



## Programs & Services Committee Report

### City of Newton In City Council

**Wednesday, June 7, 2023**

Present: Councilors Krintzman (Chair), Noel, Humphrey, Wright, Baker, Albright, Ryan, and Greenberg

Also Present: Councilors Norton, Leary, and Malakie

City Staff: Carol Moore, City Clerk/Clerk of the Council; Nicole Banks, Commissioner of Parks, Recreation and Culture; Lara Kritzer, CPA Program Administrator; Jennifer Wilson, Assistant City Solicitor; Jonathan Yeo, Chief Operating Officer; Marc Welch, Deputy Commissioner of Parks, Recreation and Culture; and Jaclyn Norton, Committee Clerk

For more information regarding this meeting, a video recording can be found at the following link: [Programs & Services Committee - June 7, 2023 \(newtv.org\)](https://www.newtv.org/Programs%20and%20Services%20Committee%20-%20June%207,%202023)

**#179-23**      **Appointment of Sean Dazet to Dogs Off-Leash Advisory Committee**  
PRESIDENT ALBRIGHT appointing Sean Dazet, 42 Rustic Street, Newton as a member of the Dogs Off-Leash Advisory Committee for a term of office to expire on December 31, 2023. (60 Days: 07/14/2023)

**Action:**      **Programs & Services Approved 6-0 (Councilors Baker and Wright Not Voting)**

**Note:**      Sean Dazet joined the Committee and described that he applied for the Dogs Off-Leash Advisory Committee as he enjoys the dog parks within the City and is looking to get more involved in his community. Multiple Councilors expressed support for his appointment. Councilors voted 6-0 (Councilors Baker and Wright Not Voting) on a motion to approve from Councilor Greenberg.

**#208-23**      **Appointment of Stephen Logowitz to the Community Education Commission**  
PRESIDENT ALBRIGHT appointing Stephen Logowitz, 391 Walnut Street, Newtonville as a member of the Community Education Commission for a term of office to expire on June 5, 2025. (60 Days: 08/04/2023)

**Action:**      **Programs & Services Approved 6-0 (Councilors Baker and Wright Not Voting)**

**Note:**      Stephen Logowitz noted his involvement in lifetime learning and his work to help revitalize the program in his work with the Commission prior to his appointment. He stated that once appointed he would like to work with the senior center to ensure that people can utilize

the programming. A Councilor asked if Mr. Logowitz knew if the money generated by the Commission was supposed to support itself or Newton Public Schools. Mr. Logowitz described that the funding is designated to support programming and excess revenue is used to provide scholarships. Councilors voted 6-0 (Councilors Baker and Wright Not Voting) on a motion to approve from Councilor Albright.

**#210-23**      **Appointment of Harold W. Adams to the Community Education Commission**  
PRESIDENT ALBRIGHT appointing Harold W. Adams, 47 Grafton Street, Newtonville as a member of the Community Education Commission for a term of office to expire on June 5, 2025. (60 Days: 08/04/2023)

**Action:**      **Programs & Services Approved 6-0 (Councilors Baker and Wright Not Voting)**

**Note:**      Harold Adams described that he is a parent of children in Newton Public Schools and has been active in volunteering in the schools. He also described that the goals of Newton Community Education are ones that align with his personal beliefs. Councilors expressing no concern voted 6-0 (Councilors Baker and Wright Not Voting) on a motion to approve from Councilor Noel.

### **Referred to Programs & Services and Finance Committees**

**#216-23**      **Request for salary increase for City Clerk/Clerk of the City Council**  
COUNCILORS ALBRIGHT AND LIPOF requesting an increase in the salary of the City Clerk/Clerk of the City Council to \$134,734 effective July 1, 2023 to match the percentage increase included in the FY24 budget for H-grade employees.

**Action:**      **Programs & Services Approved 6-0 (Councilors Baker and Wright Not Voting)**

**Note:**      The docketing Councilor described that the salary of the City Clerk/Clerk of the Council is set by the City Council This docket item will provide the City Clerk the cost of living rise that all H-grade employees receive. Councilors expressing no concern voted 6-0 (Councilors Baker and Wright Not Voting) on a motion to approve from Councilor Albright.

### **Referred to Programs & Services and Finance Committees**

**#163-23**      **Appropriate \$250,000 for Election Equipment**  
HER HONOR THE MAYOR requesting authorization to appropriate and expend the sum of two hundred and fifty thousand dollars (\$250,000) from June 30, 2022 Certified free Cash, to Acct # 0110162-585170 Clerk of the Council-Election Equipment to replace 32 current machines as well as one high-speed tabulator to address the increase in vote by mail processing.

**Action:**      **Programs & Services Approved 6-0 (Councilors Baker and Wright Not Voting)**

**Note:** Carol Moore, City Clerk/Clerk of the Council, outlined that a Request for Proposals (RFP) was posted with only one proposal received from LHS Associates. LHS Associate is one of two vendors certified to provide voting machines in the Commonwealth and is the supplier of the current voting machines. The attached presentation outlines who evaluated the machines and that the machines from LHS Associates exceeded all comparative evaluation criteria. Ms. Moore during her presentation also noted that these machines will provide a larger voter feedback screen so voters can more easily see that their ballot was accepted and that printed reports from the machine are done on thermal paper to prevent ink from running out. This RFP also included a high-speed processing tabulator. It can process up to 200 images per minute and would be used for higher turnout elections. These machines would first be used in the municipal elections with staff receiving training from LHS Associates on the new machines.

