Accredited Tree Care by Certified Arborists

Malik Drayton
City of Somerville
93 Highland Ave
Somerville, MA 02145

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February 15, 2023
Proposal #: 66036

Job Site: 20
Malik Drayton
IFB 23-26 Parks Tree Health Program
Grimmons Park
Somerville, MA 02145

Phone:
Email:
Alt Phone:

Tree and Shrub Care Recommendations on 2/7/2023

Description of Services

- ***Work Plan for Grimmons Park:***
  Pruning February 24 2023
  Soil Work April 19th 2023

- ***Park will need to be closed to public on the days of work from 7AM-4PM.***

- **Pruning on various shade and ornamental trees throughout the park. Individual tree specs listed on the attached spreadsheet.**
  Structural Pruning - Selective pruning to improve branch architecture; select, develop and maintain strong, properly spaced scaffold branches by reducing or removing interfering, overextended, defective and poorly attached limbs as specified
  Canopy Cleaning - Selective pruning to remove declining, dead and broken branches as specified
  Canopy Raising - Selective pruning to provide and envelope of clearance of walkways, roadways, utilities, structures, as specified.

- **Select Young/Maturing trees as specified:**
  Root Pruning: Prune visible girdling roots smaller than 2" in diameter.

This proposal is valid for 45 days, assuming there are no changes to the site (driveway, plantings, buildings etc. remain unchanged).
All work performed in accordance with ANSI A300 Standards.

Payment due upon completion of work. 1 ½% per month, 18% per year on unpaid balances.

Massachusetts Arborists Association

- **Select Young/Maturing trees as specified in sheet:** [redacted]
  Root Crown Excavation - Utilize air excavation tools to decompact root zone, remove soil, organic matter and mulch to expose root flare; inspect and evaluate area for girdling roots, decay, etc.

[redacted]

- **Select Young/Maturing trees in park** [redacted]
  Compost addition - mix compost into top layer of air excavated soil.

[redacted]

- **Select Young/Maturing trees as specified in sheet:** [redacted]

  Mulch: Add mulch rings

[redacted]

- **Select Young/Maturing trees as specified in sheet:** [redacted]
  Bio-stimulant Application - Early season. Treat soils within the critical root zone (typically within the dripline) with an organic liquid blend of humic acids, kelp extract and natural compounds to enhance soil structure, microbial activity and nutrient availability.

[redacted]

- **Posting No Parking Permits.** [redacted]

[redacted]

- **Debris Disposal:** Costs include removal and disposal of brush, logs and chipped debris generated from tree care operations.

[redacted]

Thank you for considering Barrett Tree Service East, Inc. Sincerely,

Alden Johnson
Certified Arborist

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Massachusetts Arborists Association

Site ID	Species	DBH	Park Name	TRAQ-Risk Rat	Recommendations	Pruning Units	Pruning Cost
41968	maple: red (Acer rubrum)	7	GRIMMONS PARK	Low	Prune to improve structure and promote single central stem. Raise 8' off ground. Airspade root collar, root prune	[redacted]	[redacted]
41970	maple: red (Acer rubrum)	6	GRIMMONS PARK	Low	Airspade root collar, root prune	[redacted]	[redacted]
41977	maple: red (Acer rubrum)	7	GRIMMONS PARK	Low	Prune to improve structure and promote single central stem. Raise 8' off ground. Airspade root collar, root prune	[redacted]	[redacted]
41979	maple: red (Acer rubrum)	7.4	GRIMMONS PARK	Low	Airspade root collar, root prune	[redacted]	[redacted]
41986	maple: red (Acer rubrum)	5.5	GRIMMONS PARK	Low	Prune to improve structure and promote single central stem. Raise 8' off ground. Airspade root collar, root prune	[redacted]	[redacted]
41987	blackgum (Nyssa sylvatica)	6	GRIMMONS PARK	Low	Prune to improve structure and promote single central stem. Raise 8' off ground. Airspade root collar, root prune	[redacted]	[redacted]
42001	crabapple: flowering (Malus spp.)	0.8	GRIMMONS PARK	Low	YTTP	[redacted]	[redacted]
42011	planetree: London (Platanus x acerifolia)	7.4	GRIMMONS PARK	Low	Prune to remove dead, broken branches greater than 2" in diameter, fix stubs. Raise 8-10' off ground/sidewalk and 14' over the sidewalk	[redacted]	[redacted]
42013	blackgum (Nyssa sylvatica)	3.8	GRIMMONS PARK	Low	Prune to improve structure and promote single central stem. Raise 8' off ground. Airspade root collar, root prune	[redacted]	[redacted]
42019	planetree: London (Platanus x acerifolia)	5.7	GRIMMONS PARK	Low	Prune to remove dead, broken branches greater than 2" in diameter, fix stubs. Raise 8-10' off ground/sidewalk and 14' over the sidewalk	[redacted]	[redacted]

