



PROVIDENCE TOMORROW
our city ■ our neighborhoods ■ our future

Angel Taveras, Mayor

Department of Planning and Development

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Foreword, Mayor Angel Taveras



It is with great pleasure that I present *Providence Tomorrow: The Comprehensive Plan* for your consideration. The vision and strategies outlined in this plan are the result of a collaborative effort between city government and you, our residents and business owners, to develop a framework for guiding the future growth and development of Providence.

The Interim Comprehensive Plan was approved in December 2007 after a yearlong planning process that included a citywide charrette, held in October 2006. As part of that planning process, the City committed to holding neighborhood charrettes to write neighborhood plans which would then inform changes to the Comprehensive Plan and eventually the Zoning Ordinance. The neighborhood charrettes were held from March 2007 to November 2009 and the neighborhood plans were approved by August 2010. The Department of Planning and Development has undertaken this update to the Comprehensive Plan to incorporate the important ideas and concepts which arose from the neighborhood planning process and to incorporate other planning efforts which have occurred in the past three years. As you read this Plan, you will see that some sections have changed significantly from the 2007 plan while others remain similar or the same to the 2007 plan.

The vision of a sustainable Providence outlined in this plan is ambitious and cannot be achieved by Providence alone. The future sustainability of both Providence and Rhode Island hinges on the ability of state and local governments to recognize our symbiotic relationship and work together to achieve our common goals. For that reason, *Providence Tomorrow* identifies specific strategies that need to be undertaken at the state and regional levels for implementation to proceed.

I would like to thank the residents of Providence; through this process your input has been critical to the development of the Plan. *Providence Tomorrow: The Comprehensive Plan* reflects your love of our great city and your ambition to become even greater. It will serve as our guiding document as we approach a future of great opportunity together.

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A Vision for Providence

As a key part of *Providence Tomorrow*, residents from every neighborhood told us what they like best about our city and what things they would like to change. Themes started to emerge from all of the comments that we received, and these themes have started to form a vision for our city's future. A vision is a broad statement of what we are aspiring to and what we are all collectively working toward.

We envision a Providence that is:

GREEN – with a healthy natural environment and sustainable design

RICH IN CHARACTER – honoring our historic character, producing excellence in design and showcasing our spectacular waterfront location

DYNAMIC – thriving with abundant business and employment opportunities

LIVABLE – with healthy, vibrant, walkable neighborhoods connected to an active downtown, with many transit options

DIVERSE – culturally rich, home to many diverse communities

ACTIVE – with many places for people to recreate and gather

EQUITABLE – with an array of housing and job choices

EFFICIENT – a fiscally sound city, providing high-quality, cost-effective services

ENGAGING – with strong schools, libraries, and civic groups

CREATIVE – where the arts play a key role in city life

A CITY WHERE ALL CAN ENJOY A GREAT QUALITY OF LIFE!

Introduction

Providence Tomorrow is a 20 year Comprehensive Plan that has been updated from the previous interim comprehensive plan to incorporate the extensive public input received during the series of neighborhood and special area charrettes held from 2007 to 2009. The goals, policies, and strategies found throughout *Providence Tomorrow* have been formulated by assessing the changing conditions and needs over the next 20 years.

The State of Rhode Island requires all municipalities to develop a comprehensive plan to guide development decisions and to establish the basis for zoning ordinances and other land use regulation tools. The plan must address community concerns such as housing, parks, transportation, community services and many others. In *Providence Tomorrow* you will find all of the required elements and a few others such as sustainability, the city's built environment, and the arts. You will also find discussions about growth and change and where and how the city plans for future development.

Guiding Principles

The following guiding principles provide the foundation for the goals and objectives in *Providence Tomorrow*, and future initiatives undertaken by the City to implement the Plan.

Sustainability. Sustainable development meets the needs of the present without compromising the ability of future generations to meet their own needs¹. The concept of sustainability is not new; however, global changes such as climate change, rising sea level, and uncertainties in the oil market are placing new emphasis on the importance of moving toward a sustainable community. While Providence cannot change worldwide trends, it can become a leader in promoting environmentally sound practices and encouraging sustainable development patterns that promote walking, biking and transit as alternatives to driving and support efforts to expand agricultural opportunities in the City. Sustainability is about more than just the environment. A sustainable community must meet all of its needs: environmental, economic, and social. The purpose of this Plan is to establish a framework for how to meet all of these needs and achieve long-term sustainability.

Equity. The City of Providence serves as a donor community to the state and the region, providing services without benefit of corresponding property tax revenue. This places even greater strain on the City's ability to provide services to residents, even though the demand is greater here than in other communities. The City also takes on the burden of undesirable land uses such as asphalt processing facilities, salt piles, utilities and contaminated industrial sites that serve the state and region. Furthermore, despite goals to concentrate growth in the urbanized areas of the state, cities remain disadvantaged by higher development costs such as land cost, environmental remediation, and structured parking. Hidden subsidies for Greenfield development such as highway interchange improvements in rural and suburban communities' further increase the competitive disadvantage.

Similar issues of inequity arise at the local level within the city's neighborhoods: poverty, unemployment and affordable housing are concentrated in a few areas rather than dispersed throughout the city, brownfields and

¹ Definition from World Commission on Environment and Development.

environmentally contaminated properties are predominantly located in the poorer neighborhoods of the city, and public access to one of the city's most valuable assets, Narragansett Bay, is limited to one neighborhood on the east side. For Providence to truly be a livable, sustainable city, these inequities must be addressed at all levels.

Creativity. For many years Providence has benefited from substantial federal funding to support city projects, including the river relocation project, the moving of Interstate 195, transportation funds that are dispersed through the State, and the Community Development Block Grant (CDBG). Over the past several years, there has been a significant decline in the amount of federal dollars available for local communities. This trend is mirrored at the state level with continuing budget deficits. The City must continue to pursue its goals even if federal and state governments are unable or unwilling to pay their share. Creativity and innovation will be the hallmarks of this Plan, as the City continues to challenge both itself and others to find new, more efficient ways of providing necessary services and effecting the changes envisioned by this Plan. Creativity also means being innovative when it comes to addressing the challenges that the city faces. This plan is a significant step in that direction.

Collaboration. The success of *Providence Tomorrow* hinges on our ability to build strong partnerships; the City alone cannot implement all of the goals and objectives of this Plan. Collaboration with the State of Rhode Island, neighboring communities, non-profit organizations, private developers, residents and business owners is essential to achieving the vision. For that reason, this Plan gives equal emphasis to matters directly under City control and those controlled by other agencies. It is intended that, through *Providence Tomorrow*, various agencies and levels of government will work together to achieve the objectives city residents and businesses feel are important.

Engagement. Providence has a rich tradition of citizen engagement, starting with those in Roger Williams' original settlement who established a new form of self-government that separated church and state. That tradition continues today with increasing interest from residents in how our city continues to grow and develop. Our challenge in the coming years is to find ways to broaden the community engagement process to include all voices. Providence is a racially and culturally diverse city; for *Providence Tomorrow* to be truly representative of the people of Providence, we must work to ensure that participation in crafting and updating plans is as diverse as the community itself.

Plan Organization. The format and organization of *Providence Tomorrow* has changed significantly from its predecessor, *Providence 2000: The Comprehensive Plan*. The goals and policies of the previous plan were organized by geography: Citywide, Neighborhood, Downtown, and Waterfront. This organization was difficult to use and often resulted in omissions of policies that should have applied to broader areas.

The framework of *Providence Tomorrow* is value based; it is designed to clearly identify goals that are essential to ensuring the city's future in a manner that is easy for everyone to understand. Another key change deals with the relationship of the land use plan to the rest of the plan. Traditionally, land use has been considered the heart and soul of a comprehensive plan, the driving force from which all other goals and policies are crafted.

Providence Tomorrow is based on a new paradigm in which the land use plan becomes a tool to implement the goals and objectives of the Plan in its entirety. Additionally, the Plan utilizes footnotes as a means of connecting various aspects of *Providence Tomorrow* with other related strategies.

Section 1: Building on the Past

This section provides a brief overview of Providence's history and how changing conditions continue to influence the future sustainability of the city. Chapters within this section are: A Rich History and Moving Forward.

Section 2: Shaping the Future

This section establishes the roadmap for achieving the vision of *Providence Tomorrow* by identifying goals, objectives and strategies to address a diverse array of issues that will ultimately determine the City's future. Chapters within this section are: Sustainability and the Environment, The Built Environment, Business and Jobs, Housing, Mobility, Arts and Cultural Resources, People and Public Spaces, Community Services and Facilities, Land Use, and The Waterfront.

Each chapter in this section is organized in the following manner:

Goal: This statement identifies the central purpose of the chapter as well as the overall desired outcome.

Overview: A brief introduction on the chapter topic.

*Changes, Challenges and Opportunities*²: The factors that affect the ability of the City to achieve the described goal, objectives and strategies.

Objectives: The major policies and actions that should be undertaken by the City to realize the vision of *Providence Tomorrow*.

Strategies: General efforts and approaches to be taken by the City to support the objectives, without providing specific directives or a list of tasks. The strategies constitute the implementation plan for each individual element.

While each chapter addresses a different required element of the Plan, they are all interrelated. As such, duplication exists throughout the Plan to ensure that key initiatives are addressed from a variety of perspectives.

Section 3: A Work in Progress

This section provides a series of principles and strategies to guide implementation of *Providence Tomorrow* in a chapter titled *Implementing the Plan*.

Section 4: Appendices

² This section does not appear in the Land Use Element since all of the issues are addressed in the previous chapters.

This section contains details on existing conditions in the city and the planning process used to develop *Providence Tomorrow*. Chapters within this section are: Existing Conditions, Compliance with City and State Regulations, Capital Improvement Program Overview, and Parties Responsible for Implementation.

Section 5: Supplemental Plans³

Supplemental Plans address particular issues in more detail than can be addressed in the Plan itself. The need for these plans is identified in the related objectives and strategies. The following plans have been included as supplements to *Providence Tomorrow*: Strategy for Reducing Risks from Natural Hazards in Providence, Rhode Island (2004) Adult Entertainment Plan (1997)

³ Providence Tomorrow has been designed to minimize the use of supplemental plans. Supplemental plans will only be adopted as determined necessary by the City Plan Commission and the City Council to address issues in more depth.

1. A Rich History

1.1 Providence Yesterday

The Providence area was first settled in 1636 by Roger Williams, and was one of the original Thirteen Colonies. Having been expelled from the Massachusetts Bay Colony for his religious views, Williams sought to resettle elsewhere and secured a title to the land from the local Narragansett natives around this time. Here he gave the city its present name, in honor of "God's merciful Providence" which he believed had aided him in finding the location. Williams cultivated Providence as a refuge for persecuted religious dissenters, as he himself had been exiled from Massachusetts.

Shortly after being settled, much of Providence was burned in King Philip's War, which lasted from 1675 to 1676. Providence's growth was slow during the next quarter-century. The first census of the colony, taken in 1708, recorded 1,446 residents. However, in the second census, taken in 1730, the colony's population had almost tripled to 3,916 people. The Providence territory would become smaller as more and more of the land would become part of different towns, including Scituate and Johnston. The city's slow growth was also due to the rocky, hilly, and heavily wooded land which made farming difficult, as well as the tradition of dissent and independent-mindedness (Rhode Island was the first of the thirteen colonies to declare independence from Great Britain). Residents often fought over land titles, politics, and religion.

Providence is ideally located along the eastern seaboard of the United States. The city developed near a natural harbor, establishing a populated area along one of the earliest key trade routes. Today this network includes the major northeastern cities: Boston, Providence, New York, Philadelphia, Baltimore, and Washington, D.C. This Northeast corridor runs 600 miles long and 30 miles wide, and Providence is well situated within it. The City's location facilitated its development as a transportation center, offering access to both water and overland routes.

Providence developed in a unique way compared to most older cities. Its settlers seemed to have no need for a common square or meetinghouse, and the town grew in a linear fashion, along the east side of the Providence River. The downtown area, typically the core of early development in a community, did not develop for a century after Providence's colonization. Known then as Weybosset Neck, the downtown area to the west of the river was dominated by steep hills, marshy lowlands, and muddy creeks. Not until 1771 was any kind of permanent link created between the east side and downtown.

Demand for a specialized commercial district in Providence increased around the turn of the nineteenth century, as "downtown" started to develop west of the Providence River. Shipping and manufacturing became the key industries around the downtown area, as residential development continued along its fringes. By the end of the 1820's, what we know today as downtown was a thriving area. During this time the jewelry industry grew most significantly of the manufacturing trades, later establishing Providence as the jewelry capital of the region.

Providence's growth and transformation from a small shipping town to the major economic center of the most highly industrialized state in the nation was rapid and dramatic. Providence grew in population from 15,000 people to more than 175,000 at the turn of the twentieth century. Forty years later the City enjoyed its highest

population ever (253,504), as industries and businesses continued to migrate to Providence's active harbor and commercial areas. The next forty years, however, from 1940 to 1980, saw a significant decrease in population, as the "suburbanization" phenomenon negatively impacted most of the older cities throughout New England. Urban renewal schemes and the construction of routes 6/10 and Interstates 95 and 195 in the 1950's and 1960's destroyed a significant part of the city's urban fabric and isolated neighborhoods from each other and from downtown.

Providence reached its lowest population count of the century in 1980, with 156,804 people. In the early 1980's, however, this trend began to reverse and the city has since enjoyed a much touted and celebrated renaissance. According to the 2010 census the city had 178,042 residents making it the third largest New England city behind Boston and Worcester.

1.2 Providence Today

The City of Providence is characterized by a number of outstanding features; its topography and open spaces; its waterways and shoreline; its unique scale in terms of buildings and population; the many respected private and public learning and health institutions; its history and historically significant architecture; and its proximity to a variety of economic, recreational and cultural areas, including the cities of Boston and New York, the ocean and the mountains in northern New England, all adding to the significance of Providence as the capital city of the state of Rhode Island. Providence's population is ethnically and culturally diverse and varied, which creates a unique cultural and educational environment. The city is also home to numerous top hospitals, colleges and universities, a key part of its economy. The city is alive with new development designed to complement existing scale, and along with the ongoing preservation and renovation activities, is helping to continue the tradition that is Providence.

1.3 Planning In Providence

A notable administrative innovation in Providence was the organization of the City Plan Commission in 1913. The group proposed several bold plans for Providence, including the relocation of the railroad station and the removal of the elevated tracks, or "Chinese Wall," that separated Downtown from the State House. Most of its early recommendations such as the 1926 Whitten Thorofare Plan, a proposal to relieve traffic congestion throughout the metropolitan area, and others extending to education, public health, and industrial development, went unheeded. The city's first comprehensive zoning ordinance was written and enacted, on the commission's recommendation, in 1923.

In 1944, there was a significant reorganization of the City Plan Commission. In 1945, the new Commission issued the first of many publications over the next two decades, the "Future Population of Providence." The plan foresaw the challenges that Providence would face in the coming years. The Commission wrote that "urban areas are changing in character from one thickly populated central city, to a group of satellite cities around a central city." The physical saturation of older cities with the slow decline of age, coupled with the proliferation of the automobile, made the exodus to suburbia a national phenomenon.

Between 1946 and 1953, the City Plan Commission produced a master plan which was published as a series of separate reports. Through the 1950's the Commission worked on a number of other reports, culminating in the

“College Hill Demonstration Study of Historic Area Renewal.” This report was the basis for historic preservation and local historic districts in Providence. In the early 1960’s the Commission published “Downtown Providence 1970”; out of this plan grew the Capital Center project.

Through the 1960’s and into the 1970’s, the Commission continued to publish master plan reports dealing with specific issues. Of these, "Interface: Providence" was the most notable. It emerged from a RISD architecture studio class that envisioned bold, extensive changes to the entire downtown area by daylighting the river system. Combined with the "Capital Center Project Development Plan," the document set the stage for the railroad relocation and Waterplace Park project that defined the city's transformation in the early 1990's. And in the mid-1970’s, neighborhood planning began in the city with the refinement of neighborhood boundaries, the preparation of a citywide neighborhood analysis and the completion of a series of individual neighborhood plans. In the 1980’s, the Commission prepared an update of the 1964 Master Plan and a series of neighborhood plans. In addition to the neighborhood plans, several plans dealing with preservation on a neighborhood level were prepared, as well as a revitalization plan for downtown and the port area.

In 1992, the Old Harbor Plan proposed shifting Interstate 195 away from downtown to the south, opening up developable land between the jewelry district and downtown. The plan envisioned reconnecting downtown streets to the waterfront and created a design vision for new development. By the time this plan was issued, much of the river relocation was complete.

In 1988, the State passed the innovative Rhode Island Comprehensive Planning and Land Use Act, which requires each municipality to develop a comprehensive plan and requires zoning regulations to conform to the plan. In 1989, the City began to develop its comprehensive plan, Providence 2000: The Comprehensive Plan, which was adopted in 1993 and would serve as the city's guiding document for the next 15 years.

2. Moving Forward

Providence is a vastly different city than it was during the writing of Providence 2000: The Comprehensive Plan. In 1990, Providence was just starting to recover from decades of population decline. While small increases in population had been recorded, best expectations were for the city to remain stable. While the comprehensive plan included bold strokes to change the physical environment, such as moving rivers and highways, it did not anticipate continued growth in population and increasing investment and development pressures. *Providence Tomorrow* builds on the concepts and ideals contained in the original comprehensive plan and expands them to address the environment in which we now live.

To understand the goals and objectives established in this Plan, it is necessary to understand the events and forces that continue to influence the city. This chapter presents an overview of the wide variety of changes that have occurred in the city since 1990, the challenges that we must overcome to make the vision for *Providence Tomorrow* a reality, and opportunities on which to capitalize. Many of these issues are not unique to Providence: the continued decrease in federal funding, the impact of homeland security, and the multitude of concerns that result from global warming, such as sea level rise and a changing climate. However, it is how we choose to respond to these obstacles that will determine our ultimate success.

2.1 Changes

People. Providence continues to be a growing city. Between 2000 and 2010, the city's population increased by approximately two and one half percent, continuing to reverse a trend of population decline that started in 1990. Much of this increase can be attributed to the growing Latin American populations. The non-Hispanic white population makes up less than 40 percent of the city's population. This trend continues to strengthen the city's rich history of cultural diversity.

While population is increasing, demographics are also changing. Since 2000, the median income for Providence families has increased 20 percent, reversing a decline from 1990 to 2000, however 26.3 percent of the city's population continues to live below poverty level, and over 35 percent of children live below poverty level. The impact of poverty on Providence families is particularly strong in the housing market. Despite the decline in housing prices due to the recession, many Providence residents still pay more than 30 percent of their income in rent.

2.2 Challenges

Financial Constraints. Providence, like all communities in Rhode Island and across the nation, is affected by the decreases in federal and state funding. Smaller funding allocations make it more difficult for the City to provide adequate services to its residents and businesses, placing even more burdens on the already stretched property tax system.

This decrease in funding is further compounded by Providence's role as a donor community to the rest of the state and region. Providence is the largest community in Rhode Island, home to a multitude of state agencies, colleges and universities, hospitals and service agencies. However, these facilities do not serve Providence

exclusively, they serve the entire state. Nevertheless Providence alone bears the financial burden of these facilities that don't pay property taxes, leading to higher property tax rates for city residents and businesses. Additionally, Providence is also home to many locally undesirable land uses (lulus) such as oil and gas tanks, salt piles, scrap metal, and asphalt batch plants that provide essential services to the state and region, but are harsh on the environment and generate little in property tax revenue. All of these financial challenges pose significant obstacles to providing services to Providence residents, a demand that is greater than other areas of the state due to higher poverty levels.

Limited area for Growth. Providence is a compact city with limited land area available for new development. Unlike many U.S. cities that are able to annex land to increase their area, Providence has a fixed land area of 18 square miles. Approximately a third of the land area is stable residential neighborhoods where significant change and growth is unlikely and unwanted. In addition, a large percentage of the city's land area (over 46%) is taken up with land uses that do not generate property taxes such as schools, churches, hospitals, state offices and public rights of way. What remains is a small area of available land for new growth and development to generate new revenue for the city. It is imperative that this resource be utilized efficiently and effectively. Growth is essential for the city's economic health and sustainability, as the City is dependent on property taxes for income. Land use policy and tax policy are intricately linked, and must both be considered in this plan. Some of the best opportunities for growth occur through reuse of former industrial properties. Like many northeastern cities, Providence was an industrial giant during the 19th century. Remnants of this history remain in the form of historic mill buildings ripe for reuse and in a much more problematic form of pollutants and contaminants underground. Many of the vacant and underutilized parcels in the city must be remediated to make the land safe for redevelopment. This poses a financial challenge for many property owners, limiting the type of development that can recoup the cleanup costs for these properties. Incentives such as density and height bonuses may be needed to offset the increased development costs for these properties.

Evolving State Priorities and Regulatory Changes. Like all communities in the state, Providence is subject to state regulations. However, many of these regulations were drafted based on a suburban and rural model, which often places Providence at a disadvantage. For example, the Rhode Island Department of Environmental Management Open Space grants have a minimum threshold of 5 acres for a property to be considered. Furthermore, changes to laws such as the state historic tax credit, will affect Providence disproportionately as the majority of development occurring from the credit is in Providence. Successful implementation of this plan will require collaboration with state agencies to ensure a more urban view.

Housing Market. The precipitous decline of the housing market has led to significantly lower property prices but it has also made it far more difficult for buyers to enter the housing market due to tighter lending standards. The high number of properties on the market and the vast number of foreclosures have also significantly depressed the housing market. It is anticipated that it will take close to a decade for the housing market to fully recover from its decline.

Schools. Providence Public Schools face many challenges in offering a high quality education to Providence children including funding, outdated facilities and the associated issues that come with providing education in a city where 40% of children live below the poverty level and 48% do not speak English as a first language. The

ability of the City to overcome this challenge will directly impact whether Providence continues to attract and retain families.

Code Enforcement (Zoning, Building, Housing). The architectural and urban character of Providence neighborhoods is one of the city's most prized assets. Enforcement of building and zoning codes continue to be significant challenges facing the city. The ability to provide adequate enforcement is critical to maintaining what makes the City special.

2.3 Opportunities

Location. Providence is strategically located at the head of Narragansett Bay in the heart of the Eastern Seaboard. The city's size provides clear alternatives to those looking for an active urban lifestyle without the big city problems that come with living and working in Boston or New York. Furthermore, Providence is just beginning to capitalize on its waterfront location. The moving of the rivers downtown and the subsequent creation of Waterfire draws thousands of tourists to the city each summer. Restoring public access to Narragansett Bay by transforming underused industrial areas into mixed-use districts with jobs and housing opportunities will reinforce the city's prominent waterfront location. The creation of view corridors, greenways and other public open spaces will further complement all of the efforts that have been made to improve the water quality of the Bay and restore one of Providence's greatest assets to all residents.

Land Use 2025 and Smart Growth. Providence has the opportunity to benefit from the goals and policies in the Rhode Island state land use plan, Land Use 2025. The plan calls for the concentration of growth in existing urban centers, maximizing state investment in areas with existing infrastructure and promoting efficient development through infill, redevelopment, and higher densities. If state actions and investments are aligned with these goals, Providence, as the state's urban center, will benefit. Considering the regional context of which Providence is a part, Quonset Point in North Kingstown is an asset and opportunity for Providence. Quonset Point is uniquely situated to accommodate water dependent uses, and utility companies requiring large amounts of land. The state and region should consider the best locations for these uses and begin to distribute them equitably beyond the borders of Providence.

New Development. The relocation of Interstate 195 makes Providence safer and easier to travel. It will also allow for the reconnection of the historic street grid in downtown, as well as opening up new areas of the city for redevelopment. This area is an opportunity for growth and development in a planned way that creates views and public access to the water, public walkways, connected greenways, and linkages to other green spaces and adjacent neighborhoods.

Institutions. The seven universities and seven hospitals in the city are economic generators as employment centers. Hospitals and colleges also have unique characteristics that add value above and beyond creating jobs. These institutions are constantly conducting research and imparting technical expertise to their employees and students. In an era increasingly dependent on knowledge-based industries, these institutions contribute to a more experienced and educated workforce, a resource desirable in all cities. Furthermore, their economic activities foster an entrepreneurial spirit and attract additional economic growth. Providence benefits equally

from the institutions' contributions to the cultural and creative economy, widely recognized as a principal source of both jobs and visitor expenditures, critical to the city's health and quality of life.

Sustainability. Providence has the opportunity to be a pioneer as a green, sustainable city. Green principles that can be applied to the betterment of the City include energy efficiency; development and use of alternative energy sources; reduction, reuse and recycling of materials; expansion of the tree canopy; and protection and improvement of water quality in rivers, streams, ponds and the bay. Specific measures include “green” development that employs features such as green roofs and rain gardens; implementation of the Department of Public Works’ new urban composting program; improved recycling efforts; increased tree planting citywide; encouraging the development of businesses that produce products that will further the goal of environmental sustainability; and expansion and increased use of mass transit to reduce air pollution in the city. Implementation of these principles and measures will significantly improve our environment and quality of life.

Citizen Involvement. Providence has an active and engaged citizenry who are very progressive in their ideas and attitudes. By continuing to engage residents in dialogue on the current state and future of the city, Providence can become an even better place to live and work.

Livability. Providence is a place people want to live and work, drawn by our diverse housing stock, variety of jobs, and thriving arts and cultural scene.

3. Sustainability and the Environment

GOAL 1: Protect and preserve the natural environment and strive to make Providence a “green”, sustainable city.

The City of Providence is highly developed, with well-established infrastructure and only a small amount of vacant developable land (though the relocation of I-195 has opened up additional land). Most ongoing and anticipated development activity can be described as infill, restoration, reuse, or redevelopment. In this context, and within the broader context of climate change, sea

level rise and diminishing natural resources, the goal of making Providence a "green" city is both a necessity and a tremendous challenge. Measures requiring new and concerted emphasis include: energy efficiency and development of alternative energy sources; water quality protection and conservation; emissions reduction; ecological restoration and bank stabilization; stormwater management; flood mitigation; habitat protection and reestablishment of fish runs; recycling, reuse and composting; community gardens and urban agriculture; distribution of green space throughout the city, and environmentally sustainable design.

Building on the green focus of the comprehensive plan as approved in 2007, subsequent neighborhood plans, and the City's Greenprint report on strategies to address the effects of climate change, this document is a dynamic plan with an evolving emphasis on sustainability. Continued attention to environmental justice is needed to achieve greater equity in the distribution of environmental burdens and benefits citywide.

The plan also includes strategies for increasing the tree canopy coverage throughout Providence to benefit the city through cleaner air, lower summer temperatures and stormwater retention. Participation in the ICLEI Cities for Climate Protection program (CCP) demonstrates the City's commitment to reducing greenhouse gas emissions.

This plan also places additional emphasis on strategies for protecting surface waters in the harbor and rivers through local and regionally cooperative action. This emphasis reflects the following documents that have been or are currently being revised: new local flood zone regulations reflecting more stringent FEMA standards, the revised state stormwater management manual, and the Metro Bay Special Area Management Plan. A harbor management plan will be drafted as well. In addition, the City recognizes the need for maintenance dredging of the lower Woonasquatucket River and better flood management along all rivers, and will continue to pursue grants and other funding sources to address these needs.

3.1 Changes, Challenges & Opportunities

Changes

Environmental Sustainability as a Priority. The City of Providence embraces the commitment to becoming a green city, pledging to lead by example and to incorporate standards for energy efficiency and emissions reduction; to promote the use of green materials; to support community gardens and small-scale agriculture in City parks and elsewhere; and to strive to remove compostable materials from the solid waste stream and facilitate the use of revitalized soil for gardening, small-scale agriculture and bank stabilization.

U.S. Mayor’s Climate Protection Agreement. By signing this important pact, the City agreed to advance the goals of the Kyoto Treaty and designate Providence a “Cool City” in accordance with a Sierra Club initiative to fight global warming at the local level.

New England Cities Project. Providence was invited to participate in this initiative, joining nine other cities in efforts to curb greenhouse gas emissions. This is a collaborative effort to develop projects and policies to reduce emissions and demonstrate commitment to environmental sustainability.

Light Sensors. In 2005, the City installed a light sensor system at the Public Safety Complex to minimize energy consumption.

Energy Educators. The Providence School Department hired two energy educators with the goal of reducing electricity, gas and oil consumption by 15-30%. Their duties include performing routine energy audits, recommending adjustments, reporting results and communicating with City personnel.

Energy Star/LED. City purchases for municipal buildings and City-funded affordable housing must be Energy Star approved, and City funded housing must use LED lights, thermal pane windows, and Energy Star appliances and mechanicals. In addition, LED lights have replaced incandescent lights at City Hall and the City is developing a plan for disposal of Compact Fluorescent Light Bulbs (CFLs). Incandescent traffic lights have also been replaced with LED lights; this initiative has resulted in \$100,000 in electricity rebates. Incandescent “EXIT” signs are also being systematically replaced by LED lights.

Solar Parking Meters. Starting in 2005, the City installed 15 solar-powered multi-space parking meters.

Temperature Adjustment Program. This City initiated this program in City Hall and the Public Safety Complex, adjusting temperatures according to inside and outside thermostat readings.

Electric Vehicles. In 2008 the Police Department conducted a three-month trial of all-electric motorcycles that can go 60 miles on a single charge. Project Get Ready RI is a not-for-profit initiative preparing Rhode Island to be the first northeast state to pioneer the adoption of efficient, low-carbon vehicles.

Hybrid and Down-Sized Vehicles. Providence Water Supply has purchased a hybrid vehicle, the Providence Economic Development Partnership (PEDP) has a hybrid vehicle, and other City fleets have been downsized from

six to four cylinders for meter and inspection vehicles and from eight to six cylinders for Police vehicles. This has resulted in substantial gas mileage gains. Providence Water also uses GPS navigation in all vehicles to monitor speed and idling time and has instituted a policy stating that no vehicle shall idle for more than five minutes at a single location unless absolutely necessary.

Green Schools. The City embraced green construction in building the new Hanley Career and Technology High School and in the renovation of Central High School and Nathan Bishop Middle School. These accomplishments provide the backdrop for all future school construction and major renovations, complying with the Northeast Collaborative for High Performance Schools Protocol (CHPS). These standards are similar to LEED but predate formal establishment of LEED K-12 standards. The protocol includes provisions for alternative energy systems, reduced water consumption, zero water runoff, building reuse, 50% recycling of construction debris, and high efficiency boilers and fixtures.

Updated Water Infrastructure and Maintenance. Providence Water has removed underground fuel storage tanks at several sites, replacing them with above-ground tanks at two sites, and taken other steps to save energy and improve safety. In addition, accumulated sludge from two lagoons has been removed, dewatered and disposed of, and solar gauges have been installed on above-ground storage tanks. Since 1996 some 37,000 feet of water main have been replaced at 88 locations, substantially reducing water waste.

Water Retrofits. Providence Water began its Residential Retrofit Program in 1989, installing water-saving devices that conserve water and reduce strain on the sewer system. Retrofit kits also educate homeowners on the benefits of water conservation.

Sustainable Parks. Providence parks emphasis on sustainability includes tree-planting and maintenance as well as seven new community gardens (and counting).

Recycling and Waste Management/Green Up Providence. The City has stepped up efforts to improve recycling rates and better manage waste through several recent initiatives. These include hiring a full-time recycling coordinator, distributing a Big Green Can to each household, expanding community outreach efforts, updating the Recycling Office website, and introducing a recycling program in the public schools. In addition, DPW received a grant to fund recycling bins for large events to recycle bottles and cans. Efforts are also being made to reduce Styrofoam and corrugated cardboard waste through recycling and to investigate ways to eliminate the use of Styrofoam in Providence schools. Following on the success of the Big Green Can for residential waste, households are now required to put out both blue (bottles and cans) and green (paper waste) recycling containers as a requirement for trash collection. The City was able to meet its initial goal of doubling the household recycling rate eight months ahead of schedule, resulting in cleaner streets and significant savings to the City.

EECBG. Through the Energy Efficiency and Conservation Block Grant program (EECBG), the City of Providence has initiated the Residential Energy Efficiency Pilot Loan Program. Through this program, up to \$9,500 in loans is available to qualifying single-family homeowners, and up to \$19,500 to owner-occupants of buildings with three or more units. Applicants must meet income and credit standards, and may use loans to reduce net energy use

as identified through energy audits. Eligible measures may entail retrofitting and replacement, including sealing and insulation, boilers and furnaces, and use of specified Energy Star appliances.

Green Dining Network. Through the Green Dining Network, used cooking oil is collected from restaurants to be converted into clean biodiesel.

Challenges

ICLEI. As a member of the International Council for Local Environmental Initiatives' Cities for Climate Protection campaign (CCP), Providence must reach five essential milestones. These include a baseline emissions inventory and forecast, and the adoption of an emissions reduction action plan.

Solid Waste. The City must address solid waste reduction and handling, mindful of the capacity limitations of the Central Landfill. Waste reduction, including removal of food waste from the waste stream through composting, will require ongoing innovation, diligence and cooperation.

Funding for Open Space. Federal and state budget demands limit the amount of public funding available for open space acquisition. Further, state program guidelines often do not adequately recognize the unique challenges faced in urban environments. For example, while the State may grant waivers of minimum size requirements for open space grants, thresholds should be adjusted to recognize unique urban constraints and uses. Even very small parcels can provide significant opportunities for agriculture and passive outdoor recreation in urban neighborhoods.

Rivers, Streams and Floodplains. Streams and floodplains must be stabilized, cleaned up and maintained to provide protection from erosion and flooding. Where possible, banks should be revegetated. Recent storm events, including, most notably, the March 2010 floods, have had significant impacts on businesses, residences and infrastructure. Areas with repetitive losses from flooding include Branch Avenue (mostly industrial properties), Charles Street (industrial properties and one residential apartment), Governor Street (commercial property), India Street (industrial property), Melrose Street (industrial property), Manton Avenue and Valley Street. In addition, parts of the Olneyville and Valley neighborhoods have been hard hit, particularly around Eagle Square, the Atwells Avenue Bridge and Tuxedo Avenue. The City must evaluate and address issues, conditions and solutions to mitigate flood impacts, with an emphasis on green solutions wherever practicable. The ongoing Army Corps of Engineers Flood Reconnaissance Study of the Woonasquatucket River should help frame feasibility and implementation efforts and funding sources should continue to be sought by DPD, PEMA, DPW, and other departments. Funding should also be sought for public outreach and education efforts relating to non-point source pollution and stormwater.

Wind Turbines. Wind turbines have been proposed in various locations in Providence, including one at Fields Point on Narragansett Bay Commission property. The city must determine whether there are appropriate locations for wind turbines within the City and determine how to regulate their construction and operation should they be permitted.

Opportunities

I-195 Relocation. The relocation of I-195 provides the opportunity for needed open space, increased waterfront access and awareness, and the introduction of land that can be developed to high standards of energy efficiency and environmental sustainability.

Composting. Efforts are currently underway to develop composting programs. The City should continue to support pilot programs, enact any necessary regulatory changes, and identify potential sites for operation.

Alternative Fuel Vehicles. Continue City support of the development of electric-powered and other alternative vehicles and fueling stations.

Bicycle Infrastructure and Amenities. The City should continue to develop the bike lane network and related amenities. The City should seek grant funding for a full update of the Providence Bicycle Plan, written in 2000 and now out of date.

3.2 Objectives and Strategies

The objectives and strategies on the following pages correspond with strategies outlined in Land Use 2025, Element 121 of the State Land Use Plan.

OBJECTIVE SE1: CLIMATE PROTECTION AND AIR QUALITY

Implement measures to mitigate the effects of global warming and sea level rise and improve air quality.

Strategies:

- A. Conduct a baseline study of greenhouse gas emissions and identify strategies to reduce emissions in accordance with City support of ICLEI (International Council for Local Environmental Initiatives).
- B. Establish a reduction target for global warming pollutants in accordance with ICLEI.
- C. Develop a local Climate Action Plan in accordance with ICLEI.
- D. Implement the Climate Action Plan.
- E. Measure, verify and report performance to ensure the integrity and accuracy of the City's efforts.
- F. Reduce vehicle-generated pollution by expanding the use of transit and other alternatives, such as biking and walking, supporting telecommuting and home-based employment, expanding the use of alternative fuels, and identifying ways to improve traffic circulation.⁴
- G. Review and amend City policies and regulations to promote and increase green space, landscaping, trees, and natural vegetative areas, and reduce paved areas to mitigate the heat island effect.
- H. Adopt measures for climate protection in the following areas: forestry, land use management, trip reduction and transit development, traffic signal synchronization, development and use of "green" energy, energy efficiency, green building, waste reduction and recycling, and education.
- I. Study using dedicated revenue generation mechanisms such as excise taxes to support local shares of transit and other transportation-related improvements that reduce greenhouse gas emissions.

⁴ See Strategies M1(A), M1(B), M2(A)

- J. Ensure that industrial, biomedical and other scientific research facilities conform to federal and state environmental, health and safety regulations.
- K. Reduce the amount of methane generated as a result of food waste being delivered to the Central Landfill by developing a comprehensive and sustainable composting system.

OBJECTIVE SE2: NATURE AND THE CITY

Promote environmental sustainability and the stewardship of natural resources.

Strategies:

- A. Restore and protect environmentally significant and sensitive areas, including wetlands and conservation areas by: ⁵
 - 1. Promoting the restoration of all rivers as fishable and swimmable.⁶
 - 2. Evaluating, promoting and supporting all appropriate CSO projects of the Narragansett Bay Commission.
 - 3. Developing incentives for buffer restoration on existing properties.

- B. Maintain and expand the urban forest and achieve 25% tree canopy citywide by 2020 by:
 - 1. Preparing and adopting a tree management plan that addresses tree planting, tree health and maintenance.
 - 2. Maintaining and improving the health of the existing street tree inventory by developing systematic strategies for removing dead trees and stumps; tree pruning; watering, mulching and pruning of young trees; and expanding the "Tree Rescue" program for trees threatened by undersized tree pits, grates and bricks.
 - 3. Promoting (in consultation with the City Forester), a significant increase in the overall canopy coverage provided by trees citywide, including the retention, maintenance and planting of trees on both private and public property.
 - 4. Producing and publishing design standards for tree planting and tree protection for use in both public and private street tree planting efforts.
 - 5. Implementing community outreach programs to increase the stewardship and public appreciation of the benefits of street trees.
 - 6. Increasing and supplementing the city funding of planting programs through partnerships with businesses and institutions.
 - 7. Developing and continuously updating a computerized inventory of street trees.
 - 8. Developing stronger enforcement strategies for protecting street trees from private development, sidewalk and road construction, and public utilities.
 - 9. Protecting and maintaining heritage trees and other large trees in the city that are historically or culturally significant and/or valued for the canopy coverage they provide.
 - 10. Diversifying tree species in the urban forest to provide resilience against potential pests and diseases.
 - 11. Promoting tree planting citywide in an equitable manner.

⁵ See Strategies LU6(D) and LU8(F)

⁶ See Strategy W2(E)

12. Planting 40,000 trees citywide by 2020 through a public-private planting campaign and establish and fund an annual Parks Department tree-planting goal.
 13. Establish a process for applying carbon credits for tree-planting based on methodology that have been developed but not yet applied by any municipality.
- C. Improve the water quality and natural functions of the harbor, rivers, ponds, streams, and other water bodies, and protect the natural integrity of adjacent land areas by:
1. Protecting shore areas, waterways and water bodies from the harmful effects of development through effective stormwater management measures and implementation of an urban greenways policy.⁷
 2. Encouraging the establishment of connected greenways along the edge of all water bodies. (See Map 11.2 “Future Land Use”).⁸
 3. Improving storm water management and increasing the amount of permeable surface citywide by reviewing, amending and enforcing city policies and regulations in accordance with the Rhode Island Stormwater Design and Installation Standards Manual and encouraging the use of vegetated areas, natural drainage patterns, on-site infiltration, and permeable paving materials when practicable.
 4. Decreasing the existence and creation of unnecessary point-pollution sources, through the Rhode Island Pollution Discharge Elimination System (RIPDES) and non-point source pollution through Nonpoint Source Funding (DEM) and public outreach. The federal Storm Water Phase II rules require MS4s (Municipal Storm sewer systems) to obtain permits and establish storm water management programs to improve water bodies by reducing the quantity of pollutants entering storm sewer systems during storm events. To fulfill stormwater education directives aimed at changing behaviors to reduce pollutants and the volume of runoff, the City should partner with institutions and employ available resources, such as those available through NEMO (Nonpoint Education for Municipal Officials). Proposed state education and involvement efforts require City partnerships to address residents, business and industry; institutions, municipal officials; contractors; and developers. In addition to best management practices (BMPs) for construction sites and businesses, suggested actions include use of rain barrels, improved pet waste pickup and appropriate lawn care practices. Target audiences include elementary school children, based on the principle of educating youth to effect long-term behavior change and influence head of households.
 5. Developing and maintaining an approved harbor management plan in accordance with CRMC guidelines to address the use of the water sheet, particularly no-wake zones and limits on commercial traffic on the Providence River north of the Hurricane Barrier and on the Seekonk River, and potential mooring fields for small recreational vessels.
 6. Addressing dredging needs and the impacts of development in neighboring municipalities on riparian flow and water quality.
 7. Continuing to seek funding sources for dredging projects, particularly in the Woonasquatucket and Providence rivers.
 8. Protecting and maintaining floodplains and undertaking stream stabilization efforts. Wherever practicable, employing green flood control measures, retaining and planting native vegetation and eliminating unnecessary impervious surface.

