLE: _____

BID SOLICITATION



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Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total
1	Coolidge Park - Six (6) Applications Yearly	6	Each	_____	_____
2	Renaissance Park - Five (5) Applications Yearly	5	Each	_____	_____
3	Ross's Landing Park - Six (6) Applications Yearly	6	Each	_____	_____
4	Chattanooga Green - Six (6) Applications Yearly	6	Each	_____	_____
5	Marina and Medians - Five (5) Applications Yearly	5	Each	_____	_____
6	First Street - Five (5) Applications Yearly	5	Each	_____	_____
7	Hunter Museum & Veterans Bridge – Southwest End - Five (5) Applications Yearly	5	Each	_____	_____
8	City Hall & City Council Building - Five (5) Applications Yearly	5	Each	_____	_____
9	Development Resource Center (DRC) - Five (5) Applications Yearly	5	Each	_____	_____
10	Main Terrain Art Park - Five (5) Applications Yearly	5	Each	_____	_____

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BID OPENING DATE AND TIME:

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Item	Class-Item	Quantity	Unit	Unit Price	Total
11	Miller Park - Six (6) Applications Yearly	6	Each	_____	_____
12	Champions Club Tennis Center - Six (6) Applications Yearly	6	Each	_____	_____
13	Bessie Smith Hall - Six (6) Applications Yearly	6	Each	_____	_____
14	Phillips Park - Six (6) Applications Yearly	6	Each	_____	_____
15	Hixson Youth Athletic Association Football Field - Six (6) Applications Yearly	6	Each	_____	_____
16	Southside Community Park - Six (6) Applications Yearly	6	Each	_____	_____
17	Cleveland T Grimes Soccer Complex - Six (6) Applications Yearly	6	Each	_____	_____
18	Price per 1000 Square Feet for standard aerification (4" depth, solid or core)	10000	Unit	_____	_____
19	Price per 1000 Square Feet for deep tine aerification (6'-10" depth, solid or core)	10000	Unit	_____	_____
20	Price per 1000 Square Feet for seeding (high rated turf-type tall fescue)	4356	Unit	_____	_____

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Item	Class-Item	Quantity	Unit	Unit Price	Total
21	Price per 1000 Square Feet for winter overseeding (perennial ryegrass)	9000	Unit	_____	_____
22	Price per 1000 Square Feet for fraise (Fraise) mowing	9000	Unit	_____	_____
23	Price per Square Foot for infield lip removal	5000	Unit	_____	_____
24	Price per 1000 Square Feet for topdressing with sand provided by Vendor	34000	Unit	_____	_____
25	Price per 1000 Square Feet for topdressing with compost provided by Vendor	10000	Unit	_____	_____
26	Price per Square Foot for bermudagrass sprigging	9000	Unit	_____	_____
27	Price per Square Foot for bermudagrass seeding	43560	Unit	_____	_____
28	Price per Square Yard for bermudagrass sod installed	500	Unit	_____	_____
29	Price per Square Yard for turf type tall fescue sod installed	500	Unit	_____	_____
30	Price per Square Yard for zoysiagrass sod installed	500	Unit	_____	_____

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Item	Class-Item	Quantity	Unit	Unit Price	Total
31	Price per Square Foot to install & laser grade 1" depth of infield mix	9000	Unit	_____	_____
32	Price per Square Foot to install mound & batter box clay to 1" depth	500	Unit	_____	_____
33	Price per Square Foot to install infield topdressing at .5# per square foot	9000	Unit	_____	_____
34	Price per Square Foot for additional service not listed	10000	Unit	_____	_____
35	Price per 1000 Square Feet for fungicide application	18000	Unit	_____	_____
36	Price per 1000 Square Feet for insecticide application	18000	Unit	_____	_____
37	Price per 1000 Square Feet for supplemental fertilizer application	50000	Unit	_____	_____
38	Price per 1000 Square Feet for supplemental herbicide application	50000	Unit	_____	_____
39	Price per 1000 Square Feet for topdressing with sand or compost provided by City	34000	Unit	_____	_____

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SIGNATURE: _____

TELEPHONE NUMBER: _____

NAME AND TITLE: _____

Specifications for Turf Treatment & Athletic Field Maintenance at Selected City Parks

City of Chattanooga Parks Division

I. Purpose

1. The City's objective is to produce a fine quality, healthy turfgrass that will withstand moderately close mowing and heavy use by sports, special events and visitors. The desire is to have turfgrass that is agronomically sound and tolerant of traffic, summer heat, and humidity with minimum damage. Athletic field maintenance is paramount for player safety and field performance. The desire is to increase field maintenance practices to provide a safer and better playing surface for users.