42022	maple: red (Acer rubrum)	4.8	GRIMMONS PARK	Low	Airspade root collar, root prune		
42029	planetree: London (Platanus x acerifolia)	5.7	GRIMMONS PARK	Low	Prune to remove dead, broken branches greater than 2" in diameter, fix stubs. Raise 8-10' off ground/sidewalk and 14' over the sidewalk		
42031	maple: red (Acer rubrum)	4.3	GRIMMONS PARK	Low	Airspade root collar, root prune		
42037	planetree: London (Platanus x acerifolia)	6.2	GRIMMONS PARK	Low	Prune to remove dead, broken branches greater than 2" in diameter, fix stubs. Raise 8-10' off ground/sidewalk and 14' over the sidewalk		
42039	maple: red (Acer rubrum)	4.7	GRIMMONS PARK	Low	Airspade root collar, root prune		
42046	maple: red (Acer rubrum)	5.2	GRIMMONS PARK	Low	Airspade root collar, root prune		
42048	planetree: London (Platanus x acerifolia)	6	GRIMMONS PARK	Low	Prune to remove dead, broken branches greater than 2" in diameter, fix stubs. Raise 8-10' off ground/sidewalk and 14' over the sidewalk		
42056	maple: red (Acer rubrum)	4	GRIMMONS PARK	Low	Airspade root collar, root prune		
42064	maple: red (Acer rubrum)	4.7	GRIMMONS PARK	Low	Airspade root collar, root prune		
42083	maple: red (Acer rubrum)	5.2	GRIMMONS PARK	Low	Prune to improve structure and promote single central stem. Raise 8' off ground. Airspade root collar, root prune		

42093	maple: red (Acer rubrum)	4.3	GRIMMONS PARK	Low	Prune to improve structure and promote single central stem. Raise 8' off ground. Airspade root collar, root prune		[redacted]
42098	planetree: London (Platanus x acerifolia)	10.1	GRIMMONS PARK	Low	Prune to remove dead, broken branches greater than 2" in diameter, fix stubs. Raise 8-10' off ground/sidewalk and 14' over the sidewalk	[redacted]	[redacted]
42119	maple: red (Acer rubrum)	4.9	GRIMMONS PARK	Low	Decay on lower trunk- good woundwood growth. Airspade root collar, root prune		[redacted]
42124	maple: red (Acer rubrum)	5.2	GRIMMONS PARK	Low	Prune to improve structure and promote single central stem. Raise 8' off ground. Airspade root collar, root prune		[redacted]
42137	maple: red (Acer rubrum)	5.5	GRIMMONS PARK	Low	Airspade root collar, root prune		[redacted]
41992	yellowwood: American (Cladrastis kentukea)	4.1	GRIMMONS PARK	Low	YTTP		[redacted]
42131	maple: red (Acer rubrum)	6	GRIMMONS PARK	Low	Airspade root collar, root prune		[redacted]
41996	crabapple: flowering (Malus spp.)	1.7	GRIMMONS PARK	Low	YTTP		[redacted]
42004	cherry: Japanese flowering (Prunus serrulata)	1.1	GRIMMONS PARK	Low	Prune to improve structure and promote single central stem. Raise 8' off ground. Airspade root collar, root prune		[redacted]

42106	redcedar: eastern (Juniperus virginiana)	2.7	GRIMMONS PARK	Low	none	[redacted]	[redacted]
42101	redcedar: eastern (Juniperus virginiana)	3.4	GRIMMONS PARK	Low	none	[redacted]	[redacted]
42114	redcedar: eastern (Juniperus virginiana)	2.6	GRIMMONS PARK	Low	none	[redacted]	[redacted]
42109	redcedar: eastern (Juniperus virginiana)	2.9	GRIMMONS PARK	Low	none	[redacted]	[redacted]
42073	serviceberry: Allegheny (Amelanchier laevis)	1.2	GRIMMONS PARK	Low	YTTP	[redacted]	[redacted]

Total Pruning and removals
YTTP
Root prune 10 trees
Airspade 1000ft sq
Biostim 3000ft sq
compost 1000ft sq

20 mulch rings
Permits

2 days, 1 day crew w climbers, 1 day airspade
4 trees (done on different contract)