⁷ See Strategies W2(A)1-W2(A)3 and W10(A)

⁸ See Strategies PS3(B), LU6(B) and LU6(I)

9. Updating floodplain management activities to exceed minimum thresholds established by the National Flood Insurance Program (NFIP), and consider applying for certification under the Community Rating System (CRS) to reduce flood insurance premiums. In addition, plans for mitigation and recovery must be followed, under the direction of the Providence Emergency Management Agency (PEMA). The City must ensure stringent enforcement of building codes, flood-proofing requirements and other safety measures; establish short-and long-term goals, objectives and strategies to reduce vulnerability to storm hazards; conduct community outreach efforts; and oversee other components of the mitigation and recovery plans.
 10. Encouraging industrial and commercial water conservation and improved stormwater management.
 11. Evaluating and planning for flood mitigation and stormwater management in areas most heavily and repetitively affected by flooding, such as along the Woonasquatucket River.
 12. Monitoring the flood vulnerability of areas in the port and working waterfront areas adjacent to Allens Avenue and evaluating potential water contamination threats using available resources such as FEMA Risk MAP.
 13. Participating in Local Emergency Planning Committee (LEPC) meetings and activities (by DPD staff).
 14. Actively seeking grants and other funding sources for all of the above and encouraging partnerships among City departments and community non-profits.
- D. Synchronize, maintain and improve the enforcement of city and state environmental laws and regulations.
- E. Establish guidelines and amend regulations as necessary to promote appropriately-scaled, hand-tended agriculture, including community gardens as a temporary or long-term use of surplus or temporarily vacant City property and RIDOT property, providing neighborhood access to healthy, affordable foodstuffs and promoting stewardship and remediation of land.⁹
- G. Protect public health, urban agriculture and community gardening by eliminating open dumpsters and by composting food waste.
- H. Establish a goal that every Providence resident live within a ten-minute walk of a community garden.
- I. Promote CSA (community-supported agriculture) co-ops and the health benefits of local produce.
- J. Investigate innovative solutions to provide accessible and affordable water service for community gardening as needed.
- K. Support “vertical farming” whereby existing buildings and other structures can be used for growing.

OBJECTIVE SE3: RESOURCE CONSERVATION

Conserve resources, including water, energy and materials, and plan for the long-term needs of the City and region.

Strategies:

- A. Conserve energy, reduce the consumption of fossil fuels, and develop and implement new energy sources by:
1. Purchasing 20 percent of City government energy from clean, renewable sources in the short term.

⁹ See Strategies BJ5(B)4, LU6(G) and LU8(H)

2. Continuing to procure fuel efficient vehicles.
3. Taking steps to reduce vehicle emissions caused by excessive idling (10 seconds is accepted as the break-even point). Steps include public education on the detrimental effects of idling, the fallacy that idling can help save gas (as opposed to restarting) and consideration of an anti-idling ordinance. The City is also committed to continuing to prioritize fuel-efficient and hybrid technology vehicles for the City fleet.
4. Working to make City buildings more energy-efficient.
5. Adopting policies that reduce the City's use of materials, increase the percentage of materials recycled, promote the purchase of recycled materials, and encourage source reduction in packaging.
6. Continuing to actively participate in and meet the goals and milestones of the U.S. Mayors Climate Protection Agreement, ICLEI Cities for Climate Protection Campaign, the New England Cities project, and City energy-efficiency initiatives (including Energy Star purchases, LED use and the Temperature Adjustment Program).
7. Making green purchasing a City policy. This includes procurement of cleaning supplies, paper and services. The City has already converted to use of 100% post-consumer material for bathroom tissue and paper towels. The policy also calls for use of recycled paper in office supplies and other paper products. When the Custodian, Maintenance and Grounds contracts are renewed, green products will be mandated as well.
8. Promoting energy-efficient technologies and the use of renewable energy sources (including solar, hydro, wind, and others) in the home and workplace.¹⁰
9. Identifying opportunities for local renewable energy sources, using a strict financial returns test, including mapping wind and solar locations and assessing solar heating/hot water and electricity opportunities at public schools.¹¹
10. Developing public awareness and incentive programs for energy-efficient construction and rehabilitation.
11. Prioritizing multi-use of City space to maximize finite available space, and continuing to purchase Renewable Energy Credits to offset carbon emissions and support the clean energy market.
12. Supporting Providence Water Supply's efforts to assess the potential construction and operation of a hydroelectric generator.
13. Strengthening the cooperative efforts of colleges, hospitals and other institutions to decrease energy consumption, focused by the establishment of the Providence Energy Management Planning Board.
14. Developing a consortium to continue to develop renewable energy.
15. Continuing to reduce municipal energy demand through participation on the Northeast Energy Efficiency Council's "Making Utility Information Actionable" project; and the State Electronics Challenge (SEC) program of the Northeast Recycling Council ("greening" the management of computer resources, including a citywide computer shutdown policy); and by setting a goal for the reduction of municipal energy consumption.
16. Establish a Residential Energy Efficiency Revolving Loan Fund, a Municipal Revolving Energy Fund and, as a longer-term measure, a Clean Energy Choice Fund.

¹⁰ See Strategy CS8(E)

¹¹ See Strategy CS8(E)

- B. Work with partners to develop public and business education and awareness programs focusing on waste reduction, recycling, energy conservation, and renewable energy sources; stormwater management; and use of "green" materials. Programs could include:
1. A "green" rating system for local businesses.
 2. Neighborhood-based education campaigns.
 3. Educational programs and tools for people of all ages, including elementary school children.
 4. Encouraging institutions, including colleges, private schools and hospitals, to increase their energy efficiency and use of alternative energy sources; to increase materials recycling levels; and to seek to develop viable composting programs.
- C. Promote on-site renewable energy and energy conservation measures for city-owned property by:
1. Implementing local wind power initiative by taking advantage of City-owned parcels that can support wind turbines to advance the City's green agenda while providing a sustainable revenue stream.
 2. Investigating ways to generate power from methane generated by any potential municipal transfer station (as suggested in Greenprint Providence).
 3. Continuing to ensure that all municipal building purchases and city-funded affordable housing are Energy Star approved.
 4. Expanding the Temperature Adjustment Program, currently operating in City Hall and the Public Safety Complex, to other city-owned properties
 5. Continuing to install solar powered lighting systems in public parks
- D. Protect the City water supply and promote its importance by:
1. Conserving water through technological innovation and efficiency of use.¹²
 2. Updating landscape regulations to reduce water use.
 3. Achieving steady per capita water-use reduction over the next 20 years.
 4. Supporting the Providence Water Supply Board in its efforts to protect the watershed lands of the Scituate Reservoir, and developing a water protection policy plan.¹³
 5. Phasing out bottled water use in municipal buildings and promoting the importance of municipal water.
- E. Reduce the amount of solid waste generated by residents, businesses and institutions that is delivered to the Central Landfill by:
1. Raising public awareness of the benefits of recycling and reuse, use of recycled materials, and composting.
 2. Maintaining and supporting existing and proposed recycling and composting programs, supporting the establishment of a sustainable regional or municipal composting facility, and amending regulations as necessary, to support composting programs.
 3. Increasing recycling compliance through outreach and improved collection management, particularly for commercial establishments and apartment buildings.
 4. Encouraging the reuse and recycling of demolition and construction debris.
 5. Evaluating the benefits of transitioning to unit-based pricing (UBP), charging residents for trash by the unit. This type of system generally offers free recycling, increasing recycling rates and reducing the amount of waste generated while reducing overall costs to taxpayers

¹² See Strategy CS4(C)3

¹³ See Strategies CS4(A)1-CS4(A)5

6. Continuing to strengthen enforcement of the recycling ordinance, issuing warnings and citations to residents who fail to comply.
7. Setting recycling targets for institutions, including hospitals and universities, and establish rewards and penalties for participation.
8. Requiring recycling bins and raising awareness of the importance of recycling at all City-sponsored events.
9. Reducing the amount of paper used and increasing recycling rates in City offices.

OBJECTIVE SE4: SUSTAINABILITY AND THE BUILT ENVIRONMENT

Promote and implement environmentally sustainable design and development.

Strategies:

- A. Lead by example in adopting policies that further the use of renewable energy resources and develop green municipal buildings, implement LEED certification incentives citywide and improve local development review to minimize environmental impacts and further sustainability.¹⁴
- B. Encourage the use of LEED-based or similar standards for building construction.¹⁵
- C. Promote the use of "green" technology and practices in industry, business and construction.
- D. Develop design criteria that maximize energy conservation.
- E. Encourage the use of recycled materials in the construction of buildings.
- F. Encourage the reuse of existing buildings.
- G. Promote the long-term benefits of energy-efficient rehabilitation and new construction and consider the use of appropriate incentives.
- H. Promote overnight on-street parking as a key factor in helping to minimize the paving of yards and improving stormwater management.
- I. Educate residents and property owners on the benefits of rain barrels, specifically encouraging the use of Narragansett Bay Commission rain barrels to collect rain water and prevent sewer overflow.
- J. Encourage the "depaving" of properties through the education and enforcement of existing paving limits.

OBJECTIVE SE5: PUBLIC AWARENESS

Promote environmental sustainability by educating and encouraging residents and business owners and managers to adopt environmentally sound practices.

Strategies:

- A. Lead by example by adopting environmentally conscious practices for City government.
- B. Encourage and, when practicable, provide incentives to recycle, conserve water and energy, use renewable resources and alternative sources of energy, and use public transit and alternative modes of transportation.

¹⁴ See Strategy H5(A)

¹⁵ See Strategy H5(B)

OBJECTIVE SE6: BROWNFIELDS

Promote neighborhood sustainability by mitigating the impacts of environmentally compromised lands such as brownfields.

Strategies:

- A. Work with state, private and non-profit entities to facilitate the assessment, remediation and environmentally sustainable development of Brownfield sites, including coastal sites.
- B. Identify environmentally compromised land and establish strategies to mitigate impacts.
- C. Identify additional funding sources to encourage redevelopment of vacant, underused, and environmentally compromised lands such as brownfields.
- D. Develop policies and regulations that provide environmental review of development projects and discourage the over-concentration of uses that could produce negative environmental impacts in specific neighborhoods.

OBJECTIVE SE7: THE ENVIRONMENT AND THE REGION

Coordinate local planning, education and implementation efforts with the efforts and resources of neighboring communities, the state and the federal government to address issues of regional sustainability, including transit and alternative transportation; air and water quality; brownfields remediation; flood mitigation and stormwater management; protection of wildlife habitat; composting and recycling; local agriculture and food; and provision of recreation areas and multi-use trail systems and amenities.

Strategies:

- A. Support the State of Rhode Island in implementation of the Regional Greenhouse Gas Initiative (RGGI), a compact entered into by nine northeastern states to reduce emissions of carbon dioxide.
- B. Participate in the development and periodic revision of the Metro Bay Special Area Management Plan (SAMP) to establish a regional policy and plan for the approximately 24 miles of shoreline bordering the cities of Providence, East Providence, Cranston and Pawtucket in the context of ongoing economic development and urban growth.
- C. Work with the State of Rhode Island and its agencies to compensate for and reduce the disproportionate share of environmental burdens and constraints that negatively affect the City's long-term environmental and economic sustainability in the regional context.
- D. Coordinate the review of state and federal government plans and projects with adjoining communities to ensure that the proposals will not adversely affect air and water quality and environmentally sensitive areas.
- E. Work with the State and neighboring municipalities to address the issue of water-borne debris.
- F. Encourage the State to exempt EPA-certified SmartWay Elite vehicles from the vehicle excise tax and reduce rates for SmartWay vehicles.
- G. Encourage the State to tie vehicle excise tax revenues to transit and other transportation-related improvements that reduce greenhouse gas emissions, and to consider substantially increasing the gasoline tax to benefit reduced greenhouse gas emissions.
- H. Work with state agencies to recognize the unique problems brownfields pose in urban areas and streamline brownfield assessment and remediation processes by:
 - 1. Coordinating review between state and municipal agencies
 - 2. Implementing time frames for review
 - 3. Exploring different funding techniques for brownfields in urban areas

- I. Encourage the state to lead by example in using alternative fuel vehicles for fleet and transit vehicles
- J. Work with state and other municipalities to address regional sustainability through coordinated approaches to transit, air and water quality, brownfield remediation, flood zone protection, and provision of bike paths and recreational areas.
- K. Ensure that state projects meet or exceed local landscaping requirements
- L. Encourage the state to consider ease of maintenance in its designs and identify long-term maintenance plans for all of its projects

4. The Built Environment

GOAL 2: Protect, preserve and promote a high quality built environment.

An essential element of Providence’s quality of life is its urban design — how the city looks, feels and functions. “Urban design” refers to the basic structural forms on which the city is built — natural features such as waterways, landforms and topography; the street grid, alleys, and open space system; the architecture of its buildings, infrastructure and public spaces; and the relationships among all of these elements. Rarely have American cities achieved high-quality urban design consistently over time and in the cities where it has occurred, people cherish the result.

History of Design Excellence

Fortunately for Providence, at several critical points in its history leaders recognized the value of the city’s special features and character and worked to preserve and restore the elements that make Providence unique. These include the traditionally designed public buildings and open spaces that use Providence’s natural assets to the best advantage and create a unique civic identity. Opportunities to improve our built environment include taking advantage of waterfront areas, setting aside more land for parks and continuing to maintain historic development patterns in the city’s neighborhoods.

One of the oldest cities in the northeast, Providence has retained an unusual urban coherence, which combines exemplary 18th and 19th century residential neighborhoods with a large number of high quality industrial buildings and a central business district downtown. Sustaining excellence in urban design into the future demands that Providence use its best legacies to guide development. While new development need not conform to or attempt to replicate the precise historical or architectural particulars of historic buildings, it should reflect the fine qualities of design and use of materials inherent to Providence’s built environment. This applies to Downtown, commercial corridors, residential neighborhoods, and former manufacturing areas, and both new construction and rehabilitation. It also applies to infrastructure such as streets and bridges, as well as to both public and private buildings. The City must work harder to set the standard with its own projects and will accept nothing less from those who build in the city.

Providence’s identity is shaped largely by the diversity and evolution of its architectural styles, dating from the 1600s to the present. Fortunately, some of the architectural heritage of every era remains as part of the built environment of the city. Historic buildings provide not only a sense of place but a sense of continuity with the past. We can learn from them about the people who came before us, how they lived and worked and shaped the city we know today.

Cities like Providence recognize that historic buildings are culturally, aesthetically and financially valuable to the community as a whole and are worthy of preservation. In 1960, the city created the Providence Historic District Commission (PHDC) to protect the unique physical character and visual identity of the city by regulating development in designated Local Historic Districts. In Providence, historic districts are established as zoning overlay districts after extensive neighborhood consultation and education, a public hearing and adoption by the City Council. Providence has eight Local Historic Districts, containing a total of approximately 2,500 properties.

Local Historic Districts contain residential, commercial, religious, educational, industrial, governmental, transportation, and civic buildings, in addition to other structures and open spaces, and represent a range of architectural styles. Providence also contains many National Register Districts. Properties in these districts are not regulated by the city, but are eligible to receive state and federal historic tax credits.

In 1994, the City created the Downcity District, an overlay zoning district designed to direct downtown development, protect historic and architectural character, encourage round-the-clock pedestrian activity, promote the arts and entertainment, and support residential uses. The Downcity Design Review Committee (DRC) was created to administer the Downcity regulations.

4.1 Changes, Challenges & Opportunities

Changes

Policies and laws to encourage design excellence and preservation. Over the past fifteen years, both the City and the State have adopted several legislative and policy changes to encourage preservation of historic buildings, including the creation of new tax incentives, historic districts and design regulations.

State Tax Credit. Tax incentives for preservation made a dramatic impact in Providence from 2002 to 2007. In 2002, the State of Rhode Island created economic incentives to stimulate the redevelopment and reuse of its estimated 900 historic commercial properties, structures primarily found in city, town and village centers throughout the state. Owners of these properties earned State tax credits equal to 30 percent of qualified rehabilitation expenditures, which was the most generous state historic tax credit program in the country. In combination with the federal historic tax credit of 20 percent, redevelopers of historic buildings in Rhode Island were able to get back 50 percent of their qualified expenses. Unfortunately, the RI state historic tax credit was eliminated in 2008. The elimination of the tax credit has effectively stopped the rehabilitation and redevelopment of large historic structures in Providence. The City feels strongly that the state historic tax credit must be reinstated to help preserve our significant historic structures and to help foster development in this difficult economy.

Overlay Districts. In the late 1990s, the Main Street, West Side and Commercial Corridor overlay districts were established to regulate building and site design on four primary commercial corridors. The overlay districts have not been as successful as intended since the districts do not apply citywide, and many projects have received variances from the design regulations.

Industrial and Commercial Buildings District (ICBD). In 2000, Providence developed the Industrial and Commercial Buildings District, the state's first non-contiguous, thematic local historic district. This district is composed of mid-19th to 20th century industrial and commercial buildings throughout the city. The buildings in this district are reviewed by the Historic District Commission for demolition and major alterations only. The landmark status makes these buildings eligible for state, federal and local tax incentives for their rehabilitation and renovation.

Local Historic District Expansion. In 2004, the Armory Local Historic District was expanded from 120 to 520 properties. A total of approximately 2,500 properties are now included in all local historic districts.

Tax Stabilization. Beginning in 2000, the passage of a series of State laws and City ordinances provided for property tax incentives to rehabilitate historic buildings Downtown and in the industrial areas. The creation of the state historic tax credit in 2002, in addition to existing federal tax credits provided even more incentive to developers to rehabilitate historic buildings.

Development of Vacant Lots. In the late 1980s and early 1990s many of Providence's neighborhoods were littered with vacant lots. In the past few years, with an increase in market pressure, many of those lots have been developed. While this has been a welcome change, the quality of construction on many of these infill lots has been poor. Residential and, to a lesser extent, commercial infill projects have been constructed with poor quality materials, and do not fit in with the character of the existing homes and businesses.

Public awareness. Since the late 1980s there has been an increase in public awareness of the impacts urban design and historic preservation have on quality of life in the city.

Sustainable Development. As detailed in Sustainability and the Environment, there is a new emphasis on green, sustainable development in Providence, characterized by energy efficiency, use of renewable energy, water conservation, on-site drainage, use of recycled materials, and other principles. LEED and other standards of environmentally sustainable construction are now widely accepted and increasingly attainable. The City has taken a lead role in this movement, holding a Green Affordable Housing Design Contest and developing and renovating schools to green standards, and through measures such as LED light replacement; research on alternative energy sources including wind power; participation in national efforts committed to sustainable practices and with identified measures of success; and many other initiatives. Greenprint proposes a green convention to showcase advances in green technology. The private sector is actively playing a role as well, as evidenced by green development projects such as the Gordon Avenue Business Incubator, "Box Office" and 28 Wolcott Street.

Challenges

Regulatory. Urban design and historic preservation regulations are only successful to the extent that they are enforced. Enforcement of zoning regulations continues to be a challenge with the limited resources of the city.

Financial Burden. Local historic districts protect some of Providence's most important legacies, but can also put a financial burden on homeowners who must adhere to strict standards for renovation and preservation. In some instances, regulations to sustain the historic features of buildings are beyond the economic means of homeowners. Balance is needed to maintain the diversity and stability of many of Providence's historic neighborhoods. Government at all levels needs to provide incentives to historic property owners for renovation and preservation. These incentives could include restoration of the state historic tax credit and a revolving loan fund for repairs to historic structures.

Public Awareness. Educating the public about the value of historic buildings and the value of design excellence is an ongoing challenge. While progress has been made, we must continue to educate residents, homeowners, business owners and developers of the importance of preserving Providence’s character.

Design Review. Public demand for design review is sometimes an attempt to resolve land use conflicts. Design review must be carefully administered as a means of influencing the form of new development and must complement the use and density parameters established in zoning.

Neighborhood Character. The increasing need for a broad array of housing options requires a more diverse mix of residential types that are both affordable and complementary to neighborhood character. New construction must be sensitive to the character and qualities of Providence’s neighborhoods. It is also important to retain the traditional character of neighborhood commercial districts.

Street Design. The city’s streets have been carrying more and more traffic. Typically, streets in existing neighborhoods cannot be widened, as buildings are built to the street edge in many areas. Balancing the needs for traffic capacity and urban design features remains a challenge.

Commercial and Industrial Areas. Economically obsolete commercial and industrial areas must be redeveloped to be profitable with uses that are acceptable transitions to adjacent residential uses.

Undesignated Structures. Many buildings in Providence that may qualify for landmark designation have not been designated due to owner indifference toward the program and competing development interests.

Modern Architecture. The City has not adequately addressed preservation standards for significant examples of architecture from the second half of the 20th century. Without foresight, more architecturally significant structures of this underappreciated era may be lost. Neighborhoods and architectural styles developed after World War II are maturing but are not addressed by current preservation policies.

Alternative Energies in/on Historic Structures. Home and business owners often want to install alternative energy technologies on their home or business. The City must determine how to incorporate these alternative technologies in local historic districts and on individually listed historic structures. It must be determined if alternative energy sources such as solar panels are ever appropriate on a historic structure. The City must strike a balance between the need to protect the built environment and the changing technologies.

Natural Hazards and Sea Level Rise. A significant portion of the City’s infrastructure and facilities are at risk of impact by natural hazards. Extreme flooding has occurred in the past, most notably in 2010, and reports from the Intergovernmental Panel on Climate Change concluded that this will only increase with severe storm events. Given its location at the top of Narragansett Bay and its low mean sea level elevation, the City is extremely vulnerable to extensive flood damage, and older buildings are most at risk as they have not been brought up to current floodplain standards.

Opportunities

Interstate 195 Relocation. Relocating Interstate 195 has opened approximately 40 acres for redevelopment. This is an unusual opportunity for an older, built-out city to significantly add to its downtown. The new development in this area should showcase design excellence. In 2011, the I-195 Redevelopment District Commission was created by the State Legislature to serve as the property owner and development review board for the I-195 surplus parcels.

Surface Parking Lots. Surface parking lots downtown and along commercial corridors are an excellent opportunity for redevelopment. Filling in missing teeth in the urban fabric with high quality infill projects will add to the city’s character.

Quality Development. Many of the best infill projects have been developed by Providence’s sophisticated Community Development Corporations. The high quality work and capacity of the CDCs is an asset to the city. High quality mill rehabilitations and construction projects downtown have also contributed to the city’s character. These projects have the capacity to revitalize surrounding areas and encourage additional high quality development.

Economic Value. The economic value of historic preservation in Providence is well established and can stimulate interest and support among property owners for reasonable controls. Policies that link the value of historic preservation with economic development will help to create jobs, stimulate related retail and services, generate tax revenue, and develop Providence as a business location and tourist destination.

4.2 Objectives and Strategies

The objectives and strategies on the following pages correspond with strategies outlined in Land Use 2025, Element 121 of the State Land Use Plan.

OBJECTIVE BE1: DESIGN EXCELLENCE

Promote a culture of design excellence in Providence.

Strategies:

- A. Provide a model of excellence in urban design by incorporating design standards and review for City projects and for projects receiving City funding.
- B. Develop and promote design standards for:¹⁶
 - 1. All new construction projects, both commercial and residential.
 - 2. Design that enhances the quality and character of the city, including the preservation of significant historic structures and features.
 - 3. Waterfront areas that incorporate provisions for view corridors and setbacks.¹⁷
- C. Create a city-sponsored awards program that recognizes projects that exemplify design excellence. The awards program should coincide with National Preservation Month each May.

¹⁶ See Strategy BJ5(A)4

¹⁷ See Strategies LU1(A)3 and W3(A)

- D. Construct and renovate municipal buildings to green standards whenever possible, achieving at least LEED Silver standards when feasible, and encourage public engagement in green design.¹⁸
- E. Strategically invest in public infrastructure and amenities to promote Providence’s civic identity and attract high-quality development.
- F. Evaluate new projects and designs in light of crime prevention through environmental design (CPTED) principles and strategies.
- G. Address the negative effects of impermeable surfaces on stormwater runoff, educating property owners and residents on the importance of landscaping, trees and tree care and to mitigate runoff pollution. Incentives must be developed for green roofs to minimize runoff pollution while mitigating the urban heat island effect.

OBJECTIVE BE2: NEW DEVELOPMENT TO COMPLEMENT TRADITIONAL CHARACTER

Adapt Providence’s traditional urban design character to new needs, expectations and technologies.

Strategies:

- A. Promote design innovation and architectural diversity while preserving Providence’s traditional character.
- B. Periodically review the effectiveness of design standards and review procedures, recognizing that the locations and focus areas for review will likely change over time.
- C. Identify community design standards and development issues through the neighborhood planning process and target specific concerns with appropriate controls and incentives.
- D. Ensure that regulations reinforce high quality urban design and, in residential neighborhoods, ensure that zoning regulations reinforce traditional neighborhood design.
- E. Promote public art in the built environment.¹⁹

OBJECTIVE BE3: COMPACT URBAN DEVELOPMENT

Incorporate the best urban design principles into new development patterns to achieve a higher concentration and greater mix of housing, employment and transit options in identified areas of the city.

Strategies:

- A. Identify and evaluate those areas of the city where increased building height and density can be accommodated, allowing for compatible transition to surrounding areas.²⁰
- B. Develop regulations and incentives that encourage high-quality, mixed-use development at heights and densities that support the city’s diverse housing needs and transit alternatives.²¹
- C. Target regulations and incentives to direct investment along commercial corridors and create mixed-use centers to promote public transit. Identify nodes of higher density along these corridors.²²
- D. Evaluate and identify areas where increased height limits may be appropriate.

¹⁸ See Strategies SE4(A) through SE4(E)

¹⁹ See Strategies AC6(D) and AC6(E)

²⁰ See Strategies H5(E), LU1(B)2 and LU2(A)1

²¹ See Strategies BJ5(A)5, M7(B) and LU4(B)1

²² See Strategy LU2(A)2

- E. Encourage the redevelopment of and reduction of surface parking lots.²³
- F. Encourage life and vitality on city streets, particularly along main streets, on corners and in traditional squares.
- G. Promote transit-oriented development, including use of incentives to build close to public transit and/or minimize parking spaces. Direct investment along commercial corridors and develop mixed-use centers to promote public transit through regulations and incentives, and tie parking requirements to the proximity to transit facilities.

OBJECTIVE BE4: DESIGN OF THE PUBLIC REALM

Reinforce the design quality, function and character of connections among public places and centers of activity, as they are part of the public realm and serve as important places in their own right.

Strategies:

- A. Preserve, enhance and, where possible, extend and connect the pattern and character of the primary street and sidewalk system.²⁴
- B. Establish design and maintenance standards for major corridors that incorporate preservation, high-quality design and neighborhood character.
- C. Encourage design that connects neighborhoods while recognizing individual neighborhoods' unique character.
- D. Develop streetscape standards that enhance the pedestrian experience and incorporate high-quality design elements that are affordable and easy to maintain.²⁵
- E. Buildings that are adjacent to or across the street from parks and open spaces shall be oriented in a way to respect the public realm. Utility, service areas and surface parking areas shall not abut or face the park or open space.
- F. Identify key neighborhood connections through the neighborhood planning process and prioritize those streets for street trees and other streetscape improvements.

OBJECTIVE BE5: PRESERVATION PLANNING

Preserve the historic buildings, districts and areas that contribute positively to Providence's urban fabric.

Strategies:

- A. Balance the preservation of buildings with ways to prevent displacement of neighborhood residents.
- B. Develop additional incentives and tools for property owners to rehabilitate structures of architectural or historic merit.
- C. Require institutions to identify historic buildings and plan for their future use.
- D. Protect and preserve historic resources citywide through the use of design standards, zoning controls, easements, and other tools.
- E. Identify areas of conflict between historic regulations and environmentally sensitive design and work to mitigate the conflicts.

²³ See Strategy M6(G)

²⁴ See Strategy M3(C)

²⁵ See Strategy M3(I)

- F. Amend land use regulations, as needed, to support the reuse of properties listed in the Industrial and Commercial Buildings District.
- G. Identify stronger enforcement options to discourage the alteration and demolition of historic resources without approval.
- H. Consider adopting varying degrees of regulation for historic properties.
- I. Update *A Plan for Preservation* (1994) to identify more detailed strategies for preserving historic resources.

OBJECTIVE BE6: DESIGN LEADERSHIP

Ensure that the City of Providence takes the lead in design excellence and historic preservation.

Strategies:

- A. Support and encourage historic preservation of City-owned properties within all agencies and departments for the enjoyment of future generations.
- B. Consider the adaptive reuse of historic buildings when procuring office space for City agencies.²⁶
- C. Work with the State to evaluate and address the impact of building codes, development review and other permitting processes on historic preservation.
- D. Coordinate with the Rhode Island Historic Preservation and Heritage Commission to create a consolidated approach to preservation in the city.
- E. Encourage and inspire inviting, creative and environmentally innovative civic and government structures and places.
- F. Design and construct city buildings as models of design excellence, and design schools that meet the Northeast Collaborative for High Performance Schools Protocol. (CHPS).

OBJECTIVE BE7: NEIGHBORHOOD CHARACTER AND DESIGN

Protect the existing character of the city's neighborhoods by supporting design excellence and historic preservation.

Strategies:

- A. Uncover distinct cultural values in the neighborhoods and take steps to honor their significance.
- B. Encourage developments to be compatible with surrounding uses in scale, density and character, while not stifling innovative design and architecture.²⁷
- C. Allow for mixed-use, pedestrian oriented developments along commercial corridors at a greater height and density than in the residential areas.²⁸
- D. Ensure that new developments improve pedestrian movement, provide pedestrian amenities and preserve view corridors.
- E. Update regulations to:
 1. Create design and development standards to ensure the compatibility of new, infill and rehabilitated uses, particularly in residential areas of neighborhoods.
 2. Put significant emphasis on the form as well as the use of buildings.

²⁶ See Strategy LU1(B)3

²⁷ See Strategy LU1(B)1

²⁸ See Strategies M3(A) and M3(E)

- F. Identify areas for future historic and cultural resource surveys in the neighborhood planning process.
- G. Require commercial and mixed-use buildings to be built to the street edge and at a human scale. Large-scale projects must incorporate human-scale elements on the lower floors.²⁹
- H. Evaluate local historic districts for possible expansion, consider the designation of additional districts and consider different levels of historic district controls for individual districts.
- I. Encourage the preservation of Providence’s historic neighborhoods and enhance their livability for families of varied income levels.
- J. Amend regulations to reduce the number of required parking spaces and, in neighborhood commercial areas, prohibit parking between the street and buildings.³⁰
- K. Ensure the remediation of existing conditions that are detrimental to neighborhood character.
- L. Create standards for interim uses of temporarily vacant lots.

OBJECTIVE BE8: PUBLIC AWARENESS

Promote public awareness of urban design and historic preservation principles through education and collaboration with partners and schools.

Strategies:

- A. Encourage partnerships with design and preservation organizations to organize public information campaigns.
- B. Support efforts to educate Providence residents on the importance of high quality urban design and historic preservation. Raise public awareness of the historic significance of structures and areas in Providence.
- C. Support student education and involvement in design issues and historic preservation at all grade levels.

OBJECTIVE BE9: THE BUILT ENVIRONMENT AND THE REGION

Work with the State of Rhode Island and adjacent communities to support design excellence and historic preservation in the region.

Strategies:

- A. Lobby the state to restore the historic tax credit.
- B. Work with adjacent communities to ensure high-quality design on the city's borders.
- C. Encourage the development of urban design standards for RIDOT and other state agencies for projects in Providence and other urban areas in Rhode Island.
- D. Work with the I-195 Redevelopment District Commission to determine appropriate interim uses for parcels opened up for development by the IWay relocation.
- E. Work to revise state regulations to allow form-based codes, such as the SmartCode, in Providence.

²⁹ See Strategy W3(E)

³⁰ See Strategy M6(H)

OBJECTIVE BE10: THE BUILT ENVIRONMENT AND NATURAL HAZARDS

Protect the built realm from future natural hazards through proper mitigation of the City's vulnerabilities

Strategies:

- A. Continue to identify areas at risk of natural hazards within the City's built environment
- B. Promote the ongoing process of Map Modernization.
- C. Evaluate effectiveness of Fox Point Barrier with regard to future sea level projections.
- D. Assist the Providence Emergency Management Agency (PEMA) in the distribution of their Fox Point Barrier Coordination Guidebook.
- E. Coordinate with the state to adopt freeboard standards that will increase the required first floor elevation above the base flood elevation for new or substantially improved structures in high hazard areas
- F. Work with PEMA and the state to incorporate new standards into design and permitting of water-based development that address hazard and sea level rise mitigation
- G. Work to prevent construction in high hazard areas and remove vulnerable structures in accordance with the City's Hazard Mitigation Plan
- H. Assist the Local Hazard Mitigation Committee (LHMC) in identifying areas for holding sites

5. Business and Jobs

GOAL 3: Grow the Providence economy.

The city's economic base is its lifeblood: it provides the framework upon which the city prospers and develops. Economic growth is critical to the health of Providence, both to provide jobs for its residents and to generate taxes to pay for City services. This section emphasizes the importance of developing a business environment that promotes the retention and expansion of existing businesses, the attraction of new businesses and the development of a skilled workforce. The Providence economy is diverse in its breadth, with a wide variety of businesses and institutions, and in its scale, ranging from neighborhood stores to corporate headquarters. Each of these activities contributes to the economic well-being of the City and to the vitality of the regional economy by providing jobs and needed services. Economic activity will expand by promoting Providence as a favorable place in which to work, live and conduct business; by adopting economic development programs and fiscal policies to attract and retain businesses; and by setting aside land area for business growth and expansion.

5.1 Changes, Challenges & Opportunities

Changes

The Economy. Providence has been affected by the depressed economy in ways similar to other communities in the state and throughout the country: layoffs leading to high unemployment, loss of businesses both small and large, development at a standstill, decreases in revenue to the city because of declining property values and fee generation. Although 2011 saw the start of a few development projects, the city still faces challenging times in terms of growing its economy.

Policy. In 2005, the city began to implement the "First Source" ordinance, which had lain dormant for two decades. First Source requires businesses that receive aid in cash or in-kind above normal services (such as tax stabilization agreements and projects funded in whole or part with City funds) to enter into an agreement with the City in which employers agree to recruit and hire suitable employees from a First Source list of Providence residents seeking employment. The list is maintained by the Department of Planning and Development, and covers only non-supervisory positions. The ordinance enables employers to hire from other sources if there is agreement that a suitable employee is not found. The Department of Planning and Development is also obligated to establish training and referral programs for persons on the First Source list.

Challenges

Limited Growth Potential. Providence faces many challenges to economic development. The City is mostly built out, and has limited areas for growth, especially areas with large parcels favored by many industries. As former manufacturing areas are converted to residential use, less land is available for industrial jobs. In addition, much of the vacant land and buildings in the city have environmental contamination and aging infrastructure.

Transportation and Circulation. Providence has its share of transportation problems, most notably highway congestion, narrow streets, longtime neglect of local roadways, and limited supplies of free or low-cost parking.

Indeed, many office buildings in Providence have no parking. These issues may put the city at a disadvantage when compared to the suburbs.

Cost and Risk of Doing Business. Providence has a high cost of doing business. One of the challenges is the state and local regulatory environment, where time and complexity of permitting are of concern. Property taxes, rents, construction costs, and the cost of parking Downtown continue to remain concerns, despite the recession especially when nearby cities and towns offer lower costs and free parking. Further, in some areas of the city, commercial buildings do not always support the changing demands for workforce and retail space.

Workforce. With changes in the economy come challenges in matching jobs to the workforce. Many workers lack the skills that available jobs demand, while for many recent college graduates, there is a lack of jobs and salaries commensurate with their skills. Between 1995 and 2000 Rhode Island ranked sixth highest among the thirty-three states with negative migration rates of single, college-educated adults.³¹

Opportunities

Smart Growth. The current State of Rhode Island Land Use Plan is Land Use 2025. This is a “smart growth” document that calls for more intensive development in the urbanized areas of the state. Providence’s development patterns are a prime example of smart growth, and have the capacity for additional development. As State policies shift, consistent with Land Use 2025, to promote development in the urban areas, Providence will benefit.

Redevelopment. Providence has many opportunities for new development. Dozens of acres of land will soon be available for business development Downtown with the relocation of Interstate 195. Also, the city has had successes with remediating Brownfield sites, and there are many more opportunities for environmental cleanup and redevelopment. Downtown, the numerous surface parking lots present opportunities for new buildings. In the neighborhoods, there are many opportunities for redeveloping the commercial corridors for a mix of commercial uses and housing.

Green Economy. As traditional manufacturing entities continue to redefine themselves, the rise of the “Green Economy” in Providence has generated a new sector of innovative manufacturing and job development. Utilizing the existing industrial buildings, primarily in the Promenade District, several companies have chosen to make Providence their headquarters in the last few years. The shift to a Green Economy has driven demand for qualified workers that is being answered by a number of non-profit agencies who are training unemployed and underemployed Providence residents. Many of these companies have located in the Valley and Smith Hill neighborhoods, along the Woonasquatucket River, leading this area to be known as the “Green Corridor”.

Transportation. While Providence has its share of parking and traffic congestion problems, it also has amenities that are rare outside of the city. Providence’s compact form often makes driving unnecessary. Walking and biking are viable options for commuting and getting around town. Providence has more RIPTA bus service than any other city or town in the state, and is a hub for bus service to all major regional cities. Providence station is

³¹ Destination Rhode Island, a report of the Rhode Island Statewide Planning Program, April, 2007.

also seeing increased train service with recently added MBTA commuter rail runs to and from Boston and AMTRAK high speed service to the north and south. An added amenity for business is excellent freight rail access to many of Providence's industrial areas.

Increased investment in transit can catalyze redevelopment and economic growth in Providence, especially in the City's downtown core where there are currently over one-hundred acres of vacant and underutilized land. An improved transit system will encourage people-focused development and help foster lively neighborhoods with a strong sense of place. By removing transportation barriers and improving access to regional transportation, jobs and cultural venues, our city has the opportunity to further build community and foster neighborhood vitality.

Assets. Providence has assets that give it advantages for economic development. Its success as a thriving service and tourism center has seen a huge payoff in its desirability as a place to visit and live. The many health care and higher educational institutions are major economic generators, and together make up one of the city's most critical competitive advantages. There are significant opportunities for synergy in the medical and life science fields, and for the increased commercialization of institutional research and development activities into high-skill, high-wage jobs. Providence's multicultural and talented residents provide an excellent employment pool. The large number of artists and artisans are important to the city's economy, contributing to both the tourism and retail trades and providing numerous jobs in the design fields. The neighborhood commercial areas provide convenient services to residents and reflect the wide ethnic diversity of the city. Perhaps Providence's most significant asset is its physical character. People and businesses continue to be drawn by its urban flavor, historic architecture and walkable scale.

Enterprise Zones. The City's two enterprise zones have had a substantial impact on economic development in Providence, and have helped to revitalize distressed neighborhoods. In 2005, 76 companies employing 2,210 people participated in the program." Of the 786 new Providence Enterprise Zone hires in 2005, 149 actually lived in Enterprise Zones either in the City or in other Rhode Island communities.

Knowledge Economy. In 2009, the Providence Knowledge Economy was launched by the Greater Providence Chamber of Commerce and with that an analysis and recommendations around six high wage industry sectors. As part of the "Strengthening the Providence Knowledge" strategy, the Providence Economic Development Corporation and Greater Providence Chamber have funded 15 small innovative organizations such as Betaspring, Apeiron, and Tech Collective to develop and support ideas ranging from network sites and portals to job training in the "Green" economy. From this, several innovative startups in product development, active marketing resulting in sales and public offerings of stock are underway. Continued public/private investments will yield positive growth and underscore Providence's position as a hub of entrepreneurship.

Additionally, the City has undertaken The Providence Downtown-Knowledge District Development Framework Plan which will identify a preferred development scenario for the study area (360 acres that includes the Jewelry District, the hospital district in Upper South Providence and the I-195 Redevelopment District Parcels). Additionally, the project will create a model development code for the study area that will implement the preferred development scenario and will also inform the rezoning of all of Downtown. Finally, the study will

analyze the capacity of the existing utilities in the study area as well as developing plans for the utility upgrades required to implement the preferred development scenario.

5.2 Objectives and Strategies

OBJECTIVE BJ1: BUSINESS RETENTION AND EXPANSION

Expand economic opportunity and the City's economic base by focusing efforts on retaining existing businesses and attracting new businesses.

Strategies:

- A. Establish a clear, comprehensive approach and strategy for economic development.
- B. Identify and quantify the existing job base.
- C. In conjunction with the State, identify target industries for job growth and support the development of spaces for job growth.
- D. Work to retain and expand businesses that have a positive economic impact on city residents, including industries that are historically important to the city.
- E. Work, through legislative efforts and the State Enterprise Zone Council process, to expand State-designated enterprise zones to all eligible areas of Providence.
- F. Support business retention and expansion by designating specific areas as "Jobs Districts." (See Map 11.2 'Future Land Use')³²
- G. Strengthen Providence as a destination for business, leisure and convention visitors.³³
- H. Capitalize on the collaboration between health care and higher educational institutions by encouraging tax-paying business development in the medical and life sciences fields.
- I. Use public/private partnerships to facilitate development and redevelopment projects that advance the City's goals and objectives.
- J. Ensure that economic development is environmentally sustainable.
- K. Encourage development of businesses that produce products that will further the goal of environmental sustainability.
- L. Work to attract, retain and expand businesses that pay good wages and provide benefits.³⁴
- M. Encourage city government to purchase supplies, foodstuffs, and services from small Providence businesses whenever possible.
- N. Recognize that improving the quality of the City's natural environment is critical to attracting businesses.
- O. Identify incentives for businesses to locate downtown to restore downtown Providence as the business center of the state.
- P. Support, develop and retain locally-owned businesses.
- Q. Identify and attract businesses that will provide jobs for the underemployed.³⁵

³² See Strategy LU5(A)

³³ See Strategy AC3(B)

³⁴ The Mayor and City Council should establish a baseline using, for example, the Poverty Institute's Rhode Island Standard of Need a guide for what constitutes a good wage.