Committee members expressed support for this request citing how it will improve election administration within Newton. When asked how many machines will be purchased Ms. Moore stated that 32 regular voting machines would be purchased. This allows for the City to have replacement machines if needed. Councilors voted 6-0 (Councilors Baker and Wright Not Voting) on a motion to approve from Councilor Noel.

### **Referred to Programs & Services and Finance Committees**

**#159-23** **Appropriate funds for the Athletic Fields CIP Construction Phase III project**  
COMMUNITY PRESERVATION COMMITTEE requesting authorization to appropriate and expend the sum of nine million ninety-nine thousand seven hundred and eighty-seven dollars (\$9,099,787) to the control of the Planning & Development Department from the Community Preservation Act Funds with four million ninety-nine thousand seven hundred and eighty-seven dollars (\$4,099,787) from the CPA's Unrestricted Prior Year Fund and five million dollars (\$5,000,000) authorize a general obligation borrowing of an equal amount for the Athletic Fields CIP Construction Phase III project and authorization to apply any premium received upon the sale of the bonds or notes, less the cost of preparing, issuing, and marketing them, and any accrued interest received upon the delivery of the bonds or notes to the costs of the project and to reduce the amount authorized to be borrowed for the project by like amount.

**Action:** **Programs & Services Approved 7-0 (Councilors Baker Not Voting)**

**Note:** Lara Kritzer, CPA Program Administrator, and Jennifer Molinsky, Chair of the CPC, joined the Committee to discuss the project. Ms. Molinsky noted that this project builds on the FY22 CPA funding used to hire two consultants to assess the conditions of the Albemarle, McGrath, and Burr School Fields. This funding request will be to complete the construction designs and bidding process for construction in Fall 2024. The funding request for this project is \$4,099,787 and will be combined with a 15-year bond for \$5,000,000 to result in a total CPA

funding of \$9,099,787. The attached presentation details other funding sources that are being used to finance this project.

Councilors asked if these funds are being used to install an artificial turf field at Albemarle and if so, concern about approving this item before the Committee receives a cost-benefit analysis on artificial versus grass turf fields. Nicole Banks, Commissioner of Parks, Recreation and Culture stated that this request is not for any artificial turf with Ms. Kritzer noting that no CPA funding can be used for artificial turf. Luis Perez Demorizi, Director of Parks and Open Space, noted that if the Council decides to prohibit artificial turf fields the Department will amend the Albemarle project to include a grass field.

Committee Members voted 7-0 (Councilor Baker Not Voting) on a motion to approve from Councilor Noel.

### **Referred to Programs & Services and Finance Committees**

#### **#411-22 Request for Amendment to Chapter 21, Art III Trees to extend tree protection and update permits**

COUNCILORS MALAKIE, NORTON, LEARY, RYAN, WRIGHT, LUCAS, HUMPHREY, BOWMAN, MARKIEWICZ, OLIVER, DOWNS, LAREDO, AND GROSSMAN requesting revisions and amendments to Chapter 21, Art. III Trees (sec. 21-60 through 21-89) to extend tree protection to all trees 6 inches DBH (diameter at breast height) and greater within the City (with no exempt lots); to update tree removal permits, fees, and compensation; and to strengthen protection for existing and replacement trees.

**Action:** **Programs & Services Held 8-0**

**Note:** The Chair described that once the Committee has concluded with straw votes regarding the ordinance the public will have the opportunity to provide comments during a future meeting.

#### **Sec 21-80 Findings**

Councilors expressed no objection to the proposed amendments to this section and voted unanimously on a straw vote to include the language.

#### **Sec 21-85(c) Cemetery Exemption**

The Chair noted that the draft language in the backup material for the agenda has been revised slightly to remove the naming of Newton Cemetery and Arboretum in the ordinance. This change was made due to concerns raised by the Law Department. A Councilor asked if language could be added to ensure the preservation of trees such as being required to submit a preservation plan to the Tree Warden. Marc Welch, Deputy Commissioner of Parks, Recreation

and Culture, stated that this is currently a suggestion and that the Cemetery has submitted that in the past as part of the tree permit application. He also stated that he does not support a cemetery exemption in the ordinance.

The draft language was also amended to change “Level II” to “Level II, Level III, or Level IV” in Sec 21-85(c)(3). Councilors voted 6-2 (Councilors Ryan and Wright Opposed) to adopt the cemetery exemption as part of the draft ordinance.

### **Definitions and 21-85(b)(3)**

The Committee voted unanimously to amend the definitions of Significant, Landmark, and Legacy trees to have the greatest DBH of one category be equal to the least DBH of the next category of tree.

Regarding updating Sec 21-85(b)(3), the Chair will draft potential language for a future meeting. This language will ensure replacement trees with a DBH larger than the classification of a Significant Tree are treated as either a Landmark or Legacy Tree.

### **Fee Schedule**

Mr. Welch provided a brief overview of the current ordinance having the cost be based on the current cost to purchase and install the trees. He further noted the proposals that were in the Councilor and City Proposals. Attached is a chart from Mr. Welch that documents the payment in lieu of replanting for the various fee structures. After previous discussions, Mr. Welch calculated other fee structures based on the 30-year value of the tree. Attached is a presentation that documents how Mr. Welch calculated those fee structures.

A couple of Councilors raised concerns about the fee being lower in Newton than in other communities with a similar fee structure. Mr. Welch stated that the City doing the planting of trees paid for by this fund helps reduce the cost. Multiple Councilors agreed that some direction for determining the fee schedule should be in the ordinance. Jennifer Wilson, Assistant City Solicitor, indicated a preference for the fee schedule on the attached chart that included the 30-year environmental value of the tree. Committee members voted unanimously on a straw vote to update Sec 31-86(b) to have to fee be based on the “City’s current cost to purchase, install, maintain trees for the first five years, and includes the environmental impact of the removed trees.” The Tree Warden will also be required to update and publish this cost annually.