[redacted]

Reports

before and after
TOTAL

[redacted]

Soil and Plant Nutrient Testing Laboratory
203 Paige Laboratory
161 Holdsworth Way
University of Massachusetts
Amherst, MA 01003
Phone: (413) 545-2311
e-mail: soiltest@umass.edu
website: soiltest.umass.edu

Soil Test Report

Prepared For:

Sonia Vivas
Barrett Tree Service East Inc
340 Middlesex Ave
Medford, MA 02155

svivas@barretttreeeast.com
617-616-5281

Sample Information:

Sample ID: H6884

Order Number: 64152
Lab Number: S230221-102
Area Sampled:
Received: 2/21/2023
Reported: 3/3/2023

Results

Analysis	*Value Found*	*Optimum Range*
Soil pH (1:1, H2O)	6.0	
Modified Morgan extractable, ppm		
Macronutrients		
Phosphorus (P)	6.6	4-14
Potassium (K)	151	100-160
Calcium (Ca)	1594	1000-1500
Magnesium (Mg)	190	50-120
Sulfur (S)	14.1	>10
Micronutrients *		
Boron (B)	0.2	0.1-0.5
Manganese (Mn)	8.9	1.1-6.3
Zinc (Zn)	23.0	1.0-7.6
Copper (Cu)	0.8	0.3-0.6
Iron (Fe)	12.8	2.7-9.4
Aluminum (Al)	54	<75
Lead (Pb)	8.0	<22

Analysis	*Value Found*	*Optimum Range*
Cation Exch. Capacity, meq/100g	16.3	
Exch. Acidity, meq/100g	6.4	
Base Saturation, %		
Calcium Base Saturation	49	50-80
Magnesium Base Saturation	10	10-30
Potassium Base Saturation	2	2.0-7.0
Scoop Density, g/cc	0.84	
Optional tests		
Soil Organic Matter (LOI), %	7.7	

* *Micronutrient deficiencies rarely occur in New England soils; therefore, an Optimum Range has never been defined. Values provided represent the normal range found in soils and are for reference only.*

Soil Test Interpretation

Nutrient	Very Low	Low	Optimum	Above Optimum
Phosphorus (P):				
Potassium (K):				
Calcium (Ca):				
Magnesium (Mg):				

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Recommendations for Deciduous Trees, Shrubs & Vines-Maintenance

Limestone (Target pH of 6.0)	Nitrogen, N	Phosphorus, P2O5	Potassium, K2O
	lbs / 100 sq ft		
0	.1 - .2	0.1	0.1

Comments:

*To supply Nitrogen, apply EITHER 1 - 1.5 lbs. Dried Blood (12-0-0) OR 0.2 - 0.4 lbs. Urea (45-0-0) per 100 square feet. Application should be split between early spring and mid-June.
*To supply Phosphorus, apply EITHER 0.8 lbs. Bone Meal (4-12-0) OR 0.2 lb. Triple Phosphate (0-45-0) per 100 square feet.
*To supply Potassium, apply 0.2 lbs. Potash (0-0-60) per 100 square feet.
-For instructions on converting nutrient recommendations to fertilizer applications in home gardens and landscapes, see Reference "Step-by-Step Fertilizer Guide for Home Grounds and Gardening" (listed below).
-The lead level in this soil is less than 22 ppm, which falls below the listed optimum level. However, many variables affect this result, and safety thresholds vary by location and soil use. There is still a potential risk of lead exposure for soils used for growing food or as play areas for children. Our Total Sorbed Metals test provides an accurate measurement of soil lead. For more information about lead levels in soil, see the fact sheet entitled "Soil Lead: Testing, Interpretation, & Recommendations," listed under General References at the end of this report. ATTN: The Total Sorbed Metals Test is currently unavailable. We apologize for any inconvenience.

References:

Home Lawn and Garden Information	http://ag.umass.edu/resources/home-lawn-garden
Step-by-Step Fertilizer Guide for Home Grounds and Gardening	https://ag.umass.edu/SPNTL-4

General References:

Interpreting Your Soil Test Results	http://soiltest.umass.edu/fact-sheets/interpreting-your-soil-test-results
Soil Lead: Testing, Interpretation & Recommendations	http://ag.umass.edu/soil-plant-nutrient-testing-laboratory/fact-sheets/soil-lead-fact-sheet
For current information and order forms, please visit	http://soiltest.umass.edu/
UMass Extension Nutrient Management	http://ag.umass.edu/agriculture-resources/nutrient-management