³⁵ See Strategy W4(E)

OBJECTIVE BJ2: WORKFORCE DEVELOPMENT AND SUPPORT

Ensure a skilled workforce that matches the employment opportunities by focusing on workforce needs for advancement, education and training, affordable housing and transportation options.

Strategies:

- A. Collaborate with other agencies to identify and fund job training programs.
- B. Continue to implement the First Source ordinance and encourage use of the First Source program by businesses that are not subject to the ordinance.
- C. Collaborate with the business community and higher educational institutions to provide education and training opportunities that will prepare Providence public school students for employment, especially in the growth industries that will shape Providence's future, including healthcare, life sciences, and creative economies.
- D. Create an Employer Homeownership Challenge program to secure housing for employees of Providence businesses.
- E. Support the development of more effective transit and parking opportunities.³⁶
- F. Encourage employers to develop job training programs.
- G. Support and develop outreach campaigns that provide information on GED, and vocational and job opportunities.
- H. Use the Green and Healthy Homes Initiative to train minority contractors to perform weatherization, healthy homes, and/or lead hazard control work, improving their ability to compete for National Grid, City, State, and private contracts.
- I. Create additional opportunities for the hiring of graduates from the Providence Green Pathways weatherization training initiative.

OBJECTIVE BJ3: KNOWLEDGE BASED ECONOMY

Promote the growth of Providence's knowledge-based economy and leverage that growth to attract, develop and retain commercial businesses that generate taxes, and skilled jobs.

Strategies:

- A. Foster collaboration between universities, colleges, hospitals, businesses, the City and the State.
- B. Increase the commercialization of the institutional research and development activities into for-profit commercial ventures, and help the existing knowledge-based businesses to grow.
- C. Increase the commercial tax base in Providence.
- D. Work with the State to share revenue generated from sales and corporate taxes of knowledge-based businesses with the City.
- E. Work to retain more knowledge workers in the city.
- F. Work to improve Providence's competitiveness for growing and nurturing knowledge-based industries into the 21st century.

³⁶ See Strategy M2(A)

OBJECTIVE BJ4: BUSINESS ENVIRONMENT

Create a business-friendly environment to stimulate the growth of business and the creation of good jobs that improves the quality of life for residents.

Strategies:

- A. Develop a state-of-the-art, streamlined, one-stop, integrated predictable system for building, fire and development permits that allow permits to be issued in a timely manner.
- B. Promote Providence's quality of life as an economic asset.
- C. Promote Providence's reputation as a business location with a highly educated workforce.
- D. Develop predictable, transparent processes that support business development, consistent with the goals of *Providence Tomorrow*.
- E. Promote infrastructure and service improvements that support business and job growth.
- F. Support and encourage partnerships with Business Improvement Districts to enhance the attractiveness of these districts for employers, workforce and visitors.
- G. Evaluate all existing and proposed city ordinances for their impact on the city's economic development competitive advantage.

OBJECTIVE BJ5: NEIGHBORHOOD ECONOMIC DEVELOPMENT

Support the creation and growth of locally-owned businesses that enhance the vitality and quality of life in the city's neighborhoods.

Strategies:

- A. Support small businesses in neighborhoods by using the following key strategies:
 1. Incorporate neighborhood-based business development into the neighborhood planning process.
 2. Support the development of neighborhood business centers that serve adjacent residential areas through programs like Neighborhood Markets.
 3. Using a variety of public and private funding sources, strengthen financial and technical assistance programs that support small business and neighborhood revitalization, such as Neighborhood Markets and the Providence Economic Development Partnership's (PEDP) technical assistance, revolving loan fund, micro-loan, storefront improvement grant, and arts and culture revolving loan fund programs.
 4. Establish design and maintenance standards for neighborhood commercial areas that incorporate preservation, high-quality design and neighborhood character to ensure the compatibility of new construction and renovations.³⁷
 5. Encourage high-quality mixed-use development at appropriate densities to support housing needs, transit and neighborhood businesses.³⁸
 6. Support targeted efforts to encourage business development in the city's immigrant communities.
- B. Support the development of sustainable economies in all neighborhoods. To accomplish this:
 1. Identify areas through the neighborhood planning process that need assistance to strengthen local businesses.
 2. Assess, evaluate and coordinate available funding sources to assist in the stabilization and revitalization of Providence neighborhoods.
 3. Use incentives to stimulate business development and job creation, particularly for those businesses that provide locally needed products and services.
 4. Identify and preserve areas suitable for urban agriculture.³⁹
 5. Use resources available through federal, state and regional agencies to revitalize neighborhoods with high percentages of low-income residents.
- C. Support farmers markets to supply locally-grown food to residents of the city.
- D. Support the creation of a citywide marketplace for locally-produced food and crafts.
- E. Support the use of transit investment as a tool for economic development.

³⁷ See Strategy BE1(B)

³⁸ See Strategy BE3(B)

³⁹ See Strategy SE2(E)

OBJECTIVE BJ6: ECONOMIC DEVELOPMENT AND THE REGION

Work with the State of Rhode Island to strengthen Providence's role as the economic center of the state.

Strategies:

- A. Collaborate with the Rhode Island Economic Development Corporation (RIEDC) to direct businesses to locate in Providence in accordance with Land Use 2025.
- B. Evaluate State and local tax policies to identify opportunities to encourage business growth in Providence and to reduce disparities between Providence and other localities that make the city uncompetitive.
- C. Promote the adoption by State agencies of processes that support business and job growth.
- D. Discourage the relocation of State offices from Providence to suburban communities.
- E. Encourage the adoption of State policies that promote the equitable distribution of locally undesirable land uses throughout the State, not just in Providence and compensate Providence for accommodating such uses.
- F. Encourage the revision of brownfields and redevelopment legislation to make urban development economically competitive with Greenfield development.
- G. Support local agriculture through farm-to-school and farm-to-government programs that link local farmers to schools and encourage government purchasing of local produce.
- H. Work with the State to identify and implement strategies that assist immigrants in transferring their knowledge and skills into the Rhode Island job market.

6. Housing

GOAL 4: Create, revitalize, and preserve housing.

The City is deeply committed to making housing more accessible and affordable. Everyone deserves the opportunity to live in decent housing. The condition of Providence's housing stock tends to reflect the condition of the city as a whole. When the city's fortunes were in decline, the condition of Providence's housing stock and property values spiraled down as well. Vacant lots and abandoned buildings were scattered throughout many of Providence's neighborhoods. Between 2000 and 2005, Providence experienced a period of growth and revitalization. The city transformed itself into one of the most desirable places to live in the Northeast. The city's housing market was very strong and housing prices skyrocketed, existing homes were being renovated, and infill construction was responsible for new homes being built on previously vacant lots and side yards.

In 2006 and 2007 the housing market in Providence, as in the rest of the country, began to experience downward pressure. From 2008 through 2011 the housing market fell precipitously due to the depressed economy and foreclosure crisis. As property values and prices plummeted, foreclosures increased exponentially. In Providence the foreclosure crisis affected market rate and affordable housing stocks. This led to a large inventory of unsold homes and condominiums (both affordable and market rate) throughout the city, further depressing housing prices. This in combination with stricter lending guidelines left Providence with a stagnating housing market at all levels. In order to spur home purchases, the City has stepped in to provide 20 percent downpayment assistance to income qualified buyers of the CDCs unsold inventory. Though this program has been successful, many units remain unsold due to a slow economic recovery.

It is projected that the City's existing housing stock (an estimated 72,641 units) will be sufficient for further growth over the next 20 years. According to State population projections for 2035, there will only be a need of 72,129 housing units in the City. Many issues will arise within this 20-year timeframe concerning the condition and suitability of the City's existing housing stock. Because the majority of the housing stock is over 60 years old, the City will need to focus its efforts on the redevelopment and rehabilitation of these structures over the next 20 years. Furthermore, the average household size in particular cohorts may increase within the 20-year planning horizon and this could create a greater need for total housing units and larger units overall.

The City has a responsibility to ensure that its policies encourage a wide range of housing, do not impede housing production, encourage maintenance and preservation of the existing housing stock, and provide financial assistance to enable all residents of Providence to live in safe, habitable housing, and address concerns about resident displacement due to redevelopment.

6.1 Changes, Challenges & Opportunities

Changes

Housing Development. There has been significant decline in the construction of single and multi-family residences, both infill development on vacant lots and rehabilitation of existing structures. However, given the

gradual recovery of the national economy and the adoption of a new Zoning Ordinance within the next few years, the City expects to see a slight increase in housing development in certain neighborhoods over the next 20 years. Redevelopment of existing commercial and industrial structures has also declined in several city neighborhoods, including downtown. Downtown Providence is now a residential neighborhood as well as a commercial destination. A number of the colleges and universities in Providence have built new dormitories and/or converted existing buildings to dormitory use. An increasing number of students who would formerly have commuted to school are now residing on campus as a result of these expansions. Additionally, the increase in dormitory space appears to have lessened some of the pressure on the surrounding neighborhoods by decreasing the number of students looking for off-campus housing.

Cost of Housing. The cost of housing in Providence saw double digit percentage decreases from 2007 to 2010. Land costs decreased, decreasing the cost of housing. This put homeownership within reach of many families in Providence though tighter lending standards have made it more difficult for many families to purchase homes. Rental costs initially felt downward pressure but have since begun to stabilize. Property taxes continue to be a burden on both homeowners and renters, with housing costs that exceed 30 percent of family income for many residents.

Low Income Housing Tax Credit Program. The Low Income Housing Tax Credit (LIHTC) Program was created by the Tax Reform Act of 1986 as an alternative method of funding housing for low and moderate income households and has been in operation since 1987. Rhode Island receives the small state maximum of two million dollars a year. This amount is slated to increase over the next 20 years. These tax credits are used to leverage private capital into new construction or acquisition and rehabilitation of affordable housing. In Providence, LIHTC's have been used to create rental housing in several neighborhoods.

Challenges

Housing for All. For Providence to retain and attract businesses and workers, the City must offer an ample supply and wide variety of housing types for people across the income spectrum. The City must also work to link the types of housing available to the types of jobs available and work to develop housing in areas near transit to create more affordable living for those working in Providence. An adequate supply of workforce housing is crucial to attracting quality jobs to Providence. It is also crucial to retaining existing residents. In addition to ensuring that there is affordable housing for those who need it, the city must have housing available for young professionals including those with moderate and higher incomes.

Without housing for all, the city will continue to lose these young professionals to other urban areas. Cuts in funding sources also make it more difficult for CDC's to develop new affordable and supportive housing. The competitive nature of the housing market has also impacted the availability of affordable housing, as many rental property owners have chosen to rent to students rather than families. Affordable housing also needs to be distributed equitably throughout the city in order to avoid concentrations of affordable units and services. Developing mixed-income neighborhoods is critical to the future economic sustainability of the city as a whole. The high property tax burden for homeowners in the city can make it difficult for property owners to retain their homes. It also prevents some residents from purchasing homes, as the tax burden can make the homes unaffordable.

Lead Paint Hazards. Almost 90 percent of Providence's housing is over 50 years old. These structures run the gamut from single family homes to larger apartment buildings. Ongoing investment in these buildings is required to avoid decline and decay. Due to the age of the housing stock, lead paint hazards are a significant issue and pose health and safety issues for many families.

Limited Resources. Over the last ten years federal and state resources for developing affordable housing had been largely stable. However, in most recent years, the federal allocation of Community Development Block Grant and HOME funding to the City has been decreasing. The City must use its funds more efficiently and pursue new funding sources and innovative partnerships, such as housing bonds and other tools. In addition to the reduction in funding provided to the City, the cost of developing housing has increased. The state legislature's modification of the state historic tax credit program, combined with the overall state of the economy, has slowed the preservation and redevelopment of historic structures in Providence. The City expects the federal share of housing development costs to continue to decrease over the next 20 years.

Evolving Housing Market. Between 2006 and 2010, the real estate market in Providence saw a dramatic decline in sales volume, value, and prices. The slowdown started in 2006 and 2007 and continued unabated in 2008 and 2009, the market continued to be soft in 2010 and 2011. This decline in housing prices, combined with the foreclosure crisis, has occurred throughout the city, leading to greater vacancy rates in the housing market. Hundreds of housing units are vacant throughout the city and many are being acquired by for- and non-profit developers at a fraction of their pre-crash/foreclosure crisis value. In most neighborhoods of the City, the housing market is rebounding; however several neighborhoods are suffering from a high number of foreclosed properties. The City expects housing costs to stabilize over the next 20 years.

Homelessness. The fastest rising segment of the homeless population is families with children. The shortage of affordable units places people at risk of homelessness. Providence is also the home of several homeless services agencies, including Crossroads RI, the largest homeless services provider in the state. The City does not expect this population to increase significantly over the next 20 years.

Opportunities

Commitment. Create, Preserve, and Revitalize: A Housing Agenda for Providence details the vision and priorities of the City in addressing pressing housing needs in Providence. The City has incorporated many of the objectives and strategies of the housing agenda into this comprehensive plan. The City initially received \$3.3 million from Round 1 of HUD's Neighborhood Stabilization Program to acquire and rehabilitate foreclosed homes. The City received another \$1.3 million in 2011 from NSP Round 3. Providence is using these funds to acquire and rehabilitate foreclosed properties for homeownership. Leveraged with NSP, the City's HOME funds and other sources, significant structures in most Providence neighborhoods have been saved and rehabilitated for homeownership. Many of the foreclosed structures have historic significance and were in danger of being beyond repair. The City is also committed to providing affordable housing through the Providence Housing Trust. Created in 2005, the Housing Trust consolidated several city housing funds into one main fund. This fund provides resources to create, rehabilitate, and preserve affordable housing throughout Providence. Funds from the Housing Trust may be used for acquisition and development of affordable units. The fund also provides flexibility to ensure that projects move forward. Since its creation, the Providence Housing Trust has provided

several hundred small down payment/closing cost loans. This assistance has often been the key to homeownership for first time buyers.

Livability. People want to live in Providence even if they don't work here. Residential development in areas such as downtown builds upon our historic housing stock, making Providence a desirable place to live.

Green and Healthy Homes Initiative. The Green and Healthy Homes Initiative (GHHI) is a pilot program implementing a weatherization and healthy homes project in the Olneyville and Valley neighborhoods. It will incorporate intensive community-based marketing and a resident education campaign as well as comprehensive minority contractor training and development and will be evaluated for success by an independent evaluator. The GHHI aims to provide weatherization and other health and safety upgrades to 125 units in the target neighborhoods.

6.2 Objectives and Strategies

The objectives and strategies on the following pages correspond with strategies outlined in Land Use 2025, Element 121 of the State Land Use Plan and the Rhode Island Five Year Strategic Housing Plan: 2006-2010, Element 423 of the State Guide Plan.

OBJECTIVE H1: IMPROVE EXISTING HOUSING

Revitalize, modernize, and preserve Providence's housing stock.

Strategies:

- A. Encourage the retention and revitalization of the existing housing stock and discourage the demolition of housing units.
- B. Strictly enforce codes and encourage housing rehabilitation by providing funds for repairs to existing structures.
- C. Continue efforts and coordination to address lead based paint hazards throughout the city.
- D. Use techniques such as land banking and acquisition to revitalize residential structures and blighted areas.
- E. Increase environmental enforcement of vacant and blighted lots.
- F. Enhance and expand potential for housing improvement funds available to owner occupants.
- G. Use the Green and Healthy Homes initiative to weatherize and provide other health and safety upgrades to approximately 125 homes within the Olneyville and Valley neighborhoods.

OBJECTIVE H2: CREATE NEW HOUSING

Support the creation of new ownership and rental housing citywide.

Strategies:

- A. Provide for diversity in the type, density and location of housing within the city to provide an adequate supply of safe, sanitary housing at price levels appropriate to the financial capabilities of city residents.

- B. Promote a diverse housing market to meet increasingly specialized housing requirements including elderly, handicapped and student population.
- C. Encourage and develop home ownership and rental opportunities for all income groups.
- D. Encourage the development of housing in rehabilitated older commercial buildings and in new structures.⁴⁰
- E. Encourage the development of housing opportunities for artists and craftsmen in old commercial and industrial buildings that enable artists to live and work in the unit.
- F. Encourage the development of housing on existing and potential transit corridors.
- G. Focus on the rehabilitation of the hundreds of foreclosed multi-family houses for affordable owner-occupied rental housing.

OBJECTIVE H3: HOUSING FOR ALL

Create new and preserve existing affordable, workforce, and moderate income rental and home ownership opportunities throughout the city.

Strategies:

- A. Encourage the development of housing for residents at all points of the income spectrum, low, moderate and high.
- B. Encourage and support equal access to housing throughout the city for all people regardless of race, color, sex, marital status, sexual orientation, religion, national origin, or physical or mental handicap.
- C. Work with Rhode Island Housing to preserve affordable housing throughout the city.
- D. Create programs that encourage developers to build housing that is affordable to all.
- E. Develop a process to streamline the permitting process for developers of affordable and workforce housing.
- F. Support for-profit and non-profit organizations and encourage their collaboration for the active development of affordable housing.
- G. Develop programs and regulations to increase the development of affordable housing throughout the city, particularly in neighborhoods identified as underserved.
- H. Consider creating requirements and/or incentives for the development of affordable housing in conjunction with the development of market rate units.
- I. Require colleges and universities to develop plans for student housing.
- J. Work with residents and neighborhood organizations to address concerns about resident displacement.

OBJECTIVE H4: SPECIAL NEEDS HOUSING

Promote the maintenance and development of supportive housing— both owner-occupied and rental— to ensure that all residents with special needs have access to safe and affordable housing in all neighborhoods.

Strategies:

- A. Encourage programs that will increase the supply of accessible housing in the City.

⁴⁰ See Strategy LU3(B)

- B. Establish programs that will allow elderly homeowners who wish to age in place to retain their homes or remain in their neighborhoods.
- C. Promote programs such as reverse mortgages that assist the elderly in maintaining their homes to ensure that the elderly have safe and adequate housing.
- D. Work with the owners of subsidized elderly housing complexes to maintain the buildings as affordable housing for the City's elderly residents.
- E. Encourage and support the rehabilitation of housing units to make them handicapped accessible.
- F. Provide incentives to developers to encourage the construction of handicapped accessible housing units.
- G. Encourage and support the creation of permanent supportive housing for persons with special needs.
- H. Encourage the development of programs that will assist the homeless in acquiring permanent residences.
- I. Support the continued operation of emergency shelters.
- J. Support agencies that provide housing and supportive services to homeless persons and families.

OBJECTIVE H5: HOUSING DESIGN

Promote high quality residential design throughout the City.

Strategies:

- A. Encourage innovative residential design and construction through the use of LEED, Energy Star and other green building standards.⁴¹
- B. Create design standards for quality residential construction.⁴²
- C. Create regulations for quality residential site design.
- D. Develop a pattern book of residential designs based on Providence's vernacular architecture.
- E. Determine appropriate residential densities to accommodate growth in areas of change without negatively impacting surrounding neighborhood character.⁴³

OBJECTIVE H6: HOUSING AND TRANSIT

Promote the integration of housing and transit services.

Strategies:

- A. Amend the zoning to create nodes to focus medium density and high-density development, including institutions, in transit oriented developments along high use transit lines.
- B. Promote transit oriented development as a tool for growth in housing and as an economic development tool.
- C. Place new residential developments at locations that increase potential ridership on the transit system and support Providence as the regions employment and cultural center.

⁴¹ See Strategy SE4(B)

⁴² See Strategy SE4(B)

⁴³ See Strategies BE3(A) and LU3(A)2

- D. Locate transit oriented development nodes near parks and schools to maximize the benefits of the public's investments to as many households as possible.

OBJECTIVE H7: HOUSING AND THE REGION

Work with the state and other local governments to address housing needs in Providence and throughout the state.

Strategies:

- A. Encourage the state to develop special needs and affordable housing in other communities.
- B. Encourage the state to continue to create new funding sources for housing development with a dedicated percentage of the funds set aside for Providence.
- C. Encourage the state to reinstate the state Historic Tax Credit Program to facilitate further preservation and redevelopment in Providence.

7. Mobility

GOAL 5: Anticipate and meet the transportation and mobility needs of residents, businesses and visitors.

Mobility, the ability to move from place to place safely and conveniently, is a key measure of Providence's quality of life. Most Providence residents are

accustomed to the convenience of getting places by car. Voluntarily or involuntarily, many others experience the difficulty of navigating the city without a car.

A balance must be achieved between the supply of transportation facilities and the demand for their use. It has been demonstrated in city after city that government cannot afford to build enough roadways to meet the demand for auto travel. The cost is too great -in dollars, environmental degradation (decreasing air quality, fossil fuel consumption), and in visual blight. Instead, local governments must focus on alternative solutions such as more efficient use of the roadway system, expanded transit opportunities, and more options for biking and walking. In addition, demand for transportation should be offset by greater use of telecommuting, home offices, mixed-use development, and the opportunity to live and work in close proximity.

Providence cannot expand its existing road infrastructure without destroying the neighborhood fabric the residents of the city value most. The city developed before automobiles were the dominant means of transportation and our roads are narrower than roads seen in cities which developed after the advent of the automobile. To that end, Providence must take steps to address expanding transportation needs with well integrated, multiple modes of transportation that provide convenient access for citizens, minimize impact on the environment, sustain quality of life throughout the city, and support economic activity. The City's transportation policies must ensure the adequacy of the existing roadway system while developing and promoting practical alternatives that complement automobile travel. To be accepted by the public, transportation alternatives must be convenient, safe, affordable, and comfortable.

Transportation infrastructure is expensive and has major impacts on how residents live. It both influences and is influenced by development. The City must consider the transportation systems diverse range of users, including residents of all ages and abilities, business commuters, visitors and tourists, shopping and recreational travelers, and freight carriers.

Residents want and need a variety of options depending on where they are going on any given day or time of day. The City also recognizes that walking is a part of almost every trip, and supporting the quality and safety of the pedestrian environment is essential. Providence's social, economic, and environmental sustainability requires that the overriding preference for automobile travel be reduced through incentives for transit use, a more robust transit system and disincentives for automobile usage.

7.1 Changes, Challenges & Opportunities

Changes

Roadways. The relocation of I-195 is complete. The removal of the obsolete I-195 highway superstructure is underway and will be completed in 2012 and will allow for reconnection of portions of the traditional street grid downtown. Design of the reconnected local street grid and its major intersections is underway between RIDOT, the City and interested stakeholders. Other main roads in the City have also been upgraded through the pavement management program.

Transit. The reconstruction of Kennedy Plaza as an intermodal transportation center has been completed since the writing of Providence 2000.RIPTA has implemented programs with Providence employers, such as the hospitals and universities, to encourage bus ridership through reduced price bus passes to reduce congestion. Due to recent increases in fuel prices, RIPTA has also seen a steady increase in ridership. Trolley service also serves several neighborhoods in the city.

MBTA has increased the number of trains running between Providence and Boston to 12 a day, increasing the opportunities for Providence residents to work in Boston and vice versa, however these trains do not always run at times convenient for commuters. Amtrak has also added high speed train service (the Acela) between Providence and points north and south of the City. Additionally, the Transit 2020 Working Group was convened to study the state of transit in Providence and Rhode Island and released their report on expanding transit and the need to change the public's transportation habits in early 2007. The working group's key findings included the need for a robust intermodal transit system and the need for dedicated funding for the construction, maintenance and operating of said transit system. The MBTA has recently increased service to the Warwick Intermodal Station which will allow more people to commute by train from Warwick to Providence.

Transportation Funding. Federal funding for transportation has changed significantly in the past 20 years, first with the passage of the intermodal surface transportation efficiency act of 1991 (ISTEA) and its subsequent reauthorization's through the Transportation Equity Act of 1998 (TEA-21) and Safe Accountable Flexible and Efficient Transportation Act-A Legacy For Users (SAFETEA-LU) in 2005. As a result of these laws state transportation agencies are required to systematically plan transportation investments. SAFETEA-LU in particular emphasizes maintaining and improving existing infrastructure over constructing new roads and highways. The SAFETEA-LU authorization has expired, and transportation funding is currently being provided through Congress passing continuing resolutions. It is anticipated that a new transportation authorization bill will be considered by Congress in 2012.

ISTEA created and subsequent transportation bills continued the Transportation Enhancement Program which provides funding for pedestrian, bike, and streetscape improvements in communities. In Rhode Island, these funds are administered by RIDOT through the Technical Advisory Committee (TAC), which establishes the list of projects and their priority for completion through the Transportation Improvement Program (TIP). Providence has received funding for several enhancement and infrastructure improvement projects through the TIP.

UPass and Eco Pass. The University Pass Program (U-Pass), which RIPTA first introduced in 2001, provides students with a smart card that allows the colleges and universities they attend to subsidize transit per ride, eliminating the need to distribute monthly fare products and encouraging transit usage among occasional riders. The Universities can distribute as many cards as they want, and pay only for the rides taken. Participating Providence institutions include Brown University, CCRI, Rhode Island School of Design, Rhode Island College, the University of Rhode Island, Johnson & Wales University, and Providence College.

RIPTA has also recently introduced the Eco Pass program, an annual unlimited ride pass, for employers interested in offering their employees a reduced-cost transit benefit. Similar to the U-Pass program, the Eco Pass program provides users with a smart card that allows employers to distribute as many cards as they want, and pay only for the rides taken. The City of Providence has recently joined the Eco Pass program, along with private sector companies such as Blue Cross Blue Shield of Rhode Island, Nortek, The Rhode Island Foundation, and various downtown law firms.

Bus Routing. Bus routers now use Edulog software to establish the shortest routes with shorter idling times, reducing carbon emissions and gas consumption.

Alternative Transportation. The City actively encourages use of alternative transportation modes, including cycling. This helps reduce traffic, improves air quality and results in improved physical fitness. Major improvements include the Providence to Johnston bike path and the Blackstone Boulevard bike lanes. The City has added 120 bike racks downtown and increased the number of crosswalks to improve pedestrian safety and mobility. Bike to Work Day is an annual event in which the Mayor has been a regular participant.

Sustainable Communities Initiative. HUD, USDOT, and the US EPA have partnered to streamline planning processes at their agencies. Through this initiative new federal funds are available for communities that demonstrate tangible connections between transit, housing, and environmental sustainability.

Challenges

Roadway Congestion. The highways and local roads of Providence have become increasingly crowded over time. Vehicle miles traveled have increased and the number of persons per car has decreased. Congestion is time-consuming, inefficient and frustrating to drivers. New development presents concerns about the impacts of increased traffic throughout the city.

Aging Infrastructure. As they age, the city's roads, sidewalks and bridges require regular maintenance, such as resurfacing, to keep them functioning safely and efficiently. Infrastructure such as roads and sidewalks is expensive to maintain, and the City has limited funding for these projects. The City cannot expand its existing infrastructure, it must find ways to use existing infrastructure more efficiently.

Bicyclists, Pedestrians and Transit Riders. Most roads in Providence were built before the car became the preferred form of transportation. Today, however, these roads are dominated by cars and trucks, leaving little space for pedestrians, bicyclists, and transit riders. The City must work to accommodate the increased demand of Providence residents to walk, bike and take transit. The increased desire of Providence residents to take transit coincides with a time of decreased funding for transit services. RIPTA is constantly threatened by budget

cuts and other potential funding problems. Residents of and commuters to Providence will only slowly change their longstanding preference for driving and only if there are adequate alternative modes of transportation that are safe, comfortable, convenient, and affordable.

Parking. Parking spaces are at a premium in the city. Parking downtown is difficult to find and/or expensive. Parking in neighborhoods often occurs on small side streets where it can impede traffic flow and decrease visibility. In smaller commercial areas parking turnover can be slow and/or parking is not readily available for quick shopping trips. The increase in development throughout the city has increased the pressure on existing parking and has compounded the need for more parking. The city must decrease demand for parking by increasing transit and other alternative transportation opportunities. On-street overnight parking has long been a contentious issue in the city. Many residents are supportive of the concept and just as many are strongly opposed. A pilot Resident Permit Parking program is underway in several areas of the City.

New Development. Since the middle of the 20th century, the automobile has dictated the way communities have developed. This is true even in a compact, built out city such as Providence. Today, the challenge is accommodating new development within our existing transportation system. New developments in the city must accommodate multiple types of access such as by pedestrian, bus and bicycle. New developments in the city have a significant impact on traffic, particularly when several developments occur in the same corridor or neighborhood.

Funding. Improvement of transportation infrastructure is extremely expensive. Improvements to our roadway system will require the city to evaluate traditional and nontraditional funding. Federal, state, and local dollars no longer meet the transportation needs of Providence. The majority of existing federal funding goes towards maintenance of existing highway infrastructure. There is little federal and no state money available for increasing transit in Providence and the rest of Rhode Island.

RIPTA Service Area Limitations. Currently RIPTA cannot cross state lines. Transforming RIPTA into a regional transit provider would benefit not only Providence, but all of southern New England.

Opportunities

Interstate 195 Relocation. The relocation of I-195 has provided safer and more efficient travel through parts of the City. Its completion now allows the reconnection of the historic street grid when the highway superstructure is removed, contributing to improved multi-modal connectivity throughout the city. RIDOT and the city are committed to providing bike and pedestrian amenities along the streets reconstructed as part of the IWay project.

Expansion of Transit. The MBTA is in the process of expanding commuter rail service south of Providence. The Warwick intermodal station opened in the Fall of 2010, construction is underway on the Wickford Station and plans for expansion include East Greenwich and Kingston. This expansion in service will allow more people who work in Providence to commute without their car, decreasing congestion. Transforming Providence Station into an intermodal transit hub will also reduce congestion in the city. The expanded service south of the city must be

developed in conjunction with the existing MBTA and Amtrak trains which stop in Providence. A decrease in the number of trains stopping in Providence would be a detriment to the city.

Transit 2020 and the Metropolitan Providence Transit Enhancement Study. In 2006, the City convened a group of stakeholders from across the Providence Metropolitan area to tackle one of the defining issues for the future of Providence and Rhode Island: our transportation system. Following that effort, RIPTA and the City of Providence completed the Metropolitan Providence Transit Enhancement Study in December 2009, setting forth ten recommendations for improving the network of transit services within the metropolitan area and providing the opportunity to realize a range of potential mobility, livability, development and health benefits. These recommendations include:

- Providing additional bus service;
- Improving the transit experience through branding, new technology, and improved pedestrian amenities at bus stops;
- Reinventing Kennedy Plaza with improved pedestrian space and a reduction in bus congestion;
- Introducing new peripheral transit hubs to offer riders more efficient routes to the west side, college Hill, Capital Center, and the Hospitals;
- Increasing park and ride capacity;
- Initiating rapid bus service from Providence to Cranston and Pawtucket along the 11 Broad Street and the 99 North Main/Pawtucket bus lines;
- Building a Providence streetcar system;
- Strengthening intermodal connections;
- Expanding programs for commuters; and
- Capitalizing on transit-oriented development.

Today, the Transit 2020 Action Group works to promote the development of a robust transit system for the metro Providence area and ensure that the recommendations of the Metropolitan Providence Transit Enhancement Study become a fully funded reality. This group includes a broad coalition of organizations including other metro Providence communities, environmental advocacy groups, transit and smart growth advocacy groups, local businesses, and important institutions.

RIPTA and the City are evaluating one of the ten Metropolitan Providence Transit Enhancement Study recommendations, to build a Providence streetcar, in more detail, initiating the Providence Core Connector Study. The Core Connector Study explores the feasibility, cost and benefits of constructing and “urban circulator” (i.e. streetcar or enhanced bus service) to connect key locations within a two-mile corridor between Downtown, the Hospitals in Upper South Providence, and College Hill. If built, the proposed circulator system will connect the state’s most significant educational, medical, employment and cultural destinations to the state’s central bus hub and a major intermodal rail station serving both Amtrak intercity and MBTA commuter rail trains.

New Development. In new developments that include transit stops, transit oriented development can support other goals of *Providence Tomorrow*, such as neighborhood revitalization, local business development, affordable housing, and access to public amenities.

Public & Private Partnerships. In this time of decreased federal and state funding for transit and infrastructure improvements, the time has come for joint public and private funding of improved transportation facilities.

7.2 Objectives and Strategies

The objectives and strategies below correspond with strategies outlined in *Transportation 2025, Element 611 of the State Guide Plan*

OBJECTIVE M1: DIVERSE TRANSPORTATION OPTIONS

Provide residents, businesses, employees and visitors with a variety of transportation options that are safe and convenient.

Strategies:

- A. Advocate for transportation options, such as transit, bicycling and walking that increase mobility and connectivity throughout the city.⁴⁴
- B. Promote public transit as a safe, attractive and convenient choice for those who might otherwise drive to employment, education, cultural, and other destinations.⁴⁵
- C. Identify areas throughout the City where transportation policies should reflect pedestrian priorities. These include schools, child care centers, civic institutions, business centers, shopping districts, and parks.
- D. Provide for the special transportation needs of people without cars, families with small children relying on transit, school-age children, people with physical disabilities, low-income persons, and the elderly.
- E. Address the transportation needs of visitors, tourists and people attending special events and major attractions through an integrated event traffic management plan.
- F. Recognize that, due to the limitations of roadway width, existing streets must operate more efficiently to carry a greater volume of vehicles.
- G. Increase carpooling rates by promoting RIPTA’s free carpool matching service for municipal employees and promoting carpooling for all automobile commuters.
- H. Promote car sharing services such as Zip Car throughout the city.

OBJECTIVE M2: TRANSIT

Encourage investment in existing modes of transit as well as new transit options, including the RIPTA system, commuter rail and other new modes to increase mobility for Providence residents, and improve air quality.

Strategies:

- A. Encourage mass transit use to reduce air pollution and congestion caused by automobiles and to alleviate the need for additional parking in the City.⁴⁶

⁴⁴ See Strategy SE1(F)

⁴⁵ See Strategy SE1(F)

⁴⁶ See Strategies SE1(F) and BJ2(E)

- B. Require employers which receive city or state funds to promote transit as an alternative to driving through partnerships with RIPTA, through programs such as transit incentives.
- C. Work with RIPTA to increase transit ridership and promote alternative transportation modes available to residents.
- D. Encourage RIPTA to provide improved pedestrian amenities at bus stops and park and rides, including secured bicycle parking, schedule information, and real time arrival information.
- E. Encourage RIPTA to expand bicycle rack capacity on their buses.
- F. Strengthen intermodal connections by encouraging additional passenger amenities at the train station, schedule and fare coordination between RIPTA and MBTA, and enhanced wayfinding.
- G. Work with RIPTA to improve access to transit in the neighborhoods.
- H. Encourage the expansion of commuter rail to points south of the city while maintaining and/or adding to the existing level of service at Providence Station.
- I. Through the Providence Core Connector Study, explore the feasibility, cost and benefits of constructing an “urban circulator” (i.e. streetcar or enhanced bus service) to connect key locations within a two-mile corridor between Downtown, the Hospitals in Upper South Providence, and College Hill.
- J. Investigate the feasibility of extending streetcar service to other neighborhoods if the original core connector route is implemented.
- K. Explore ferry, water taxi, and other waterborne transit options.⁴⁷
- L. Support the creation of dedicated revenue sources for transit.
- M. Explore innovative funding options for transit.
- N. Require major land development projects to have a “trip reduction plan’ to reduce car trips.
- O. Support RIPTAs efforts to improve the experience of riders by clearly identifying its services and communicating how they work, through branding, providing better information through new technology, and building new bus stops.
- P. Continue to work towards reinventing Kennedy Plaza to enhance rider experience, improve pedestrian space, and reduce bus congestion in the Plaza.
- Q. Rewrite the Providence Zoning Ordinance as a tool to implement transit-oriented development and the City’s overall livability and sustainability goals for transit corridors.
- R. Support RIPTAs efforts to create new park and ride locations to serve communities along crowded commuter routes.
- S. Support RIPTAs efforts to implement Rapid Bus Service along the 11 Broad Street and the 99 North Main/Pawtucket bus routes.
- T. Support RIPTAs efforts to expand Rapid Bus Service to other high-use routes in the City.
- U. Work to create community hubs at key nodes along high-use bus corridors.

OBJECTIVE M3: WALKING

Promote walking for commuting, recreation and other trips by creating safe and attractive pedestrian environments throughout the city.

Strategies:

- A. Give greater priority to traffic calming and pedestrian features throughout the city.
- B. Establish traffic calming standards for the city. (Underway)

⁴⁷ See Strategy W6(C)2

- C. Encourage pedestrians to travel in the downtown area by providing safe walkways, corridors and intersections.⁴⁸
- D. Ensure pedestrian safety on neighborhood streets through signs and traffic management.
- E. Evaluate existing pedestrian accessibility in the neighborhoods and develop a pedestrian access improvement program to address any shortcomings.
- F. Encourage the development of walkways and corridors to improve pedestrian access to the waterfront.⁴⁹
- G. Ensure that sidewalks are continuous along all major Providence streets and that they provide pedestrians and transit riders with direct access to commercial areas, education facilities, recreational facilities, and transit stops.
- H. Identify gaps in the City's sidewalks and develop a plan for filling these gaps in order to increase connections for pedestrians.
- I. Create design standards for pedestrian facilities throughout the city that address items such as materials, street furniture, maintenance, and traffic calming (underway).⁵⁰
- J. Increase enforcement of pedestrian, bicycle and car traffic violations.
- K. Promote pedestrian and driver education programs that emphasize pedestrian safety.
- L. Improve traffic signal timing, and where appropriate, institute a pedestrian phase.

OBJECTIVE M4: BIKING

Provide safe and convenient facilities to encourage bicycling for commuting, recreation and other trips.

Strategies:

- A. Develop and implement a new bicycle plan for the city including bicycle infrastructure, expanding and connecting the bike path network, adding bike lanes, and installing signage to provide directions, increase awareness, and improve safety for cyclists.
- B. Promote Providence as the hub of the statewide bicycle network.
- C. Create design standards for bicycle parking.
- D. Evaluate ways to improve bicycle connections between neighborhoods.⁵¹
- E. Promote bicycle rider and river education programs, emphasizing bicycle safety and sharing the road.
- F. Explore the potential for incorporating bicycle lanes as part of pavement resurfacing projects in the city.
- G. Encourage employers to provide facilities such as bicycle lockers and showers for bike commuters.⁵²
- H. Pursue supplemental funding sources for bicycle network development.
- I. Update the Development Review Regulations to require developments to provide bicycle facilities.
- J. Explore incentives for employers and property owners who provide bicycle facilities, beyond that which is required by law.⁵³

⁴⁸ See Strategy BE4(A)

⁴⁹ See Strategies PS3(D) and W6(A)

⁵⁰ See Strategies BE4(D) and PS3(A)

⁵¹ See Strategy PS3(E)

⁵² See Strategy W6(B)1

⁵³ See Strategy W6(B)2

OBJECTIVE M5: ROADWAYS

Manage the effectiveness of Providence’s roadway network, including its street grid, by investing in operational and reconstruction improvements.

Strategies:

- A. Explore funding options for conducting a citywide traffic study that includes all modes of transportation.
- B. Create standards for reviewing Physical Alteration Permit and street abandonment applications to maximize the efficiency of the street grid.
- C. Improve and maintain the City’s road system with proper lane designations, adequate signs and traffic signal improvements, as well as bicycle and pedestrian safety enhancements.
- D. Review and monitor traffic and development data to assess the adequacy of the existing system and make recommendations for improvement.
- E. Continue to upgrade traffic signals to Light Emitting Diode (LED) signals.
- F. Create and maintain a standard sign and wayfinding system for the city.
- G. Continue to implement the pavement management plan.
- H. Develop and implement a plan for the maintenance and improvement of sidewalks throughout the city.
- I. Amend regulations to establish concrete as the standard for sidewalks throughout the city.
- J. Direct commercial and institutional traffic to major arterials.
- K. Develop an integrated traffic system for the smooth flow of transit, pedestrians, bicyclists, cars and other alternate modes of transportation throughout downtown upon completion of the I-195 relocation.
- L. Evaluate existing traffic patterns in the neighborhoods and make recommendations for alterations and improvements where necessary.
- M. Discourage the use of neighborhood streets for intracity travel and commercial and institutional traffic.

OBJECTIVE M6: PARKING

Develop a citywide comprehensive approach to parking that addresses parking needs both downtown and in the neighborhoods as adequate parking is crucial to the future economic development of the city.

Strategies:

- A. Identify ways to maximize the efficiency of existing parking to increase access to jobs, downtown and commercial areas of the city.
- B. Explore opportunities for shared parking to decrease the amount of parking needed.
- C. Implement the recommendations of the City of Providence Parking Management and Organizational Review Report including reconstituting the Providence Off-Street Public Parking Corporation.
- D. Create standards for balancing the parking needs of new development against the needs of the city and its neighborhoods.
- E. Consider the strategic placement of parking garages Downtown to limit the amount of parking needed in neighborhoods.