Committee members voted 8-0 on a motion to hold from Councilor Ryan.

**Referred to Programs & Services and Finance Committees**

**#412-22**

**Request for Review and Amendments to Chapter 21, Art. III, Division 3**

HER HONOR THE MAYOR requesting review and amendments to Chapter 21, Art. III, Division 3, Tree Preservation to increase replacement requirements for larger trees, add protections for smaller trees, limit removal of trees without replacement, enhance procedures for protecting trees, increasing payment required for trees cut without replacement, protect trees on lots adjacent to construction, provide Tree Warden with additional professional input on trees on private properties.

**Action:** **Programs & Services Held 8-0**

**Note:** This item was discussed concurrently with item #411-22. A written report can be found with item #411-22.

The meeting adjourned at 9:40 pm.

**Respectfully Submitted,**

**Josh Krintzman, Chair**

# #163-23 Election Equipment

Appropriate \$250,000 for Election Equipment

HER HONOR THE MAYOR requesting authorization to appropriate and expend the sum of two hundred and fifty thousand dollars (\$250,000) from June 30, 2022 Certified free Cash, to Acct # 0110162-585170 Clerk of the Council-Election Equipment to replace 32 current machines as well as one high-speed tabulator to address the increase in vote by mail processing.

## Background

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- RFP was posted and the City received one proposal from LHS Associates.
- Reviewed by City Clerk, Elections Supervisor and CTO.
- Exceeded all comparative evaluation criteria.
  - Ballot Box design usefulness
  - Voter feedback screen larger (yet still private).
  - Authorized service center within one hour drive of Newton.
  - Customizable presentation of results.
  - Experience in supporting large municipalities with their election needs (recommendations from Boston, Quincy, Medford, and more)

## Certifications\*

Massachusetts Secretary of the Commonwealth, certified equipment in compliance with standards set forth in [950 C.M.R. Sec. 50.02](#)

Elections Assistance Commission Certification - An EAC certification is an official recognition that a voting system has been tested to and has met an identified set of Federal voting system standards.

\*Must be certified by Sect. of the Commonwealth.

## Imagecast Precinct 2 and ballot box



- Reads single- and double-sided ballots up to 22" long under 6 seconds.
- Rechargeable back battery system.
- Provides up to 8 different selected languages to program for voters.
- 2 Encrypted sealable memory cards per machine.
- 3 separate locked compartments to assist election workers with ballot organization.



# Imagecast Central – High Speed processing

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- Simple steps to use
- Processes up to 200 images per minute
- Used for high voter turnout elections



Implementation:  
end of July 2023

- Equipment available now
- First use - municipal elections
- Trade in, training and manual included in the RFP

# Athletic Fields CIP Construction Phase FY23-FY25 - Funding Recommendation

Community Preservation Committee  
Presentation to Programs and Services Committee  
June 7, 2023

## Project Overview

- ▶ In FY22, CPA funding was used to hire two consultants - Weston and Sampson and CDM Smith - to assess the existing conditions at the Albemarle McGrath, and Burr School Fields
- ▶ Consultants drew from this assessment and extensive community engagement process to develop conceptual plans for all three sites.
- ▶ Next step is to complete the construction designs and bidding process for construction in Fall 2024



## Current Funding Request

CPA funding is requested to complete the final phase of design and construction of recreation improvements for Albemarle Park Phase I, McGrath Park, and Burr School Fields including:

- ▶ Completion of final designs, plans and bidding documents
- ▶ Construction of new and rehabilitation of existing multi-use and other playing fields
- ▶ Installation of new paths and walkways
- ▶ Installation of new lighting fixtures
- ▶ Construction and installation of new recreation features including lacrosse practice wall, tennis court resurfacing, benches, and other amenities

## Recommended CPA Project Funding

CPA Funding Accounts	Amount
FY23 Budget Reserve (Undesignated Funds)	\$1,701,003
Unrestricted Prior Year Funding	\$2,398,784
<b>Total of Existing CPA Funding:</b>	<b>\$4,099,787</b>
Debt Authorization for 15 Year Bond (Future Payments to be taken from CPA Current Year Undesignated Funds)	\$5,000,000
<b>Total CPA Project Funding:</b>	<b>\$9,099,787</b>

CPA Funding is recommended to be Recreation category funding.

## Phase III Project Funding Sources

Funding Sources	Amount
CPA Funds (Current Funds and Bonding)	\$9,099,787
City of Newton Budget and ARPA Funds	\$3,699,115
CDBG Funds (McGrath Accessible Pathways)	\$92,000
Little League Fundraising (Murphy Field Lighting)	\$200,000
Newton Youth Lacrosse Fundraising (McGrath Lacrosse Practice Wall)	\$60,000
Developer Mitigation Funds for Forte Park Lighting	\$200,000
Athletic Lighting Structural Assessment (Various Sites)	\$21,875
City Staff Time for Oversight and Management of Phase III Construction	\$473,340
<b>TOTAL PROJECT COST:</b>	<b>\$13,846,117</b>

## Timeline

**Summer 2023 through Spring 2024** - Complete Final Design of Albemarle Park Phase I, McGrath and Burr School Field sites and all necessary permitting processes