II. General

1. Contractor to furnish all necessary materials, equipment, labor, qualified supervision and insurance to selectively treat the specified areas for weed control and re-spray any regrowth at scheduled intervals. Contractor to furnish all necessary materials, equipment, labor, qualified supervision and insurance to fertilize the specified areas. Treatment and fertilization shall be completed on the same days. Thorough treatment and fertilization of all areas under this contract shall be completed at least five (5) times annually with periods suggested in the specifications. Select sites will need 1-2 additional fertilizer applications per growing season and should be priced accordingly. Exact treatment and fertilization dates will be recommended by the Contractor and approved by the City within the anticipated periods.
2. Contractor is responsible for any additional treatment necessary to maintain healthy, weed-free turf and grass areas during the contract period. Contractor shall provide additional treatments at no charge to the City.
3. Contractor shall submit a list of all chemical herbicides and fertilizers proposed for usage under this contract with the bid documents and for approval by the City. Sample labels and safety data sheets for each product on the list shall be attached to the submittal. In the event product change from the bid documents, no product shall be applied until its use is approved in writing by the City.
4. Records of all chemical application operations, training, authorizations, starting dates and times, methods of applications, chemical formulations, applicator's name and weather conditions at the time of application shall be made and retained in an active file for a minimum of one year.
5. All precautionary measures necessary to ensure public and worker safety shall be employed by the Contractor. Treatment shall be completed during the hours when the parks are closed, 11 PM

to 7 AM. For larger parks adjacent to each other, treatment of all areas shall be completed in consecutive days.

- i. Special events may require additional coordination of applications with Parks staff.
6. Herbicides used should be non-corrosive, non-flammable, and extremely low in toxicity and will be evaluated, registered and regulated by the EPA.
7. All chemicals shall be applied in accordance with the labeled directions. When climatic factors may cause problems of general containment of weed control or fertilizer materials, adjustment of the schedule may be necessary. Application of herbicides or fertilizers prior to forecast heavy rain events shall be avoided. All spraying shall be done only at times when there is little to no wind. Spraying shall be done with extreme care and every effort will be made to avoid overspray into areas bordering treatment areas.
8. All applications shall be made in accordance with federal, state and county requirements and to avoid all hazards to any person or any property damage.
9. Contractor's applicator(s) shall hold a valid Commercial Pesticide Applicator Certification that is needed to legally perform these duties. The Contractor must supply the City with a photocopy of the license(s).
10. Contractor will schedule a specific time for the treatment in advance with the Director of Park Maintenance in order to avoid programming issues within parks.
11. Contractor will annually run complete soil test analysis of each site to determine needs for nutrient program
12. The Director of Park Maintenance or his/her designee may, on occasion, adjust or change the fertilization specifications as a result of consultation with Contractor or recommendations of a horticultural soils and plant laboratory report for each site. The Contractor shall supply and transport all required fertilizers as a part of his/her contract costs.
13. Select sites will include additional bid pricing for annual aerification and seeding

III. Weed Control

1. Contractor shall be responsible for providing a continuous weed control program for all turf areas under this contract. Weed control shall include removal of "any undesirable or misplaced plant." Weed control in the parks shall be continuous and consist of selective weed control. Weeds shall be completely killed, including rhizomes, roots, stolons and bulbs.
2. Herbicide treatments must not harm desirable turf.
3. All chemicals shall be applied in accordance with the labeled directions and the requirements of the Tennessee Department of Agriculture. In no case will restricted use materials be permitted.