- F. Where feasible, require Major Land Development Projects to link to transit to limit the amount of parking required.
- G. Encourage the elimination of surface parking lots and discourage the creation of new surface parking lots as they are a detriment to the city’s economic future and its built environment.⁵⁴
- H. Reduce the amount of surface parking in the city to increase green space and developable land through regulations such as :
 - 1. Maximum parking requirements
 - 2. Tying parking requirements to proximity to transit facilities
 - 3. Allowing on-street parking to be counted by businesses in their parking calculations.⁵⁵
- I. Reduce paving of residential properties by expanding Residential Permit Parking throughout the City.
- J. Increase enforcement of existing parking lot design and landscaping standards throughout the City.
- K. Consider regulatory incentives to discourage the development of surface parking lots throughout the City.
- L. Develop parking throughout the city in such a way that allows drivers to park once and reach all their destinations.

OBJECTIVE M7: PROMOTE SMART GROWTH

Plan, design, and invest in transportation infrastructure and systems that support the principal uses within the area, and provide strong interconnections to downtown, the neighborhoods and other destinations.

Strategies:

- A. Strengthen multi-modal connections and transportation improvements within and between existing and potential transit hubs.
- B. Promote Transit Oriented Development (TOD) as an urban design framework. Development at transit nodes should provide for both higher transit ridership and viability and walkability in the area.⁵⁶
- C. Require all Land Development Projects to conduct traffic impact analyses that examine the cumulative impact of all project phases in concert with other developments proposed in the vicinity.
- D. Require traffic impact analyses to examine all modes of transportation (car, pedestrian, bicycle, and transit.)
- E. Require developers to create connections within projects to alternative modes of transportation.
- F. Amend Development Review Regulations to provide for RIPTA review of Major Land Development Projects.

⁵⁴ See Strategies BE3(E) and LU4(C)4

⁵⁵ See Strategy BE7(J)

⁵⁶ See Strategies BE3(B) and LU4(B)1

OBJECTIVE M8: TRANSPORTATION AND THE REGION

Work with federal and state government agencies to improve Providence's transportation and transit infrastructure.

Strategies:

- A. Work with RIDOT and RIPTA to continue transportation initiatives that enable low income workers and job seekers to access job opportunities and achieve economic independence.
- B. Work with RIPTA to increase ridership by distinguishing current and potential high use routes by making those routes and the vehicles that serve them more appealing and easier to access.
- C. Encourage the state to provide adequate funding for RIPTA to become an excellent statewide transit system with Providence as its center.
- D. Encourage RIPTA, MBTA and Connecticut Commuter Rail (including Shoreline East, New Haven Line and Metro North) to implement a unified fare system.
- E. Encourage the state to provide more funding for bike transportation.
- F. Encourage RIDOT to equitably maintain roads classified as primary and collector under the functional classification system in highly urbanized areas such as Providence, as it does in suburban and rural communities.
- G. Work with RIPTA and state and federal governments to transform RIPTA into a regional transit authority with service to border communities in Connecticut and Massachusetts.
- H. Encourage RIDOT to create design standards for urban infrastructure projects such as bridges and highways.
- I. Advocate for the TIP process to put a higher priority on transit infrastructure projects.
- J. Work with the surrounding communities to implement the recommendations of Transit 2020 and the Metro Transit Planning Initiative.
- K. Continue to work with the other communities in the state and the utility companies in creating a single standard for repairs to pavement and sidewalks due to utility work.
- L. Work with the state to establish clear responsibilities for transit agencies.

8. Arts and Cultural Resources

GOAL 6: Cultivate a more sustainable and robust creative sector by encouraging community-wide stewardship for interdependent elements of art, culture, and creativity in Providence.

Providence is a place built upon innovation and creativity. For centuries, creative businesses, cultural institutions, artists, designers, writers, and scholars have shaped the city's economic development, social progress, and quality of life. This cultural legacy has inspired, and at times challenged, successive generations of

Providence residents to define the city by its art, scholarship, and creative entrepreneurship. Providence artists and institutions are widely recognized for their commercial and critical success - making our city the region's creative capital.

The local creative sector is a cornerstone of Providence's past, present and future prosperity and unique sense of place. However, our economic well-being is only one part of developing a healthy, strong, and creative Providence. The local creative sector also nurtures society's young leaders, transforms some of our most troubled youth, and is a critical component of fostering creative problem solvers in our schools. Across the city, theaters, libraries, public media, and humanities programs require and allow citizens to ask provocative questions about the human condition and support rigorous civic dialogue.

In challenging times, it is appropriate to design a blueprint for the continued evolution of our city. In the past, citizen-led efforts to generate new ideas about Providence's future prosperity have offered the city rich opportunities to redefine itself—to move rivers, to revitalize downtown, and to invest in healthy neighborhoods. Downtown's renewal was anchored in the belief that our high quality arts organizations would drive economic activity and provoke the public to re-imagine the city's center. The city's artists have driven redevelopment in the neighborhoods and city streets. They have breathed life into our aging industrial infrastructure and been the catalysts for civic dialogue.

8.1 Changes, Challenges & Opportunities

Changes

Creative Providence: A community-wide cultural plan. In fall, 2008, the Department of Arts, Culture + Tourism (ACT) commenced a yearlong study of the strengths and weaknesses of the capital city's creative community. The goal of this effort was to better position the city to realize its full potential as a creative center by developing a comprehensive cultural plan. Cultural planning increases the sustainability and scope of our City's creative ecosystem. *Creative Providence*, is a ten-year guide for public policies, private initiatives, and investments for the capital city. *Creative Providence* is a broadly inclusive, community-wide effort that engaged thousands of Providence citizens in opinion research and hundreds of community activists, individual artists, arts administrators, and business leaders in cultural planning. The *Creative Providence* planning team identified clusters of critical issues that resonated with the community across the cultural assessment—an online survey, interviews, community forums, and focus groups. These themes became the foundation for cultural planning studio sessions and, later, goals of the cultural plan. The cultural plan outlines strategies for cultivating a more sustainable creative sector, and the high intentions it describes are already achieving results. *Creative Providence* is partly prescriptive, outlining long-range goals and some bold outcomes that may take decades to realize or that will require new resources and improved economic conditions. Creative Providence also calls out and endorses new initiatives, partnerships, and plans already well underway. Planning conversations have already enabled new partnerships and initiatives among funders, arts education advocates and researchers, neighborhood services, providers of management assistance and information, and those branding and marketing the city's cultural assets.

A Diverse and Growing Arts Community. The Providence arts and cultural community is incredibly diverse, represented by over 400 organizations ranging from large institutions that present the highest quality work to community-based organizations steeped in the various⁵⁷ cultures of our residents. The broad array of colleges and universities also provide a rich mix of cultural and athletic activities. These organizations not only improve our quality of life and make the city a desirable place to work and visit, but also make great contributions to our economy and enrich our children's' educational experience. The city is also home to thousands of individual artists and musicians that contribute to our civic life. The city has created an atmosphere which encourages the growth and expansion of existing arts organizations and programs. Trinity Repertory Company, Festival Ballet and the RI Philharmonic are all on upward trajectories, as recognized by national publications and foundations. The Providence Performing Arts Center has been restored to its original beauty and is programmed with nationally touring shows and serves as a cultural center for the city. The Veterans Memorial Auditorium Arts & Cultural Center has reinvented itself and is contributing to the revitalization of a long ignored corner of downtown. Waterfire has captivated millions and reawakened the city's spirit. The \$30 million RISD Museum expansion project has enhanced the school's impressive collection, which ranks third in New England and 20th in the nation in size. AS220 led the revitalization of Empire Street and is now doing the same on Washington Street.

⁵⁷ *Arts and Economic Prosperity III*, Copyright 2007, Americans for the Arts. Page 3.

Community MusicWorks, New Urban Arts and the Carriage House give young people opportunities for inspiration and hope. The Steel Yard and Monahasset Mill have helped transformed a neighborhood. Our culturally based organizations such as the Latin American Film Festival, ECAS Theatre and RI Black Storytellers have grown strong. Additionally, many new arts and cultural organizations, events and festivals have been created – such as Sound Session, the Providence-based Rhode Island International Film Festival and the award-winning *Celebrate Providence* Neighborhood Performing Arts Initiative. Our individual artists have also thrived. From musicians to painters, jewelry designers and photographers, this economy of individual working artists has founded record labels, started artist collaboratives, and built community in areas that were long ignored. Our individual artists have made contributions to our creative economy and continue to develop innovative ways to approach and support the industrial economy of our city.

Providence Tourism. Through the collaborative efforts of the City, the Providence Tourism Council and the myriad of arts and cultural organizations in the city, Providence is now a regional tourism destination. There have been significant public and private investments in the arts economy including the moving of the rivers and resulting creation of Waterplace Park and Waterfire, and the renovation of the Providence Performing Arts Center. A large contributor to Providence's appeal is its growth in the convention and hospitality industries. Construction of new hotels and the completion of the Rhode Island Convention Center have attracted thousands of people to Providence. Other attractions include our strong architectural legacy and the variety and quality of restaurants located throughout the city, boosting Providence's reputation as a culinary destination.

Challenges

Creative Education in School. Creative education opportunities grounded in arts learning experiences are diminishing in schools and community life. In many schools, creative learning is often forced to compete against other district priorities for time and funding. Compounding this problem, many educators themselves are members of a generation who did not experience cohesive arts education programs as students. When arts education is offered, it is not always accessible to all students. Providence has a reputation as a center for arts, culture and creativity, yet participants in the *Creative Providence* cultural assessment persistently cited dissatisfaction with the current state of arts education in Providence – in interviews, community forums, focus group discussions, and the online survey.

Nonprofit Arts and Cultural Organizations Precarious. The city's nonprofit arts and cultural organizations anchor the local and regional creative sector, employ Providence artists, provide cultural and educational opportunities for citizens, and attract tourists. Ironically, cultural organizations are both successful and precarious. Nonprofit cultural organizations are critical to Providence yet many face an unprecedented crisis, as dramatically reduced funding, increased costs, and changing audience habits converge into a perfect storm that threatens their survival. Many need help with funding, board and staff development, and management assistance. Even before the recession, staffs were not well paid and worked beyond a sustainable pace. Most are undercapitalized, under-funded, and lack overall capacity. Most nonprofits entered 2009 and the growing financial emergency with no reserve capacity. The international financial crisis is affecting virtually all nonprofits and mid-sized cultural organizations that are especially vulnerable to funding cuts. Contemporary dance and experimental theatre are particularly in jeopardy. Many are laying off staff. Funders are increasingly receiving

appeals for emergency funding without the discretionary funding to respond. Some organizations are likely to fail. Non profits are challenged as never before. Creative Providence aims to address short-term strategies to mitigate the impact of the crisis and long-term strategies to help make the sector more resilient.

Creative Professionals are Small Businesses. While artists and other creative workers are the foundation of the creative economy, individual creative workers are very vulnerable. Nearly two thirds of Providence artists responding to the 2008 *Creative Providence* survey reported they must work at non-arts jobs to support themselves or their families. Health insurance, affordable studios and housing, and revenue are critical needs. The recession has exacerbated their struggle to be creative and make a living.

Funding for the Arts. Corporate, foundation and government funding for the arts on the local and national level has been erratic over the past ten years. Currently there is no robust, dedicated funding source for the arts in Providence. These factors have created an unpredictable funding atmosphere that makes it difficult to forecast the future of the city's arts organizations. While the community clearly understands the value of the arts to quality of life and the economy of the region, the sustainability of the arts and cultural economy remains in question.

Opportunities

Creative Economic Development. Providence's creative workforce and enterprises create jobs, strengthen neighborhoods, and enhance the City's quality of life. This workforce includes: entrepreneurs creating companies, people employed in both not-for-profit and commercial organizations, and the legions of self-employed creative workers. Creative Providence mobilizes the City's remarkable creative assets to help stimulate the economic recovery for Providence and contribute to the City's long-term prosperity.

Too Big to Fail. Recent research studies document the creative sector's significant economic impact. Creative enterprises are a formidable industry in the United States. As of January 2010, 6,284 people work for 1,261 arts-related businesses in Rhode Island's Congressional District 1. (4) In Providence, nonprofit arts and cultural organizations generate \$111.81 million annually in local economic activity. This spending supports 2,759 full-time equivalent jobs, generates \$55.56 million in household income to local residents, and delivers \$11.08 million in local and state government tax revenue.(5)

Increase and Diversify Cultural Participation. A vibrant Providence depends on activities and institutions that are comprised of – and serve – the many cultures in the city's 25 distinct neighborhoods. Providence is rich in cultural diversity and artistic and creative expression, yet for many of its residents, limited money, education, and transportation prevent them from fully accessing and participating in arts and cultural opportunities. Participation in arts and culture builds communities and stabilizes neighborhoods' social diversity. The cultural plan works to break down barriers to participation, make the local arts and humanities communities more representative of the city's population, and pave the way for fuller access to the arts for all. To do this, we must broaden our understanding of cultural participation, recognize and support the many ways in which citizens engage with the arts, and promote Providence's culturally distinct neighborhoods as sites of rich cross-cultural exchange. Authentic cultural participation includes a wide variety of artistic and cultural expressions, reflective of a pluralistic American society. Providence has many exceptional arts service providers, recognized nationally

for making excellent creative learning opportunities available to students outside of school. These after-school arts learning providers have led the way in quality arts experiences for our city's youth and are anxious to make a larger contribution. Currently, most of the city's community arts programming focuses on the high school level. Collaborative efforts between Hope High School and RISD have demonstrated amazing results. The arts proficiency graduation requirements provide an opportunity for Providence to rebuild the creative learning curriculum and reach outside school walls to the city's rich arts community.

Creative Learning and Teaching. Creative learning provides youth with critical thinking skills essential for a creative life and prepares students to participate fully as citizens and members of the 21st century global workforce. Studies find that the arts can help students gain skills in areas valued by today's employers, such as innovation and creative problem solving. The creative sector can help strengthen pathways for all students to have access to creative learning.

A Community of Creative Individuals. Providence is home to more artists per capita than any other U.S. city. Individual artists, designers, and other creative workers are responsible for the City's rich diversity of disciplines, cultural institutions, creative industries, and cultural products. Creative workers are the basis of Providence's national reputation as a center for creativity. Creative workers and a creative city are mutually interdependent. Providence will not succeed without the support of its creative individuals (and vice versa). Their livelihood and quality of life depends on the city's ability to thrive, as a dynamic, creative city. Accordingly, the City recognizes the tremendous benefits associated with the presence of many different kinds of artists – artists stimulate the local economy and enhance the quality of the city's social and cultural life.

Raise Visibility of the Creative Sector. The cultural plan intends to leverage the city's arts, culture, and creative assets to secure strong and consistent support for creative industries from area businesses, government, civic organizations, and the public. Economists have long recognized that the cost of cultural programming nearly always exceeds earned revenues. Public benefits require public support. The challenge for the cultural plan is to more effectively communicate the powerful impact of these critical community benefits.

Marketing. Providence is home to world-class higher education institutions, a growing knowledge economy, preeminent cultural institutions, many high-quality artists and designers, creative businesses, and creative workers. Performances, museums, festivals, and events draw a regional audience. Many people view the City's new branding efforts – in which Providence claims the title The Creative Capital – as an authentic reflection of its identity as a creative and cultural center.

Cultural tourism. One cannot mistake Providence for somewhere else. Providence is fortunate that it need not invent an identity for itself like many American cities are forced to do. The city's historic landscape, restaurants, niche tourism markets, and thriving art scene attract a diverse range of visitors from near and far to the city. Cultural facilities and programs have been significant catalysts to downtown revitalization.

Funding for the Arts. In 1980, the City Council adopted the *Art in City Life* ordinance, which required one percent of total project costs for the reconstruction or remodeling of any building, decorative or commemorative structure, park, street, sidewalk, parking facility or utility paid for in whole or in part by the City

to be expended on works of art. This ordinance has never been enforced. With projects such as Transit 2020 and the overhaul of Providence Public Schools on the horizon, implementation of this ordinance could result in a significant new funding source for the arts.

8.2 Objectives and Strategies

OBJECTIVE AC1: MOBILIZE THE CREATIVE SECTOR

Catalyze Providence's creativity to leverage economic, social and cultural capital.

Strategies:

- A. Focus on economic development initiatives set by Providence's mayor for the creative sector.
- B. Integrate the cultural plan's recommendations for the creative sector into its policies and plan to cultivate creative responses to complex urban issues such as sustainability, social mobility, and equity.
- C. Continue to encourage creative entrepreneurship in the City of Providence.
- D. Develop stronger relationships across sectors to encourage new ideas and innovation.
- E. Investment in creativity to strategically stimulate employment and economic opportunity.
- F. Nurture design, film and digital media as specific industries with high potential for economic development in Providence.
- G. Work with the Mayor's Institute on City Design to set high standards for design excellence in the construction and renovation of all City buildings as well as buildings that receive financial incentives from the city.
- H. Support the development of small and mid-sized venues for galleries, music performances, and visual arts exhibitions downtown, in nearby areas and, where appropriate, in neighborhood commercial corridors in order to serve local artists and attract creative workers, innovators and entrepreneurs, thereby developing sustainable businesses in the City.
- I. Review city zoning, building and fire code regulations to remove unnecessary barriers to arts-related enterprise (formerly AC2B).
- J. Encourage the music scene in the City to regain strength and thrive. Work to restore the loss of small music venues downtown (formerly AC2C).

OBJECTIVE AC2: BUILD AND FOSTER NEIGHBORHOOD VITALITY THROUGH INCREASED ACCESS AND DIVERSIFIED CULTURAL PARTICIPATION

Invest in neighborhood art, culture and creativity to sustain social diversity and engage communities.

Strategies:

- A. Use the presence of arts, culture and creativity in each neighborhood as a lifelong creative learning and community building strategy.
- B. Provide opportunities for people in every neighborhood to participate in the arts by : Coordinating cultural resources as the neighborhood level, promoting the programs and activities sponsored by neighborhood groups and community centers, while supporting neighborhood cultural activities that include but are not limited to festivals, fairs and concerts, and, supporting the use of public facilities such as parks, recreation centers and waterfront venues by neighborhood artists and arts and cultural groups that need space for exhibitions, performances and classes. (Previously Strategy AC1C)
- C. Empower people through public policies and private programs to express their own creativity and explore their individual cultural curiosity.
- D. Use arts and culture to attract people to – and link – Providence’s neighborhoods.
- E. Strengthen neighborhood vitality by increasing public access to arts, culture, and creativity and by working collaboratively to identify, convene, and cultivate a network of community and cultural leaders.
- F. Identify, develop, and establish neighborhood cultural centers utilizing existing civic buildings: libraries, recreation centers, schools, parks, and community centers.
- G. Work with partners to encourage and preserve cultural organizations that collect, present, produce, or give voice to ethnic communities.
- H. Invest in the city’s public art, programs, events, and infrastructure to increase neighborhood-based creativity and encourage the proliferation and preservation of free and accessible public cultural programs.
- I. Continue to enforce the 1980 *Art in City Life* ordinance requiring one percent of total project costs for the construction or remodeling of any building, decorative or commemorative structure, park, street, sidewalk, parking facility, or utility paid for in whole or in part by the City to be expended on works of art.
- J. Develop policies governing decisions about the construction, renovation, or restoration of commemorative art, architecture, and landscape architecture in public spaces and directs investment for the preservation of existing public monuments.
- K. Make all people welcome – socially, physically, economically, and intellectually – with opportunities to participate in cultural offerings that represent and reinforce the many cultures and wide-range of creative practices present throughout the city.
- L. Make lifelong learning in the arts and creative sectors accessible to all Providence residents through lifelong learning partnerships.
- M. Promote awareness of historic resources as a cultural resource and increase awareness of historic preservation.

OBJECTIVE AC3: ECONOMIC DEVELOPMENT AND THE ARTS

Integrate the arts and entertainment into the City's economic development activities.

Strategies:

- A. Include arts and cultural organizations, institutions and businesses in business recruitment and retention efforts.⁵⁸
- B. Continue to highlight the richness and diversity of Providence's arts and cultural activities, institutions and attractions in economic development and marketing plans that promote Providence as a center for tourism, conventions and business. Build identifiable marketing initiatives that support increased participation in arts activities in the City.⁵⁹
- C. Continue to develop strategic alliances to promote the economic benefits of a strong arts and cultural community with agencies such as the following:⁶⁰
 - 1. Providence Tourism Council, Providence/Warwick Convention and Visitors Bureau
 - 2. Providence Economic Development Partnership (PEDP)
 - 3. Rhode Island State Council on the Arts (RISCA)
 - 4. Rhode Island Film and Television Office.
- D. Conduct an assessment of entertainment venues to determine economic and social impacts and identify strategies to promote a healthy arts and entertainment district downtown.
- E. Increase the availability of affordable and accessible artist live/work spaces throughout the neighborhoods by:
 - 1. Identifying levels of affordability and exploring innovative solutions to keeping space cheap
 - 2. Recognizing artist work only studios as jobs to ensure they can be located in areas designated as "Jobs Only Districts" on Map 11.2 'Future Land Use'
 - 3. Reviewing zoning, building codes and fire codes to identify changes that would reduce the cost of developing artist live/work spaces without jeopardizing life/safety needs.
 - 4. Exploring opportunities to partner with arts organizations and private entrepreneurs to develop permanently affordable artist work spaces.
- F. Continue to support and strengthen festival development in the City in order to increase tourism and quality of life.
- G. Explore options to strengthen arts district legislation.
- H. Expand, promote and support internationally prominent arts activities that broaden the city's positive reputation and provide tourism income to the city.

⁵⁸ See Strategy BJ4(B)

⁵⁹ See Strategy BJ1(G)

⁶⁰ See Strategy BJ1(G)

OBJECTIVE AC4 REGIONAL CENTER FOR CULTURE AND THE ARTS

Continue to build and promote Providence as the state and regional center for culture and the arts and as a national and international venue for arts events.

Strategies:

- A. Sustain and strengthen the cultural facilities and organizations downtown and in the neighborhoods.
- B. Support the enhancement of Roger Williams Park and Zoo as a city and regional cultural resource.
- C. Explore the feasibility of new signature cultural attractions such as museums, aquariums and sports venues.⁶¹
- D. Support the development of a well-designed, large outdoor signature events space.⁶²
- E. Design programs that support and encourage individual artists to live and work in Providence.
- F. Establish Providence as a geotourism destination, shaped by the following principles:⁶³
 - 1. Encourage tourism that maintains Providence’s natural and cultural heritage, as a means of encouraging market differentiation and pride in our unique culture.
 - 2. Promote selectivity and diversity within the tourism industry, so as to encourage a full range of food and lodging facilities appealing to the entire demographic spectrum of the market and to create a sustainable tourism market.
 - 3. Encourage local small businesses and civic groups to build partnerships to promote and provide a distinctive, honest visitor experience and market their locales effectively. Help businesses develop approaches to tourism that build on the area’s natural, historical and cultural resources, including food and drink, artisanry, performance arts, etc.
 - 4. Encourage micro-to medium-size enterprises and tourism business strategies that emphasize economic and social benefits to involved communities, especially poverty alleviation, with clear communication of the destination stewardship policies required to maintain those benefits.
 - 5. Encourage businesses and festivals to recycle and use effective waste management procedures. Advertise these measures in a way that attracts the large, environmentally sympathetic tourist market.
 - 6. Enforce requirements for businesses and festivals to minimize water pollution, solid waste, energy consumption, water usage, landscaping chemicals, and overly bright nighttime lighting.

OBJECTIVE AC5: EDUCATE AND INSPIRE THE NEXT GENERATION OF CREATIVE THINKERS

Develop creative practices in youth for 21st century global citizenship.

Strategies:

- A. Strengthen the capacity of the School Department to ensure that arts and culture are part of the K-12 core curriculum, including instruction, appreciation and participation.
- B. Continue to work collaboratively with the Pathways to Creative Learning Partnership (ACT, Providence Schools, Brown University, Providence After School Alliance, The Kennedy Center for the

⁶¹ See Strategies LU13(B) and W7(A)

⁶² See Strategy LU13(B)

⁶³ National Geographic Center for Sustainable Destinations. www.nationalgeographic.com/travel/sustainable

Performing Arts, and the Rhode Island Arts Learning Network) to create stronger pathways between neighborhoods, schools, cultural organizations, and creative professionals in K-12 through extended-day learning.

- C. Encourage community-wide stewardship and responsibility for providing youth with substantial opportunities to access cultural activities across the city.
- D. Explore options to integrate arts and cultural facilities into new and renovated school buildings in order to make high-quality arts learning experiences accessible to all of the City's youth.
- E. Develop a strategy to make the above referenced facilities available to the community for public use and stewardship.
- F. Continue to work with The United States Conference of Mayors, Americans for the Arts, and American Association of School Administrators to develop school-based curricula to prepare students for the 21st century global workforce.
- G. Continue to work with organizations such as the Providence/Cranston Workforce Development on programs that target career development and training in arts and culture disciplines among youth and adults.
- H. Sustain Providence's national reputation as a place where teaching is understood to be a core part of creative practice for many artists due to the excellent community-based arts organizations that continue to work with artists and students.
- I. Provide incentives to cultivate and sustain a cadre of teaching artists.
- J. Strengthen communities by providing a creative presence in Providence Schools.

OBJECTIVE AC6: ARTS AS A CIVIC VALUE

Value the arts within the civic realm.

Strategies:

- A. Support programs that offer residents the ability to use the arts as a form of civic dialogue and engagement.
- B. Continue the programming of arts and cultural activities in the neighborhoods to reinforce the contributions of the arts to the livability of Providence.⁶⁴
- C. Set high standards for design excellence in the construction and renovation of all City buildings.
- D. Enliven the civic realm with art installations.⁶⁵
- E. Showcase and incorporate the work of local artists into the fabric of city activities, including the built environment, the natural environment and special events.⁶⁶

⁶⁴ See Strategy PS1(E)

⁶⁵ See Strategy BE2(E)

⁶⁶ See Strategy BE2(E)

OBJECTIVE AC7: FOSTER SUSTAINABLE CULTURAL ORGANIZATIONS Nurture agile, healthy, resilient organizations able to anticipate and meet all forms of new challenges.

Strategies:

- A. Cultural organizations will receive assistance in order to adapt and thrive in fundamentally changing conditions over the long term through information, training and assistance.
- B. Cultural organizations, including their staff, board, volunteers, programs, donors, and audiences, will become appropriately diverse, reflecting the full socioeconomic, racial, educational, and cultural diversity of Providence.
- C. Use the creative sector will help to preserve critical nonprofit cultural organizations and jobs through the economic recession and recovery.
- D. Increase funding from public sources and retained private-sector contributions to infuse cultural organizations with funds critical to the survival of these organizations and cultural sector jobs.
- E. Lead initiatives with other funders to identify and create new funding sources and provide information about alternative sources of income for cultural organizations.
- F. Cultural organizations and universities will collaborate to achieve increased effectiveness and creativity in programs, marketing, services, and facilities.
- G. Encourage funders of the arts to adopt a common grant proposal form, as proposed by the Grant Makers Council of Rhode Island.
- H. Undertake upgrades to the Arts, Culture and Tourism website to become a central hub of information about training, assistance and opportunities for collaboration among artists and organizations.

OBJECTIVE AC8: CREATE CONDITIONS FOR CREATIVE WORKERS TO THRIVE IN PROVIDENCE

Support a vibrant community of individual artists, scholars, writers, designers, and entertainers to sustain the creative city.

Strategies:

- A. Provide artists with access to robust infrastructure for technical assistance and support, allowing them to generate adequate revenues and working capital, and to reduce costs through information, training, marketing, online directories, grants, financing, and earned income.
- B. Connect artists with buyers, audiences, collectors, contracts, and capital.
- C. Lead efforts to encourage funders to retain and enhance grants for individual artists and to develop new substantial funds for artists.
- D. Provide artists with access to multiple options for creative workspaces, living spaces, and presentation venues.
- E. Encourage the development of a diverse mix of educational and nonprofit institutional venues to show and sell artists' work, providing opportunities for artists to engage audiences at multiple levels.
- F. Continue to recognize Providence artists as community leaders who make significant contributions to the social and creative capital of the city.
- G. Facilitate connections among creative workers and across other sectors to stimulate the development of a more formal artist network by creating additional social networking opportunities online and face-to-face.
- H. Showcase and incorporate the work of local artists into the fabric of its activities, including the built environment, the natural environment, and special events.
- I. Advocate for public policies and attitudes that value and respect creative workers as professionals.
- J. Increase the availability of affordable and accessible artist live/work spaces throughout the neighborhoods by:
 1. Identifying levels of affordability and exploring innovative solutions to keeping space cheap.
 2. Recognizing artist work-only studios as jobs to ensure that they can be located in areas designated as "Jobs Districts" on Map 11.2 'Future Land Use'.
 3. Reviewing zoning, building and fire codes to identify changes that would reduce the cost of developing artist live/work spaces without jeopardizing life/safety needs.
 4. Exploring opportunities to partner with arts organizations and private entrepreneurs to develop permanently affordable artist work spaces. (Formerly AC3E)

OBJECTIVE AC9: RAISE PUBLIC AWARENESS OF THE CREATIVE SECTOR

Strengthen marketing, advocacy, and tourism to increase participation and engagement.

Strategies:

- A. Use branding strategies to effectively market cultural attractions and to help promote creative sector resources to visitors and residents.
- B. Create an information portal to enable residents and visitors to easily locate Providence's arts and cultural events.
- C. Develop strong partnerships between tourism, the hospitality industry and cultural organizations and encourage collaboration and robust cross marketing.

- D. Support the coordination of statewide advocacy to enhance appreciation for and recognition of arts and culture.
- E. Encourage funders and service organizations to help to strengthen artists' and arts organizations' ability to fulfill their missions.
- F. Recognize the creative sector as central to the City's quality of life, attractiveness to business and investment, and critical to returning prosperity.
- G. Work with elected officials, advocacy organizations, foundations, and individual cultural organizations to develop sustained public and private funding for the arts.
- H. Strengthen cultural organizations' capacity to raise operating and programming funds.

9. People and Public Spaces

GOAL 7: Create a sustainable, high-quality parks and recreation system that reflects the unique identity of Providence.

Open space, parks and recreation facilities are essential to the vitality and quality of life of a city. They provide residents with opportunities for exercise, entertainment and peaceful contemplation. Unlike private yards in suburban communities, these

public places offer social opportunities and can be the setting for community building. Our public spaces are the places that are collectively owned by all the residents of Providence as such, and everyone has an interest in the care and treatment of the public realm.

Providence's recreational areas are not just for residents. Facilities such as Waterplace Park and the riverwalks are critical to the city's tourism industry, providing settings for events and destinations for visitors. Open spaces also serve important environmental roles, providing wildlife habitat, stormwater control, improved air quality, and atmospheric carbon storage.

Providence has a diversified public park and recreation system. As the city's population increases and changes, so will the demand on the city's facilities. This section sets forth objectives and strategies to meet the changing needs for open space, parks and recreational facilities within the city.

9.1 Changes, Challenges & Opportunities

Changes

New Facilities. During the last two decades Providence saw substantial new development of parks and recreation facilities, the most prominent of which are Waterplace Park and the riverwalks downtown. New neighborhood parks under development include the proposed park at the Lincoln Lace and Braid site, on a remediated brownfields. There are new types of facilities as well: the city's first skateboard park, two dog parks, nine community gardens, seventeen walking and jogging paths, and several water parks, as well as the Botanical Center at Roger Williams Park. There are also proposals to develop a boat ramp on the Seekonk River, a ski slope at Neutaconkanut Hill, and an off leash dog park on Waterman Street on the East Side. Additionally, a new park at the former Riverside Mills site was opened in 2007. This park opened over a half mile of the Woonasquatucket River to public access and provides much needed green space in the densely populated Olneyville neighborhood.

Demographics. There have been major demographic shifts in Providence's population in the past decade. Most significantly, the city's people are younger and more ethnically diverse than in past decades. These changes have resulted in different demands being placed on the parks and recreation system. Some facilities are underutilized, while others are oversubscribed.

The City has experienced a rise in adult softball leagues and thus, a greater demand for softball fields. Furthermore, trends have shown that the number of children playing Little League baseball has declined while the number of children playing soccer has increased. As a result, the City currently has a surplus of baseball fields and a deficit of soccer fields.

Green Measures. The Parks and Recreation Department now uses recycled materials for park construction and benches and has installed solar-powered lighting at Amos Early and Donigian parks.

Street Tree Inventory. The Parks and Recreation Department completed an inventory of street trees in 2006 to determine numbers, locations, and condition. The inventory took the additional step of quantifying the environmental benefits of street trees and their contributions to energy savings, carbon storage, pollution mitigation, stormwater management, beautification, and property value.

Tree Planting, Care and Preservation. Tree planting has increased substantially: in 2006-7 the Parks and Recreation Department planted nearly 2,400 trees. The goal is a net gain of trees each year, factoring in mortality and tree removal. The Parks and Recreation Department has taken steps to ensure healthy trees, including increasing the size of tree wells wherever possible to allow greater absorption of water, nutrients and oxygen. The “tree rescue” program removes tree-choking tree grates, pavement and other harmful infrastructure. In the interest of promoting tree growth to maturity, the Forestry Division has also instituted a rotational pruning program to ensure that each tree will receive necessary care at least once every ten years.

Bike Trails. Providence is the terminus for multiple state-built bicycle paths. However, until 2007 the only state bike path in Providence was the small portion of the East Bay Bike Path in India Point Park. In 2007, a portion of the Northwest Bike Path opened in Providence, running from the Johnston town line to Riverside Park in Olneyville. In the future, the northwest bike path will continue to Waterplace Park, as a mostly on-road bike route; however off-road portions of the bike path will be built through the Lincoln Lace Park and through Merino Park. In 2011 and 2012, RIDOT will be constructing portions of the Blackstone Bikeway through Providence. In Providence, the Blackstone Bikeway will run down Blackstone Boulevard, Irving Avenue and River Drive to Pitman Street. Eventually, it will continue off-road behind Eastside Marketplace Plaza, through the Gano Street Park to India Point Park. Finally, a three mile path, mostly off-road, is being designed for Roger Williams Park.

Roger Williams Park Zoo. The Zoo embarked on a major transformation in 2007. The Plains of Africa area, which includes the elephant and giraffe habitats, underwent significant renovation and expansion completed in October 2008, which doubled the elephant habitat and significantly expanded the giraffe habitat. The zoo has almost completed construction of a new veterinary facility which will provide state of the art care to the animals in the zoo. Additionally, a capital campaign is underway to renovate the North American Trail at the zoo, which will include a new polar bear habitat, allowing the reintroduction of Polar Bears to the zoo. The timeline for renovating the North American Trail and constructing the new polar bear habitat is dependent on the ongoing capital campaign.

Neighborhood Park Renovations. The park system has seen tremendous investment since 1993 and continued investment has occurred over the past four years to accommodate the demand for better parks and new recreational activities. Neighborhood groups have contributed significantly to this investment by helping with both the construction and maintenance of projects. Many of the projects completed include additional soccer fields, water parks, community gardens, walking tracks, off-leash dog parks, and installation of updated playground equipment.

Challenges

Available Land. Being mostly built out, Providence has limited areas for new open space and recreational facilities; existing park space is often overused by schools. Much of the land that is available has environmental contamination, and remediation of these sites, especially for recreational purposes, is difficult and expensive.

Limited Resources. Due to budget cuts and shifting priorities at the federal and state levels, money for acquisition and site remediation is in short supply. Maintenance of existing parks remains a challenge, with limited resources available; the Parks and Recreation Department has to maintain an aging and expanding inventory of facilities with less money and fewer employees. Currently, the majority of the department's income comes from the Triggs Memorial Golf Course, park permits, and various grants. Non-city fund resources and creative community partnerships will need to be developed and expanded to improve park programming and maintenance.

Meeting Demand. The changes in demographics in the city have placed new demands on park and recreation facilities. Officials must constantly evaluate programs to ensure that they are in accord with the demand. Rather than creating additional open space, the Parks and Recreation Department is primarily focused on converting its existing space to meet the current demands for soccer fields and adult softball fields. Additionally, given the growing demand for walking trails, the City will continue to add these amenities to existing and repurposed open spaces.

Mistreatment of Facilities. Providence Parks and Recreation Department and the Department of Public Works struggle to maintain public facilities that are subject to abuse and vandalism. Litter, graffiti and the destruction of recreation equipment are all too common. Unfortunately, the actions of an inconsiderate few can spoil the enjoyment of these facilities for all.

Cross Agency Management. Multiple departments are responsible for the operation and management of the Providence Park and Recreation System. The Parks and Recreation Department is responsible for maintenance and capital improvements for the actual park sites. School athletic facilities are maintained by the school department. The Public Property Department maintains the city's recreation centers and pools, while the Recreation Department operates the 10 indoor recreation centers and the 6 outdoor pools as well as Camp Cronin in Narragansett.

Renovation Timing. The Parks and Recreation Department continues to struggle to find an appropriate time of year to begin park renovations. Schools often use the parks between September and June and adult sports leagues, such as softball, primarily use the fields between May and September.

Opportunities

Waterfront Parks. The water flowing through Providence is one of the City's greatest assets. Beginning with the River Relocation Project and the creation of the riverwalks downtown, and including the Fred Lippitt Woonasquatucket River Greenway, Providence has embraced opportunities to develop access to the waterfront for recreation. There are also opportunities to create green space and continual access along the entire waterfront.

Interstate 195 Relocation. The relocation of Interstate 195 presents an important new opportunity for waterfront parks. A plan has been developed for two signature waterfront parks on roughly 4.5 acres of land liberated by the highway's relocation. The design for the west side park was chosen through a design competition in 2006 and the winning designers are working with RIDOT on advancing the park for construction. The parks will be linked by a new pedestrian bridge built atop the piers that formerly carried I-195 across the Providence River. A design competition was held in 2010 to select the design for the pedestrian bridge which is also moving forward.

The I-195 relocation also enhanced India Point Park. A new fifty-foot wide landscaped pedestrian bridge from East Street in Fox Point has increased pedestrian and bicycle access over I-195 to India Point Park. New streets from Fox Point under I-195 to India Street in the Park have also improved auto access to the park. The park is also benefiting from 2 additional acres of land and from over a million dollars of improvements along the park edge at India Street. These enhancements include walkways, entrances and landscaping.

Joint Use of Facilities. With budget shortfalls and limited availability of land, the Parks and Recreation Department have recognized the importance of joint use of facilities, such as using schools for recreation programs and neighborhood parks for Department of Arts and Culture programming.

Roger Williams Park. The Parks and Recreation Department has identified Roger Williams Park as a potential site for a new synthetic turf field that could serve multiple uses. The Parks and Recreation Department is also in the process of establishing a national endowment for the park through the Rhode Island Foundation.

Other Open Space and Recreation Opportunities. Open space does not have to be publicly held. There are opportunities to create publicly-accessible parks through private land development. This might include playing fields and greens owned by private institutions, pocket parks created adjacent to office buildings, and paths to the waterfront through private developments. Also, the ability of the City to maintain public parks can be expanded upon by the community. The city has seen significant growth in the number of organizations that provide human capital to improve the parks and grant-writing ability to secure additional funding. Further, in addition to parks and recreational facilities, people find opportunities for recreation and public gatherings in other public and civic spaces. These include squares, sidewalks, and even streets.

Programming. The Parks and Recreation Department and the Department of Arts, Culture and Tourism share City-initiated responsibilities for the parks and recreation sites. The Parks and Recreation Department provides significant programming and educational activities through the Zoo and the Museum of Natural History. It also provides horticultural programs at the Botanical Center.

Brownfields to Greenfields. The Parks and Recreation Department continues to work on the remediation of the former Lincoln Lace and Braid site in the Hartford neighborhood. Once remediation is complete, this site will connect with Merino Park, provide additional public access to the Woonasquatucket River and provide additional park space for the Hartford neighborhood. The Parks and Recreation Department also continues to explore developing more park land around Mashapaug Pond. A proposed shoreline park is being considered in

the vicinity of the former Gorham Foundry site; however remediation has not yet begun at this site. Development of the shoreline park in this area will provide open space for the Reservoir neighborhood.

Historic Preservation. While the Parks and Recreation Department is the steward of over 1,300 acres of park land in the city, it is also the steward of hundreds of acres of historic sites, landscapes and facilities located throughout the park system. In the last 17 years park preservation efforts have focused on the landscape, buildings and public sculpture in Roger Williams Park and on public sculpture restoration in Downtown and in neighborhood parks. New efforts to restore or preserve historic park resources are in various stages of planning, including the following: Renovation and re-use of the Esek Hopkins Homestead, Renovation of the Roger Williams Park Casino, Restoration of the Betsy Williams Cottage in Roger Williams Park, continuation of the historic public sculptures in all parks, and renovations and gravestone repair at the North Burial Ground and Locust Grove Cemetery.

9.2 Objectives & Strategies

OBJECTIVE PS1: RECREATIONAL OPPORTUNITIES

Provide and enhance recreational, cultural, arts, and performing arts programming throughout the city.

Strategies:

- A. Provide a diversity of programming at park facilities throughout the city.
- B. Diversify and expand programmed athletic opportunities in parks.
- C. Expand parks programming opportunities for youth.
- D. Develop new space(s) in the city for large-scale festivals.⁶⁷
- E. Support and encourage public art in park spaces.⁶⁸
- F. Expand use of school facilities for recreation programs through interdepartmental collaboration.
- G. Collaborate with organizations such as the Providence After School Alliance (PASA) to enhance access to recreational and educational opportunities.
- H. Adapt programming in recreational facilities to changing demographics of the city.
- I. Support federal and state recreation plans that help implement *Providence Tomorrow*.