**Summer 2024** - Complete Bidding Process for all three sites and award construction contract(s)

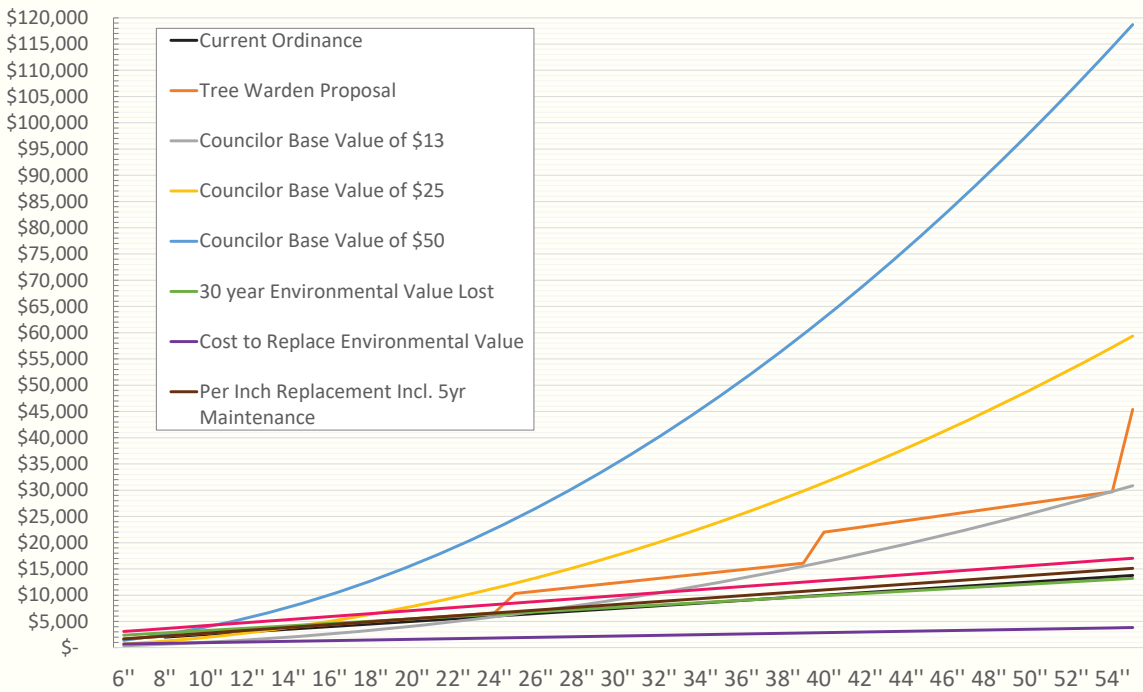
**Fall 2024** - Construction at all three sites with anticipated completion in Spring/Summer 2025

## Questions & Discussion

► Thank you!