IV. Fertilization

1. Contractor shall be responsible for providing a continuous turf fertilization program. Turf shall be fertilized in a manner to promote healthy turf growth in accordance with the usage and wear that the areas receive. Contractor will fertilize turf areas as per the maintenance specifications attached.
2. Complete fertilizers shall be granular in composition and contain 30% to 50% or more of the nitrogen in a slow- or controlled-release form. The ratio of nitrogen to potash will approximate 1:1 or 2:1 for complete fertilizer formulations (Examples: 15-5-15, 16-4-8, 15-0-15, 12-2-14, 14-3-14). The exact composition of the fertilizer shall be determined on the basis of good industry practice combined with soil testing (see item 2.3.). While nitrogen fertilization is based on the desired growth rate and type of turfgrass being grown, the phosphorus fertilization rate should be based on the analysis of a lawn soil sample and the recommendations obtained from it. The fertilizer shall also contain magnesium and micro-nutrients (i.e., manganese, iron, zinc, copper, etc.). Iron shall be in the sulfate, succinate or chelated form.
3. Note on Method of Application: If making application of fertilizer granules, caution shall be taken to contain these materials in the planting areas. Use of cyclone spreaders that tend to throw material into paved areas, plant beds and other unintended areas shall be avoided. Use gravity flow spreaders whenever possible to keep material contained in turf areas. Fertilizer will be swept off of all playgrounds, any hard surfaces, walks and drives onto lawns or beds.
4. Contractor will apply fertilizers at the appropriate season and when rain is anticipated within 24 hours. If irrigation is available, the Contractor shall coordinate with Parks staff.
5. All chemicals shall be applied in accordance with the labeled directions and the requirements of the Tennessee Department of Agriculture. In no case will restricted use materials be permitted.

V. Turf Aerification

1. Turfgrass should be actively growing and not under stress during aerification. At least one core aerification shall be performed in a growing season.
2. Aeration cores shall be incorporated back into soil following aerification.
3. Depth & Spacing
 - i. Standard, 4" depth
 - ii. Deep tine, 6" – 10" depth

VI. Overseeding

1. Cool Season Turf
 - i. Overseed thin, bare areas as grass begins to respond to cooler temperatures in September and early October.
 - ii. Use a blend of turf type tall fescue cultivars highly rated by NTEP at 6 pounds per 1000 square feet.
 - iii. Overseeding should be done post Fall aerification or mechanical seeder shall be utilized to get good seed to soil contact
2. Overseeding Warm Season Turf
 - i. Winter overseeding can be done by broadcast seeding in late fall, October-November. Can be done in season and allow players cleats to push seed into soil to make good see to soil contact.
 - ii. Use of blend of Perennial Ryegrass at 5#-10#/1000 sq ft
 - iii. Chemical removal of overseeding in spring is recommended for warm season grass recovery.

VII. Topdressing

1. Sand
 - i. Ideally applied at .25" - .375" depth across field; .8 - 1.2 cu yd/1000 sq ft
 - ii. Medium topdressing sand to be used, vendor to provide testing reports to verify
2. Compost
 - i. Ideally applied at no more than .25" depth across field; .8 cu yd/1000 sq ft
 - ii. The texture should be Friable (crumbly) that is ideally screened through a 0.25" – .375" screen.
 - iii. Moisture content should be 35-50% moisture.
 - iv. C:N ratio ~30:1
 - v. Organic Matter 35-50%
 - vi. pH 6-8

VIII. Fraise Mowing

1. .25" - .5" depth
2. Vendor shall include pricing for haul off material

IX. Sprigging & Seeding Bermudagrass

1. Sprigging Rate – 10-25 bushels per 1000 sq ft
 - i. Preferred varieties: TifTuf, Tahoma 31, Latitude 36, Northbridge, Ironcutter
2. Seeding Rate – 1# - 2# per 1000 sq ft
 - i. Preferred varieties: Rio, Monaco, Riviera

X. Sod

1. Turf type tall fescue
 - i. Blend of turf type tall fescue cultivars highly rated by NTEP, at least 90% TTTF
2. Bermudagrass
 - i. Tiftuf, Tahoma 31, Latitude 36, Northbridge, Ironcutter varieties
 - ii. Tifway 419
3. Zoysiagrass
 - i. Zeon, Empire, Meyer, or other approved variety

XI. Ball Diamond Infields Repairs & Renovation

1. Provide & install infield mix
 - i. Place material, till into existing, roll, laser grade, roll
 - ii. Material shall be finished graded with a laser device that allows accuracy to +/- 1/8 inch. A slope of ½ % to 1% shall be placed on the infield surface in order to facilitate surface drainage.
 - iii. Infield Mix shall be clean, dry clay mixed with washed mason-type sand, resulting in a weed-free mixture that is reddish-brown in color, having a yield of 1.35 tons per cubic yard when placed loose or 1.5 tons per cubic yard when compacted 85% - 90% on a Standard Proctor Test (ASTM D 689-07). The material possesses the following particle size analysis:
 1. Total sand content shall be 70-75%