OBJECTIVE PS2: SUSTAIN OUR PARK AND RECREATION ASSETS

Provide the necessary resources to build and maintain a park and recreation system that offers a diversity of recreational opportunities for all residents.

Strategies:

- A. Supplement City funding with additional funds from user fees, concession and lease agreements, and grants.

⁶⁷ See Strategies AC4(D) and LU13(B)

⁶⁸ See Strategy AC6(B)

- B. Supplement City maintenance resources with maintenance sharing agreements.
- C. Collaborate with institutions, businesses and organizations to sponsor and fund programs.
- D. Ensure balance between services, fees and programming.
- E. Establish reasonable and feasible maintenance standards.
- F. Increase park maintenance staff during peak seasonal periods.
- G. Incorporate low maintenance designs into park renovation projects.
- H. Investigate and implement innovative park maintenance plans with public and private partners.

OBJECTIVE PS3: LINK PUBLIC SPACES

Connect neighborhoods and open spaces through a network of bicycle and pedestrian friendly streets and trails.

Strategies:

- A. Use the neighborhood plans to prioritize streetscape and pedestrian improvements.⁶⁹
- B. Develop a connected system of greenways for continual access along the entire waterfront and through adjacent neighborhoods.⁷⁰
- C. Strategically acquire parcels to link open spaces.
- D. Explore opportunities involving public and private land to provide continuous public access to the waterfront along rivers and ponds without land acquisition.⁷¹
- E. Collaborate with community organizations to identify and implement improvements to the city’s bicycle and pedestrian networks.⁷²
- F. Through development incentives, negotiation, and other mechanisms, create publicly-accessible open spaces through private land development.

OBJECTIVE PS4: INCREASE ACCESS TO PARK AND RECREATION FACILITIES

Provide for a regular program of park and recreation improvements that reflect resident interests in recreation and physical fitness.

Strategies:

- A. Prioritize development of new parks and improvements to existing parks based on neighborhood need.⁷³
- B. Provide public recreation facilities on school sites.
- C. Expand and diversify park use opportunities.
- D. Increase access for physically challenged residents.
- E. Establish consistent park signs.
- F. Amend city regulations to permit enclosed off-leash dog parks.

⁶⁹ See Strategy M3(I)

⁷⁰ See Strategies SE2(C)2, M3(F) and W6(A)

⁷¹ See Strategy M3(F)

⁷² See Strategy M4(D)

⁷³ See Strategy LU14(D)

OBJECTIVE PS5: STEWARDSHIP OF RESOURCES

Protect natural and cultural resources by incorporating them into the fabric of an overall system of public open space.

Strategies:

- A. Promote public access to the waterfront and water-based recreational activities.⁷⁴
- B. Explore opportunities to create new open spaces along waterways (rivers, ponds, streams) where none currently exist.⁷⁵
- C. Encourage the conservation, restoration and preservation of environmentally sensitive areas through means such as evaluating expansion of conservation areas.
- D. Encourage pedestrian access to and passive use of designated conservation areas.
- E. Identify and protect key vistas and view corridors.
- F. Ensure the stewardship of historic park facilities and landscapes.
- G. Promote the restoration of historic park sculptures through public/private partnerships.

OBJECTIVE PS6: COMMUNITY INVOLVEMENT

Ensure the success of public spaces by involving the community in planning and maintenance efforts.

Strategies:

- A. Encourage community ownership of neighborhood parks and other civic and public spaces through “friends of...”, “park watch dogs” and similar programs.
- B. Develop an ongoing process for updating neighborhood and citywide resident interests and needs for park and recreation facilities and public programming.
- C. Provide opportunities for community input in park and recreation facility renovation efforts.
- D. Increase public knowledge about existing park and recreation spaces as well as athletic, arts and performing arts programming activities.
- E. Promote a civic culture of properly caring for public spaces.

OBJECTIVE PS7: COMMUNITY GARDENING

Continue to identify, establish, maintain and expand City park sites for community gardens.

Strategies:

- A. Work with residents and community groups to identify viable community garden sites.
- B. Open at least one community garden per year in a public park.
- C. Expand community gardening opportunities on under-utilized park land.⁷⁶
- D. Investigate ways to identify and match potential park-owned garden sites with growers.⁷⁷
- E. Establish a goal that every Providence resident live within a ten-minute walk of a community garden.⁷⁸

⁷⁴ See Strategies LU14(A) and W1(C)6

⁷⁵ See Strategies LU14(A), LU14(D), W1(C)6, and W8(D)

⁷⁶ See Strategy SE2(F)

⁷⁷ See Strategy SE2(G)

⁷⁸ See Strategy SE2(I)

10. Community Services and Facilities

GOAL 8: Sustain a high quality of life by providing efficient, cost-effective city services.

Changes in land use, demographic distribution of the population, and the evolving economic situation in the city all have an impact on the demand, location and

level of service for community services and facilities that are needed to adequately serve city residents. Community services and facilities must be designed to meet the public's needs. City and public services directly impact the ability of a community's citizens to live in a safe and adequate environment. Anticipating and preparing for the needs and safety of the citizens of Providence is essential to ensuring a high quality of life within our city. Community facilities are important to the City because they often provide the services which most citizens come in contact with. They are also important to the neighborhood in which they are located and are typically viewed as anchors or stabilizing influences, such as police and fire stations, libraries, schools, and community centers.

The topics discussed in this chapter are separated by whether they are a service provided by the city, or a public service provided by other organizations to residents of Providence. For example, energy, and community service providers and the Providence Public Library are classified as public services as they are not directly provided by the City.

10.1 Objectives and Strategies-City Services

Schools. The Providence Public School Department (PPSD) has experienced many changes since 1994, reflecting the changes that have taken place citywide. As the racial and ethnic diversity of the city's population has increased, similar changes have occurred in the public school system, but at a more dramatic level. The number of white non-Hispanics in the school population has declined since 1994, and the overall diversity of the school system has increased. The PPSD has embarked on an Effective Schools Initiative and restructuring program to better reflect and serve its diverse and shifting population. The demographics of income distribution and cultural backgrounds indicate that some neighborhoods and areas of the city have greater needs than others. Over 50 languages are currently spoken by Providence students. Additionally, the number of students below the poverty level has increased dramatically; the city ranks third in the nation in childhood poverty. At present, the school system has a significant dropout rate and needs to improve standardized test scores. In response to the challenges created by the high level of childhood poverty, dropout rate and number of students for whom English is a second language the Providence After School Alliance (PASA) was formed to provide school students with quality activities during the after school hours. Due to the challenges facing the PPSD, charter schools and private schools are playing an increasingly important role today in the education of the city's children. Furthermore, parents often consider leaving the city to seek educational choices in other communities.

The PPSD school facilities require millions of dollars in repairs and upgrades due to years of deferred maintenance. To address this issue, PPSD commissioned a plan for the rehabilitation or reconstruction of school buildings most in need of repair in the district. In 2010, Fanning Howey conducted a Facilities Master Plan for PPSD in which they recommended the modernization of 18 schools, the reconfiguration and renovation of 11

schools, and a preventative maintenance plan for 11 schools. Refer to Appendix A Community Services and Facilities for further detail.

Over the next 10 years, the PPSD expects a gradual decrease in enrollment for PK – 12th grade students. Decreasing by an estimated total of 846 students over this period, PPSD does not forecast a significant change in need. The biggest drop in the student body is predicted for the PK – 4th grade age cohort, which will lose approximately 970 students. The 5th grade – 8th grade age cohort is also predicted to decrease, however, only by approximately 300 students. The 9th grade – 12th grade age cohort is the only age group predicted to increase over the next 10 years and therefore, could potentially increase the need for high school facilities. As individual grades, 9th grade has the highest projected enrollment increase of 198 students by 2023 while Kindergarten has the greatest projected enrollment decrease of 206 students. Please refer to Appendix A Community Services and Facilities for further detail.

OBJECTIVE CS1: SCHOOLS

Ensure that all Providence children have the tools and opportunity to succeed in school and their future workplace.

Strategies:

- A. Improve academic achievement for all children and increase the graduation rate by:
 1. Implementing measures to evaluate annual progress in improvement of academic achievement and graduation rates.
 2. Regularly evaluating curriculum, instruction and programming to ensure that they meet student needs.
 3. Developing partnerships with local colleges and universities to upgrade educational materials on a regular basis.
 4. Collaborating with local colleges and universities on education curriculum and continuing education opportunities to ensure teachers are highly qualified.
 5. Working with local businesses, institutions and non-profit agencies to develop school-to-career programs and cooperative work experiences that provide practical application of academic knowledge and prepare students to join the workforce.
 6. Exploring partnerships with the Providence Public Library and local colleges and universities to increase access to resources and programming.
 7. Collaborating with community organizations to expand year-round out of school educational, recreational and cultural activities for children of all ages.
- B. Develop physical and social environments that are conducive to learning by:
 1. Improving school facilities to meet current and future research-based educational specifications.
 2. Ensuring that new and rehabilitated schools are models of environmental sustainability and design excellence.
 3. Improving pedestrian and bicycle access to schools from the surrounding neighborhoods.
 4. Opening grounds and facilities for community use, such as recreation and joint landscaping projects, to create additional urban green space in neighborhoods.
 5. Exploring opportunities for the creation of joint-use facilities such as athletic, recreational, and libraries, with community organizations.
 6. Implementing a maintenance program for buildings and grounds.

7. Ensuring that schools are free from physical violence and psychological abuse such as bullying.
- C. Strengthen parent and community involvement in education and schools by:
 1. Strengthening the role of schools as neighborhood centers.
 2. Supporting and promoting the efforts of programs such as Volunteers in Providence Schools that encourage residents and businesses to volunteer time and expertise.
 3. Collaborating with community organizations to expand adult education opportunities for parents and guardians, including classes such as English as a Second Language (ESL).
 4. Implementing a comprehensive community-based outreach effort to improve communication between the school department, parents and students.
 5. Recognizing that providing a quality education to the city's children is the collective responsibility of all city residents.
- D. Support efforts to create a predictable and fair school funding formula statewide that recognizes the particular challenges and needs of urban school systems.
- E. Increase public confidence in Providence schools.

Police, Fire and Public Safety. The Providence Public Safety Complex, completed in 2002 enables the Police and Fire Departments to better serve city residents. Additionally, police substations have been placed in neighborhoods throughout the city as part of the Police Departments Community Policing Initiative. Also, the City crime rate has decreased and the community policing program continues to improve the relationship of the police department with neighborhood residents. Given these recent trends, the City believes that these services will continue to be adequate to meet the needs of residents over the 20-year planning horizon.

OBJECTIVE CS2: POLICE, FIRE AND PUBLIC SAFETY

Ensure the safety and welfare of residents by providing fire and police protection and adequate resources and knowledge to perform these vital services.

Strategies:

- A. Support innovation in methods and technology to advance the work of the police and fire departments.
- B. Coordinate the operations of the police and fire departments, and support inter-operational systems.
- C. Maintain and support programs to address substance abuse.
- D. Coordinate disaster operations and Homeland Security functions with the Providence Emergency Management Agency (PEMA).
- E. Promote ongoing training and certification of police and fire personnel.
- F. Conduct a comprehensive safety analysis to determine and assess the current and future safety needs of city residents and implement a plan to address these needs.
- G. Conduct a study to determine the location and extent of hazardous materials within the city and implement a strategy to reduce or eliminate these hazardous materials. Ensure that emergency readiness exists to react to any hazardous material emergency including acquisition of appropriate equipment and the establishment of evacuation plans.
- H. Promote fire prevention and safe buildings.
- I. Maintain and improve public education efforts such as Risk Watch and the smoke detector program.
- J. Coordinate fire and police operations with code enforcement.

- K. Promote accessible routes for fire and emergency response; this also entails effective and legible street and directional signs.
- L. Improve traffic safety citywide, emphasizing pedestrian and bicycle as well as automobile safety.
- M. Reevaluate the Fire Department's Standard Operating Procedures in response to changing needs.
- N. Educate the public on the proper use of the 911 system to reduce abuse of the system.
- O. Improve the Fire Department's records protection system.
- P. Continue to support and emphasize the importance of community policing.
- Q. Improve coordination with code enforcement and develop public information efforts relating to code enforcement.
- R. Improve enforcement of traffic regulations citywide.
- S. Use the strategies of the Responsible Hospitality Partnership as a guide to ensure that Providence is a destination for active nightlife that contributes to and does not detract from quality of life in the city.

OBJECTIVE CS3: EMERGENCY MANAGEMENT

Minimize damage to property, life, and resources from natural or man-made emergencies.

Strategies:

- A. Gain participation in FEMA's community Rating System and achieve a rating of 8 or higher.
- B. Incorporate hazard mitigation into the review of development proposals, particularly those along the waterfront and in other flood-prone areas.
- C. Continually work to improve effective emergency response plans in cooperation with the State and adjacent municipalities.
- D. Continually work to improve special emergency response plans for city facilities.
- E. Maintain and update the Hazardous Materials response Plans and conduct associate training.
- F. Improve the city's communications systems and utility telemetry system.

Water. In order to more accurately track water usage throughout their system, the Providence Water Supply Board (PWSB) has installed automated water meters throughout the majority of their service area. Through this and other conservation efforts, increased sewer rates and the decline in large scale industrial uses, water consumption in Providence has dropped 8.8 percent in 20 years. While conservation has decreased some demand, it is important to note that the PWSB serves more than 60 percent of the state and has no rights to reserve water for the city's future needs. After four years of work on the Lead Service Replacement Project, the PWSB suspended work on the project for the during the 2011 construction season. Since starting the project, concerns have been raised in Rhode Island and across the country that partial lead service replacements actually increase lead levels in water due to a reaction between the copper and lead pipes. PWSB has reevaluated the program and will resume the partial lead service program during the 2012 construction season.

The objectives and strategies below correspond with strategies outlined in *Water Supply Policies of Rhode Island, Element 721 of the State Guide Plan*.

OBJECTIVE CS4: WATER

Provide a safe and adequate water supply that is able to serve residential, commercial and industrial users.

Strategies:**A. Protect the city's water supply by:**

1. Implementing a watershed protection plan for the entire Scituate Reservoir system watershed area.⁷⁹
2. Continuing use of the watershed protection surcharge for watershed land acquisition.
3. Protecting and preserving the watershed land of the Scituate Reservoir by mandating additional regulations to restrict pedestrian and vehicular access to the reservoir.
4. Continuing to support all watershed protection efforts, including use of the power of eminent domain to acquire property rights.
5. Working to create emergency connections with other water providers throughout the state and region based on the recommendations of the supplemental water supply study.
6. Working to amend the enabling legislation for the PWSB to allow the City to reserve enough water for its future needs.
7. Working with the State to plan for statewide water supply challenges and needs.

B. Maintain the City's water supply by:

1. Discouraging industrial use of potable water when other water sources can be made available or technology can minimize the need.
2. Encouraging users to create gray water systems to lessen demand on the potable water supply.
3. Meeting and exceeding all applicable water quality regulations.
4. Continuing to upgrade and maintain infrastructure throughout the system.⁸⁰

C. Upgrade the water supply system by:

1. Addressing storage and distribution problems in order to cope with predicted long term growth in the service region and population served.
2. Conducting studies of water system demand, safe yield, and facilities needs to ensure that future needs for water are met.
3. Improving the water distribution system with the installation of state of the art equipment and infrastructure.⁸¹
4. Completing installation of automated water meters throughout the system.
5. Exploring new areas for potential to serve as reservoirs for additional water supply.

Wastewater. The Narragansett Bay Commission has completed Phase I of the Combined Sewer Overflow Abatement Project (CSO) and started construction on Phase II in 2011. Phase II includes diverting outfalls in several neighborhoods as well as a significant sewer separation project on the East Side which will separate

⁷⁹ See Strategy SE3(C)4

⁸⁰ See Strategy SE3(A)

⁸¹ See Strategies SE3(C)1 through SE3(C)5

stormwater and waste water flow, reducing the number of events which bypass the treatment plant. Providence receives no revenue from the Narragansett Bay Commission to help maintain and upgrade City-owned sewer lines. With limited funding streams, maintaining the City-owned system becomes more difficult.

The objectives and strategies below correspond with strategies outlined in Water Supply Policies of Rhode Island, Element 721 of the State Guide Plan and Rivers Policy and Classification Plan, Element 162 of the State Guide Plan.

OBJECTIVE 5: WASTEWATER

Provide in conjunction with the Narragansett Bay Commission (NBC), an efficient and sanitary wastewater treatment system that adequately serves the entire city.

Strategies:

- A. The City shall ensure efficient operation of city wastewater facilities by:
 1. Initiating funding to maintain and improve City owned wastewater lines and storm water treatment systems.
 2. Pursuing legislation for revenue sharing with NBC to ensure maintenance of City-owned wastewater lines.
 3. Ensuring that all new development and redevelopment projects include separate wastewater and storm water lines.
 4. Considering incorporation of Best Management Practices (BMPs) for storm water to limit storm water flow into the city's rivers and combined sewers, reducing outfall, flow and capacity issues.
 5. Consider innovative ways to manage storm water runoff such as grass swales and rain gardens while at the same time increasing the green space of the City.
 6. Amending regulations to allow the operation of grey water systems to reduce the amount of wastewater entering the treatment system.

- B. Encourage NBC to ensure the efficient and effective operation of its wastewater facilities by:
 1. Improving water quality in Narragansett Bay by reducing the nitrogen level in treatment plant effluent to 5mgL or less.
 2. Continuing the Combined Sewer Monitoring and Metering Program which provides capacity and maintenance analysis.
 3. Making sewer improvements which include: Video inspection of all sewer lines, development of an asset management program linked to GIS and upgrading infrastructure as needed.
 4. Ensuring ability to maintain and upgrade infrastructure through review and enforcement of all overland maintenance easements.

Solid Waste. Following the success of the Big Green Can program to decrease trash and rodents in the City, in November 2009, the City implemented "Green Up Providence" a no bin, no barrel recycling ordinance. This ordinance requires households in Providence to put both their blue and green recycling bins on the curb with their trash receptacle in order to have their trash removed. This program has been remarkably successful, substantially increasing the recycling percentage in the City and significantly decreasing the tipping fees the City pays to the Central Landfill for trash disposal.

The objectives and strategies below correspond with strategies outlined in the *RI Solid Waste Management Plan, Element 171 of the State Guide Plan*.

OBJECTIVE CS6: SOLID WASTE COLLECTION AND DISPOSAL

Reduce the amount of waste disposed of in landfills by prioritizing participation in recycling and composting programs, and promoting solid waste and litter reduction.

Strategies:

- A. Increase citywide recycling rates to meet and exceed the 35% required by the Rhode Island Resource Recovery Corporation (RIRRC) through ordinances such as “No bin, no barrel”.
- B. Encourage and support recycling and composting programs to reduce the amount of disposable solid waste, and consider implementing incentives to do so.
- C. Promote the beneficial reuse of materials.
- D. Encourage and support the work of groups such as Groundwork Providence to help reduce litter and dumping in the city’s neighborhoods and promote the proper disposal of solid waste.
- E. Educate consumers regarding the impact of purchases on waste generation and reduction, and materials recovery, through the purchase of recycled content products, and the purchase of products with reduced toxicity and packaging.
- F. Encourage industrial processes that generate reduced amounts of waste.
- G. Encourage local businesses and industries to recycle and to use recycled and recyclable products.
- H. Promote litter prevention efforts at the local and state levels, stressing the protection of waterfront areas and waterbodies, and establishes a culture of stewardship of public spaces.
- I. Continue to modernize the City’s solid waste management system.
- J. Develop and implement recycling programs for all uses in the city to increase overall recycling rates.
- K. Work with RIRRC and RIDEM to have multi-family housing (4 or more units) solid waste reclassified as municipal waste rather than commercial to facilitate recycling at these properties.
- L. Investigate the feasibility of a municipal Pay as You Throw program for Providence.
- M. Establish a new transfer station within the city limits.
- N. Establish a city composting program through which the City composts collected yard debris and sells it back to residents for use.
- O. Work with RIRRC to expand the list of acceptable recyclables (i.e. colored glass, plastic types 3 through 7).
- P. Work with RIRRC and RIDEM to create and distribute a new recycling education program.
- Q. Continue to encourage RIRRC to implement single stream recycling.

Government Facilities

OBJECTIVE CS7: GENERAL GOVERNMENT-FACILITIES

Maintain and, as necessary, construct government buildings and offices to ensure that the administration of the City operates effectively and efficiently.

Strategies:

- A. Provide adequate space and facilities for the efficient functioning of City departments and agencies, matching program needs with space requirements for all City departments and agencies.
- B. Improve the maintenance program for all City-owned property and buildings to reduce the need for future major capital expenditures.
- C. Study the feasibility of fees and assessments for the provision and improvement of City services, including water, sewer, waste collection, public safety, parks, and education.

10.2 Objectives and Strategies-Public Services

OBJECTIVE CS8: ENERGY

Provide for the energy needs of City residents and the State by supporting the expansion of these utilities in a way that lessens the impact on the environment.

Strategies:

- A. Work with local generators and distributors by providing them with city plans for growth and change as they plan for the future utility needs of city and state residents and continue to advocate that Providence is not an appropriate location for an LNG import facility due to population density, proximity to the Port of Providence and proximity to Rhode Island Hospital (Rhode Island's only Level I Trauma Center).
- B. Discourage the development of private generators using coal or petroleum oil as a primary fuel.
- C. Encourage utility companies to use best and most advanced technology to minimize environmental impacts on air quality.
- D. Encourage co-generation of electricity.
- E. Promote alternative energy sources such as tidal, wind and solar.⁸²
- F. Promote conservation of existing energy resources through education programs.
- G. Create standards for the siting and design of physical plants, service vaults, transformers, and electric and gas meters within the city limits.
- H. Work with the city's institutions on incorporating energy sustainability into their master plans.
- I. Add alternative fuel vehicles to the city fleet.
- J. Determine locations where wind turbines could be constructed in the city, under certain conditions.

Community Services. Community services are provided by a number of agencies, including a particularly strong contingent of organizations supporting the development of Providence's youth. These agencies provide services to a diverse population with different service requirements. Decreased state and federal funding for community support services limits the amount of help service providers can give to those in need. Also, the majority of the state's special needs population requiring services is concentrated in urban areas such as Providence. However, the City believes that the existing community services will continue to be adequate to meet the needs of residents over the 20-year planning horizon.

⁸² See Strategies SE3(D)1 and SE3(D)2

OBJECTIVE CS9: COMMUNITY SERVICE PROVIDERS

Encourage community centers and service providers to streamline and strengthen the services they provide to Providence residents.

Strategies:

- A. Encourage alternative sustainable funding sources for existing community centers and human service providers.
- B. Encourage community centers and service providers to eliminate duplication of services.
- C. Support public and private agencies in addresses the changing needs of the city's population.
- D. Encourage the expansion of services provided by community centers to meet the changing demographics and needs in their neighborhoods.

Library Services. In 2009, The Providence Public Library announced that it no longer had the resources necessary to manage the nine branch libraries and proposed closing five branch libraries and cutting back hours and services at the remaining branches. In response to this, concerned residents and Friends of the Libraries groups formed the Providence Community Library (PCL) which worked with the City to take over management and operation of the nine branch libraries on July 1, 2009. The Providence Public Library continues to operate the Central Branch on Empire Street in Downtown Providence. The City of Providence and Providence Community Library are currently in dispute with the Providence Public Library over the transfer of ownership and maintenance of several of the branch library buildings. Despite this dispute, the City believes that these library services will continue to be adequate to meet the needs of residents over the 20-year planning horizon.

OBJECTIVE CS10: LIBRARY SERVICES

Encourage the Providence Community Library and the Providence Public Library to provide residents of the city with a full range of library services.

Strategies:

The Providence Community and Public-Libraries will:

- A. Acquire, organize and maintain comprehensive collections that reflect diversity and a wide spectrum of views.
- B. Provide specialized reference services focusing on Business, Art and Music and Rhode Island information.
- C. Refine and expand library services statewide through the development and implementation of cooperative services and individual programs, with and for community and professional groups and individual experts.
- D. Improve the effectiveness of library services for children by developing and implementing programs, in cooperation with other organizations, that serve the child in the context of her/his family and the larger community.
- E. Improve the effectiveness of the Library's services to adolescents.
- F. Provide sufficient hours at all library locations to insure that the needs of the community are met. Maintain a high standard of customer service in library staff to ensure that the needs of users are met.
- G. Bridge the gap between those with ready access to information and those without by providing

access to technology through the provision of up-to-date computer equipment, programs and access to the Internet.

- H. Continue training and educational programs to inform and aid individuals accessing and using the library's electronic and physical information resources.
- I. Provide remote access to library resources utilizing electronic databases.
- J. Provide access to library resources to individuals with disabilities including the provision of assistive technology for the vision and hearing-impaired.

11. Land use

GOAL 9: Manage change and growth to sustain Providence’s high quality of life and preserve its unique attributes.

“Where should Providence grow?” “How should Providence grow?” These questions are at the heart of the Land Use plan for the city. We know that growth and change is going to happen. The question is where

should it happen and how? This section addresses both of these questions, based on input from Providence’s citywide charrette, held in the fall of 2006. During that week, residents created their own vision of where expected growth should occur by placing building blocks representing specific types and amounts of development on a citywide map. While each group had a unique perspective, two key themes emerged; protect residential neighborhoods and direct expected development, residential, commercial, industrial, and institutional, to the downtown, major commercial corridors, and industrial areas.

This section has two important maps. The first is the “Areas of Stability and Change” map, which reflects the themes that were developed at the charrette. This map is a snapshot of where we anticipate growth is likely to happen in the future, and where growth is most appropriate. It also shows the areas of the city where we do not anticipate significant growth and change in the coming years. A quick glance at the map shows that most of the city’s residential neighborhoods are considered ‘areas of stability’. The ‘areas of change’ identified on this map also indicate areas for further study through the neighborhood plans. This section identifies objectives and strategies that focus on the preservation of the existing neighborhood character and protecting what is most special about our neighborhoods. The blue and red areas on the map are those areas where we anticipate the most change. This plan aims to direct growth in a controlled way that complements the assets of our city and builds on them. It sets the parameters for growth that will help expand the City’s tax base, while preserving and enhancing the livability of our city.

The second map in this section is the “Future Land Use” map. This map is the official Land Use Map of the city and provides the basis for the Zoning Ordinance. The map reflects the existing land use patterns in the city, with a few amendments. These maps are not fixed in time; it is expected that they will be refined and fine-tuned during the neighborhood planning process and periodically in the future.

This section is organized in three parts.

- Where do we grow? - Identifies areas of stability and areas of change in the city on Map 11.1 ‘Areas of Stability and Change’, and lists the goals and objectives for both areas.
- ‘How do we grow?’ - Identifies specific details on how the city should be developed using Map 11.2 ‘Future Land Use’ to establish the future amount and distribution of land uses and allocate scarce resources among competing activities.
- Achieving the vision - Links the Land Use Section to the other sections of the plan by identifying goals and strategies that are specific to land use for each of the other topics. For example, for sustainability and the environment, the built environment and housing, specific objects are identified that relate to land use.

11.1 Where do we grow?

GOAL 10: Ensure the continued strength and stability of Providence’s neighborhoods by directing growth to appropriate areas.

Map 11.1 ‘Areas of Stability and Change’ is the graphic representation of the themes expressed during the charrette. The map identifies four distinct areas which are described in detail below: Areas of Stability,

Growth Districts, Growth Corridors, and Transitional Areas. This map is illustrative only, describing a general policy approach that will be refined through neighborhood and specific area plans, and amendments to Map 11.2 ‘Future Land Use’ and the Zoning Map.

Map 11.1 Areas of Stability and Change



Areas of Stability

Areas of Stability include the vast majority of the city, primarily the residential neighborhoods and their associated commercial areas, where limited change is expected over the coming years. There are 25 ethnically and culturally diverse neighborhoods that are known for their quality of life, including their rich architecture. Each neighborhood has its own identity and character. The goal for these areas is to identify and maintain the existing character of the area while accommodating limited new development and redevelopment. Of the city's 25 neighborhoods, all but Downtown are designated as areas of stability in whole or part.

OBJECTIVE LU1: PROTECT AND ENHANCE STABLE NEIGHBORHOODS

Reinforce the stability, character and diversity of the City's neighborhoods by respecting valued development patterns and attributes.

Strategies:

- A. Use the neighborhood plans to review the following:
 1. Development patterns and attributes that contribute to the character of Providence's stable neighborhoods.
 2. Significant buildings and view corridors to be preserved.
 3. Environmentally important features to be preserved or enhanced such as views, river and harbor-front areas and potential pedestrian access points.⁸³
 4. Needed services and facilities such as schools, parks, recreation, public safety and shopping areas
 5. Potential redevelopment opportunities such as vacant or blighted properties.
- B. Update regulations to:
 1. Ensure that new development maintains existing density levels.⁸⁴
 2. Ensure that new development complements existing neighborhood character in scale, massing and design.⁸⁵
 3. Encourage the preservation of the existing building stock.⁸⁶
 4. Mitigate impacts of non-residential uses on neighboring residential uses.
 5. Limit the locations of inappropriate uses such as adult entertainment.

Areas of Change

This section is intended to direct growth to areas where most people agree that development or redevelopment would be beneficial and is most likely to occur in the coming years. Carefully directing and planning for growth will benefit the city as a whole. Future residents and workers will have access to efficient forms of transportation that will include biking, buses, and, in the future, other forms of public transit. New developments in these areas can improve the economic base, provide jobs, and enhance the visual quality of buildings, streets and neighborhoods.

⁸³ See Strategy BE1(B)3

⁸⁴ See Strategy BE7(B)

⁸⁵ See Strategy BE3(A)

⁸⁶ See Strategy BE6(B)

There are three distinct areas designated on Map 11.1 'Areas of Stability and Change':

- **Growth Districts**-These areas are centered around the downtown core, and along the waterfront and in manufacturing areas in the city. They have many different characteristics, but common traits include: close proximity to a commercial arterial street, locations in older industrial areas or large vacant areas. Opportunities for pedestrian-oriented, mixed-use development and transit hubs can be found in most of these areas. Successfully developing these areas should not come at the expense of displacing existing residents. Instead, these areas are intended to become diverse mixed-use areas, with the addition of new residents to the areas, rather than displacement.
- **Growth Corridors**- These areas are located along key commercial and transit corridors in the city. These corridors present an excellent opportunity for pedestrian-oriented, mixed-use development at higher densities than the surrounding neighborhoods to support an improved transit system. Development on these corridors would likely have nodes of higher intensity and activity at key intersections. The areas considered growth corridors will also address the transition from the commercial uses to the adjacent residential uses.
- **Transitional Areas**- These areas are located on the fringes of growth districts and abut residential neighborhoods. These areas are intended to provide a transition in height, density and scale between the larger scale development anticipated in the growth districts and the lower scale and density of surrounding neighborhoods.

The primary role of land use regulation in these areas is to encourage the redevelopment of these areas with economically beneficial development that enhances the city's character and livability. Although regulations cannot dictate the market demand for an area or a specific type of building or industry, they can impose conditions that make redevelopment infeasible without subsidy. Therefore, the strategy for encouraging development is to allow sufficient development intensity and appropriate mixes of uses so that planned land uses will be economically feasible. Design standards will ensure that quality of design is an asset to the surrounding neighborhood and contributes to the city's character. New development must take into consideration natural and man-made environmental constraints and focus on preserving those aspects of our environment that we hold dear, including views, vistas and corridors and Providence's historic character.

OBJECTIVE LU2: DIRECT GROWTH

Encourage growth in areas best suited to provide access to jobs, housing and transit.

Strategies:

- A. Use the neighborhood plans to review the following:
 1. Design vision for Growth Districts, Growth Corridors and Transitional Areas identified on Map 11.1 ‘Areas of Stability and Change’ that identifies the preferred pattern and character of development including mass, scale, building height, design, use, and density, and considers topography, streets, sidewalks and open spaces.⁸⁷
 2. Nodes of increased density to support transit options.⁸⁸
 3. Significant buildings and view corridors to be protected.
 4. Environmentally important features to be persevered or enhanced such a views, river and harborfront areas and potential pedestrian access points.
 5. Locations and boundaries for Jobs Districts, land use designations, proposed greenways and proposed open space/public space.
- B. Update regulations to implement the points above and:
 1. Maintain and enhance waterfront views to and from the city.
 2. Reflect design vision adopted as part of the neighborhood plans.
 3. Encourage adaptive reuse of historic structures where economically feasible.
 4. Create incentives for development.

11.2 How do we grow?

GOAL 11: Promote a balance of uses to support sustainable patterns of development providing healthy, walkable neighborhoods, thriving business districts, and a high quality of life.

The previous section, addressed *where* future growth should be directed, this section focuses on more specific details as to *how* the city should be developed. Map 11.2 ‘Future Land Use’ depicts specific land

use designations for each area of the city and is the Official Land Use Map. The purpose of the land use plan is to establish the amount and distribution of land uses and allocate scarce resources among competing activities. The historic mixed-use character of the city posed a challenge with conventional land use designations and regulations. The mixed-use character of the city is one of its most prized assets. Providence is a living testament to the fact that, with good design, diverse uses can coexist to create special places that are universally valued. The city’s mixed-use pattern encourages walking, a goal that this Plan also promotes. Though most land use areas contain multiple uses, the descriptions of each designation depicted on the map refer to the dominant use. The objectives and strategies for the city’s waterfront are identified in Chapter 12.

Future Land Use and Existing Zoning Discrepancies

Currently, there are inconsistencies between the City’s existing zoning ordinance and the proposed future land use. These inconsistencies, identified in the lists below and on Map 11.3 Future Zoning Change Areas, are due to the consolidation of various categories, the addition of “Greenways,” and various changes in use.

⁸⁷ See Strategy BE3(A)

⁸⁸ See Strategy BE3(C)

Residential Changes

The future land use plan consolidates zoning categories R1A and R1 into “Single Family Residential.”

Commercial Changes

Commercial changes include the consolidation of C1, C2 and RP into “Neighborhood Commercial/Mixed Use” and the renaming of C3 to “General Commercial/Mixed Use.” Additionally, two parcels, located between Traverse Street and I-195, have been converted from C2 to “Public Space/Open Space,” and “Medium Residential Density.”

Mixed Use Changes

The future land use plan creates various new mixed use categories. D1 from the existing zoning code is renamed to “Downtown/Mixed Use” and M1, M2 and MMU are combined to form “Business/Mixed Use.”

Waterfront Changes

The two waterfront categories, W2 and W3, are also renamed in the future land use plan. W2 is renamed “Waterfront/Mixed Use Neighborhood” and W3 is renamed “Waterfront/Port.”

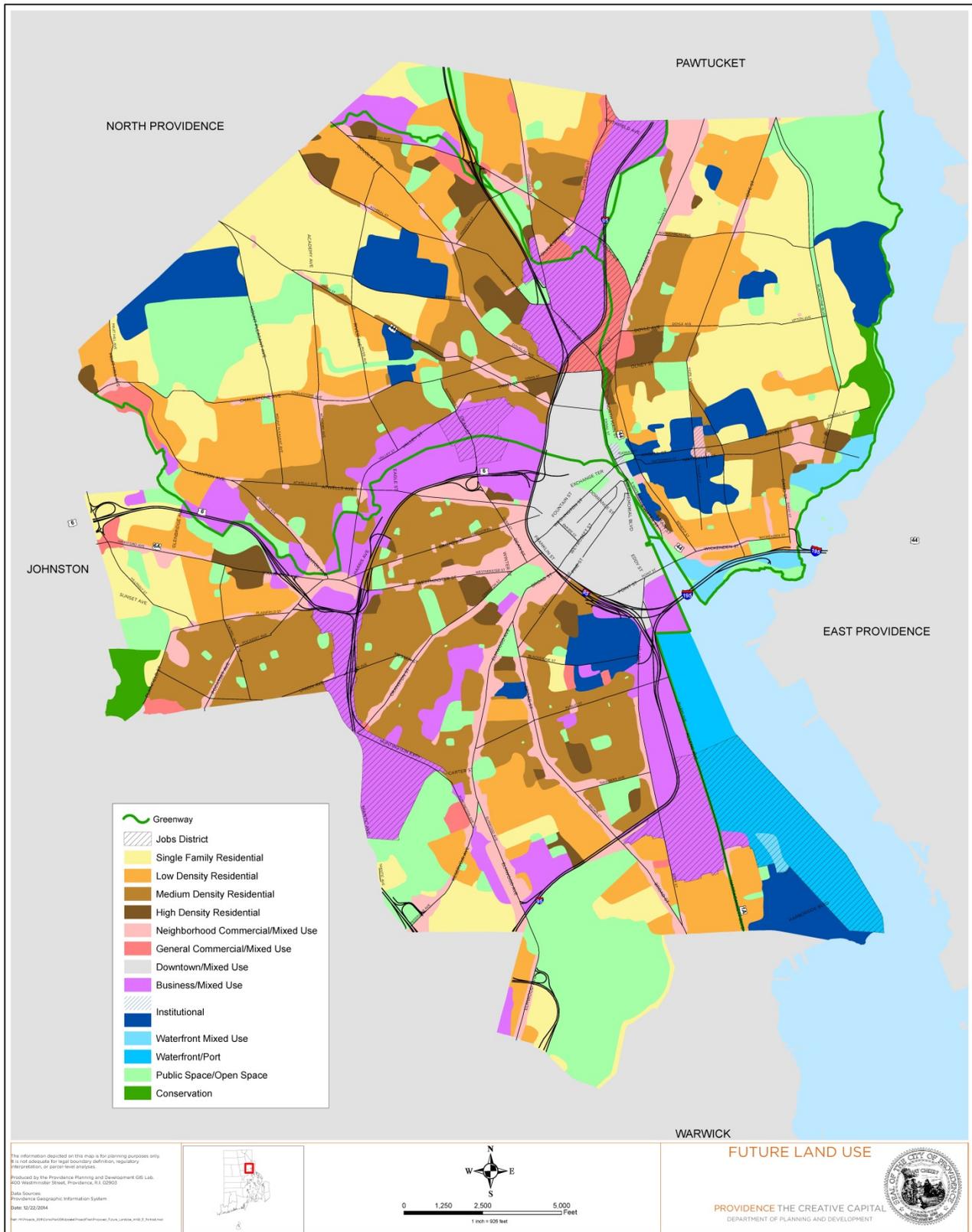
Open Space Changes

In the future land use plan, O.S. and P.S. are combined to form “Open Space/Public Space,” and “Greenways” have been identified. It should also be noted that Burnside Park and Roger Williams National Memorial, originally categorized as “Open Space,” are now designated as “Downtown/Mixed Use” on the future land use plan because “Downtown/Mixed Use” is the dominant use in the area. “Open Space/Public Space” will remain a permissible use within the “Downtown/Mixed Use” area.

Industrial Changes

While relatively little change is made to industrial areas in the future land use plan, M1, M2, and MMU have been consolidated into “Business/Mixed Use.”