Tree Ordinance Tree Replacement Cost Options, Draft 4-14-2023					Alternatives for discussion				
Tree DBH	Current Ordinance	Tree Warden Proposal	Councilor Base Value of \$13	Councilor Base Value of \$25	Councilor Base Value of \$50	30 year Environmental Value Lost	Cost to Replace Environmental Value	Combined 30 year Enviro value/ Replacement Cost	Per Inch Replacement Incl. Svr Maintenance
6"		\$ 1,650	\$ 367	\$ 707	\$ 1,413	\$ 2,385	\$ 690	\$ 3,075	\$ 1,650
7"		\$ 1,925	\$ 500	\$ 962	\$ 1,923	\$ 2,606	\$ 754	\$ 3,360	\$ 1,925
8"	\$ 2,000	\$ 2,200	\$ 653	\$ 1,256	\$ 2,512	\$ 2,827	\$ 818	\$ 3,645	\$ 2,200
9"	\$ 2,250	\$ 2,475	\$ 827	\$ 1,590	\$ 3,179	\$ 3,048	\$ 882	\$ 3,930	\$ 2,475
10"	\$ 2,500	\$ 2,750	\$ 1,021	\$ 1,963	\$ 3,925	\$ 3,269	\$ 946	\$ 4,215	\$ 2,750
11"	\$ 2,750	\$ 3,025	\$ 1,235	\$ 2,375	\$ 4,749	\$ 3,490	\$ 1,010	\$ 4,500	\$ 3,025
12"	\$ 3,000	\$ 3,300	\$ 1,470	\$ 2,826	\$ 5,652	\$ 3,711	\$ 1,074	\$ 4,785	\$ 3,300
13"	\$ 3,250	\$ 3,575	\$ 1,725	\$ 3,317	\$ 6,633	\$ 3,932	\$ 1,138	\$ 5,071	\$ 3,575
14"	\$ 3,500	\$ 3,850	\$ 2,000	\$ 3,847	\$ 7,693	\$ 4,153	\$ 1,202	\$ 5,356	\$ 3,850
15"	\$ 3,750	\$ 4,125	\$ 2,296	\$ 4,416	\$ 8,831	\$ 4,374	\$ 1,266	\$ 5,641	\$ 4,125
16"	\$ 4,000	\$ 4,400	\$ 2,612	\$ 5,024	\$ 10,048	\$ 4,596	\$ 1,330	\$ 5,926	\$ 4,400
17"	\$ 4,250	\$ 4,675	\$ 2,949	\$ 5,672	\$ 11,343	\$ 4,817	\$ 1,394	\$ 6,211	\$ 4,675
18"	\$ 4,500	\$ 4,950	\$ 3,306	\$ 6,359	\$ 12,717	\$ 5,038	\$ 1,458	\$ 6,496	\$ 4,950
19"	\$ 4,750	\$ 5,225	\$ 3,684	\$ 7,085	\$ 14,169	\$ 5,259	\$ 1,522	\$ 6,781	\$ 5,225
20"	\$ 5,000	\$ 5,500	\$ 4,082	\$ 7,850	\$ 15,700	\$ 5,480	\$ 1,586	\$ 7,066	\$ 5,500
21"	\$ 5,250	\$ 5,775	\$ 4,500	\$ 8,655	\$ 17,309	\$ 5,701	\$ 1,650	\$ 7,351	\$ 5,775
22"	\$ 5,500	\$ 6,050	\$ 4,939	\$ 9,499	\$ 18,997	\$ 5,922	\$ 1,714	\$ 7,636	\$ 6,050
23"	\$ 5,750	\$ 6,325	\$ 5,398	\$ 10,382	\$ 20,763	\$ 6,143	\$ 1,778	\$ 7,922	\$ 6,325
24"	\$ 6,000	\$ 6,600	\$ 5,878	\$ 11,304	\$ 22,608	\$ 6,364	\$ 1,842	\$ 8,207	\$ 6,600
25"	\$ 6,250	\$ 6,937	\$ 6,378	\$ 12,266	\$ 24,531	\$ 6,585	\$ 1,906	\$ 8,492	\$ 6,937
26"	\$ 6,500	\$ 7,275	\$ 6,899	\$ 13,267	\$ 26,533	\$ 6,807	\$ 1,970	\$ 8,777	\$ 7,275
27"	\$ 6,750	\$ 7,613	\$ 7,439	\$ 14,307	\$ 28,613	\$ 7,028	\$ 2,034	\$ 9,062	\$ 7,613
28"	\$ 7,000	\$ 7,950	\$ 8,001	\$ 15,386	\$ 30,772	\$ 7,249	\$ 2,098	\$ 9,347	\$ 7,950
29"	\$ 7,250	\$ 8,288	\$ 8,582	\$ 16,505	\$ 33,009	\$ 7,470	\$ 2,162	\$ 9,632	\$ 8,288
30"	\$ 7,500	\$ 8,625	\$ 9,185	\$ 17,663	\$ 35,325	\$ 7,691	\$ 2,226	\$ 9,917	\$ 8,625
31"	\$ 7,750	\$ 8,963	\$ 9,807	\$ 18,860	\$ 37,719	\$ 7,912	\$ 2,290	\$ 10,202	\$ 8,963
32"	\$ 8,000	\$ 9,300	\$ 10,450	\$ 20,096	\$ 40,192	\$ 8,133	\$ 2,354	\$ 10,488	\$ 9,300
33"	\$ 8,250	\$ 9,638	\$ 11,113	\$ 21,372	\$ 42,743	\$ 8,354	\$ 2,418	\$ 10,773	\$ 9,638
34"	\$ 8,500	\$ 9,975	\$ 11,797	\$ 22,687	\$ 45,373	\$ 8,575	\$ 2,482	\$ 11,058	\$ 9,975
35"	\$ 8,750	\$ 10,313	\$ 12,501	\$ 24,041	\$ 48,081	\$ 8,796	\$ 2,546	\$ 11,343	\$ 10,313
36"	\$ 9,000	\$ 10,650	\$ 13,226	\$ 25,434	\$ 50,868	\$ 9,018	\$ 2,610	\$ 11,628	\$ 10,650
37"	\$ 9,250	\$ 10,988	\$ 13,971	\$ 26,867	\$ 53,733	\$ 9,239	\$ 2,674	\$ 11,913	\$ 10,988
38"	\$ 9,500	\$ 11,325	\$ 14,736	\$ 28,339	\$ 56,677	\$ 9,460	\$ 2,738	\$ 12,198	\$ 11,325
39"	\$ 9,750	\$ 11,663	\$ 15,522	\$ 29,850	\$ 59,699	\$ 9,681	\$ 2,802	\$ 12,483	\$ 11,663
40"	\$ 10,000	\$ 12,000	\$ 16,328	\$ 31,400	\$ 62,800	\$ 9,902	\$ 2,866	\$ 12,768	\$ 12,000
41"	\$ 10,250	\$ 12,338	\$ 17,155	\$ 32,990	\$ 65,979	\$ 10,123	\$ 2,930	\$ 13,053	\$ 12,338
42"	\$ 10,500	\$ 12,675	\$ 18,002	\$ 34,619	\$ 69,237	\$ 10,344	\$ 2,994	\$ 13,338	\$ 12,675
43"	\$ 10,750	\$ 13,013	\$ 18,869	\$ 36,287	\$ 72,573	\$ 10,565	\$ 3,058	\$ 13,623	\$ 13,013
44"	\$ 11,000	\$ 13,350	\$ 19,757	\$ 37,994	\$ 75,988	\$ 10,786	\$ 3,122	\$ 13,908	\$ 13,350
45"	\$ 11,250	\$ 13,688	\$ 20,665	\$ 39,741	\$ 79,481	\$ 11,007	\$ 3,186	\$ 14,193	\$ 13,688
46"	\$ 11,500	\$ 14,025	\$ 21,594	\$ 41,527	\$ 83,053	\$ 11,229	\$ 3,250	\$ 14,478	\$ 14,025
47"	\$ 11,750	\$ 14,363	\$ 22,543	\$ 43,352	\$ 86,703	\$ 11,450	\$ 3,314	\$ 14,763	\$ 14,363
48"	\$ 12,000	\$ 14,700	\$ 23,512	\$ 45,216	\$ 90,432	\$ 11,671	\$ 3,378	\$ 15,048	\$ 14,700
49"	\$ 12,250	\$ 15,038	\$ 24,502	\$ 47,120	\$ 94,239	\$ 11,892	\$ 3,442	\$ 15,333	\$ 15,038
50"	\$ 12,500	\$ 15,375	\$ 25,513	\$ 49,063	\$ 98,125	\$ 12,113	\$ 3,506	\$ 15,618	\$ 15,375
51"	\$ 12,750	\$ 15,713	\$ 26,543	\$ 51,045	\$ 102,089	\$ 12,334	\$ 3,570	\$ 15,903	\$ 15,713
52"	\$ 13,000	\$ 16,050	\$ 27,594	\$ 53,066	\$ 106,132	\$ 12,555	\$ 3,634	\$ 16,188	\$ 16,050
53"	\$ 13,250	\$ 16,388	\$ 28,666	\$ 55,127	\$ 110,253	\$ 12,776	\$ 3,698	\$ 16,473	\$ 16,388
54"	\$ 13,500	\$ 16,725	\$ 29,758	\$ 57,227	\$ 114,453	\$ 12,997	\$ 3,762	\$ 16,758	\$ 16,725
55"	\$ 13,750	\$ 17,063	\$ 30,870	\$ 59,366	\$ 118,731	\$ 13,218	\$ 3,826	\$ 17,043	\$ 17,063