2. The combined amount of sand retained on the medium, course, and very coarse sieves shall be greater than or equal to 50%
 3. The combined amount of silt and clay shall be 25-30%
 4. The ratio of silt divided by clay, otherwise known as the SCR, shall be 0.5 – 1.0
 5. No particles greater than 3mm
 6. Equal to or less than 5% of particles shall be retained on the 2 mm
2. Provide & install infield topdressing
 - i. Calcined or Vitriified clay (expanded shale) at .5# - 1# per 1 square foot spread evenly across the surface. Finished product will be “game ready”.
 3. Provide & install mound/batters box clay
 4. Provide & install base anchors at correct distances
 5. Edge Infield skin area at correct distances

XII. Equipment

1. Proper, professional quality equipment shall be used for each specified turfgrass treatment and/or cultural practice.
2. Vendors shall submit equipment list and specs with bids. The City has the right to inspect vendor equipment prior to use.

XIII. Reporting

1. Periodic reports, on a form developed by the Contractor and approved by the City’s designated representative, of applications shall be provided to the Director of Parks or his/her designee after each treatment.

XIV. Payment

1. Payment shall be in accordance with the City's normal policies and procedures.
2. The Contractor shall submit an invoice for completed work after an inspection of work has been performed and any deficiencies corrected to Accounts Payable, 101 E 11th St. Suite 101, Chattanooga, TN 37402 or via email to acctspayable@chattanooga.gov and ParksAP@chattanooga.gov.

XV. Inspection Procedure

1. The Park Maintenance Division phone number or email shown here are the only acceptable contacts to request an inspection.
2. Contractors must notify the Parks Division via Google Form as soon as work is completed at the designated site. This form will populate a spreadsheet for Parks staff to review. A link and further instructions for the Google Form will be provided upon award of contract.
3. All work must meet the specifications of this agreement. The Park Division representative will be the final authority on acceptance, as well as any damage to City property.
4. Inspectors will not inspect locations if the Contractor has not filled out the Google Form on the service date. Inspectors will document that Contractor did not use the Google Form in on the service date and in turn will not visit and verify the service location. If the inspector is unable to identify each location, the contract amount will not be paid.
5. Invoices should not be mailed to the City for payment until all locations on the invoice have been treated.
6. The below phone number or email address shall be used for all correspondences. If contractors have questions regarding the contract, they should make contact through the avenues.
7. Contact information: James Bergdoll, Director of Park Maintenance, (423) 643-6122 or jbergdoll@chattanooga.gov.

XVI. Sites for Turf Treatment & cultural practices

1. Coolidge Park – Bermudagrass,
2. Renaissance Park – mostly Bermudagrass
3. Ross’s Landing Park – Bermudagrass,
4. City Marina and Riverfront Pkwy medians - mixed, mostly bermudagrass
5. Chattanooga Green – bermudagrass
6. Tennessee Riverwalk Greenway (Downtown)
 - i. First Street – mixed grasses
 - ii. Hunter – mostly bermudagrass
 - iii. Veterans Bridge – Southwest end – Mostly bermudagrass
7. City Hall & City Council Building – cool season, fescues
8. Development Resource Center (DRC) – mixed turf species
9. Main Terrain Art Park – cool season,
10. Miller Park – bermudagrass
11. Champions Club Tennis Center - Zoysiagrass
12. Bessie Smith Hall - Zoysiagrass
13. Phillips Park - bermudagrass
14. Hixson Youth Athletic Association Football Field – Bermudagrass
15. Cleveland T Grimes Soccer Complex – Bermudagrass

XVII. Site list for additional Athletic field sites, as needed

1. Lookout Valley Warren Park Ballfields
2. Hixson Park Ballfields
3. Rivermont Park Ballfields
4. Lakeside Park Ballfields
5. Tyner Park Ballfields
6. Multiple other City athletic fields as needed

XVIII. Qualifications for Prospective Bidders

The following requirements shall be considered the minimum for a CONTRACTOR to be qualified to provide services under this contract, and shall be a prerequisite to any award:

1. Turfgrass Treatments & Athletic Field Maintenance minimum qualifications

- i. A period of five years' experience in the performance of turfgrass chemical treatment, cultural practices and/or athletic field maintenance
- ii. At least 5 references for similar work performed
- iii. Valid Commercial Pesticide Applicator Certification that is needed to legally perform these duties.
- iv. Must have in possession and experienced with proper professional equipment for correct application; provide equipment list
- v. STMA and/or ASBA membership preferred for athletic field maintenance, provide documentation
- vi. Provide documentation on related certifications & licenses