Map 11.2 Future Land Use



Map 11.3 Future Zoning Change Areas Map

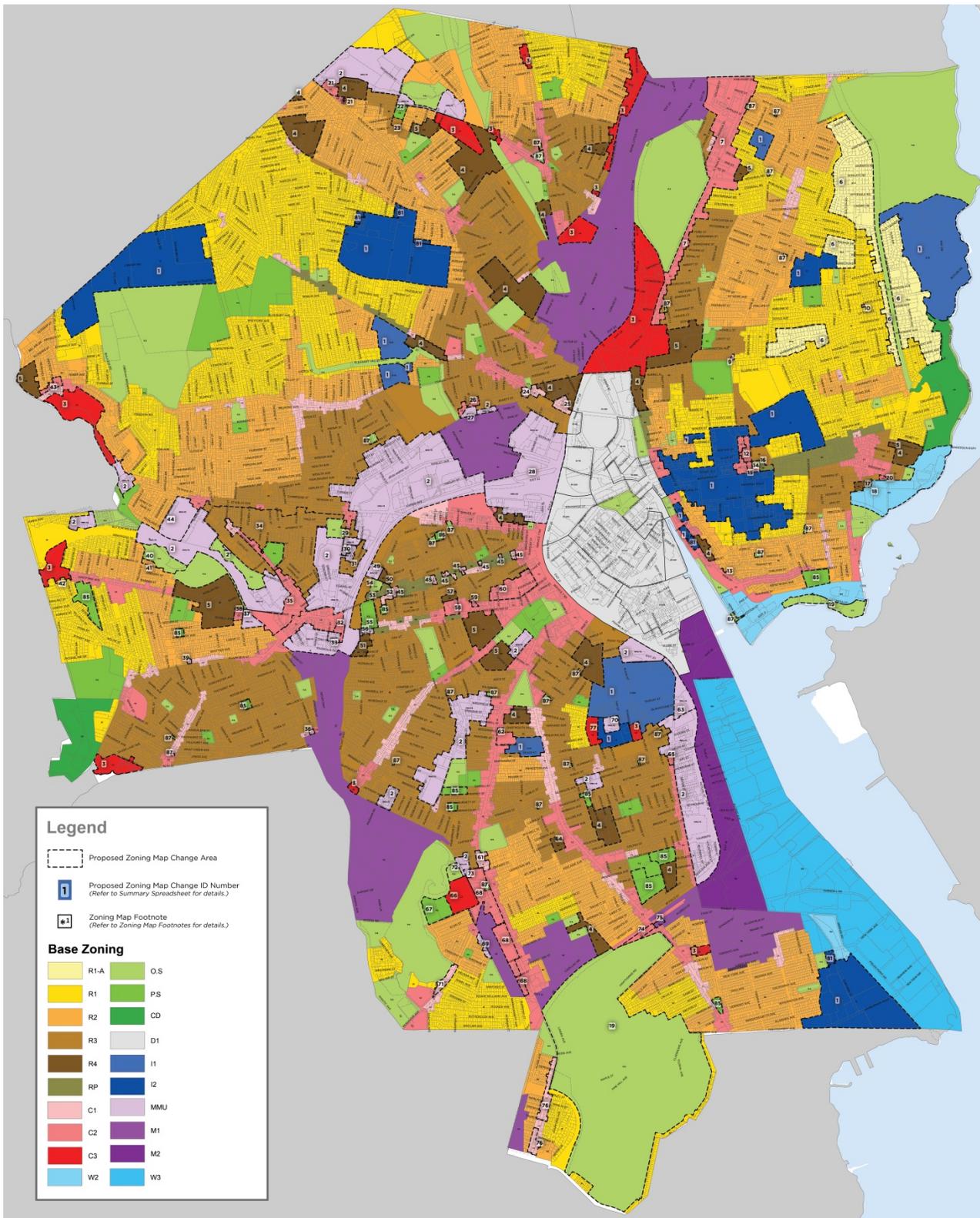


Table 11.1 Future Zoning Change Areas

Change ID #	Current Zoning	Proposed Zoning	Ward	Neighborhood	Explanation
1	varies	I1/I2	Multiple	Multiple	Existing I1 and I2 Institutional Overlay Zones to be converted to Base Zones to simplify and clarify zoning map.
2	M1	MMU-75	Multiple	Multiple	Existing Light Industrial (M1) zones split into two new zones: M1 (jobs only, no residential) and MMU-75 (allows for residential development), implements "Jobs Only" districts designated in Comprehensive Plan.
3	C4	C3	Multiple	Multiple	Existing C4 district to be renamed C3.
4	RG	R4	Multiple	Multiple	Existing RG and RM districts to be combined into new R4 (multi-family residential) zone.
5	RM	R4	Multiple	Multiple	Existing RG and RM districts to be combined into new R4 (multi-family residential) zone.
6	R1	R1-A	2, 3	Blackstone	New R1-A district created to preserve the character of large lot single family areas (7,500 sf and above).
7	C4	C2	3	Hope, Mount Hope	Existing Heavy Commercial area along North Main Street to be rezoned as General Commercial to encourage neighborhood-scale commercial development.
9	R1	C1	3	Blackstone	Tortilla Flats property at corner of Olney and Hope streets to be rezoned from Single-Family Residential to Local Commercial to reflect existing use.
10	R1	C1	2	Blackstone	Lot at southeast corner of Lincoln and Cole avenues to be rezoned from residential to Local Commercial to reflect existing use.
12	R3, RM High	C2	2	College Hill	Lots along west of Brook St between Cushing and Waterman to be rezoned from residential to commercial to accommodate more diverse land uses. Implements Thayer Street Planning Study recommendation.
13	C2	R2	1	Fox Point	Easement off of Transit Street to be changed from C2 to R2 to reflect use as easement to residential property.
14	R3	C1	1	College Hill	Citizen's Bank lot at the northeast corner of Brook and Waterman to be rezoned from residential to commercial to reflect existing use.
15	C1	C2	1	College Hill	Lots west of Brook St, between Angell and Waterman to be rezoned from C1 to C2 to accommodate more diverse land uses. Implements Thayer Street Planning Study recommendation.
16	R3	RP	1	College Hill	Lots along Angell and Waterman, between Brook and Hope streets, to be rezoned from residential to residential-professional to reflect existing uses and character. Implements Thayer Street Planning Study recommendation.
17	W1	R4	1	Fox Point	W1 district is being eliminated. Lots between Pitman and George streets, on either side of Wayland Avenue, to be rezoned as multi-family residential to reflect existing character.
18	W1	W2	1	Fox Point, Wayland	W1 district is being eliminated. Eastside Marketplace, Riverview Place, Richmond Square and other lots along waterfront to be rezoned as W2.
19	PS	OS	1	Fox Point, South Elmwood	India Point Park and Roger Williams Park to be rezoned from Public Space to Open Space to reflect existing uses.
20	W1	C2	1	Wayland	W1 district is being eliminated. Lots at northwest corner of Pitman Street and Wayland Avenue to be rezoned as commercial to reflect existing character.
21	C1	C2	4	Wanskuck	1010 Branch Avenue as well as lots at northern corner of Douglas and Branch avenues to be rezoned from C1 to C2.
22	M1	PS	14	Wanskuck	Area south of Branch Ave, east of Veazie, to be rezoned from M1 to Public Space to reflect existing school (E-Cubed Academy).
23	M1	R3	14	Wanskuck	Area north of Shiloh, east of Veazie to be rezoned from industrial to residential to reflect surrounding character.
24	C2	C1	12	Smith Hill	Commercial lots south and east of Smith/Orms intersection to be rezoned from General Commercial to Local Commercial to encourage smaller-scale commercial development compatible with the neighboring residential zones.
25	C2	C1	12	Smith Hill	Commercial lots on Smith Street, west of I-95 to be rezoned from General Commercial to Local Commercial to encourage smaller-scale commercial development compatible with the neighboring residential zones.
26	C4	C2	12	Smith Hill	Commercial lots at northern corner of Valley and Jewett to be rezoned from Heavy Commercial to General Commercial to encourage neighborhood-scale commercial development.
27	C4	MMU-75	12	Smith Hill	Lots south of Valley/Jewett intersection to be rezoned from heavy commercial to industrial mixed-use to reflect existing uses.
28	D2	MMU-90	12, 13, 15	Smith Hill, Federal Hill	Existing D2 district is being eliminated. Lots along Promenade Street and Providence Pl and D2 area along Cedar and Bradford streets to be rezoned to industrial mixed-use to reflect existing character.
29	C2	R3	15	Olneyville	Lots along Tuxedo and Amherst to be rezoned from commercial to residential to reflect existing character.
30	C2	MMU-75	15	Olneyville	Lots north of Helm Street, east of Valley Street, to be rezoned from commercial to industrial mixed-use to reflect existing character.
31	M1	R3	15	Olneyville	Lots along Desoto Street to be rezoned from manufacturing to residential to reflect existing character.
32	C4	C2	15	Olneyville	Lots south of Westminster Street, east of Troy Street to be rezoned from Heavy Commercial to General Commercial to reflect existing character and encourage neighborhood-scale commercial development.
33	C4	MMU-75	15	Olneyville	Lots east of Troy, between Oak and Dike streets to be rezoned from Heavy Commercial to industrial mixed-use to reflect existing character.
34	RM	R3	6, 15	Olneyville	Residential lots between Atwells and Manton avenues to be rezoned from RM to R3 to reflect existing character.
35	C4	C2	15	Olneyville	Former Price Rite Plaza on Manton Avenue to be rezoned from Heavy Commercial to General Commercial to encourage neighborhood-scale commercial development.
36	R3	C1	15	Silver Lake	Two lots along Union Ave, on either side of Cumerford St, to be rezoned from residential to Local Commercial.
37	C4	MMU-75	7	Hartford	Lot at southeast corner of Hartford Avenue and Heath Street to be rezoned from Heavy Commercial to mixed-use industrial to reflect existing character.
38	C4	C2	7	Hartford	Lot south of Hartford Avenue between Heath and Etna streets to be rezoned from Heavy Commercial to General Commercial to encourage neighborhood-scale commercial development.
39	C4	C1	7	Silver Lake	Lots at the northeast corner of Laurel Hill Avenue and Plainfield Street to be rezoned from Heavy Commercial to Local Commercial to reflect surrounding character and encourage smaller-scale commercial development compatible with the neighboring residential zones.
40	M1	OS	7	Hartford	Former Lincoln Lace and Braid site to be rezoned from industrial to Open Space to reflect existing use.
41	M1	R2	7	Hartford	Residential lots along Barbara Street, east of Melissa Street, to be rezoned from industrial to residential to reflect existing use.
42	C4	R1	7	Hartford	Three wooded lots between Milo and Killingly streets, behind Citizens Bank on Hartford Avenue, to be rezoned from commercial to residential.

Change ID #	Current Zoning	Proposed Zoning	Ward	Neighborhood	Explanation
43	C4	C2	5	Manton	Lots on north side of Manton Avenue, west of Fruit Hill Avenue to be rezoned from Heavy Commercial to General Commercial to encourage neighborhood-scale commercial development.
44	RG	MMU-75	15	Olneyville	Manton Heights property to be rezoned from Residential General to Mixed-Use Light Industrial to accommodate planned future redevelopment of the site.
45	RP	C1	13	Federal Hill	Lots at key nodes along Broadway to be rezoned from Residential-Professional to Local Commercial to reflect existing uses: Ringgold St (Allstate Insurance), Pallas St (Broadway Bistro), Vinton St (Julian's, DePasquale Pharmacy), Knight St (Seven Stars, floral shop), Courtland St (Cluck, Broadway Gas), Tobey St (Nick's).
49	R3	MMU-75	13	Federal Hill	Lots north of Bell Street Park, between Ridge Street and Route 6, to be rezoned from Three-Family Residential to light industrial mixed-use to reflect existing use.
50	R3	R4	13	Federal Hill	Parenti Villa property to be rezoned from Three-Family Residential to Multi-Family Residential to reflect existing use.
51	R3	R4	13	West End	Marvin Gardens property to be rezoned from Three-Family Residential to Multi-Family Residential to reflect existing use.
52	R3	C1	13	Federal Hill	Lots south of Broadway between Tobey and one lot west of Bainbridge to be rezoned from residential to commercial to reflect existing character.
53	R3	RP	13	Federal Hill	Lots north of Broadway west of Tobey, to be rezoned from residential to residential-professional.
54	R3	OS	13	Federal Hill	Bell Street Park to be rezoned from residential to Open Space to reflect existing use.
55	R3	PS	13	Federal Hill	Asa Messer Elementary School to be rezoned from residential to Public Space to reflect existing use.
56	R3	MMU-75	13	West End	Lots along the south side of Westminster Street, east of Route 6/10 to be rezoned from residential to mixed-use industrial to reflect existing uses.
57	D2	R4	13	Federal Hill	Existing D2 district is being eliminated. Area to be between Carpenter and Grant streets (Grant Mill Apartments) to be rezoned to multi-family residential to reflect existing use.
58	D2	C2	13	Federal Hill	D2 District being eliminated. D2 zone along Westminster, west of Bridgman Street, to be rezoned as General Commercial.
59	R3	C2	13	Federal Hill	Lots at the intersection of Washington and Knight streets to be rezoned from residential to General Commercial to reflect existing uses.
60	C4	C2	13	Federal Hill	Heavy Commercial area north of Washington Street (along Battey, Winter and Cargill streets) to be rezoned to General Commercial to better reflect surrounding character and encourage neighborhood-scale commercial development.
61	C2, R2	C1	9	Elmwood	Lots on either side of Elmwood Avenue from Ontario Street north to Locust Grove Cemetery to be rezoned to Local Commercial to encourage commercial uses compatible with surrounding residential districts.
62	C4	C2	11	Elmwood	Lot east of Elmwood Avenue between Dartmouth Avenue and Plenty Street to be rezoned from Heavy Commercial to General Commercial to reflect surrounding character.
63	C2, C4	MMU-75	11	Upper South Providence	Lots east of Eddy Street from Dudley Street to Willard Ave to be rezoned from Commercial to mixed-use industrial to reflect surrounding character.
64	R3	R4	9	Elmwood	Lots east of Niagara Street on either side of Ontario Street to be rezoned from R3 to multi-family residential to reflect existing multi-family use.
65	M1	C2	10	Lower South Providence	Lots west of Eddy Street, from Potters Avenue to O'Connell Street (site of Love For All Learning Center and parking lot), to be rezoned from light industrial to General Commercial to match surrounding character.
66	M1	C3	8	Reservoir	Former Stop and Shop Plaza to be rezoned from industrial to Heavy Commercial.
67	M1	PS	8	Reservoir	Alvarez High School to be rezoned from industrial to Public Space to reflect existing use.
68	C4	C2	8	Elmwood	Heavy Commercial area west of Elmwood Avenue near Reservoir Avenue intersection to be rezoned to General Commercial to encourage neighborhood-scale commercial development.
69	C4	MMU-75	8	Reservoir	Lots currently zoned as Heavy Commercial along Narragansett Ave, between Reservoir Ave and Woodmont St, to be rezoned as mixed-use industrial to reflect existing uses.
70	PS	MMU-75	11	Upper South Providence	Former Flynn School property to be rezoned as Mixed-Use Industrial to allow for a greater range of uses.
71	C2	C1	8	Reservoir	Lots along west side Reservoir Ave, between Wildwood and Stadden streets, to be rezoned from General Commercial to Local Commercial to encourage the development of smaller-scale commercial uses compatible with the neighboring residential zones.
72	M1	OS	6	Reservoir	Lot on Mashapaug Pond to be rezoned from industrial to Open Space.
73	C4	MMU-75	8	West End	Vacant lot at the end of Earl Street, west of Elmwood Avenue, to be rezoned from Heavy Commercial to mixed-use light industrial.
74	C4	C2	9	South Elmwood	Heavy Commercial lot along west side of Broad Street, between Roger Williams Park and I-95, to be rezoned to General Commercial to encourage neighborhood-scale commercial development.
75	C4	M1	10	Washington Park	Heavy Commercial lot along east side of Broad Street, between Aldrich Street and I-95, to be rezoned to Light Industrial.
76	R2	C1	8	South Elmwood	Lots on either side of lower Elmwood Avenue from Route 10 south to the City line to be rezoned from residential to Local Commercial to reflect existing uses and to encourage the development of smaller-scale commercial uses compatible with the neighboring residential zones.
77	R3	C3	11	Upper South Providence	Urban League property to be rezoned from residential to Heavy Commercial (C3) to allow for a greater mix of uses.
78	--	TOD Overlay	11	Upper South Providence, West End	New Transit-Oriented Development (TOD) Overlay District to be introduced along Broad St from Trinity Square north to the Service Road.
79	--	TOD Overlay	3	Hope	New Transit-Oriented Development (TOD) Overlay District to be introduced for upper North Main Street between North Burial Ground and the Pawtucket city line.
80	--	I-3E Overlay	Multiple	Multiple	Institutional campuses to be expanded through I-3E (Educational Overlay) District.
81	--	I2	Multiple	Multiple	Expansion of Institutional Zone as I2 Institutional District.
85	varies	PS	Multiple	Multiple	The following City-owned properties to be rezoned to Public Space to reflect existing use as public schools: a. West Broadway Middle School, 29 Bainbridge Avenue (Plat 35, Lot 543) b. Vinton Oregon Elementary School, 455 Wickenden Street (Plat 17, Lot 2) c. DeSesto Middle School, 152 Springfield Street (Plat 15, Lot 585) d. Frank D. Spaziano Elementary School, 85 Laurel Hill Avenue (Plat 107, Lot 84) e. Webster Avenue Elementary School, 191 Webster Avenue (Plat 104, Lot 50) f. Alfred Lima, Sr. Elementary School, 222 Daboll Street (Plat 43, Lot 570) g. Leviton Dual Language School, 65 Greenwich Street (Plat 43, Lot 979) h. Robert L. Bailey, IV Elementary School, 65 Gordon Avenue (Plat 48, Lots 772, 773, 775, 958, 1084) i. Providence Academy of International Studies, 162 Thurbers Ave (Plat 54, Lot 923) j. Young and Woods Elementary School, 674 Prairie Avenue (Plat 54, Lots 225, 918, 917) k. Alan Shawn Feinlein Elementary School at Broad Street, 1450 Broad Street (Plat 58, Lot 458)

86	R3	PS	13	Federal Hill	Zuccolo Recreation Center (Plat 28, Lot 676) to be rezoned from three-family residential to public space to reflect existing use as city recreation center.
87	varies	OS	Multiple	Multiple	<p>The following City-owned properties to be rezoned to Open Space to reflect existing use as public parks:</p> <ul style="list-style-type: none"> a. Alphonso Street Totlot, 10 Alphonso Street (Plat 46, Lot 267) b. Brassil Memorial Park, 41 Arnold Street (Plat 16, Lot 312) c. Cerbo Square, 136 Murray Street (Plat 109, Lot 146) d. Columbus Square, 24 Reservoir Avenue (Plat 52, Lot 20) e. Corliss Landing, 579 South Water Street (Plat 18, Lot 16) f. Diamond Street Playground, 136 Diamond Street (Plat 31, Lot 188) g. Fenner Square, 80 Governor Street (Plat 17, Lot 234) h. Hopkins Square, 400 Branch Avenue (Plat 71, Lot 139) i. Jacqueline Clements Park, 333 Dudley Street (Plat 23, Lot 979) j. Jennifer Rivera Memorial Park, 40 Niagra Street (Plat 49, Lot 260) k. Knight Street Park, 82 Knight Street (Plat 28, Lot 135) l. Mable Smith Totlot, 103 Taylor Street (Plat 45, Lot 698) m. Morris Avenue Totlot, 387 Morris Avenue (Plat 7, Lot 120) n. Ninth Street Park, 21 Ninth Street (Plat 91, Lot 649) o. Pearl Street Park, 161 Pearl Street (Plat 23, Lot 237) p. Pleasant Street Park, 34 Pleasant Street (Plat 68, Lot 10) q. Regent Avenue Playground, 140 Regent Avenue (Plat 65, Lot 187) r. Rochambeau Square, 8 Brewster Street (Plat 73, Lot 319) s. Salisbury Street Totlot, 13 Salisbury Street (Plat 46, Lot 313) t. Silver Lake Memorial Park, 308 Pocasset Avenue (Plat 109, Lot 423) u. St. Ann's Plaza, 578 Charles Street (Plat 71, Lot 600) v. St. John's Park, 47 Sulton Street (Plat 28, Lot 165) w. Summit Avenue Park, 84 Ninth Street (Plat 91, Lot 131) x. Waldo Street Totlot, 136 Waldo Street (Plat 43, Lot 729) y. Warren Avenue Playground, 35 Warren Street (Plat 30, Lot 309)

The following table contains descriptions of each land use designation as well as a photograph of a typical area. (Table 11.2 Land Use Designations)

Table 11.2 Land Use Designations

Use Designation	Description	Photo
Single Family Residential	These areas are characterized by one-family dwellings in detached structures on separate lots. Lot sizes vary by neighborhood with most ranging from 3,200 to 6,000 square feet. Some areas have lot sizes upwards of 7,500 square feet.	
Low Density Residential	These areas are characterized by one-family and two-family dwellings in detached structures on separate lots. Buildings typically range in height from one to three stories. Lot sizes vary by neighborhood, with most ranging from 3,200 to 5,000 square feet. In some areas, small-scale commercial uses, such as neighborhood corner stores, may be appropriate.	

Use Designation	Description	Photo
<p>Medium Density Residential</p>	<p>These areas are characterized by one to three-family dwellings and multi-family dwellings on separate lots. Buildings typically range in height from one to three stories. Lot sizes vary by neighborhood, with most ranging from 3,200 to 5,000 square feet. In some areas, small-scale commercial uses, such as neighborhood corner stores, may be appropriate.</p>	
<p>High Density Residential</p>	<p>These areas are characterized by multi-family dwellings, with some one, two and three-family dwellings interspersed. Multi-family buildings typically range from three to four stories in height. In some areas, small scale commercial uses, such as neighborhood corner stores, may be appropriate.</p>	
<p>Neighborhood Commercial/Mixed-Use</p>	<p>These areas are characterized by traditional, pedestrian and transit-oriented uses that serve local neighborhood needs for convenience retail, services, professional offices, and housing. Buildings are set close to the street, with entrances and facades oriented toward the street. Residential uses are encouraged.</p>	
<p>General Commercial/Mixed-Use</p>	<p>These areas are characterized by commercial uses such as large shopping complexes and plazas that serve citywide needs for retail, services and office establishments. Residential uses are encouraged in these areas. These areas may be located along commercial corridors that accommodate large commercial uses or clustered uses at a higher density to support transit.</p>	

Use Designation	Description	Photo
<p>Downtown/Mixed-Use</p>	<p>This area is intended to revitalize and restore the historic core business area and to accommodate appropriate expansion of the downtown area. It is characterized by a variety of business, financial, institutional, public, quasi-public, cultural, residential, appropriate light manufacturing, and other related uses. To preserve and foster the economic vitality of downtown, a mix of compatible uses is encouraged to promote commercial and other business activity at the street level and residential, office, and commercial uses on the upper floors. In order to promote economic development while maintaining compatibility between uses, sub-districts may be established to address building height, entertainment and light industrial uses. It should be noted that in addition to the contiguous parcels in the historic core business area, there are several Downtown/Mixed-Use parcels located between Westminster, Grant, and Bridgham Streets. These parcels have been designated as Downtown/Mixed-Use in the past and no change will be made.</p>	

Use Designation	Description	Photo
Business/Mixed-Use	<p>These areas are intended to foster the expansion of business, industrial, commercial, office and medium-to-high density residential uses into former manufacturing areas and historic mill buildings. A variety of business, financial, institutional, public, quasi-public, cultural, light industrial, manufacturing and other related uses are encouraged to provide a mix of activities in these areas. Certain areas of this land use designation allow for residential uses, however, certain areas do not.</p>	
Waterfront Mixed-Use/Neighborhood	<p>These areas are intended for a mixture of residential and neighborhood serving commercial, recreational and open space/public space uses.</p>	

Use Designation	Description	Photo
Waterfront/Port	<p>These areas are intended for waterfront port and maritime uses to promote the Port of Providence and related maritime industrial and commercial uses within the waterfront area. The purpose of this designation is to protect the waterfront as a resource for water dependent industrial uses, and to facilitate the renewed use of a vital waterfront for economic growth and expansion.</p>	
Public/Open Space	<p>These areas are intended to ensure that open space and areas for public buildings and facilities are preserved in the city. These areas are characterized by parks, baseball fields, soccer fields, and supporting uses, as well as areas for passive recreation. Other typical uses include government-owned park and recreation areas and public buildings such as fire stations and schools. These areas are typically publicly owned, but may include privately owned land.</p>	 
Conservation	<p>These areas are intended to ensure woodlands, rivers, streams, ponds, wetlands, floodplains, and other sensitive natural areas are preserved in their natural scenic and ecological condition. These areas may be publicly or privately owned.</p>	

Use Designation	Description	Photo
<p>Greenway</p>	<p>These areas are intended to provide active and passive recreation and open space along the waterfront, and to provide continuous connections between open spaces. They may vary in width depending on the potential for adjacent public/open space or other amenities. They may be publicly or privately owned.</p>	
<p>Institutional</p>	<p>These areas , which include both zones and overlays, are institutional campuses, designed to permit institutional growth and development while controlling and limiting negative impacts on neighborhoods.</p>	

11.2.1 Residential Areas

The majority of land in the city is developed as residential neighborhoods. These areas contribute significantly to the livability of the city; their special character is what attracts many people to Providence. Residents have voiced strong support for protecting residential neighborhoods from intrusions that negatively impact quality of life, such as the expansion of commercial and institutional uses. Since 2000, there has been an increase in residential infill projects in virtually every neighborhood in the city. While some projects fit seamlessly into the surrounding neighborhood, many of the new homes do not respect the character of the surrounding area. While the City supports the expansion of housing opportunities, it is essential that new construction respects the valued attributes and character of the surrounding neighborhood.

While residential dwellings are the predominant use in these areas, one of the things that makes Providence special is the variety of neighborhood stores and service establishments that are scattered throughout residential areas, within walking distance of residents. These types of uses are appropriate in certain locations, with limits on size and design to ensure compatibility with adjacent residential properties. In many neighborhoods there are also historic buildings, such as former mills and schools that are part of the urban fabric but are no longer suitable for their original uses. To promote the preservation of these buildings, land use regulations must be flexible in terms of their use and density.

The City recognizes the importance of providing a variety of residential types and densities to ensure balanced housing choices for City residents. At the same time, the City aims to ensure that the residential integrity of the neighborhoods are preserved and protected from the encroachment of commercial, industrial and other uses.

OBJECTIVE LU3: MAINTAIN AND ENHANCE RESIDENTIAL AREAS

Promote the development of a wide range of residential land uses to ensure a diversity of housing choices (type and density) for City residents, while limiting the amount and type of other land uses within residential areas designated on Map 11.2 'Future Land Use'.

Strategies:

- A. Encourage development that is consistent with residential character by updating regulations to:
 1. Allow for residential development at the same density levels as currently exist.
 2. Allow for a range of housing types to accommodate increased population that is consistent with the character of the neighborhood in scale, density and overall design.⁸⁹
 3. Allow for limited non-residential uses such as neighborhood corner stores, offices and home-based businesses while maintaining the residential character of the area.
- B. Encourage adaptive reuse of historic non-residential buildings in residential areas by allowing for increased residential density or limited non-residential uses to make reuse economically feasible.⁹⁰
- C. Encourage neighborhood revitalization by targeting vacant lots for housing, green space, playgrounds, or community gardens, based on the needs and density of the neighborhood.

⁸⁹ See Strategy H5(E)

⁹⁰ See Strategy H2(D)

11.2.2 Mixed-Use Areas

While most areas in the city have more than one single use, the truly mixed-use areas are the city's downtown, commercial corridors, former manufacturing areas and parts of the City's waterfront. Urban life and vitality are the heart of these areas, with residential, retail, office, industrial, civic, institutional, and entertainment uses jumbled together. Mixed-use takes many forms, such as small commercial blocks, commercial areas along main corridors, shopping areas and plazas, office buildings with retail uses on the ground floor, stores with apartments on upper floors, or former mill buildings with a mix of industrial, office and residential uses.

Mixing uses creates desirable places to live by improving the balance of jobs to housing and creating healthy neighborhoods where residents can walk to shops and services. It is in these mixed-use areas that nodes of concentrated development could be established to link future development to transit hubs. In these nodes, greater residential density and buildings heights could be accommodated to create a more efficient pattern of development and protect the character of the residential neighborhoods.

Building form is important in mixed-use areas. The urban fabric of our city, with buildings set to the street edge, pedestrian amenities and human-scaled building massing and design must be preserved and must guide the character of future developments. When many uses co-exist, it is the built environment of those areas that establish the character. Establishing a cohesive form allows for uses to change over time without significantly changing the character of the area.

While a variety of uses is encouraged in these areas, it is important that no one use dominates. For example, in some of the city's former manufacturing areas, residential uses are permitted; however it is not intended that those areas should become primarily residential. A healthy mix of uses is essential to the future vitality of downtown, the commercial areas, the former manufacturing areas, and parts of the City's waterfront.

OBJECTIVE LU4: PROMOTE VIBRANT MIXED-USE AREAS

Promote the development of mixed-use areas with different levels of intensity and use to improve the jobs/housing balance and encourage alternative modes of transportation.

Strategies:

- A. Promote the development of a mixture of residential and neighborhood-serving commercial uses in areas designated as Neighborhood Commercial/Mixed-Use on Map 11.2 'Future Land Use' as a transition to adjacent residential neighborhoods by:
 1. Encouraging the development of retail, office and service uses that are compatible with surrounding areas.
 2. Encouraging and, in areas where appropriate, requiring buildings to be a minimum of two stories to support potential residential development on upper floors.
 3. Updating regulations to include design criteria focused on pedestrian orientation and maintaining neighborhood character.
- B. Promote the development of a mixture of commercial uses that serve citywide needs and higher density residential uses in areas designated as General Commercial/Mixed-Use on Map 11.2 'Future Land Use' along major arterials and select areas to create nodes of activity by:
 1. Identifying areas that should be developed with a concentration of commercial and higher density uses to support transit.⁹¹
 2. Identifying areas where residential uses are not appropriate.
 3. Updating regulations to include design criteria focused on maintaining and improving neighborhood character, pedestrian orientation and accessibility to transit.
- C. Encourage continued investment in the area designated as Downtown/Mixed-Use on Map 11.2 'Future Land Use' with a high concentration of business, commercial, institutional, cultural, and residential uses by:
 1. Identifying changes to regulations and other strategies to minimize the conflict between residential, business and entertainment uses, such as development a measurement process for nightlife's impact and creating a strategy for its use by the Board of Licenses in managing the renewal of licenses and projecting the effect of a new license issue.
 2. Refining the unified design vision for the area through the neighborhood planning process, using previous plans such as the DOWNCITY Plan, the Jewelry District Plan and Providence 2020 as a starting point.
 3. Refining existing regulations to better implement the goals of protecting the historic character and environmental assets of the area while promoting new investment.
 4. Identifying strategies to increase parking downtown without negatively impacting the character of the built environment.⁹²
 5. Developing zoning regulations for the Jewelry District and the surplus I-195 land that encourage a mix of uses, and promote urban design excellence.
 6. Promote development of the knowledge economy in Downtown.

⁹¹ See Strategies BE3(B) and M7(B)

⁹² See Strategy M6(G)

- D. Encourage the development of former manufacturing areas designated as Business/Mixed-Use on Map 11.2 'Future Land Use' with a balanced mixture of commercial, light industrial, office and residential uses by:
1. Promoting these areas for business retention and expansion for a variety of businesses.
 2. Encouraging the adaptive reuse of former manufacturing buildings with a mixture of uses that contributes to the character of the area if economically feasible.
 3. Updating regulations to limit residential uses to upper floors and ensure that residential uses do not impede business development efforts.

11.2.3 Business Areas

It is vital for Providence to provide opportunities for industries and industrial expansion which will employ residents of Providence, while ensuring minimal impact on adjacent residential areas. These areas are designated as Jobs Districts on Map 11.2 'Future Land Use'. Manufacturing land uses consists of land that is occupied by industries such as jewelry and assembly companies. Manufacturing uses are located throughout the City, with a number of industrial parks such as Huntington Industrial Park, Silver Spring Industrial Park, West River Industrial Park, and the industrial area of Washington Park. There has been a significant reduction in the amount of land occupied by industries in the last few decades. As manufacturing companies of all kinds generally employ large numbers of people and contribute to a diverse economic base, efforts will be made through this plan to encourage manufacturing firms to grow and expand in these areas. Businesses need areas where they can predictably grow and expand in the future without the concern of conflicts that often arise between manufacturing/industrial uses and residential uses. Therefore, no residential uses of any kind are permitted in the Jobs Districts.

OBJECTIVE LU5: PROTECT AREAS FOR JOBS

Promote business retention and expansion in areas best suited for industrial and commercial development.

Strategies:

- A. Encourage the growth of industrial activities by preserving industrial land primarily for manufacturing purposes in areas designated as Jobs Districts on Map 11.2 'Future Land Use'.
- B. Promote the preservation of industrial parks to encourage the expansion and, if possible, the return of manufacturing companies to the city to expand the economic base.
- C. Prohibit all residential uses in the Jobs District, including artist live-work space.

11.2.4 Natural and Civic Areas

Natural and civic spaces are an extension of the community. When these spaces work well, they serve as a stage for the public lives of city residents. If they function in their true civic role, they can be the settings where celebrations are held, where friends run into each other, and where cultures mix. When cities and neighborhoods have thriving open and civic spaces, residents have a strong sense of community; conversely, when such spaces are lacking, people may feel less connected to each other.

Natural and open spaces contribute to community health – socially, economically, culturally and environmentally. They enhance the civic realm – not only visually, but also in providing a sense of character and

a forum for public activities. All of these assets, as well as the opportunities these places offer residents to relax and enjoy themselves, and to exercise and recreate add up to greater city livability.

Public places offer free, open forums for people to encounter art, to enjoy performances, and to participate in other cultural activities. From concerts at the Temple to Music in Roger Williams Park to outdoor art displays downtown, open spaces foster and enhance a city's cultural life. WaterFire, the award winning fire and music installation, has had an impressive cultural and economic impact, attracting hundreds of thousands of visitors downtown on summer and fall evenings. These events bring a great variety of people together and set the stage for positive social interaction.

Open space and public buildings land uses consist of areas committed to planned open space such as parks, playgrounds and cemeteries; and public buildings such as City Hall, public schools, and police and fire stations. Open space areas have been designated to allow for the active and recreational needs of city residents. As the population of the city continues to change, the recreational needs of city residents are also changing. Through the open space objectives and strategies presented in this plan the city will meet these changing needs and efforts will be made to ensure that these needs are addressed on an ongoing basis.

OBJECTIVE LU6: MAINTAIN AND ENHANCE OPEN SPACES AND CIVIC AREAS

Preserve and protect Providence's open and public spaces to enhance the overall quality of life for city residents.

Strategies:

- A. Provide opportunities for recreation and visual relief by preserving Providence's parks, playgrounds, golf courses, cemeteries and undeveloped city-owned open space.
- B. Preserve open space along the city's waterbodies by creating open space corridors along rivers and ponds.⁹³
- C. Promote a diversity of recreational activities through the use of active open space in the City's parks, playgrounds and other recreational areas.
- D. Protect and preserve environmentally sensitive and significant areas.⁹⁴
- E. Provide and encourage the provision of a variety of active and passive recreation facilities geographically distributed to serve the present and future needs of city residents.
- F. Expand the amount of public open space in Providence.
- G. Identify city and/or state-owned open spaces best suited for urban agriculture.⁹⁵
- H. Develop a plan for the reuse of public buildings that are no longer being used for public purposes.
- I. Develop a system of greenways, as identified on Map 11.2 'Future Land Use'.⁹⁶

11.2.5 Institutional Areas

The city's seven universities and seven hospitals are important centers of employment, education and culture for Providence and the region. The health care facilities provide vital services to residents. Both hospitals and colleges also have unique characteristics that add value above and beyond creating jobs. These institutions conduct research and impart technical expertise to their students and workers. In the increasingly knowledge-

⁹³ See Strategy SE2(C)2

⁹⁴ See Strategy SE2(A)

⁹⁵ See Strategies BJ5(B)3, SE2(E) and SE2(F)

⁹⁶ See Strategy SE2(C)2

based economy, these institutions contribute to a more experienced and educated workforce, a highly desirable resource in all cities. Furthermore, their economic activities foster an entrepreneurial spirit and attract additional economic growth through small spin-off businesses and supporting uses. Institutions contribute to the city in other ways as well, such as through education partnerships, mentoring teachers and students and "adopting" schools, and through payments in lieu of taxes, which helps to offset the loss of taxes due to the institutions' tax-exempt status.

Balanced with all of the benefits that institutions bring to our city are the impacts of institutions: traffic, noise, pollution, housing shortages, congestion, and a loss of tax revenue. As many of the hospitals and colleges are located in residential areas, these impacts are not insignificant. Institutional buildings are often of a height; scale and massing that do not blend well with the character of residential neighborhoods. The city recognizes the importance of mitigating conflicts with residential areas, identifying the best locations for institutional growth and expansion in the future, and encouraging growth in those areas.

Providence is a compact city with limited land area available for new development. Unlike many U.S. cities that are able to annex land to increase their area, Providence has a fixed land area of 18 square miles. Approximately a third of the land area is stable residential neighborhoods where significant change and growth is unlikely and unwanted. In addition, a large percentage of the city's land area (over 46%) is taken up with land uses that do not generate property taxes, such as schools, churches, hospitals, state offices and public rights of way. What remains is a small area of available land for new growth and development, generating new revenue for the city. It is imperative that this resource be utilized efficiently and effectively. Growth is essential to the city's economic health and sustainability, as the city is dependent on property taxes for income. As land use policy and tax policy are intricately linked, both must be considered in this plan.

The objectives and strategies in this section aim to strike a balance between institutional growth, taxpayer affordability and neighborhood preservation.

OBJECTIVE LU7: ALLOW FOR INSTITUTIONAL GROWTH WHILE PRESERVING NEIGHBORHOODS

Permit institutional growth and expansion in Institutional areas designated on Map 11.2 'Future Land Use' while limiting their encroachment and negative impacts on the neighborhoods in which they are located.

Strategies:

- A. Ensure that institutional development is consistent with neighborhood character by updating institutional regulations to:
 1. Address setbacks and buffering from adjacent residential uses.
 2. Encourage the development of parking garages to minimize surface parking lots, where appropriate, or off-site parking facilities.
 3. Address the design of buildings, through height, scale and massing regulations.
 4. Require institutions to use their land more efficiently and expand on their existing campus footprint, while ensuring compatibility with the surrounding neighborhood.
- B. Encourage institutions, where possible, to collaborate by co-locating uses and services to maximize the use of available land within their current land holdings.
- C. Identify and evaluate the best areas in the city for institutional expansion in commercial areas, mixed use areas and downtown, with consideration for the impact of institutional uses on the city's tax base.
- D. Consider the individual settings of institutions in crafting regulations. Use the neighborhood planning process to identify unique neighborhood conditions and potential regulations to address them.
- E. Collaborate with institutions to address city needs such as development of housing, jobs, the redevelopment of underused land, and development of venture capital relationships with the business community.
- F. Continue to require health care and educational institutions to prepare long-range master plans that will allow the city to evaluate and mitigate impacts of proposed expansions on City neighborhoods. Such Master Plans shall:
 1. Address short (1-2 years), mid (5 years) and long-range (10 years) growth and expansion plans, including current property holdings.
 2. Be updated a minimum of every five years in accordance with the schedule adopted by the City Plan Commission.
 3. Identify the process through which the institution coordinated with the surrounding neighborhoods.
 4. Identify specific measures to mitigate impacts of expansion on surrounding neighborhoods.
 5. Identify specific measures to encourage and offer incentives for students and employees to use public transportation.

11.3 Achieving the Vision

This section links the other chapters of *Providence Tomorrow* to Land Use by addressing how each element of the plan (Housing, Sustainability and the Environment, for example) impacts land use. In each section, specific land use strategies are identified to implement the goals of the other chapters of this plan.

OBJECTIVE LU8: SUSTAINABILITY AND THE ENVIRONMENT

Promote sustainability and environmental quality through appropriate land use controls.

Strategies:

- A. Amend land use controls to:
 - 1. Protect solar access.
 - 2. Allow for greenways citywide.
 - 3. Promote home-based businesses and telecommuting.
- B. Identify land areas that are best suited to wind power generation.
- C. Evaluate existing set back requirements from waterbodies to ensure water quality protection.
- D. Identify construction techniques to minimize flood damage to buildings in the flood zone.
- E. Identify appropriate land areas for transfer stations. Identify other amendments that need to be made to facilitate trash to energy conversion.
- F. Identify environmentally sensitive land areas, and amend regulations as necessary to ensure their protection.⁹⁷
- G. Develop incentives for the development of solar and wind energy, and green buildings and other developments with low environmental impacts.
- H. Support urban agriculture by:⁹⁸
 - 1. Identifying the best land areas for urban agriculture. Land best suited for development should not be considered for agriculture.
 - 2. Amending regulations as necessary to facilitate urban agriculture.
 - 3. Amending regulations as necessary to promote a system of farmers' markets throughout the city.

⁹⁷ See Strategy SE2(A)

⁹⁸ See Strategies BJ5(B)4, SE2(E), SE2(F), and LU6(G)

OBJECTIVE LU9: BUILT ENVIRONMENT

Promote design excellence and historic preservation through appropriate land controls.

Strategies:

- A. Identify possible “character” districts that could be used in the future as categories for land use regulations that are based more on building form than use.
- B. Identify the best locations for nodes of concentrated development and increased density. Link nodes to existing and future transit stops.
- C. Identify areas that could support taller buildings and amend land use regulations to allow for greater height in those areas.
- D. Amend regulations as needed to establish incentives for greater height and density in exchange for affordable units, public space investment, support for neighborhood amenities, sustainable design, etc.
- E. Amend regulations to permit small-scale businesses in residential neighborhoods, with the appropriate controls to mitigate the impact of these establishments.

OBJECTIVE LU10: BUSINESS AND JOBS

Promote job growth and retention through appropriate land use controls.

Strategies:

- A. Regulate land use downtown to ensure its future as Rhode Island’s preeminent center for business, tourism and entertainment.
- B. Ensure that land available after the I-195 relocation will support a significant number of jobs and generate taxes.
- C. Revise regulations to reinforce existing jobs districts and establish new districts that allow for business growth and the development of the city’s tax base without conflicts with residential uses. Key jobs districts are designated on Map 11.2 ‘Future Land Use’ and include:
 - 1. Promenade
 - 2. Industrial Parks: Huntington, West River, Silver Spring, Washington Park
- D. Identify land areas for the continued growth of existing industries and businesses and evaluate the land use needs for future business uses.
- E. Amend regulations as necessary to encourage mixed-use buildings in neighborhood commercial areas.
- F. Reduce regulatory barriers for some home occupations and telecommuting.
- G. Identify the best locations for small professional office uses in residential areas.
- H. Ensure residential uses do not discourage business growth and expansion in the business/mixed-use areas designated on Map 11.2 ‘Future Land Use’.
- I. Consider incentives to promote small business incubator space in industrial and commercial buildings.

OBJECTIVE LU11: HOUSING

Promote varying levels of housing density through appropriate land use controls.

Strategies:

- A. Amend regulations for the areas identified as Areas of Stability on Map 11.1 ‘Areas of Stability and Change’ to permit existing levels of density.
- B. Amend regulations for the areas identified as Areas of Change on Map 11.1 ‘Areas of Stability and Change’ to establish nodes of concentrations of density.

OBJECTIVE LU12: MOBILITY

Promote the efficient use of land to promote transit, walking and biking through appropriate land use controls.