Current Method for assessing payment in lieu of planting:

# of inches not replaced  
Multiplied by Current City Cost

Current City Cost \$250/inch  
Includes: purchase cost, staff costs, watering cost

Tree DBH	Current Ordinance
6"	na
7"	na
8"	\$ 2,000
9"	\$ 2,250
10"	\$ 2,500
11"	\$ 2,750
12"	\$ 3,000
13"	\$ 3,250
14"	\$ 3,500
15"	\$ 3,750
16"	\$ 4,000
17"	\$ 4,250
18"	\$ 4,500
19"	\$ 4,750
20"	\$ 5,000
21"	\$ 5,250
22"	\$ 5,500
23"	\$ 5,750
24"	\$ 6,000
25"	\$ 6,250
26"	\$ 6,500
27"	\$ 6,750
28"	\$ 7,000
29"	\$ 7,250
30"	\$ 7,500
31"	\$ 7,750
32"	\$ 8,000
33"	\$ 8,250
34"	\$ 8,500
35"	\$ 8,750
36"	\$ 9,000
37"	\$ 9,250
38"	\$ 9,500
39"	\$ 9,750
40"	\$ 10,000
41"	\$ 10,250
42"	\$ 10,500
43"	\$ 10,750
44"	\$ 11,000
45"	\$ 11,250
46"	\$ 11,500
47"	\$ 11,750
48"	\$ 12,000
49"	\$ 12,250
50"	\$ 12,500
51"	\$ 12,750
52"	\$ 13,000
53"	\$ 13,250
54"	\$ 13,500
55"	\$ 13,750

Current Method for assessing payment in lieu of planting:

# of inches not replaced  
Multiplied by Current City Cost

Current City Cost \$250/inch  
Includes: purchase cost, staff costs, watering cost

Tree DBH	Current Ordinance	Tree Warden Proposal
6"	na	\$ 1,650
7"	na	\$ 1,925
8"	\$ 2,000	\$ 2,200
9"	\$ 2,250	\$ 2,475
10"	\$ 2,500	\$ 2,750
11"	\$ 2,750	\$ 3,025
12"	\$ 3,000	\$ 3,300
13"	\$ 3,250	\$ 3,575
14"	\$ 3,500	\$ 3,850
15"	\$ 3,750	\$ 4,125
16"	\$ 4,000	\$ 4,400
17"	\$ 4,250	\$ 4,675
18"	\$ 4,500	\$ 4,950
19"	\$ 4,750	\$ 5,225
20"	\$ 5,000	\$ 5,500
21"	\$ 5,250	\$ 5,775
22"	\$ 5,500	\$ 6,050
23"	\$ 5,750	\$ 6,325
24"	\$ 6,000	\$ 6,600
25"	\$ 6,250	\$ 10,313
26"	\$ 6,500	\$ 10,725
27"	\$ 6,750	\$ 11,138
28"	\$ 7,000	\$ 11,550
29"	\$ 7,250	\$ 11,963
30"	\$ 7,500	\$ 12,375
31"	\$ 7,750	\$ 12,788
32"	\$ 8,000	\$ 13,200
33"	\$ 8,250	\$ 13,613
34"	\$ 8,500	\$ 14,025
35"	\$ 8,750	\$ 14,438
36"	\$ 9,000	\$ 14,850
37"	\$ 9,250	\$ 15,263
38"	\$ 9,500	\$ 15,675
39"	\$ 9,750	\$ 16,088
40"	\$ 10,000	\$ 22,000
41"	\$ 10,250	\$ 22,550
42"	\$ 10,500	\$ 23,100
43"	\$ 10,750	\$ 23,650
44"	\$ 11,000	\$ 24,200
45"	\$ 11,250	\$ 24,750
46"	\$ 11,500	\$ 25,300
47"	\$ 11,750	\$ 25,850
48"	\$ 12,000	\$ 26,400
49"	\$ 12,250	\$ 26,950
50"	\$ 12,500	\$ 27,500
51"	\$ 12,750	\$ 28,050
52"	\$ 13,000	\$ 28,600
53"	\$ 13,250	\$ 29,150
54"	\$ 13,500	\$ 29,700
55"	\$ 13,750	\$ 45,375

Tree Warden Proposal for assessing payment in lieu of planting:

# of inches not replaced  
Multiplied by Current City Cost + 5yr maintenance

City Cost \$275/inch  
Includes: purchase cost, staff costs, watering cost, pruning cost



# National Tree Benefit Calculator

**You've Chosen**

**Zip Code:** 02450  
**City:** NEWTON, MA  
**Climate Zone:** Northeast

[Change](#)

