

Table of Contents

Acknowledgements	i
Table of Contents	iii
Section 1: Plan Summary.....	1
Section 2: Introduction.....	2
A. Definitions of Open Space Terminology Used in This Plan	2
B. Statement of Purpose	2
C. Planning Process and Public Participation.....	3
D. Enhanced Outreach and Public Participation	6
E. Summary of Accomplishments Since the Previous Plan.....	9
Section 3: Community Setting	10
A. Regional Context.....	10
B. History of the Community.....	11
C. Population Characteristics	16
D. Growth and Development Patterns.....	28
Section 4: Environmental Inventory and Analysis.....	42
A. Geology, Soils and Topography.....	42
B. Landscape Character.....	45
C. Water Resources.....	51
D. Native Vegetation and the Urban Forest.....	60
E. Fish and Wildlife Habitat.....	62
F. Scenic Resources and Unique Environments.....	66
G. Open Space Resources of Regional Significance.....	68
H. Historic Preservation.....	69
I. Environmental Challenges	71
J. Summary	76
Section 5: Inventory of Lands	77
A. Introduction to the Open Space System.....	77
B. Introduction to the Open Space Inventory.....	80
C. Inventory of Open Space and Recreation Lands.....	83
Section 6: Community Vision.....	132
A. Description of the Process	132
B. Results of Public Surveys.....	132
C. Statement of Open Space and Recreation Goals Based on Community Input.....	135
Section 7: Analysis of Needs.....	136
A. Introduction	136
B. Summary of Resource Protection Needs.....	136
C. Summary of Community's Needs	140
D. Summary of Management Needs	144
E. Distilling Community Needs and Translating Them into Goals	146

Section 8: Goals and Objectives	147
A. Introduction	147
B. Goals	147
C. Objectives	149
Section 9: Seven Year Action Plan	151
A. Introduction	151
B. Goals, Objectives, and Actions.....	152
C. Objectives with Lead Party, Timeframe, Funding Source, and Priority	166
Section 10: Public Comment	168
A. Introduction	168
B. Online Surveys	168
C. First Community Working Session	174
D. Second Community Working Session	176
E. Public Comment Period	176
Section 11: References	179 -181

Appendices

Appendix A: OSRP Accomplishments Since 2014	182
A. Land Acquisitions, Facility and Program Improvements since 2014	182
B. Conservation Commission Accomplishments, by Conservation Area	182
C. Parks, Recreation, and Culture Accomplishments, by Village	183
Appendix B: ADA Access Self-Evaluation	186
A. Commitment to Equal Access	186
B. Required Elements of an ADA Self Evaluation Report	186
C. Parks, Recreation, and Culture Accessibility Assessment.....	189
D. Conservation Commission Accessibility Progress Report.....	195
E. PRC and Conservation Commission Facility Inventories.....	196
Appendix C: Letters of Support	206-212
Appendix D: Full ADA Facility Inventory for Parks, Recreation and Culture	213-310

Tables

Table 1. OSRP Advisory Committee Members	4
Table 2. Estimated Daily Traffic on Newton's Freeways	31
Table 3. Water Quality Impairments of Assessed Waterbodies	72
Table 4. Natural and Recreational Open Space in Newton: A Summary	81
Table 5. Conservation Restrictions, APRs, and Conservation Easements	85
Table 6. Newton Parks, Recreation & Culture Controlled Land	89
Table 7. Newton Conservation Commission Controlled Land	102
Table 8. Newton School Department Controlled Land	105
Table 9. Newton General Municipal Controlled Land	107
Table 10. Cochituate Aqueduct	109

Table 11. Sudbury Aqueduct	112
Table 12. Massachusetts Department of Conservation and Restriction Controlled Land	114
Table 13. Other Municipal, State, and Federal Land	119
Table 14. Privately Owned Golf Courses	121
Table 15. Private Cemeteries.....	122
Table 16. Tax-Exempt Land with Significant Open Space.....	124
Table 17. Private, Unprotected Land with Significant Open Space.....	127
Table 18. Trails Inventory	129
Table 19. Parks, Recreation and Culture Managed ADA Facility Inventory	196
Table 20. Conservation Commission ADA Facility Inventory.....	203