Strategies:

- A. Identify the best land use areas for:
 - 1. Nodes of development to support existing and future public transit.⁹⁹
 - 2. Commercial corridors best suited for transit.
 - 3. Possible bike connections and corridors along greenways.
 - 4. Ferry ports and cruise ships.
 - 5. Marinas and moorings, through a Harbor Management Plan and, if necessary, amend land use regulations to support these uses.
- B. Amend land use regulations to :
 - 1. Allow for greater density and higher concentrations of development in those areas identified as nodes.
 - 2. Permit on-street parking.

OBJECTIVE LU13: ARTS AND CULTURE

Promote the development of arts, cultural and entertainment facilities through appropriate land use controls.

Strategies:

- A. Reduce regulatory barriers for artist work space.
- B. Identify appropriate land areas for large outdoor venues for events and festivals.¹⁰⁰
- C. Evaluate entertainment citywide to identify the best locations for different sized venues for entertainment, and mitigate the impacts of these uses in residential areas.
- D. Update the Adult Entertainment Plan.
- E. Promote and enforce the policies of the Responsible Hospitality Partnership Initiative.

⁹⁹ See Strategy M2(B)

¹⁰⁰ See Strategies AC4(D) and PS1(D)

OBJECTIVE LU14: PEOPLE AND PUBLIC SPACES

Promote the preservation and development of parks and open spaces through appropriate land use controls.

Strategies:

- A. Promote open spaces and public access along the waterfront.¹⁰¹
- B. Develop incentives for the provision of publicly accessible open spaces as a part of private developments, which shall be maintained by the private developer and be developed in accordance with established standards.
- C. Develop ways to activate park spaces in conjunction with neighboring uses.
- D. Identify possible locations for additional parks and open spaces in neighborhoods that are currently underserved by parks and open spaces.¹⁰²
- E. Promote the development of greenways as identified on Map 11.2 'Future Land Use'.

OBJECTIVE LU15: LAND USE AND THE REGION

Work with the State of Rhode Island and neighboring communities to promote the smart, efficient and equitable use of land.

Strategies:

- A. Work with surrounding communities to ensure compatibility of land uses on the city's edges.
- B. Coordinate federal and state plans with *Providence Tomorrow* to ensure a regional planning framework.
- C. Work with the State of Rhode Island to amend legislation to permit form-based regulations instead of regulations primarily based on use.
- D. Work with the State of Rhode Island to amend legislation to promote an equitable distribution of undesirable land uses.
- E. Work with the State and surrounding communities to effectively implement Land Use 2025, the state land use plan.
- F. Encourage the state to retain state offices in Providence and develop a plan for their use, maintenance and expansion and to densify on their existing campus.
- G. Work with the Federal government to retain and expand federal department offices in Providence.
- H. Consider the implementation of a regional planning commission to address issues such as waterfront development and other issues of regional importance.
- I. Work with the state to develop new tools to assist the city in addressing the disproportionate impacts that the city bears as a result of the location of the institutions.
- J. Encourage the state to fully fund the PILOT program to offset the impacts of institutions.

¹⁰¹ See Strategy PS5(A)

¹⁰² See Strategies PS4(A) and PS5(B)

12. The Waterfront

GOAL 10: Strengthen Providence’s waterfront as the city’s primary economic, cultural and natural resource.

Providence’s connection to the water is one of its most defining features. The Narragansett Bayfront and the riverfronts are central to the city’s economic, social and environmental well-being. Waterfront locations determined economic evolution and

prosperity. Trade in the city’s port and power generated by its rivers and dammed ponds secured Providence a central role in the Industrial Revolution. Today the Narragansett Bayfront and the lands adjacent to rivers and ponds throughout the city offer residents and visitors relief from its dense urban setting -both physically and visually. Walkways and parks provide spaces for recreation, contemplation and gathering. Water views from many different locations throughout the city help define its character. The bay, rivers and ponds are also the city’s primary environmental assets. Planning for the future of these areas is essential to the city’s long-term sustainability and well-being.

This plan prioritizes the creation of a vibrant and accessible waterfront through the creation of public access points to the water. Despite the many ponds, rivers and acres of Bayfront land in the City, there are very few places where the public can launch a canoe or kayak and enjoy access to the water.

This section identifies the objectives and strategies related to all of the city’s waterfront areas and is organized in three sections:

Narragansett Bayfront – This section includes specific strategies for the waterfront along Narragansett Bay that relate to the other chapters of *Providence Tomorrow* such as mobility, housing, the built environment and sustainability.

Rivers – This section covers the Providence River (north of the relocated I-195), the Seekonk River (north of I-195), the Woonasquatucket River, the Moshassuck River, and the West River.

Ponds -This section covers Mashapaug, Canada, Geneva and Whipple’s ponds, as well as the ponds in Roger Williams Park.

12.1 Narragansett Bay

Providence is spectacularly sited at the head of Narragansett Bay. As the capital city of the Ocean State, the Bay plays a central role in the city’s civic and economic well-being. Many of the city’s neighborhoods are located, in part, along the waterfront of the Bay. Residents and visitors are drawn to the water’s edge for recreation and contemplation. The waterfront is also an important economic engine, home to the Port of Providence and water-dependent utility and energy-related uses that serve the state and the region, as well as maritime-related uses such as boat repair facilities and tug boats.

Public access, both physical and visual, to the waterfront must be the centerpiece of future redevelopment efforts along the Narragansett Bayfront. While each area of the waterfront is distinct, a continuous greenway

dotted with civic places such as parks, piers and platforms will be the common thread along the waterfront, and is the long term vision of this Plan.

This chapter guides the variety of uses, functions and activities that are unique to our waterfront, such as water-dependent businesses, waterfront recreation activities, and the public enjoyment of the waterfront's natural areas, open spaces and views of the water. The objectives and strategies for the waterfront are based on the following principles:

- Our waterfront is a finite resource.
- People are instinctively drawn to the water.
- Our waterfront is an invaluable economic and public asset.
- Our city's location on the waterfront is unique.
- Our waterfront is a cultural touchstone and an important natural resource.

12.1.1 Changes, Challenges & Opportunities

Districts

The Narragansett Bayfront has two distinct areas: the area south of the hurricane barrier along the relocated I-195 in Fox Point, and the industrial area along Allens Avenue including the Port of Providence and the Narragansett Bay Commission facility at Fields Point.

Fox Point

The most prominent feature of the Fox Point waterfront area is India Point Park. This 18 acre park provides residents with open spaces, playing fields, and playgrounds at the water's edge, and walking paths along its magnificent 3,600 feet of shoreline. The park hosts waterfront festivals and is home to the Community Boating Center. Gano Street Park is another large public open space in this area that is predominated by playing fields and a dog park. The city plans to construct a new public boat ramp in this area which will further enhance access to the Bay.

The construction of I-195 fifty years ago isolated much of the neighborhood from the waterfront. The highway relocation offers an opportunity to reconnect neighborhood streets to the water's edge along the Providence River and at the northernmost edge of the Bay. In addition, there are several privately owned parcels that could be redeveloped to activate the waterfront with residences and neighborhood-serving commercial, open space and/or recreational uses, while providing a continuous publicly-accessible greenway along the waterfront. It is envisioned that a continuous greenway would connect India Point Park to downtown through the river-walks along the Providence River and Waterplace Park. Given these opportunities for redevelopment, a more detailed study of this area is needed, which may result in changes to the Zoning Ordinance.

Allens Avenue Corridor

The area north of the Thurbers Avenue and south of the relocated I-195 along Allens Avenue is an industrial waterfront. Several water-dependent utility and energy-related businesses that are essential to the regional economy are located here, as well as important marine repair services. On lands no longer needed exclusively for maritime purposes, new maritime mixed-use developments could provide improved and expanded

commercial and recreational maritime facilities, open spaces, and public access combined with revenue-generating, water-oriented activities and attractions to increase the public's enjoyment of the waterfront. Inland areas, on the other side of Allens Avenue, could provide opportunities for commercial uses, such as offices, neighborhood-oriented retail and service businesses, and community and cultural facilities.

The primary objective in this area is to carefully balance future development with the need for water-dependent and maritime related uses and to mitigate potential conflicts among the various uses. It will be critically important in this area to ensure that water dependent and industrial businesses are prioritized, and are able to expand and flourish, while additional uses are introduced.

The industrial area along Allens Avenue is the ideal location for water-dependent heavy industry. Sited on a newly dredged deep water channel with direct on-dock rail access and convenient highway access, ProvPort offloads over 2,000 ships annually, handling over 1 million tons of cargo such as cement, chemicals, machinery, petroleum and scrap metal. The most efficient use of the available land in this area would be water-dependent industrial uses that can best take advantage of its strategic location, and contribute to the economy of the city and region through the provision of jobs, energy, and supplies.

The city-owned parcel at Field's Point, adjacent to the Johnson and Wales Harborside Campus, will be used to expand the operations of the Port of Providence. A portion of the site along the water's edge will be reserved for public access. A possible use in this area could be a public fishing pier, which would be a cultural amenity for city residents to have a safe and carefully-managed place to fish.

There is an opportunity for the City to partner with Johnson and Wales and Save the Bay to develop the southernmost portion of Field's Point as a Bayside Culinary Garden and provide for contiguous public shoreline access and green space from the Johnson and Wales property to the Port of Providence.

Challenges

Natural Hazards and Sea Level Rises

As the waterfront is extremely prone to flood hazards and rising sea levels, the City is strongly committed to developing strategies for its protection. With the predicted rise in winter rainfall, sea level, and weather extremes, severe storms will continue to occur along the coastline. The City must collaborate with statewide agencies to mitigate the waterfront's present vulnerabilities.

12.1.2 Objectives and Strategies

The objectives and strategies below correspond with strategies outlined in *Land Use 2025, Element 121 of the State Land Use Plan; Economic Development Policies and Plan, Element 211 of the State Guide Plan* and *Rhode Island Waterborne Passenger Transportation Plan, Element 651 of the State Guide Plan*.

OBJECTIVE W1: PLANNING FOR NARRAGANSETT BAY

Protect the long-term viability and sustainability of Narragansett Bay as an economic, cultural and natural resource through the development of appropriate plans and regulations.

Strategies:

- A. Develop a harbor management plan to address use of the water sheet, including marina and mooring field locations, no-wake zones and limits on commercial traffic on the Providence River north of the Hurricane Barrier, and on the Seekonk River.
- B. Update regulations to recognize the unique significance of waterfront property by:
 1. Establishing criteria and standards for waterfront developments and development plan review.
 2. Establishing criteria to balance water-dependent and non water-dependent uses along the waterfront, and mitigate the potential conflicts among various uses.
 3. Including strategies to protect restore and enhance the water quality of the Bay, such as urban-scaled Low Impact Development (LID) standards.
 4. Minimizing impacts of flood hazards and rising sea levels by measures such as minimum freeboard elevations.
 5. Implementing the land use and design objectives of the unified waterfront plan for the Bay.
 6. Increasing opportunities for physical and visual public access to the waterfront, both physical and visual, and where possible, create linkages to public parks and recreation facilities.^{103, 104}

OBJECTIVE W2: SUSTAINABILITY AND THE ENVIRONMENT

Maintain and improve the ecological health and functions of Narragansett Bay.

Strategies:

- A. Reduce surface runoff pollution of water by:¹⁰⁵
 1. Promoting reduction/minimal use of impervious surfaces.
 2. Promoting increased use of vegetation and best management practices.
 3. Facilitating and enforcing on-site stormwater management.
- B. Promote clean and sustainable practices by industrial uses.
- C. Promote tree planting and reduction of paved areas at waterfront industrial sites to mitigate the heat island effect.
- D. Promote and coordinate remediation of contaminated waterfront sites.
- E. Establish fishable and swimmable waters as a goal.¹⁰⁶

¹⁰³ See Strategies PS5(A) and PS5(B)

¹⁰⁴ Where not inconsistent with public safety and/or homeland security concerns. Where public access is mentioned in this chapter, this footnote applies.

¹⁰⁵ See Strategy SE2(C)1

OBJECTIVE W2: SUSTAINABILITY AND THE ENVIRONMENT CONT.

Maintain and improve the ecological health and functions of Narragansett Bay.

- F. Promote the mitigation and prevention of bank erosion.
- G. Remove marine debris, including waterborne debris and derelict docks, boats and other large stationary debris to improve navigation and water quality.
- H. Assess infrastructure needs, including pump-out facilities, to accommodate larger and greater number of boats.
- I. Evaluate and raise awareness of the potential impacts of sea level rise and investigate possible methods of lessening or mitigating those impacts.
- J. Protect environmentally sensitive waterfront areas through the development of appropriate waterfront controls.¹⁰⁷

OBJECTIVE W3: BUILT ENVIRONMENT

Develop the full potential of the Narragansett Bay waterfront in a way that showcases design excellence, enhancing the Bay's unique aesthetic qualities and maritime character, and creating visual and physical access to the water.

Strategies:

- A. Prioritize public access to the water, both physical and visual, through regulations and incentives.¹⁰⁸
- B. Create and preserve public view corridors and physical access to the Bay, water-dependent maritime activities, and open space or other public attractions as part of new waterfront development.
- C. Prioritize the development of a continuous greenway along the waterfront through regulations and incentives.
- D. Ensure that buildings address the waterfront and open spaces along the waterfront through design and active ground floor uses.¹⁰⁹
- E. Ensure that buildings are designed to respond to unique waterfront conditions, such as floodplain elevations and the velocity zones of 16 to 20 ft. in this area.
- F. Encourage retention of architecturally or historically significant buildings along the waterfront.

¹⁰⁶ See Strategy SE2(A)1

¹⁰⁷ See Strategy SE2(A)

¹⁰⁸ See Strategy BE1(B)3

¹⁰⁹ See Strategy BE7(G)

OBJECTIVE W4: BUSINESS AND JOBS

Promote the Narragansett Bay waterfront as an economic engine for the City.

Strategies:

- A. Encourage intensive use of the area designated as Waterfront/Port on Map 11.2 'Future Land Use' for water-dependent industrial businesses to take strategic advantage of the 40 feet deep-water channel.
- B. Promote more extensive use of the existing free trade zone in the Port of Providence.
- C. Support development of a mixture of water-dependent, water-related and water-enhanced uses in the areas designated Waterfront/Port on Map 11.2 'Future Land Use'.
- D. Support development of businesses related to water-based tourism such as cruise ship terminals, marinas, and restaurants.
- E. Support uses that provide jobs at a variety of skill levels.¹¹⁰

OBJECTIVE W5: MOBILITY

Provide multiple land and water based transportation options for accessing and enjoying the Providence waterfront.

Strategies:

- A. Improve pedestrian access to the waterfront by:¹¹¹
 1. Developing a continuous greenway along the waterfront for use of pedestrians and bicyclists consistent with the access needs of water-dependent uses.
 2. Developing walkways and corridors perpendicular to the waterfront at regular intervals to connect into the greenway along the shoreline.
 3. Connecting each neighborhood to the waterfront with a network of pedestrian friendly streets.
- B. Improve bicycle access to the waterfront by:¹¹²
 1. Ensuring that adequate bicycle facilities such as racks and lockers are provided at public waterfront spaces.
 2. Requiring bicycle facilities to be provided as part of all development along the waterfront, including waterborne transit facilities.¹¹³
 3. Incorporating due use bicycle and pedestrian facilities into the continuous greenway along the shoreline.
 4. Encouraging the development of bicycle rental facilities at waterfront parks and waterborne transit facilities.
- C. Improve transit access to the waterfront by:
 1. Encouraging RIPTA to provide transit links to public waterfront spaces and waterborne transit facilities.

¹¹⁰ See Strategy BJ1(Q)

¹¹¹ See Strategies M3(F) and PS3(D)

¹¹² See Strategy M4(G)

¹¹³ See Strategy M4(J)

2. Encouraging the development of waterborne transportation such as water taxis.¹¹⁴
 3. Exploring additional transit opportunities along the waterfront, such as street cars.¹¹⁵
 4. Advocating for expanded ferry service to other destinations throughout the state and region.
- D. Facilitate the movement of goods into and out of the port through improve rail service and other means while mitigating impacts of truck traffic on pedestrian and bicycle facilities.
 - E. Consider existing and future public transit, including waterborne transit and inland parking when determining the amount of parking required for uses along the waterfront.

OBJECTIVE W6: ARTS AND CULTURE ALONG NARRAGANSETT BAY

Promote the Narragansett Bay waterfront as a tourist destination and cultural venue.

Strategies:

- A. Advocate the development of new signature cultural attractions along the waterfront.
- B. Support public programming and art installations on the waterfront.
- C. Increase the active use of the waterfront for sightseeing and other tourist activities.
- D. Attract tourists from other areas of the state and users of Narragansett Bay to downtown Providence events and destinations.

OBJECTIVE W7: PEOPLE AND PUBLIC SPACES

Strengthen and expand public open spaces and recreational facilities along the Narragansett Bay waterfront by creating distinctive spaces that add to the city's identity, link districts and promote use of the water.

Strategies:

- A. Provide a continuous system of parks, urban plazas, water-related public recreation, shoreline pedestrian promenades, pedestrian walkways, greenways, and green streets along the entire Narragansett Bay waterfront while avoiding conflict with water-dependent industrial or commercial uses.¹¹⁶
- B. Create small parks or public landings at the terminus of streets that meet the waterfront, particularly streets that pass under the highway from neighborhoods along Allens Avenue.
- C. Provide overlooks and public viewing areas with convenient pedestrian access wherever possible; every attempt should be made to provide such viewing facilities in areas of maritime activities without interfering with the operation of those activities.
- D. Increase the amount of waterfront land dedicated to open space and recreation, with priority given to those areas where waterfront open space does not currently exist.¹¹⁷
- E. Identify appropriate locations for marinas and mooring fields to expand waterside access to the Bay.
- F. Develop recreation facilities that are attractive to residents and visitors of all ages and income groups.
- G. Provide amenities, where desirable and feasible, that enhance public enjoyment of open spaces and

¹¹⁴ See Strategy M2(L)

¹¹⁵ See Strategy M2(K)

¹¹⁶ See Strategy PS3(B)

¹¹⁷ See Strategy PS5(B)

public access areas such as public restrooms, drinking fountains, information kiosks, and dining opportunities.

- H. Require waterfront developments to provide public open space to expand waterfront access to people residing and working in the waterfront area and adjoining neighborhoods.

OBJECTIVE W8: LAND USE

Encourage redevelopment of the Narragansett Bay Waterfront with a balanced mix of water and non-water dependent uses that builds on the value of deep water access and provides additional opportunities for economic development and public access to the water.

Strategies:

- A. Examine strategies for the continued revitalization for the area designated as Waterfront Mixed Use/Neighborhood on Map 11.2 'Future Land Use' with a mixture of neighborhood-serving commercial and open space/recreational uses in a way that connects adjacent neighborhoods to the waterfront by :
 - 1. Providing continuous public access along the shoreline south of the Hurricane Barrier to India Point Park, with connections to the riverwalk system on the northern side of the Hurricane Barrier.
 - 2. Encouraging development of active uses such as shops and restaurants on private properties abutting parks and public open space to enhance the visitor experience.
- B. Examine strategies for the renewal and strengthening of the port as a regional economic engine in the area designated as Waterfront/Port on Map 11.2 'Future Land Use' by:
 - 1. Limiting the area to water-dependent or other related uses, and compatible supporting uses.
 - 2. Working to maximize the use of available land for water-dependent and related uses.
 - 3. Maintaining adequate transportation access for the efficient movement of goods between the Port and the local and regional transportation system.
 - 4. Supporting the development of commercially-oriented water dependent uses such as cruise ship/ferry passenger terminals that require deep water access and related support facilities.

OBJECTIVE W9: WATERFRONT AND THE REGION

Coordinate waterfront planning efforts with neighboring communities, the state and the region.

Strategies:

- A. Participate in the development and periodic revision of the Metro Bay Special Area Management Plan (SAMP) to establish a regional policy and plan for the approximately 24 miles of shoreline bordering the cities of Providence, East Providence, Cranston, and Pawtucket in the context of ongoing economic development and urban growth.¹¹⁸
- B. Coordinate with neighboring communities during development of the Harbor Management Plan to address and mitigate potential conflicts over uses of the water sheet.
- C. Work with neighboring communities to address the regional impacts of development on the Bay.

¹¹⁸ See Strategy SE2(C)1

Work with the State to find ways to share tax revenue from the energy and utility uses that provide vital services to the region, but do not generate significant revenues for the City. Analyze the best locations for these uses in the State.

- D. Work with the state to fully utilize Quonset Point as a multimodal port.
- E. Work with the state to establish criteria and conditions for the disposition of properties currently held for the I-195 relocation project.

12.2 Rivers

In addition to the waterfront at the head of Narragansett Bay, Providence has several significant rivers and countless streams that feed them. The Seekonk River forms the eastern boundary of the city. The Moshassuck River flows south through the North Burial Ground and downtown before meeting the Woonasquatucket. The West River feeds into the Moshassuck from the northwest corner of the city. The Woonasquatucket River flows from the Providence/Johnston line through Manton, Hartford, Silver Lake, Olneyville, and Valley, before meeting the Moshassuck downtown. The Providence River is formed by the confluence of the Woonasquatucket and Moshassuck rivers downtown and flows south to Narragansett Bay.

In 1998, the Woonasquatucket was designated an American Heritage River. This significant designation recognizes the historic importance of the river to its adjacent communities while also recognizing the continued value of the river today. The Woonasquatucket flows through six communities en route to Providence and becomes tidal in the lower reaches of the river, below Rising Sun Dam, near Donigian Park in Olneyville.

The Moshassuck River is urbanized throughout its course in Providence. This channelization has limited the river's value as a natural resource for the city. However, in recognition of the Moshassuck's historic role as part of the Blackstone Canal, it is included in the Blackstone Valley National Heritage Corridor. The West River which flows into the Moshassuck is also highly urbanized along parts of its course. The West River flows on the surface more than the Moshassuck providing opportunities to restore its value as a recreational resource as well as wildlife habitat.

The rivers of Providence have always played a major role in the development of the city. The city's many mills used the rivers, particularly the Woonasquatucket, to power the machines of the industrial revolution. The rivers were neglected as industry declined and mills closed. Today, the proximity of the river to these same mills is helping fuel the redevelopment of many mill buildings.

12.2.1 Changes, Challenges & Opportunities

Historically, the rivers in Providence have not been maintained with regular dredging and bank maintenance. Siltation in the rivers is caused by stormwater runoff from increasing development throughout the watershed, which increases the peak flow of the rivers in a rain event, causing flooding to occur much faster and at a greater intensity than it did historically. Because the watersheds of the rivers in Providence flow through several other communities, the management of stormwater in these communities contributes to flooding and siltation in Providence. This is a concern to several areas along the Woonasquatucket, particularly Waterplace Park. Without dredging, Waterplace Park is in danger of silting over, which would significantly impact recreation (i.e. kayaking, canoeing) and cultural events (i.e. WaterFire, concerts in the park).

Also, while public access to the rivers has been improved downtown, outside of downtown, the Woonasquatucket, Moshassuck and West rivers have limited public access points due to channelization and historic development patterns along the rivers. To improve public access, during the 1990's the downtown sections of the Woonasquatucket and Moshassuck rivers were daylighted, relocated and restored as assets to the city. As part of this river relocation and restoration project, over 1.5 miles of riverwalk were constructed along the Woonasquatucket, Moshassuck and Providence rivers.

The development of mills along both the Woonasquatucket and Moshassuck resulted in contaminated land adjacent to the rivers and, in some cases, contamination of the rivers' sediments. This contamination can restrict activities that take place along the rivers. Many of the historic mills along the Woonasquatucket have been or are in the midst of being redeveloped. The historic built environment along the rivers limits access in many places, with buildings right up to the edge of the riverbank. This creates a challenge in reconnecting the neighborhoods to the rivers, as there are limited public access points, several of which are on private property.

There have been several initiatives to improve the water quality of the rivers and the riparian environment. Due to the channelization of the rivers, improvement can be difficult as in many cases the riparian buffer no longer exists. CRMC, RIDEM, the Woonasquatucket River Watershed Council (WRWC), private developers, and the City are working together to improve the buffer conditions along the rivers. In addition, the City is working with the same agencies and private developers to improve public access to the rivers through the creation of new public access sites.

12.2.2 Objectives and Strategies

The objectives and strategies below correspond with strategies outlined in *Rivers Policy and Classification Plan, Element 162 of the State Guide Plan*.

OBJECTIVE W10: RIVERS

Improve the water quality and riparian buffers along the city's rivers while improving access to the riverfront for all city residents.

Strategies:

- A. Work with upstream communities to improve the control and treatment of stormwater runoff to minimize downstream flooding.¹¹⁹
- B. Improve water quality so that all Providence rivers are swimmable and fishable.
- C. Create new neighborhood public access points for the rivers.
- D. Dredge the Woonasquatucket River to preserve Waterplace Park.
- E. Ensure that new development along riverfronts provides public access to the rivers.
- F. Investigate the feasibility of daylighting buried rivers and streams, including the Moshassuck River.
- G. Encourage LID techniques for riverfront development and redevelopment projects.
- H. Promote bank maintenance to limit erosion.
- I. Work with CRMC on implementing the Urban Coastal Greenway (UCG) initiative on subject rivers.¹²⁰
- J. Implement a river maintenance program with appropriate state and federal agencies.

¹¹⁹ See Strategy SE2(C)1

¹²⁰ See Strategy SE2(C)7

12.3 Ponds

While not as prominent as Narragansett Bay or the rivers, several significant ponds are located throughout the city. Canada Pond is located in the northwest corner of the city and, along with Geneva Pond and Whipple Pond, forms the headwaters of the West River. Mashapaug Pond is located in the southwest corner of the city and is connected hydrologically to the several ponds in Roger Williams Park.

All of the ponds in Providence are man-made. The ponds in Roger Williams Park were part of the original H.W. Cleveland landscape design. Mashapaug Pond formerly provided ice for the city, while Canada, Geneva and Whipple's ponds were formed by dams to provide power for adjacent mill buildings. Today, the ponds in Providence serve as wildlife habitat and as locations for passive and active recreation for the city's residents.

12.3.1 Changes, Challenges & Opportunities

The ponds of Providence are concentrated in the North End, the Reservoir neighborhood and Roger Williams Park. These ponds provide recreation opportunities, including fishing and boating, for many of Providence's residents. Due to surrounding development, however, the water quality in many of the ponds is impaired, reducing both their value as habitat for wildlife and their desirability as recreation areas.

12.3.2 Objectives and Strategies

OBJECTIVE W11: PONDS

Improve the water quality of ponds throughout the city to improve their value as recreation areas and wildlife habitat.

Strategies:

- A. Implement the City stormwater runoff ordinance to reduce untreated runoff in the city's ponds.
- B. Support the Park Department's efforts to restore the shorelines and improve the water quality of the ponds in Roger Williams Park in conjunction with the Narragansett Bay Estuary Program.
- C. Promote the city's ponds as active and passive recreation assets for city residents.

13. Implementing the Plan

GOAL 13: Ensure effective implementation of Providence Tomorrow as the guiding document for the City.

Providence Tomorrow is a living document. It establishes a long-term vision of sustainability for the city, and a framework for achieving that vision. However, we cannot predict the future.

The city is constantly influenced by factors beyond our control, be it the worldwide economic crisis and the collapse of the housing market. Changes closer to home, such as the increase in residents living below the poverty level, the foreclosure crisis and high levels of unemployment, have had significant impacts on the physical and social fabric of the city since *Providence Tomorrow: The Interim Comprehensive Plan* was adopted. For our vision of a sustainable Providence to be realized, *Providence Tomorrow* must be able to adapt and respond to those changes.

13.1 Guiding Principles

The vision outlined in *Providence Tomorrow* is the result of collaboration between residents, business owners and city government. It is as much about building good relationships as it is about performing tasks, completing projects or showing results, for the City alone cannot hope to achieve the objectives outlined in this Plan. In many ways, the responsibility to achieve this Plan rests with the people of Providence, for it is their plan. The people of Providence must know this Plan and work with the City to ensure that the provisions of this Plan are enforced; for it is only through continued collaboration that effective implementation of this Plan will occur.

The implementation plan contained in this chapter is based on six guiding principles that should characterize all implementation efforts:

- *Leadership* – The City must lead by example to successfully implement the goals and objectives established in *Providence Tomorrow*. We must live by a credo of “do as we do,” not just “do as we say.”
- *Comprehensive Approach* – Effective implementation of this plan requires a multi-disciplinary approach. This plan is designed to build more connections within and beyond City government. By working across disciplines, City departments can help to ensure that actions to implement *Providence Tomorrow* consider partnership opportunities and long-term impacts.
- *Partnership* – *Providence Tomorrow* encourages partnerships to innovatively and creatively address issues and solve problems. It recognizes that many of the problems facing the city are complex and must be addressed through the cooperative efforts of more than one department or governmental entity. In this Plan, “partnership” applies to arrangements involving the City of Providence, its departments, state agencies, surrounding communities, other public and/or private partners with whom it shares common objectives or interests, and neighborhoods and businesses within the city.
- *Leveraging of Resources* – Every goal in *Providence Tomorrow* requires an investment of resources from the public, private, and non-profit sectors. In its approach to civic investment, the City should be creative and entrepreneurial in leveraging its resources by building partnerships with neighborhood organizations, businesses, non-profit institutions, other metropolitan jurisdictions, regional and state sources, and federal agencies.
- *Communication* – The City values two-way communication with all of its constituents and will strive to broaden channels of communication among individuals, city departments, private sector interests and others with regard to the implementation of *Providence Tomorrow*. This may include the use of electronic communication accessible to all citizens.

- *Fairness and Equality* – Every resident and business owner deserves the benefits of the actions taken to fulfill the vision of *Providence Tomorrow*. Fairness and equal treatment are standards that apply to every aspect of its implementation and are essential for it to succeed.

13.2 Objectives and Strategies

OBJECTIVE IMP1: TRACKING PROGRESS

Annually track and report progress in achieving the goals and objectives of *Providence Tomorrow*.

Strategies:

- A. Explore different techniques to assess the effectiveness of implementation efforts.
- B. Require city departments and agencies to report their accomplishments related to the implementation of *Providence Tomorrow*.
- C. Complete an annual review assessing the City’s progress in implementing *Providence Tomorrow*.

OBJECTIVE IMP2: PLAN UPDATES

Regularly update *Providence Tomorrow*.

Strategies:

- A. Establish a regular schedule for accepting proposed Plan amendments to improve community engagement in the update process.
- B. Use the best available tools to disseminate and solicit community feedback on propose Plan amendments.
- C. Review *Providence Tomorrow* on a regular basis for proposed updates and amendments as needed.
- D. Amend *Providence Tomorrow* to reflect significant changes in conditions and policy direction based on the findings of the Annual Review.
- E. Ensure that *Providence Tomorrow* reflects all changes immediately after adoption by distributing it primarily as an electronic document.

OBJECTIVE IMP3: PLAN ENFORCEMENT

Ensure the effectiveness of *Providence Tomorrow* through enforcement.

Strategies:

- A. Ensure that all land use decisions are in conformance with *Providence Tomorrow*.¹²¹
- B. Ensure that the following actions are in conformance with *Providence Tomorrow*:¹²²
 1. Amendments to the Zoning Ordinance.
 2. Funding of capital improvements.
 3. Approval of development proposals, whether public or private.

¹²¹ R.I.G.L. 45-22.2-13(C)

¹²² Providence Home Rule Charter, Section 10.14

- C. Maintain existing uses, density and character in Areas of Change designated on Map 11.1 ‘Areas of Stability and Change’ until the relevant neighborhood or specific plans and corresponding amendments to the Comprehensive Plan and Zoning Ordinance have been adopted.
- D. Evaluate the following during the review of land development projects, subdivisions, street abandonments, easements, institutional master plans, certificates of appropriateness, certificates of design approval, zoning variances, special use permits, licenses and amendments to the Zoning Ordinance.
 - 1. Consistency with the principles and design vision of adopted specific plans in Areas of Change as designated on Map 11.1 ‘Areas of Stability and Change’.
 - 2. Compatibility with surrounding areas in terms of mass, scale, design, use and density in Areas of Stability as designated on Map 11.1 ‘Areas of Stability and Change’.
 - 3. Consistency with the Zoning Ordinance.
 - 4. Creation of jobs and affordable housing.
 - 5. Visual and functional impacts on neighboring uses.
 - 6. Impact on the provision of human services.
 - 7. Impact on pedestrian, bicycle, transit and vehicular movement.
 - 8. Effect on view corridors.
 - 9. Impact on existing parks and greenways.
 - 10. Displacement of jobs and affordable housing units.
- E. Educate city departments and staff as needed on the goals and objectives of *Providence Tomorrow*.
- F. Evaluate existing department mechanisms and develop new tools to improve efficiency and effectiveness.

OBJECTIVE IMP4: COMMUNITY ENGAGEMENT

Engage residents, organizations and businesses in collaborative efforts to share information, solve problems and plan for the future of their city and neighborhood.

Strategies: ¹²³

- A. Recognize the creation and implementation of neighborhood and specific plans as critical tool for refining and turning the vision for *Providence Tomorrow* into reality.
- B. Define the role that adopted plans play in the City’s decision-making and resource allocation processes.
- C. Develop plans for all areas of the city that address neighborhood character, needs, values, visions, and goals.
- D. For each planning process, develop and implement a comprehensive outreach and communications plan to encourage participation in the process by residents and business owners.
- E. Continue neighborhood communication and engagement after neighborhood plans have been adopted to ensure successful implementation of plans.
- F. Develop and implement a comprehensive communications plan that outlines the roles and responsibilities of city departments, neighborhood organizations, residents, community institutions and businesses potentially affected by proposed actions. The plan should:
 - Require timely communications among City agencies and between the City and other parties;
 - Provide guidelines for discussion and interactions among interested parties;

¹²³ See Strategy W1(A)

- Require communications processes to be inclusive;
- Identify City resources (services, programs and funding) for the project; and
- Evaluate the qualitative and quantitative outcomes of the process.

OBJECTIVE IMP5: IMPLEMENTATION TOOLS

Leverage the variety of City, State and Federal tools and funds to strategically implement the goals, objectives and strategies of *Providence Tomorrow*.

Strategies:

A. Explore and fully take advantage of the variety of City, State and Federal tools available to the City and partners, such as:

- Bonding
- Tax increment financing
- Tax stabilization
- Distribution of loans and grants
- Property acquisition
- Property disposition
- Enterprise Zone tax credits
- Remediation of contaminated lands

B. Strategically target City resources, loans and grants to improve particular areas in the City to maximize the impact and effectiveness of city resources.

13.3 The Annual Report: Tracking, Recognizing and Reporting Implementation Progress

The City Plan Commission will annually prepare and release a review to the Mayor and City Council that documents the progress of the City in achieving the goals and objectives established in Providence Tomorrow. The Annual Review will be based on the information contained in departmental annual reports and will be released during the second quarter (October-December) of each fiscal year. The Annual Review should also include a summary of amendments to the Plan that have been adopted by the City Plan Commission and City Council.

13.4 Regulatory Framework: Updating the Zoning Ordinance

The Zoning Ordinance is one of the primary implementation tools for any Comprehensive Plan. The regulations contained within the Ordinance must reflect the goals and objectives of the Plan, and are the principal regulatory means of achieving the land use pattern, densities, urban character and other features envisioned in this Plan. Following the adoption of this Plan, there will be significant amendments to the Zoning Ordinance. Camiros, a planning and zoning firm located in Chicago, Illinois, has been hired as the consultant, together with two sub-consultants, (add)ventures and RVA, to update and improve the City's existing Zoning Ordinance. This process will occur between July 2013 and September 2014.

The completion and adoption of a new Zoning Ordinance over the next few years does not mean that our work is done. This plan, and all regulations that grow from it, like zoning, are living documents. The City will regularly review the zoning regulations for their effectiveness in achieving the vision of the Plan.

Furthermore, the successful implementation of *Providence Tomorrow* relies as much on enforcement as it does on regulation. The day-to-day enforcement of the City’s regulations is a challenge, but it is critical to ensuring that the vision is fulfilled. City enforcement staff will be included in the process of crafting the new regulations to ensure their awareness of the importance of the new zoning and its connection to the comprehensive plan.

13.5 Availability of the Plan

The Department of Planning and Development is responsible for preparing the Plan and incorporating future amendments to the Plan. To ensure that the Plan is readily available to the public, it exists primarily in an electronic format. This format will allow for the timely update and republication of the Plan after amendments are adopted by the City Council. Additionally, the electronic format is a key element of public involvement, as residents can review proposed changes and provide comments over the internet that can be viewed by any interested party. There will be links to the Plan on the Planning Department’s website (www.providenceri.gov/planning).

Providence Tomorrow is also available for purchase in hard copy and CD-ROM at the Providence Department of Planning and Development.

13.6 Five-Year Action Plan

Table 13.1 Five-Year Action Plan 2012-2016

Implementation Actions	Responsibility	Completion Date	Recurrence
I. Implementation			
a. Create an interdepartmental implementation team.	Mayor	Ongoing	As Needed
b. Conduct an Annual Review documenting progress in achieving the goals and objectives of the Plan to be submitted to the City Council.	Planning and Development/City Plan Commission/City Council	2 nd quarter of each fiscal year.	Annually
c. Develop a phased implementation strategy for tracking and reporting progress.	Planning and Development	6-2012	As Needed
d. Prepare and adopt a Preservation Strategy with focus on Downtown Zoning District.	Planning and Development/CPC	2014	No
e. Prepare and adopt a parking strategy with a focus on the Downtown Zoning District.	Planning and Development/CPC/Other Agencies as relevant	2014	No
2. Plan Updates			
a. Prepare and adopt amendments to <i>Providence Tomorrow</i> based on the annual review of its goals, objectives and strategies.	Planning and Development/City Plan Commission	Ongoing	Annually

b. Prepare a Comprehensive Plan Implementation Update in 2016 and a Comprehensive Plan update in 10 years in accordance with RIGL.	Planning and Development/City Plan Commission/City Council	2016 and 2022	No
3. Regulatory Framework			
a. Prepare and adopt Zoning Ordinance amendments to ensure conformance with this Plan.	City Plan Commission/City Council	2012-2014	No
4. Distributing the Plan and Annual Review			
a. Make Plan and Annual Review available electronically as well as selling paper and CD-ROM copies at the Planning Department.	Planning and Development	As needed	As Needed

13.7 Implementation Responsibilities by Department

The following table identifies the key agencies that are integral to the successful implementation of *Providence Tomorrow*.

Table 13.2 Implementation Responsibilities by Department

Agency	Type	Elements ¹²⁴	Responsible For:
Office of the Mayor	Administrative	All	Implementing the Plan by setting priorities, directing City departments and agencies, and preparing annual budgets that allocate needed resources.
City Council	Legislative	All	Adopting the Plan, ensuring that all City ordinances are in conformance with the Plan and allocating resources through the annual budget and Capital Improvement Program approval process.
City Plan Commission (CPC)	Board/Commission	All	Ensuring that subdivision, land development projects and institutional master plans conform to the Plan, reviewing and approving the Capital Improvement Element; and providing recommendations to the City Council regarding the conformance of proposed Zoning Ordinance amendments and right-of-way abandonments with the Plan.

¹²⁴ The elements listed in this table represent primary responsibilities. Coordination between agencies will be required on all elements.

Conservation Commission	Board/Commission	Sustainability and the Environment	Promoting sustainability and conservation throughout the city.
Downcity Design Review Committee (DRC)	Board/Commission	Built Environment, Land use	Ensuring that all development within the Downcity Design Review Overlay district conforms to the Plan.
Historic District Commission (HDC)	Board/Commission	Built Environment	Preserving historic resources through the administration of Local Historic District regulations on design and demolition.
Water Supply Board (WSB)	Board/Commission	Sustainability and the Environment, Land Use, Community Service, Business and Jobs	Providing an adequate, safe water supply to Providence residents and businesses.
Zoning Board of Review (ZBR)	Board/Commission	All	Ensuring that all zoning variances and special use permits conform to the Plan.
Arts, Culture and Tourism (ACT)	Department	Arts and Culture, Business and Jobs	Promoting the arts both externally and internally through programming and partnership with local and regional arts organizations.
Finance	Department	All	Ensuring that the City has the financial resources to implement the Plan and allocating required resources through the Capital Improvement Program.
Agency	Type	Elements	Responsible For:
Inspection and Standards (DIS) and Fire Inspection Bureau	Department	Land Use, Built Environment, Sustainability and the Environment, Housing	Ensuring that all development is consistent with the Plan, the Zoning Ordinance and building and life safety codes through permitting and inspections.
Parks (Board of Parks Commissioners)	Department	People and Public Spaces, Built Environment, Sustainability and the Environment	Maintaining and improving all green and/or open spaces such as parks, cemeteries, recreational areas and the urban forest.
Planning and Development	Department	All	Ensuring that the physical growth and development of the City conforms to the Plan by reviewing development proposals for consistency with the Plan, preparing the Capital Improvement Program, administering housing programs and preparing amendments to the Comprehensive Plan and

			Zoning Ordinance as needed.
Public Property	Department	Sustainability and the Environment, Built Environment, People and Public Spaces, Community Services and Facilities	Planning, designing, constructing and maintaining city property under its jurisdiction, including new construction and alterations and repairs.
Public Safety (Police and Fire)	Department	Community Services	Ensuring the safety of all city residents and businesses.
Public Works (DPW)	Department	Sustainability and the Environment, Built Environment, Land Use, Community Service and Facilities, Transportation	Constructing and maintaining local roads, sidewalks and city-owned sewer lines; ensuring the orderly flow of traffic on city streets and collecting/disposing solid waste and recyclables.
Recreation	Department	People and Public Spaces, Community Services and Facilities	Planning and administering recreation programs for all age groups, and for such other programs and services as may be assigned.
Agency	Type	Elements	Responsible For:
Schools	Department	Community Services and Facilities, Arts and Culture	Educating and preparing all children to become responsible, productive members of society.
Providence Off-Street Parking Authority	Quasi-City Agency	Built Environment, Mobility	Funding and constructing parking facilities.
Providence Public Building Authority (PPBA)	Quasi-City Agency	Sustainability and the Environment, Built Environment, People and Public Spaces, Community Services and Facilities	Funding and constructing public buildings.
Providence Agency (PRA)	Quasi-City Agency	All	Ensuring that redevelopment of blighted areas is consistent with the Plan.
Providence Economic	Non-Profit	Business and Jobs,	Providing financial and technical assistance to

Development Partnership (PEDP)	Corporation	Built Environment, Arts and Culture	businesses and organizations to help grow the Providence economy.
Narragansett Bay Commission (NBC)	Quasi-State Agency	Community Services, Land Use, Sustainability and the Environment	Operating the city wastewater system and completing the CSO Abatement project in coordination with DPW.
Providence Public Library	Non-Profit Corporation	Community Services	Providing library access to all providence residents who desire their services.
Providence Community Library	Non-Profit Corporation	Community Services	Providing library access to all providence residents who desire their services.