Trees in urban areas provide a number of important benefits. They help to clean the air, curb stormwater runoff, raise property values, sequester carbon, and reduce energy costs. Enter information about a street-side tree and learn

## Enter Your Tree Info

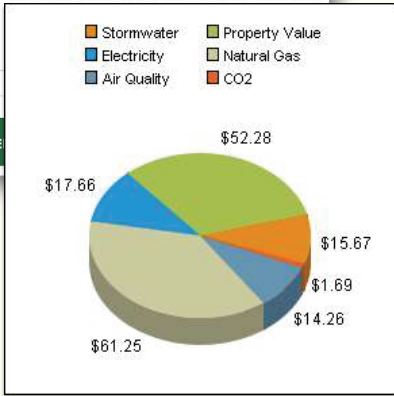
**Tree Species**  
 Oak, Northern red  
If you're looking for a Willow Oak, it's listed as "Oak, Willow". If your tree isn't listed, use the general "Other" listings.

**Tree Diameter**  
 2  
In inches. Width of your tree 4.5 feet from the ground. Must be no larger than 45 inches. For new trees, enter 1 inch.

**What land-use type is this tree nearest?**

- Single family residential
- Single family residential**
- Multi-family residential
- Small commercial business
- Industrial or large commercial business
- Park or other vacant land

CALCULATE TREE



# National Tree Benefit Calculator

**You've Chosen**

**Zip Code:** 02459  
**City:** NEWTON, MA  
**Climate Zone:** Northeast

[Change](#)

Trees in urban areas provide a number of important benefits. They help to clean the air, curb stormwater runoff, raise property values, sequester carbon, and reduce energy costs. Enter information about a street-side tree and learn

## Enter Your Tree Info

**Tree Species**  
 Oak, Northern red  
If you're looking for a Willow Oak, it's listed as "Oak, Willow". If your tree isn't listed, use the general "Other" listings.

**Tree Diameter**  
 15

**What land-use type is this tree nearest?**

- Single family residential

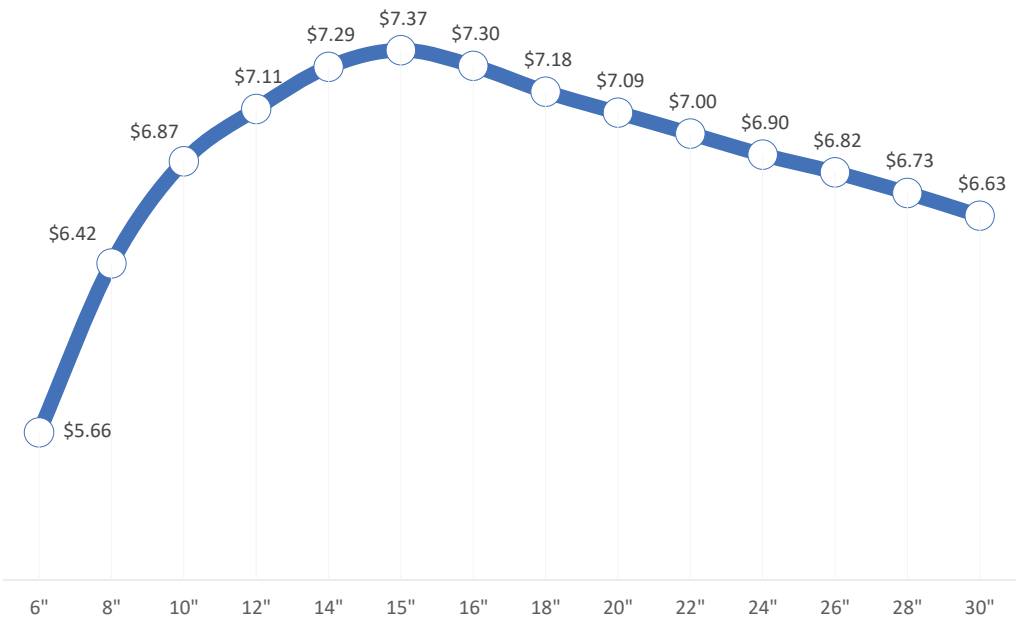
CALCULATE TREE



Annual Environmental Dollar Value

Tree DBH	Stormwater	Electricity	Air Quality	Natural Gas	CO2	Total	Per Inch
6	4.77	4.61	3.89	20.22	0.47	\$ 33.96	\$ 5.66
8	6.96	7.08	6.02	30.54	0.72	\$ 51.32	\$ 6.42
10	9.32	9.87	8.59	39.96	0.98	\$ 68.72	\$ 6.87
12	11.86	12.99	10.68	48.48	1.26	\$ 85.27	\$ 7.11
14	14.4	16.11	13.07	57	1.54	\$ 102.12	\$ 7.29
<b>15</b>	<b>15.67</b>	<b>17.66</b>	<b>14.26</b>	<b>61.25</b>	<b>1.69</b>	<b>\$ 110.53</b>	<b>\$ 7.37</b>
16	17.08	18.33	15.1	64.44	1.83	\$ 116.78	\$ 7.30
18	19.92	19.67	16.77	70.8	2.13	\$ 129.29	\$ 7.18
20	22.75	21.01	18.44	77.17	2.42	\$ 141.79	\$ 7.09
22	25.71	22.64	20.16	82.7	2.7	\$ 153.91	\$ 7.00
24	28.79	24.56	21.92	87.4	2.98	\$ 165.65	\$ 6.90
26	31.87	26.49	23.69	92.09	3.25	\$ 177.39	\$ 6.82
28	35.05	28.32	25.37	96.19	3.52	\$ 188.45	\$ 6.73
30	38.34	30.06	26.97	99.7	3.79	\$ 198.86	\$ 6.63