2. Baseball & Softball field specific minimum qualifications

- i. A period of five years' experience in the performance of baseball field installation or renovation.
- ii. At least 5 references for similar work performed
- iii. Must have in possession and experienced with laser guided finishing equipment
- iv. Provide equipment list
- v. STMA and/or ASBA membership preferred, provide documentation
- vi. Provide documentation on related certifications & licenses

XIX. Additional

1. The Contract Bid shall be priced for annual treatment per location and will be awarded based on annual cost per site.
2. Available funds will determine which sites are selected for treatment. City staff will notify winning bidders of any sites that cannot be treated because of lack of funding.
3. Approximate areas of turf treatment are included in the bid sheet. These figures are only estimates. Contractor is responsible for inspecting all sites to determine appropriate treatment and ensure bid price is accurate.
4. More than one vendor may be accepted in order for the City to perform all listed scope of work.

Recommended Turf Maintenance Calendars

Typical Schedule of Turf Treatment and Fertilization		
<i>#</i>	<i>Period</i>	<i>Treatment and Fertilization Types</i>
1	Jan 15 - Feb 15	winter fertilization, broadleaf and grassy weed control, pre emergent weed control
2	Mar 15 - Apr 15	fertilization, broadleaf weed control, pre emergent weed control
3	May 1 - Jun 1	fertilization, zone treat broadleaf and grassy weeds, rye grass removal at this time
4	Jun1 - July 1	additional fertilization, high use bermudagrass, 4-8 weeks
5	July 1 - Aug1	additional fertilization, high use bermudagrass, 4-8 weeks
6	Aug 15 - Sep 15	pre emergent weed control, fertilization, zone treat for weeds
7	Oct 15 - Nov 15	grassy weed control, broadleaf weed control

Bermudagrass Maintenance Calendar

This calendar of suggested management practices is designed to be a general guide in the care of your bermudagrass lawn. Many factors such as location, soil type, and microenvironment will affect the performance of your lawn. For these reasons, the following management practices and dates may need to be adjusted to suit your particular home lawn conditions.

March Through May

Fertilizing: The first application of fertilizer to bermudagrass should be made in spring when the grass is 50% green OR when soil temperatures are above 65 degrees. Apply 1 pound of nitrogen (N) per 1,000 square feet several weeks after complete green-up. Submit a soil sample to determine nutrient and lime requirements. In the absence of a soil test, use a slow-release, complete nitrogen-phosphorus-potassium (N-P-K) turf fertilizer with a 4-1-2 ratio such as 16-4-8. Apply other nutrients if suggested.

Weed Control: Apply preemergence herbicides to control summer annual weeds when forsythia or redbuds are in full bloom. Apply postemergence herbicides in May as needed to control summer annual and perennial broadleaf weeds. Be sure that the product is labeled for use on bermudagrass. Postemergence herbicides are applied when weeds are present, and at least three weeks after the lawn has greened up.

Thatch Removal: Vertically mow in May to remove the thatch after the lawn becomes green, but only if the thatch is more than ½-inch thick. After dethatching, irrigate with ¾ to 1 inch of water. Fertilize with 1 pound of N per 1,000 square feet if the lawn has not already been fertilized.

Renovation: Replant large bare areas using sod or sprigs (3 to 5 bushels per 1,000 square feet). Common bermudagrass can be seeded using hulled bermudagrass at 1 to 2 pounds per 1,000 square feet. Do not seed hybrid bermudagrass lawns with common bermudagrass. Use sod or sprigs of the existing hybrid instead.

June Through August

Fertilizing: Apply ½ to 1 pound of N per 1,000 square feet for a total of 1 to 4 applications during the growing season. Space fertilizer applications 4 to 8 weeks apart using a combination of quick and slow release nitrogen (N). Apply other nutrients based on soil test results. Do not apply fertilizer during drought stressed grass.

Insect Control: August is the best time to control white grubs because they are small and close to the soil surface. Mole crickets will begin to hatch in June. Use a soap flush technique to determine if mole crickets are present. Insect Control shall be on an as needed basis, curative applications only

Weed Control: Apply postemergence herbicides as needed to control summer annual and perennial weeds.

Thatch Removal: Vertically mow to remove the thatch if it is more than ½ inch thick. It normally is best to vertically mow in spring whenever possible.