Figures (* indicates map required by DCS, † indicates recommended by DCS)

Figure 1. Environmental Justice Areas*	7
Figure 2. Regional Context: The Charles River Watershed*	12
Figure 3. Railroads and Development	14
Figure 4. Villages and Historic Districts†	15
Figure 5. Newton's Projected Population 1930 to 2030†	16
Figure 6. Households with Residents Over 65 Years of Age†	18
Figure 7. Median Household Income†	19
Figure 8. Country of Origin for Asian Residents in 2017†	20
Figure 9. Languages Spoken at Home and Limited English-Speaking Households in Newton†	21
Figure 10. Environmental Justice Communities and Open Space Access*	21
Figure 11. Environmental Justice Communities and Heat Islands*	24
Figure 12. Housing Developments and Public Transit.....	27
Figure 13. Land Cover	29
Figure 14. Land Use†	30
Figure 15. Active Transportation & Safety Improvement Recommendations (<i>Newton in Motion</i>)†	34
Figure 16. Storm Drain System†	36
Figure 17. Current Zoning (2020)*	38
Figure 18. Proposed Zoning.....	39
Figure 19. Comparison of Existing and Proposed Zoning	40
Figure 20. Geologic Features: Bedrock Lithology and Unique Features*	43
Figure 21. Slope and Soils (by quality of drainage)*	46
Figure 22. Athletic Fields and Historical Wetlands	47
Figure 23. Topography and Development.....	48
Figure 24. Unique Features, Scenic Roads, and Heritage Landscapes*	50
Figure 25. Floodplains and Wetlands*	52
Figure 26. Aquifers and Drainage Basins*	53

Figure 27. Charles River Public Access.....	54
Figure 28. MWRA Water Supply System	58
Figure 29. Surface Aqueducts.....	59
Figure 30. Tree Cover and Gas Leaks (and Potential Street Tree Planting Plan).....	61
Figure 31. BioMap2: Core Habitat†	64
Figure 32. Vernal Pools.....	65
Figure 33. Scenic Roads	67
Figure 34. Open Space by Ownership and Level of Protection*	78
Figure 35. Public Open Space (Acres per 1000 Residents)	82
Figure 36. Lands Protected by Deed Restrictions.....	84
Figure 37. Publicly Owned Open Space by Ownership*	87
Figure 38. Playing Fields and Courts.....	97
Figure 39. Playgrounds, Tot Lots, and Dog Parks	98
Figure 40. Aquatic Recreation Facilities	99
Figure 41. Other Recreational Resources	100
Figure 42. Privately Owned Open Space (Lands of Conservation or Recreation Interest)*	120
Figure 43. Community Survey: Open Space Resources in Greatest Demand	134
Figure 44. Community Survey: Importance of Open Space Resources	134
Figure 45. Youth Survey: Desired Open Space Improvements.....	135
Figure 46. Action Plan: Goal 2: Maintenance and Improvement*	156
Figure 47. Action Plan: Goal 3: Accessibility*	158
Figure 48. Action Plan: Goal 4: Minimized Gaps*	160
Figure 49. Action Plan: Goal 5: Connectivity*	163
Figure 50. Action Plan: Goal 6: Protection*	165
Figure 51. Open Space Resource Use in Newton	169
Figure 52. Open Space Resource Quality in Newton.....	169
Figure 53. Priorities for Open Space Protection in Newton	170
Figure 54. Impediments and Inconveniences Accessing Open Space	171
Figure 55. Policies to Support Open Space Acquisition.....	171
Figure 56. In what ways do you use Newton's open space resources?	172
Figure 57. What do you value about Newton's open space resources.....	172
Figure 58. What don't you like about Newton's open space resources?.....	173
Figure 59. How could Newton improve its open spaces?	173
Figure 60. What can Newton do to make Newton more accessible for students who walk/bike?	174
Figure 61. Individual Attendee Values.....	174
Figure 62. Areas of Success for Newton's Open Space Resources.....	175
Figure 63. Top Public Concerns Regarding Open Space Resources in Newton.....	176