Tree DBH	Per Inch
6"	\$ 5.66
8"	\$ 6.42
10"	\$ 6.87
12"	\$ 7.11
14"	\$ 7.29
<b>15"</b>	<b>\$ 7.37</b>
16"	\$ 7.30
18"	\$ 7.18
20"	\$ 7.09
22"	\$ 7.00
24"	\$ 6.90
26"	\$ 6.82
28"	\$ 6.73
30"	\$ 6.63



Tree DBH	30 year Environmental Value Lost	Cost to Replace Environmental Value	Combined 30 year Enviro value/ Replacement Cost	Per Inch Replacement Incl. 5yr Maintenance
6"	\$ 2,385	\$ 690	\$ 3,075	\$ 1,650
7"	\$ 2,606	\$ 754	\$ 3,360	\$ 1,925
8"	\$ 2,827	\$ 818	\$ 3,645	\$ 2,200
9"	\$ 3,048	\$ 882	\$ 3,930	\$ 2,475
10"	\$ 3,269	\$ 946	\$ 4,215	\$ 2,750
11"	\$ 3,490	\$ 1,010	\$ 4,500	\$ 3,025
12"	\$ 3,711	\$ 1,074	\$ 4,785	\$ 3,300
13"	\$ 3,932	\$ 1,138	\$ 5,071	\$ 3,575
14"	\$ 4,153	\$ 1,202	\$ 5,356	\$ 3,850
15"	\$ 4,374	\$ 1,266	\$ 5,641	\$ 4,125
16"	\$ 4,596	\$ 1,330	\$ 5,926	\$ 4,400
17"	\$ 4,817	\$ 1,394	\$ 6,211	\$ 4,675
18"	\$ 5,038	\$ 1,458	\$ 6,496	\$ 4,950
19"	\$ 5,259	\$ 1,522	\$ 6,781	\$ 5,225
20"	\$ 5,480	\$ 1,586	\$ 7,066	\$ 5,500
21"	\$ 5,701	\$ 1,650	\$ 7,351	\$ 5,775
22"	\$ 5,922	\$ 1,714	\$ 7,636	\$ 6,050
23"	\$ 6,143	\$ 1,778	\$ 7,922	\$ 6,325
24"	\$ 6,364	\$ 1,842	\$ 8,207	\$ 6,600
25"	\$ 6,585	\$ 1,906	\$ 8,492	\$ 6,875
26"	\$ 6,807	\$ 1,970	\$ 8,777	\$ 7,150
27"	\$ 7,028	\$ 2,034	\$ 9,062	\$ 7,425
28"	\$ 7,249	\$ 2,098	\$ 9,347	\$ 7,700
29"	\$ 7,470	\$ 2,162	\$ 9,632	\$ 7,975
30"	\$ 7,691	\$ 2,226	\$ 9,917	\$ 8,250
31"	\$ 7,912	\$ 2,290	\$ 10,202	\$ 8,525
32"	\$ 8,133	\$ 2,354	\$ 10,488	\$ 8,800
33"	\$ 8,354	\$ 2,418	\$ 10,773	\$ 9,075
34"	\$ 8,575	\$ 2,482	\$ 11,058	\$ 9,350
35"	\$ 8,796	\$ 2,546	\$ 11,343	\$ 9,625
36"	\$ 9,018	\$ 2,610	\$ 11,628	\$ 9,900
37"	\$ 9,239	\$ 2,674	\$ 11,913	\$ 10,175
38"	\$ 9,460	\$ 2,738	\$ 12,198	\$ 10,450
39"	\$ 9,681	\$ 2,802	\$ 12,483	\$ 10,725
40"	\$ 9,902	\$ 2,866	\$ 12,768	\$ 11,000
41"	\$ 10,123	\$ 2,930	\$ 13,053	\$ 11,275
42"	\$ 10,344	\$ 2,994	\$ 13,339	\$ 11,550
43"	\$ 10,565	\$ 3,058	\$ 13,624	\$ 11,825
44"	\$ 10,786	\$ 3,122	\$ 13,909	\$ 12,100
45"	\$ 11,007	\$ 3,186	\$ 14,194	\$ 12,375
46"	\$ 11,229	\$ 3,250	\$ 14,479	\$ 12,650
47"	\$ 11,450	\$ 3,314	\$ 14,764	\$ 12,925
48"	\$ 11,671	\$ 3,378	\$ 15,049	\$ 13,200
49"	\$ 11,892	\$ 3,442	\$ 15,334	\$ 13,475
50"	\$ 12,113	\$ 3,506	\$ 15,619	\$ 13,750
51"	\$ 12,334	\$ 3,570	\$ 15,904	\$ 14,025
52"	\$ 12,555	\$ 3,634	\$ 16,190	\$ 14,300
53"	\$ 12,776	\$ 3,698	\$ 16,475	\$ 14,575
54"	\$ 12,997	\$ 3,762	\$ 16,760	\$ 14,850
55"	\$ 13,218	\$ 3,826	\$ 17,045	\$ 15,125

**30 Year Environmental Value Lost**

Assumes average annual growth \$7.37 per inch annual Environmental value Sum of 30 years of per inch Environmental value

**Cost to Replace Environmental Value**

Based on the number of new trees that would need to be planted to replace the 30 year Environmental value.

**Combined 30 Year Enviro value & Replacement Cost**

Combined cost of 30 Year Environmental Value and Cost to Replace Environmental Value

**Per Inch Replacement Cost Incl. 5yrs Maintenance**

Simple per inch removed replacement cost including 5 year maintenance. Similar to current ordinance but with maintenance added on.