Aerification: Loosens compacted soil and increases the availability of water and nutrients. Enhances oxygen levels in the soil, stimulating root growth and enhancing the activity of thatch-decomposing organisms. Regular decompaction also reduces water runoff, increases the lawn's drought tolerance, and improves its overall health. Bermudagrass should be actively growing and not under stress during aerification. 2-3 aerifications shall be performed in a growing season. Aeration cores shall be incorporated back into soil following aerification.

September through November

Fertilization: In September, if a soil test reports deficient potassium (K) levels, apply 1 pound of potash (K₂O) per 1000 square feet, using muriate of potash (0-0-60), potassium sulfate (0-0-50), or Sul-Po-Mag (0-0-22).

Weed Control: Apply preemergence or postemergence herbicides as needed to control winter annual and perennial broadleaf weeds. Preemergence herbicides are most effective when applied as nighttime temperatures drop into the upper 50s. Preemergence herbicides do not control existing perennial weeds. Apply postemergence herbicides only when weeds are present. Do not apply herbicides designed to control annual bluegrass if the lawn is to be overseeded with ryegrass.

Insect Control: Continue to monitor for white grubs and control if necessary.

December through February

Fertilization: Do not fertilize bermudagrass that has not been overseeded.

Weed Control: Apply broadleaf herbicides as needed to control winter weeds such as chickweed, henbit, and hop clover. Selective herbicides can be applied in November or December to lawns that have not been overseeded to control annual bluegrass (*Poa annua*) and several winter annual broadleaf weeds. Non-Selective herbicides can be used to clean out winter weeds on dormant bermudagrass, this should be done in late February.

Tall Fescue Maintenance Calendar

This calendar of suggested maintenance practices is designed to be a general guide in the care of your fescue lawn. Location, soil type, health of lawn, and other factors affect turf performance. For these reasons, the following management practices and dates should be adjusted to suit your particular home lawn conditions.

March through May

Fertilizing: Do not fertilize tall fescue after April 15.

Weed Control: Apply preemergence herbicides to control crabgrass, goosegrass, dallisgrass, foxtail and other annual weeds. Apply when forsythia or dogwoods are in bloom.

June Through August

Fertilizing: Do not fertilize fescue at this time. Submit a soil sample to your local extension office to determine nutrient requirements.

Weed Control: Avoid the use of herbicides at this time. Fescue stressed by drought and high temperatures is more susceptible to herbicide damage.

Insect Control: Check for grubs in August and control if necessary.

September Through November

Fertilizing: Apply 1 pound of actual nitrogen per 1000 square feet in September and, optionally again in November.

Weed Control: Apply broadleaf herbicides to control dandelions, wild onions, cudweed, and other weeds if necessary. Check product labels carefully because some herbicides may affect newly seeded turf.

Insect control: Check for white grubs through October and control if necessary.

Aerification: Core aerify lawns subject to heavy traffic or on clay soils to minimize compaction and improve rooting. Break up plugs.

Renovation: Overseed thin, bare areas as grass begins to respond to cooler temperatures in September and early October. Use a blend of tall fescue cultivars at 6 pounds per 1000 square feet. Apply a starter fertilizer with high phosphorus at time of seeding. Keep seedbed moist with light, frequent sprinklings several times a day to ensure good germination.

Thatch Removal: It is not necessary to remove thatch with most tall fescue lawns.

December Through February

Fertilizing: Fertilize with 1 pound of actual nitrogen per 1000 square feet in February. In the absence of soil test results, use a complete turf-grade fertilizer with a 4-1-2 ratio.

Weed Control: Apply broadleaf herbicides as necessary for control of chickweed, henbit or other weeds.

Typical Schedule of Turf Treatment and Fertilization

<i>#</i>	<i>Period</i>	<i>Treatment and Fertilization Types</i>
1	Jan 15 - Feb 15	winter fertilization, broadleaf and grassy weed control, premergent weed control
2	Mar 15 - Apr 15	fertilization, broadleaf weed control, premergent weed control
3	May 1 - Jun 1	fertilization, zone treat broadleaf and grassy weeds, rye grass removal at this time
4	Jun1 - july 1	additional fertilization, high use bermudagrass, 4-8 weeks
5	July 1 - Aug1	additional fertilization, high use bermudagrass, 4-8 weeks
6	Aug 15 - Sep 15	premergent weed control,fertilization, zone treat for weeds
7	Oct 15 - Nov 15	grassy weed control, broadleaf weed control

Location	Description	Address	Approx Area (sq. ft.)	Target Applications/yr	Bid price per App	Estimated cost per app	total cost for all apps	Aerification Price/app	Seeding Price/app	Topdressing price per/app
1	Coolidge Park	150 River St	257,693	6		\$1,500.00	\$9,000.00	\$2,577.00	N/A	N/A
2	Renaissance Park	100 Manufacturers Rd	118,652	5		\$500.00	\$2,500.00	\$1,186.50	N/A	N/A
3	Ross's Landing Park	150 Riverfront Pkwy	216,416	6		\$1,000.00	\$6,000.00	\$2,164.20	N/A	N/A
4	Chattanooga Green	100 Chestnut	45,000	6		\$250.00	\$1,500.00	\$450.00	N/A	N/A
5	Marina and Medians	201 Riverfront Pkwy	30,629	5		\$175.00	\$875.00	N/A	N/A	N/A
7	First Street	145 Cherry St	6,130	5		\$90.00	\$450.00	\$100.00	\$100.00	N/A
8	Hunter Museum & Veterans Bridge – Southwest end	10 Bluffview	31,862	5		\$175.00	\$875.00	N/A	N/A	N/A
9	City Hall & City Council Building	100 E 11th Street	2506	5		\$120.00	\$600.00	\$120.00	\$120.00	N/A
10	Development Resource Center (DRC)	1250 Market Street	2,000	5		\$75.00	\$375.00	N/A	N/A	N/A
11	Main Terrain Art Park	450 West 13th Street	56,746	5		\$400.00	\$2,000.00	\$567.50	\$624.25	N/A
12	Miller Park	928 Market Street	25,000	6		\$200.00	\$1,200.00	\$375.00	N/A	\$750.00
13	Champions Club Tennis Center	1096 Lupton Drive	75,184	6		\$500.00	\$3,000.00	\$752.00	N/A	N/A
14	Bessie Smith Hall	200 E MLK Blvd	34,000	6		\$200.00	\$1,200.00	\$340.00	N/A	N/A
15	Phillips Park	700 Georiga Avenue	20,000	6		\$150.00	\$900.00	N/A	N/A	N/A
18	Hixson Youth Athletic Association Football Field	5410 School Drive	78,000	6		\$400.00	\$2,400.00	\$780.00	N/A	\$2,340.00
19	Southside Community Park	3501 Central Avenue	200,000	6		\$600.00	\$3,600.00	N/A	N/A	N/A
20	Cleveland T Grimes Soccer Complex	4501 N Access Rd	360,000	6		\$2,500.00	\$15,000.00	\$3,600.00	N/A	\$10,800.00

Additional Services Requested

	Bid Price Per Unit	Estimated Bid Price per unit	Estimated Quantity	Estimated total
Price per 1000 Square Feet for standard aerification (4" depth, solid or core)		\$0.10	10000	\$1,000.00
Price per 1000 Square Feet for deep tine aerification (6'-10" depth, solid or core)		\$0.15	10000	\$1,500.00
Price per 1000 Square Feet for seeding (High rated Turf-Type Tall Fescue)		\$0.11	4350	\$478.50
Price per 1000 Square Feet for winter overseeding (Perennial Ryegrass)		\$0.15	9000	\$1,350.00
Price per 1000 Square Feet for Fraise (Fraise) Mowing		\$1.30	9000	\$11,700.00
Price per Square Foot for Infield lip removal		\$0.13	5000	\$650.00
Price per 1000 Square Feet for topdressing with sand or compost provided by City		\$0.25	20000	\$5,000.00
Price per 1000 Square Feet for topdressing with sand provided by Vendor		\$0.30	20000	\$6,000.00
Price per 1000 Square Feet for topdressing with compost provided by Vendor		\$0.30	10000	\$3,000.00
Price per Square Foot for bermudagrass sprigging		\$0.05	90000	\$4,500.00
Price per Square Foot for bermudagrass seeding		\$0.02	43560	\$871.20
Price per Square Yard for bermudagrass sod installed		\$9.00	500	\$4,500.00
Price per Square Yard for turf type tall fescue sod installed		\$9.00	500	\$4,500.00
Price per Square Yard for zoysiagrass sod installed		\$9.50	500	\$4,750.00
Price per Square Foot to install & laser grade 1" depth of infield mix		\$0.20	9000	\$1,800.00
Price per Square Foot to install mound & batter box clay to 1" depth		\$0.20	500	\$100.00
Price per Square Foot to install infield topdressing at .5# per square foot		\$0.20	9000	\$1,800.00
Price per 1000 square foot for fungicide application		\$0.06	18000	\$1,080.00
Price per 1000 square foot for Insecticide application		\$0.06	18000	\$1,080.00
Price per 1000 square foot for supplemental fertilizer application		\$0.03	50000	\$1,500.00
Price per 1000 square foot for supplemental herbicide application		\$0.03	50000	\$1,500.00
Price per Square Foot for additional service not listed				\$2,000.00

Affirmative Action Plan

The City of Chattanooga is an equal opportunity employer and during the performance of this Contract, the Contractor agrees to abide by the equal opportunity goals of the City of Chattanooga as follows:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, or handicap. The Contractor will take affirmative action to ensure that applicants are employed, and the employees are treated during employment without regard to their race, color, religion, sex, national origin, or handicap. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay, or other forms of compensation, and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or handicap.
3. The Contractor will send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice advising the said labor union or workers' representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. In all construction contracts or subcontracts in excess of \$10,000 to be performed for the City of Chattanooga, any contractor and/or subcontractor is further required to file in duplicate within ten (10) days of being notified that it is the lowest responsible bidder, an affirmative action plan with the EEO Director of the City of Chattanooga. This plan shall state the Contractor's goals for minority and women utilization as a percentage of the work force on this project.
5. This Plan or any attachments thereto shall further provide a list of all employees annotated by job function, race, and sex who are expected to be utilized on this project. This plan or attachment thereto shall further describe the methods by which the Contractor or Subcontractor will utilize to make good faith efforts at providing employment opportunities for minorities and women.

During the term of this contract, the Contractor upon request of the City, will make available for inspection by the City of Chattanooga copies of payroll records, personnel documents and similar records or documents that may be used to verify the Contractor's compliance with these Equal Opportunity provisions.

6. The Contractor will include the portion of the sentence immediately preceding paragraph 1 and the provisions of paragraphs 1 through 6 in every subcontract so that such provisions will be requested of each subcontractor. The Contractor agrees to notify the City of Chattanooga of any subcontractor who refuses or fails to comply with these equal opportunity provisions. Any failure or refusal to comply with these provisions the Contractor and/or Subcontractor shall be a breach of this contract.

(Signature of Contractor)

(Title and Name of Construction Company)

(Date)

Chapter No. 817 (HB0261/SB0377). "Iran Divestment Act" enacted.
Vendor Disclosure and Acknowledgement

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to § 12-12-106.

(SIGNED) _____

(PRINTED NAME) _____

(BUSINESS NAME) _____

(DATE) _____

For further information, please see website:

www.tn.gov, type in search term "List of persons pursuant to Tenn.Code Ann. 12-12-106," to see a link to the "Public Information Library."

<https://www.tn.gov/generalservices/article/Public-Information-library>; There, click on List of persons pursuant to Tenn.Code Ann. 12-12-106. The link for the list which is periodically updated is:

[https://www.tn.gov/assets/entities/generalservices/cpo/attachments/List of persons pursuant to Tenn. Code Ann. 12-12-106 Iran Divestment Act updated 7.7.17.pdf](https://www.tn.gov/assets/entities/generalservices/cpo/attachments/List_of_persons_pursuant_to_Tenn._Code_Ann._12-12-106_Iran_Divestment_Act_updated_7.7.17.pdf)

No Contact/No Advocacy

Notice Receipt

City of Chattanooga
Purchasing Division

For Submission with Sealed Bid Solicitation Responses:

_____ (Vendor Agent name), states that:

(1) He/She is the owner, partner, officer, representative, or agent of _____

_____ (Business name), the Submitter of the

attached sealed solicitation response to Solicitation # _____, and said

Business has taken notice, and will abide by the following No Contact and No Advocacy clauses:

NO CONTACT POLICY: After the posting of this solicitation, a potential submitter is prohibited from directly or indirectly contacting any City of Chattanooga representative concerning the subject matter of this solicitation, unless such contact is made with the Purchasing Division.

NO ADVOCATING POLICY: To ensure the integrity of the review and evaluation process, companies and/or individuals submitting sealed solicitation responses, as well as those persons and/or companies formally/informally representing such submitters, may not directly or indirectly lobby or advocate to any City of Chattanooga representative.

Any business entity and/or individual that does not comply with the No Contact and No Advocating policies may be subject to the rejection or disqualification of its solicitation response from consideration.

Submitter Signature:

Printed Name:

Title: _____

Date: _____