In addition to the agencies listed above, the following state and federal agencies are essential to the successful implementation of *Providence Tomorrow*:

- Rhode Island Division of Planning
- Rhode Island Economic Development Corporation
- Rhode Island Department of Transportation
- Rhode Island Department of Environmental Management
- Coastal Resources Management Council
- U.S. Army Corps of Engineers

13.8 Implementation Plan Public Actions

A detailed outline of strategies requiring public action and potential amendment to the ordinance can be found in Table D.2 Implementation Plan Public Actions.

Table 13.3 Implementation Plan Public Actions

	SE1 Climate Protection and Air Quality	Schedule of Public Actions
A	Conduct a baseline study of greenhouse gas emissions and identify strategies to reduce emissions in accordance with City support of ICLEI (International Council for Local Environmental Initiatives).	The Office of Sustainability is developing a Sustainability Action Plan which addresses these points and sets targets and metrics in these areas.
B	Establish a reduction target for global warming pollutants in accordance with ICLEI.	The Office of Sustainability is developing a Sustainability Action Plan which addresses these points and sets targets and metrics in these areas.
C	Develop a local Climate Action Plan in accordance with ICLEI.	The Office of Sustainability is developing a Sustainability Action Plan which addresses these points and sets targets and metrics in these areas.

G	Review and amend City policies and regulations to promote and increase green space, landscaping, trees, and natural vegetative areas, and reduce paved areas to mitigate the heat island effect.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
H	Adopt measures for climate protection in the following areas: forestry, land use management, trip reduction and transit development, traffic signal synchronization, development and use of "green" energy, energy efficiency, green building, waste reduction and recycling, and education.	The Office of Sustainability is developing a Sustainability Action Plan which addresses these points and sets targets and metrics in these areas.
K	Reduce the amount of methane generated as a result of food waste being delivered to the Central Landfill by developing a comprehensive and sustainable composting system.	The City has initiated a composting program

	SE2 Nature and the City	Schedule of Public Actions
A	Restore and protect environmentally significant and sensitive areas, including wetlands and conservation areas by:	
3	Developing incentives for buffer restoration on existing properties.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
B	Maintain and expand the urban forest and achieve 25% tree canopy citywide by 2020 by:	
1	Preparing and adopting a tree management plan that addresses tree planting, tree health and maintenance.	The Parks Department is working on a tree management plan that schedules tree maintenance. Currently seeking additional funding for maintenance.
4	Producing and publishing design standards for tree planting and tree protection for use in both public and private street tree planting efforts.	The Parks Department is working on a tree standards manual.
9	Protecting and maintaining heritage trees and other large trees in the city that are historically or culturally significant and/or valued for the canopy coverage they provide.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
12	Planting 40,000 trees citywide by 2020 through a public-private planting campaign and establish and fund an annual Parks Department tree-planting goal.	The Parks and Recreation Department, Forestry Division is working with additional funds to reach this goal, however, additional funding will be necessary. The Dept. is currently seeking additional funding sources and partners.
13	Establish a process for applying carbon credits for tree-planting based on methodology that have been developed but not yet applied by any municipality.	Under evaluation.

C	Improve the water quality and natural functions of the harbor, rivers, ponds, streams, and other water bodies, and protect the natural integrity of adjacent land areas by:	
1	Protecting shore areas, waterways and water bodies from the harmful effects of development through effective stormwater management measures and implementation of an urban greenways policy.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
2	Encouraging the establishment of connected greenways along the edge of all water bodies. (See Map 11.2 “Future Land Use”).	The Planning Department is working to implement this policy as properties are developed in these areas. For example, in the I-195 District the Department is working with the I-195 Commission to plan for a connected greenway through the District.
3	Improving storm water management and increasing the amount of permeable surface citywide by reviewing, amending and enforcing city policies and regulations, in accordance with the Rhode Island Stormwater Design and Installation Standards Manual and encouraging the use of vegetated areas, natural drainage patterns, on-site infiltration, and permeable paving materials when practicable.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
5	Developing and maintaining an approved harbor management plan in accordance with CRMC guidelines to address the use of the water sheet, particularly no-wake zones and limits on commercial traffic on the Providence River north of the Hurricane Barrier and on the Seekonk River, and potential mooring fields for small recreational vessels.	The Planning Department is working with CRMC on a draft plan and will have a final approved plan in 2014.
9	Updating floodplain management activities to exceed minimum thresholds established by the National Flood Insurance Program (NFIP), and consider applying for certification under the Community Rating System (CRS) to reduce flood insurance premiums. In addition, plans for mitigation and recovery must be followed, under the direction of the Providence Emergency Management Agency (PEMA). The City must ensure stringent enforcement of building codes, flood-proofing requirements and other safety measures; establish short-and long-term goals, objectives and strategies to reduce vulnerability to storm hazards; conduct community outreach efforts; and oversee other components of the mitigation and recovery plans.	PEMA will evaluate the existing enforcement system for building codes and flood-proofing requirements and will decide whether or not to pursue certification under the CRS in 2014.
11	Evaluating and planning for flood mitigation and stormwater management in areas most heavily and repetitively affected by flooding, such as along the Woonasquatucket River.	The Planning and Development Department, together with PEMA. Ongoing.
E	Establish guidelines and amend regulations as necessary to promote appropriately-scaled, hand-tended agriculture, including community gardens as a temporary or long-term use of surplus or temporarily vacant City property and RIDOT property, providing neighborhood access to healthy, affordable foodstuffs and promoting stewardship and remediation of land.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.

	SE3 Resource Conservation	Schedule of Public Actions
A	Conserve energy, reduce the consumption of fossil fuels and develop and implement new energy sources by:	
1	Purchasing 20 percent of City government energy from clean, renewable sources in the short term.	Ongoing effort lead by the Office of Sustainability
5	Adopting policies that reduce the City's use of materials, increase the percentage of materials recycled, promote the purchase of recycled materials, and encourage source reduction in packaging.	Ongoing effort lead by the Office of Sustainability
7	Making green purchasing a City policy. This includes procurement of cleaning supplies, paper and services. The City has already converted to use of 100% post-consumer material for bathroom tissue and paper towels. The policy also calls for use of recycled paper in office supplies and other paper products. When the Custodian, Maintenance and Grounds contracts are renewed, green products will be mandated as well.	Ongoing effort lead by the Office of Sustainability
9	Identifying opportunities for local renewable energy sources, using a strict financial returns test, including mapping wind and solar locations and assessing solar heating/hot water and electricity opportunities at public schools.	Ongoing effort lead by the Office of Sustainability
14	Developing a consortium to continue to develop renewable energy.	Ongoing effort lead by the Office of Sustainability
C	Promote on-site renewable energy and energy conservation measures for city-owned property by:	
1	Implementing local wind power initiative by taking advantage of city-owned parcels that can support wind turbines to advance the City's green agenda while providing a sustainable revenue stream.	Ongoing effort lead by the Office of Sustainability and Public Properties
4	Expanding the Temperature Adjustment Program, currently operating in City Hall and the Public Safety Complex, to other city-owned properties	Ongoing effort led by the Office of Sustainability
5	Continuing to install solar powered lighting systems in public parks	Ongoing effort led by the Parks Department.
D	Protect the City water supply and promote its importance by:	
2	Updating landscape regulations to reduce water use.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
3	Achieving steady per capita water-use reduction over the next 20 years.	Ongoing effort led by the PWSB.
E	Reduce the amount of solid waste generated by residents, businesses and institutions that is delivered to the Central Landfill by:	

2	Maintaining and supporting existing and proposed recycling and composting programs, supporting the establishment of a sustainable regional or municipal composting facility, and amending regulations as necessary, to support composting programs.	Ongoing effort lead by the Office of Sustainability
5	Evaluating the benefits of transitioning to unit-based pricing (UBP), charging residents for trash by the unit. This type of system generally offers free recycling, increasing recycling rates and reducing the amount of waste generated while reducing overall costs to taxpayers	Ongoing effort lead by the Office of Sustainability
6	Continuing to strengthen enforcement of the recycling ordinance, issuing warnings and citations to residents who fail to comply.	Ongoing effort lead by the Office of Sustainability
8	Requiring recycling bins and raising awareness of the importance of recycling at all City-sponsored events.	Ongoing effort lead by the Office of Sustainability

	BE1 Design Excellence	Schedule of Public Actions
A	Provide a model of excellence in urban design by incorporating design standards and review for City projects and for projects receiving City funding.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
B	Develop and promote design standards for:	
1	All new construction projects, both commercial and residential.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
2	Design that enhances the quality and character of the city, including the preservation of significant historic structures and features.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
C	Create a city-sponsored awards program that recognizes projects that exemplify design excellence. The awards program should coincide with National Preservation Month each May.	The Planning and Development Department is working to develop the program.

G	Address the negative effects of impermeable surfaces on stormwater runoff, educating property owners and residents on the importance of landscaping, trees and tree care and to mitigate runoff pollution. Incentives must be developed for green roofs to minimize runoff pollution while mitigating the urban heat island effect.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
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	BE2 New Development to Complement Traditional Character	Schedule of Public Actions
C	Identify community design standards and development issues through the neighborhood planning process and target specific concerns with appropriate controls and incentives.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
D	Ensure that regulations reinforce high quality urban design and, in residential neighborhoods, ensure that zoning regulations reinforce traditional neighborhood design.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.

	BE 3 Compact Urban Development	Schedule of Public Actions
A	Identify and evaluate those areas of the city where increased building height and density can be accommodated, allowing for compatible transition to surrounding areas.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
B	Develop regulations and incentives that encourage high-quality, mixed-use development at heights and densities that support the city's diverse housing needs and transit alternatives.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
C	Target regulations and incentives to direct investment along commercial corridors and create mixed-use centers to promote public transit. Identify nodes of higher density along these corridors.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
G	Promote transit-oriented development, including use of incentives to build close to public transit and/or minimize parking spaces. Direct investment along commercial corridors and develop mixed-use centers to promote public transit through regulations and incentives, and tie parking requirements to the proximity to transit facilities.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.

	BE4 Design of the Public Realm	Schedule of Public Actions
B	Establish design and maintenance standards for major corridors that incorporate preservation, high-quality design and neighborhood character.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
D	Develop streetscape standards that enhance the pedestrian experience and incorporate high-quality design elements that are affordable and easy to maintain.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
E	Buildings that are adjacent to or across the street from parks and open spaces shall be oriented in a way to respect the public realm. Utility, service areas and surface parking areas shall not abut or face the park or open space.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
F	Identify key neighborhood connections through the neighborhood planning process and prioritize those streets for street trees and other streetscape improvements.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.

	BE 5 Preservation Planning	Schedule of Public Actions
B	Develop additional incentives and tools for the rehabilitation of structures of architectural or historic merit and for property owners to renovate and preserve their historic properties.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
C	Require institutions to identify historic buildings and plan for their future use.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
F	Amend land use regulations, as needed, to support the reuse of properties listed in the Industrial and Commercial Buildings District.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
G	Identify stronger enforcement options to discourage the alteration and demolition of historic resources without approval.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.

	BE7 Neighborhood Character and Design	Schedule of Public Actions
C	Allow for mixed-use, pedestrian oriented developments along commercial corridors at a greater height and density than in the residential areas.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
D	Ensure that new developments improve pedestrian movement, provide pedestrian amenities and preserve view corridors.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
E	Update regulations to:	
1	Create design and development standards to ensure the compatibility of new, infill and rehabilitated uses, particularly in residential areas of neighborhoods.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
2	Put significant emphasis on the form as well as the use of buildings.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
G	Require commercial and mixed-use buildings to be built to the street edge and at a human scale. Large-scale projects must incorporate human-scale elements on the lower floors.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
J	Amend regulations to reduce the number of required parking spaces and, in neighborhood commercial areas, prohibit parking between the street and buildings.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
L	Create standards for interim uses of temporarily vacant lots.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.

	BJ1 Business Retention and Expansion	Schedule of Public Actions
E	Work, through legislative efforts and the State Enterprise Zone Council process, to expand State-designated enterprise zones to all eligible areas of Providence.	Ongoing effort of the Department of Economic Development.
O	Identify incentives for businesses to locate downtown to restore downtown Providence as the business center of the state.	Ongoing effort of the Department of Economic Development.

	BJ2 Workforce Development and Support	Schedule of Public Actions
G	Support and develop outreach campaigns that provide information on GED, and vocational and job opportunities.	Ongoing effort of the Department of Economic Development.
H	Use the Green and Healthy Homes Initiative to train minority contractors to perform weatherization, healthy homes, and/or lead hazard control work, improving their ability to compete for National Grid, City, State, and private contracts.	Work currently underway through the City's First Source program.
I	Create additional opportunities for the hiring of graduates from the Providence Green Pathways weatherization training initiative.	Work currently underway through the City's First Source program.

	BJ4 Business Environment	Schedule of Public Actions
A	Develop a state-of-the-art, streamlined, one-stop, integrated predictable system for building, fire and development permits that allow permits to be issued in a timely manner.	Work currently underway through the City's Department of Inspection and Standards.
G	Evaluate all existing and proposed city ordinances for their impact on the city's economic development competitive advantage.	Work currently underway through the Planning Department as part of the rehaul of the Providence Zoning Ordinance.

	BJ5 Neighborhood Economic Development	Schedule of Public Actions
A	Support small businesses in neighborhoods by using the following key strategies:	
3	Using a variety of public and private funding sources, strengthen financial and technical assistance programs that support small business and neighborhood revitalization, such as Neighborhood Markets and the Providence Economic Development Partnership's (PEDP) technical assistance, revolving loan fund, micro-loan, storefront improvement grant, and arts and culture revolving loan fund programs.	Ongoing effort of the Department of Economic Development.
6	Support targeted efforts to encourage business development in the city's immigrant communities.	Ongoing effort of the Department of Economic Development.

	H1 Improve Existing Housing	Schedule of Public Actions
D	Use techniques such as land banking and acquisition to revitalize residential structures and blighted areas.	Ongoing work of the Community Development Division.
F	Enhance and expand potential for housing improvement funds available to owner occupants.	Ongoing work of the Community Development Division.

G	Use the Green and Healthy Homes initiative to weatherize and provide other health and safety upgrades to approximately 125 homes within the Olneyville and Valley neighborhoods.	Completed.
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	H3 Housing for All	Schedule of Public Actions
E	Develop a process to streamline the permitting process for developers of affordable and workforce housing.	Ongoing work of the Department of Inspections and Standards.
G	Develop programs and regulations to increase the development of affordable housing throughout the city, particularly in neighborhoods identified as underserved.	Ongoing work of the Community Development Division, with the Planning Department.

	H5 Housing Design	Schedule of Public Actions
B	Create design standards for quality residential construction.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
C	Create regulations for quality residential site design.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
D	Develop a pattern book of residential designs based on Providence's vernacular architecture.	Completed through the neighborhood plans, residential typologies.

	H6 Housing and Transit	Schedule of Public Actions
A	Amend the zoning to create nodes to focus medium density and high-density development, including institutions, in transit oriented developments along high use transit lines.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
C	Place new residential developments at locations that increase potential ridership on the transit system and support Providence as the regions employment and cultural center.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
D	Locate transit oriented development nodes near parks and schools to maximize the benefits of the public's investments to as many households as possible.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.

	H7 Housing and the Region	Schedule of Public Actions
C	Encourage the state to reinstate the state Historic Tax Credit Program to facilitate further preservation and redevelopment in Providence.	Ongoing policy effort in conjunction with partners.

	M2 Transit	Schedule of Public Actions
B	Require employers which receive city or state funds to promote transit as an alternative to driving through partnerships with RIPTA, through programs such as transit incentives.	RIPTA lead effort, as part of the Metro Transit Study. City is supporting the effort.
H	Encourage the expansion of commuter rail to points south of the city while maintaining and/or adding to the existing level of service at Providence Station.	RIPTA and State lead effort.
I	Through the Providence Core Connector Study, explore the feasibility, cost and benefits of constructing an “urban circulator” (i.e. streetcar or enhanced bus service) to connect key locations within a two-mile corridor between Downtown, the Hospitals in Upper South Providence, and College Hill.	The Alternatives Analysis is complete. Seeking funding to move into Project Development and advance the design and engineering of the Providence Streetcar.
J	Investigate the feasibility of extending streetcar service to other neighborhoods if the original core connector route is implemented.	Analysis pending the successful implementation of the Providence Streetcar starter route.
N	Require major land development projects to have a “trip reduction plan” to reduce car trips.	Planning Department working with the Office of Sustainability to create checklist for review of MLD projects, including impacts on transit, parking, etc.
P	Continue to work towards reinventing Kennedy Plaza to enhance rider experience, improve pedestrian space, and reduce bus congestion in the Plaza.	Ongoing effort underway with multiple stakeholders. Phase I will be implemented in 2014 as part of the City's Downtown Circulator Project.
Q	Rewrite the Providence Zoning Ordinance as a tool to implement transit-oriented development and the City’s overall livability and sustainability goals for transit corridors.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
U	Work to create community hubs at key nodes along high-use bus corridors.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.

	M3 Walking	Schedule of Public Actions
I	Create design standards for pedestrian facilities throughout the city that address items such as materials, street furniture, maintenance, and traffic calming.	Underway

	AC1 Mobilize the Creative Sector	Schedule of Public Actions
B	Integrate the cultural plan’s recommendations for the creative sector into its policies and plan to cultivate creative responses to complex urban issues such as sustainability, social mobility, and equity.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
G	Work with the Mayor’s Institute on City Design to set high standards for design excellence in the construction and renovation of all City buildings as well as buildings that receive financial incentives from the city.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
H	Support the development of small and mid-sized venues for galleries, music performances, and visual arts exhibitions downtown, in nearby areas and, where appropriate, in neighborhood commercial corridors in order to serve local artists and attract creative workers, innovators and entrepreneurs, thereby developing sustainable businesses in the City.	Underway and ongoing work of the City's Department of Arts, Culture and Tourism.
I	Review city zoning, building and fire code regulations to remove unnecessary barriers to arts-related enterprise (formerly AC2B).	Underway and ongoing work of the City's Department of Arts, Culture and Tourism.

	AC2 Build and Foster Neighborhood Vitality Through Increased Access and Diversified Cultural Participation	Schedule of Public Actions
F	Identify, develop, and establish neighborhood cultural centers utilizing existing civic buildings: libraries, recreation centers, schools, parks, and community centers.	Underway and ongoing work of the City's Department of Arts, Culture and Tourism.
H	Invest in the city’s public art, programs, events, and infrastructure to increase neighborhood-based creativity and encourage the proliferation and preservation of free and accessible public cultural programs.	Underway and ongoing work of the City's Department of Arts, Culture and Tourism.
I	Continue to enforce the 1980 <i>Art in City Life</i> ordinance requiring one percent of total project costs for the construction or remodeling of any building, decorative or commemorative structure, park, street, sidewalk, parking facility, or utility paid for in whole or in part by the City to be expended on works of art.	Underway and ongoing work of the City's Department of Arts, Culture and Tourism.
J	Develop policies governing decisions about the construction, renovation, or restoration of commemorative art, architecture, and landscape architecture in public spaces and directs investment for the preservation of existing public monuments.	Underway and ongoing work of the City's Department of Arts, Culture and Tourism.

	AC3 Economic Development and the Arts	Schedule of Public Actions
E	Increase the availability of affordable and accessible artist live/work spaces throughout the neighborhoods by:	
2	Recognizing artist work only studios as jobs to ensure they can be located in areas designated as “Jobs Only Districts” on Map 11.2 ‘Future Land Use’	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
3	Reviewing zoning, building codes and fire codes to identify changes that would reduce the cost of developing artist live/work spaces without jeopardizing life/safety needs.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
4	Exploring opportunities to partner with arts organizations and private entrepreneurs to develop permanently affordable artist work spaces.	Underway and ongoing work of the City's Department of Arts, Culture and Tourism.

	AC4 Regional Center for Culture and Arts	Schedule of Public Actions
3	Encourage local small businesses and civic groups to build partnerships to promote and provide a distinctive, honest visitor experience and market their locales effectively. Help businesses develop approaches to tourism that build on the area’s natural, historical and cultural resources, including food and drink, artisanry, performance arts, etc.	Underway and ongoing work of the City's Department of Arts, Culture and Tourism.
4	Encourage micro-to medium-size enterprises and tourism business strategies that emphasize economic and social benefits to involved communities, especially poverty alleviation, with clear communication of the destination stewardship policies required to maintain those benefits.	Underway and ongoing work of the City's Department of Arts, Culture and Tourism.

	AC6 Arts as a Civic Value	Schedule of Public Actions
C	Set high standards for design excellence in the construction and renovation of all City buildings.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
D	Enliven the civic realm with art installations.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014. The City is launching a new Tactical Urbanism program called Pop Up Providence in Fall of 2013.

E	Showcase and incorporate the work of local artists into the fabric of city activities, including the built environment, the natural environment and special events.	Underway and ongoing work of the City's Department of Arts, Culture and Tourism.
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	PS1 Recreational Opportunities	Schedule of Public Actions
D	Develop new space(s) in the city for large-scale festivals.	Ongoing work of the Parks Department.
H	Adapt programming in recreational facilities to changing demographics of the city.	Ongoing work of the Parks Department.

	PS2 Sustain Our Park and Recreation Assets	Schedule of Public Actions
A	Supplement City funding with additional funds from user fees, concession and lease agreements, and grants.	Ongoing work of the Parks Department.
B	Supplement City maintenance resources with maintenance sharing agreements.	Ongoing work of the Parks Department.
E	Establish reasonable and feasible maintenance standards.	Ongoing work of the Parks Department.
F	Increase park maintenance staff during peak seasonal periods.	Ongoing work of the Parks Department.
G	Incorporate low maintenance designs into park renovation projects.	Ongoing work of the Parks Department.
H	Investigate and implement innovative park maintenance plans with public and private partners.	Ongoing work of the Parks Department and the Partnership for Providence Parks.

	PS3 Link Public Spaces	Schedule of Public Actions
B	Develop a connected system of greenways for continual access along the entire waterfront and through adjacent neighborhoods.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
C	Strategically acquire parcels to link open spaces.	Where feasible, the City will pursue this.
F	Through development incentives, negotiation, and other mechanisms, create publicly-accessible open spaces through private land development.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.

	PS4 Increase Access to Park and Recreation Facilities	Schedule of Public Actions
B	Provide public recreation facilities on school sites.	Ongoing work of the Parks Department.
D	Increase access for physically challenged residents.	Ongoing work of the Parks Department.
E	Establish consistent park signs.	Ongoing work of the Parks Department.

F	Amend city regulations to permit enclosed off-leash dog parks.	Complete.
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PS6 Community Involvement		Schedule of Public Actions
B	Develop an ongoing process for updating neighborhood and citywide resident interests and needs for park and recreation facilities and public programming.	Ongoing work of the Parks Department.

PS7 Community Gardening		Schedule of Public Actions
B	Open at least one community garden per year in a public park.	Underway. Currently there are 9 community gardens in public parks.
C	Expand community gardening opportunities on under-utilized park land.	Underway.

CS1 Schools		Schedule of Public Actions
A	Improve academic achievement for all children and increase the graduation rate by:	See School Department Plans.

CS2 Police, Fire, and Public Safety		Schedule of Public Actions
F	Conduct a comprehensive safety analysis to determine and assess the current and future safety needs of city residents and implement a plan to address these needs.	See Public Safety Plans.

CS4 Water		Schedule of Public Actions
A	Protect the city’s water supply by:	See Providence Water Supply Board Planning Documents.
B	Coordinate the goals and objectives of this plan over the next 20 years with the actions of public authorities or agencies providing water supply services to the municipality, such as the Providence Water Supply Board.	See Providence Water Supply Board’s WSSMP in Appendix D.

CS5 Wastewater		Schedule of Public Actions
A	The City shall ensure efficient operation of city wastewater facilities by:	Work with NBC to implement strategies.

	CS6 Solid Waste Collection and Disposal	Schedule of Public Actions
A	Increase citywide recycling rates to meet and exceed the 35% required by the Rhode Island Resource Recovery Corporation (RIRRC) through ordinances such as “No bin, no barrel”.	Work with the Office of Sustainability to achieve the following actions.

	CS 10 Library Services	Schedule of Public Actions
A	Acquire, organize and maintain comprehensive collections that reflect diversity and a wide spectrum of views.	Work with the Providence Public Library and support the Community Library System to achieve the following strategies.

	LU1 Land Use	Schedule of Public Actions
B	Update regulations to:	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014. This rehaul will address the strategies in the Land Use Section.
1	Ensure that new development maintains existing density levels.	
2	Ensure that new development complements existing neighborhood character in scale, massing and design.	
3	Encourage the preservation of the existing building stock.	
4	Mitigate impacts of non-residential uses on neighboring residential uses.	
5	Limit the locations of inappropriate uses such as adult entertainment.	

	W1 Planning for Narragansett Bay	Schedule of Public Actions
A	Develop a harbor management plan to address use of the water sheet, including marina and mooring field locations, no-wake zones and limits on commercial traffic on the Providence River north of the Hurricane Barrier, and on the Seekonk River.	Underway - current draft under review by CRMC. Final to be adopted in 2014.
B	Update regulations to recognize the unique significance of waterfront property by:	
1	Establishing criteria and standards for waterfront developments and development plan review.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
2	Establishing criteria to balance water-dependent and non water-dependent uses along the waterfront, and mitigate the potential conflicts among various uses.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.

3	Including strategies to protect restore and enhance the water quality of the Bay, such as urban-scaled Low Impact Development (LID) standards.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
4	Minimizing impacts of flood hazards and rising sea levels by measures such as minimum freeboard elevations.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.

	W2 Sustainability and the Environment	Schedule of Public Actions
J	Protect environmentally sensitive waterfront areas through the development of appropriate waterfront controls.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.

	W3 Built Environment	Schedule of Public Actions
C	Prioritize the development of a continuous greenway along the waterfront through regulations and incentives.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
D	Ensure that buildings address the waterfront and open spaces along the waterfront through design and active ground floor uses.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.

	W5 Mobility	Schedule of Public Actions
A	Improve pedestrian access to the waterfront by:	
1	Developing a continuous greenway along the waterfront for use of pedestrians and bicyclists consistent with the access needs of water-dependent uses.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
2	Developing walkways and corridors perpendicular to the waterfront at regular intervals to connect into the greenway along the shoreline.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.

	W7 People and Public Spaces	Schedule of Public Actions
B	Create small parks or public landings at the terminus of streets that meet the waterfront, particularly streets that pass under the highway from neighborhoods along Allens Avenue.	Ongoing citywide effort.
E	Identify appropriate locations for marinas and mooring fields to expand waterside access to the Bay.	Ongoing citywide effort.
F	Develop recreation facilities that are attractive to residents and visitors of all ages and income groups.	Ongoing citywide effort.
G	Provide amenities, where desirable and feasible, that enhance public enjoyment of open spaces and public access areas such as public restrooms, drinking fountains, information kiosks, and dining opportunities.	Ongoing citywide effort.
H	Require waterfront developments to provide public open space to expand waterfront access to people residing and working in the waterfront area and adjoining neighborhoods.	Ongoing citywide effort.

	W8 Land Use	Schedule of Public Actions
A	Examine strategies for the continued revitalization for the area designated as Waterfront Mixed Use/Neighborhood on Map 11.2 ‘Future Land Use’ with a mixture of neighborhood-serving commercial and open space/recreational uses in a way that connects adjacent neighborhoods to the waterfront by :	
1	Providing continuous public access along the shoreline south of the Hurricane Barrier to India Point Park, with connections to the riverwalk system on the northern side of the Hurricane Barrier.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
B	Examine strategies for the renewal and strengthening of the port as a regional economic engine in the area designated as Waterfront/Port on Map 11.2 ‘Future Land Use’ by:	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.
1	Limiting the area to water-dependent or other related uses, and compatible supporting uses.	The Dept. of Planning is undergoing a rewrite of the City Zoning Ordinance and will be amending regulations to promote sustainability and will address these specific areas. New ordinance will be adopted in fall of 2014.

Appendix A. Existing Conditions

This Appendix sets forth existing conditions in the city. The information in this section provides the basis for analysis and policy formulation in *Providence Tomorrow*.

A.1 The People

Overview

According to the US Census, the population of Providence grew by two and one half percent between 2000 and 2010, from 173,618 to 178,042. During this same time period, the state population increased by only less than one half of one percent (See Table A.1 ‘Population Change, 2000-2010). This marked the third straight decade of population growth following four decades of decline from the peak population of 253,504 in 1940. While the city continued to grow from 2000 to 2010, it grew at a much slower rate than the previous decade, due in large part due to the recession during the 2nd half of the decade.

The neighborhoods of Manton and Downtown grew the most between 2000 and 2010, increasing their populations by 51.4 percent and 65.3 percent, respectively. Fourteen neighborhoods lost population during that same time period, the largest occurring in Federal Hill, which lost 8.9 percent of its residents-almost a third more than the next closest neighborhood (-6.8 percent in Elmwood).

Table A.1 Population Change, 2000-2010

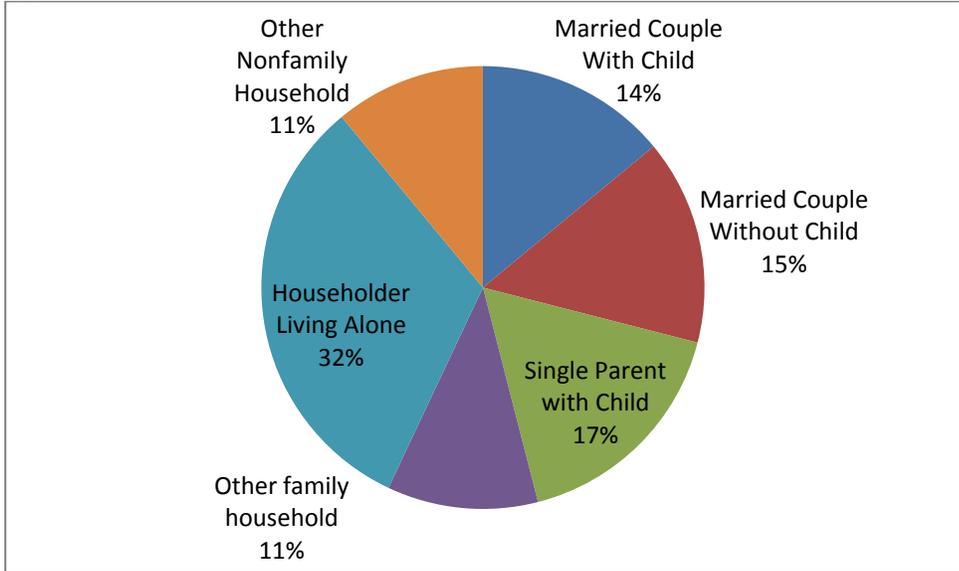
	City	Change Since 2000	State	Change Since 2000
Population	178,042	2.5%	1,052,567	0.4%
Households	62,718	0.5%	413,600	1.25%
Families	35,261	-1.7%	259,561	-2.3%
Public School Enrollment	23,561	-12.8%	145,118	-8.4%

Source: US Census, Providence School Department, RI Dept. of Education

Households and Families

Overall, the number of households in Providence increased 0.5 percent, from 62,239 in 2000 to 62,718 in 2010. While the share of family and non-family households has remained relatively stable, the overall number of family households declined by 1.7 percent, while the number of non-family households grew by 3.5 percent (See Figure A.1 ‘Household Type’). The average household size in 2010 remained steady at 2.6 persons for Providence, compared with 2.4 persons for Rhode Island.

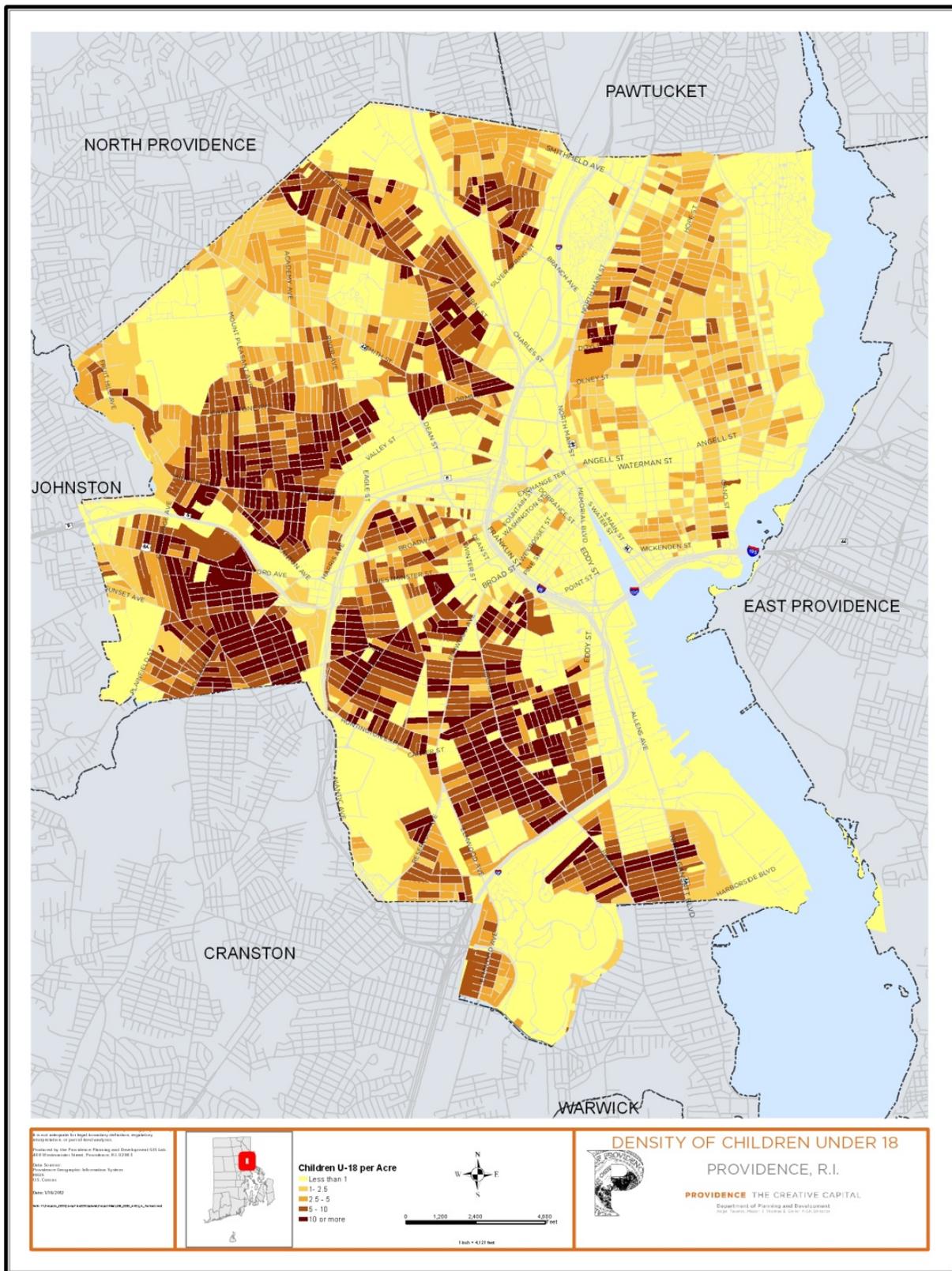
Figure A.1 Household Type



Source: US Census, 2010 Decennial Census

There were 35,261 family households living in Providence in 2010. Of these, 46.5 percent were family households without their own children under eighteen years old. This figure is up 3.3 percent since 2000. The remaining family households were divided between married (24.2%) and single parent households (29.3%) with children under eighteen. These two groups also each equally comprise approximately a third (30.1 percent) of all households, including non-families. The share of family households classified as married with children declined between 2000 and 2010 (28.6 and 24.2 percent respectively), the share of single-parent family households increased by 16 percent during the same ten year period (See Map A.1 ‘Percentage of Households with Children Under 18’).

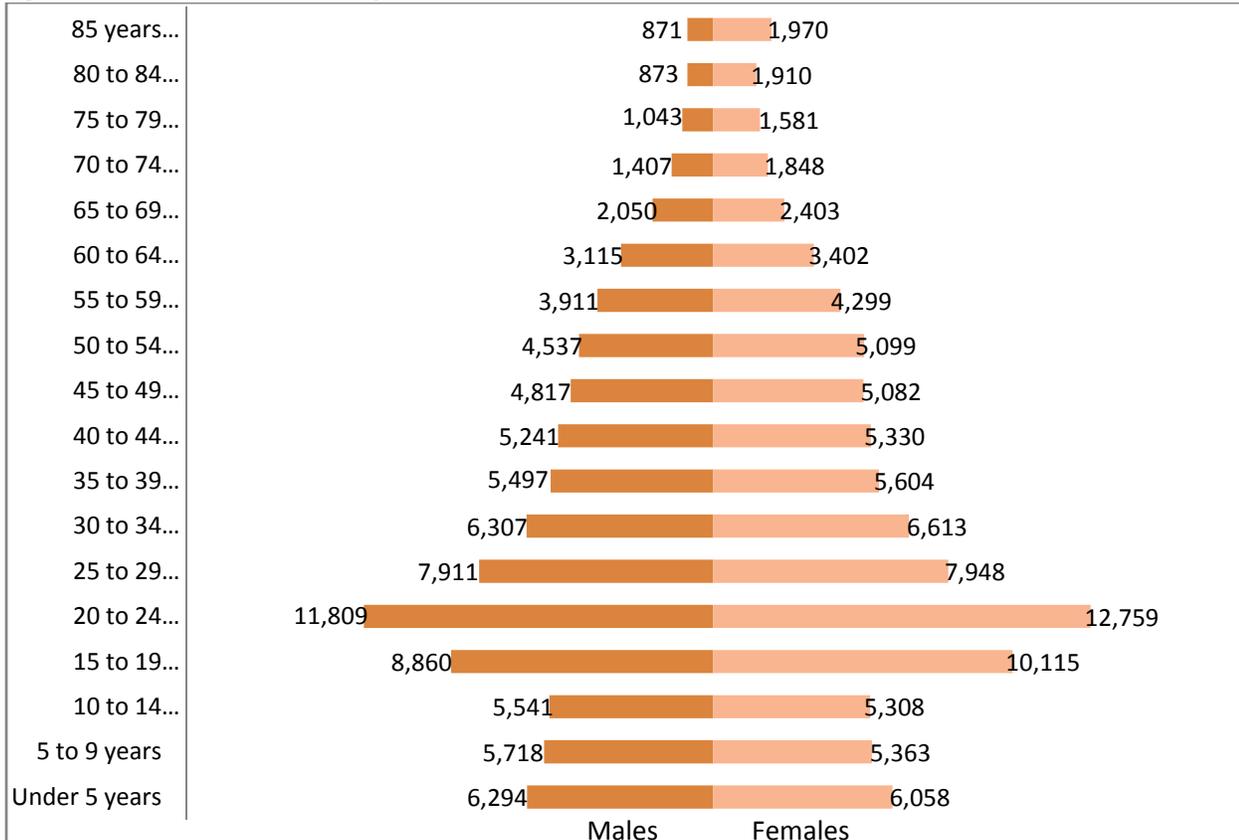
Map A.1 Percentage of Households with Children Under 18



Age and Race

Median age in the city in 2010 was 28.5 years old. The population is distributed fairly evenly across age groups, with the largest five year age cohort being 20-24 year olds (8 percent of the overall population). Residents age sixty-five and older declined by almost a 15 percent between 2000 and 2010, while a younger generation, 5-17 year olds declined by 6.4 percent (See Figure A.2 ‘Providence Total Population, 2010’).

Figure A.2 Providence Total Population, 2010



Source: US Census, 2010 Decennial Census

Enrollment in the city’s schools declined by almost 13 percent between 2000 and 2010, and one in five public school students now receives some type of Limited English Proficiency service. The student body is highly mobile, such that the number of public school students moving into or out of one of the city’s public schools over the course of the year is equivalent to one-third of fall enrollment.¹²⁵

The Providence Hispanic population increased 30 percent between 2000 and 2010, now accounting for 38 percent of the city’s total population. The city’s non-Hispanic White population dropped to 37.6% of the overall population (declining 15.7 percent from 2000. Non-Hispanic Black and African American residents grew by 5.8 percent; the Asian, Hawaiian and Pacific Islander population grew by 8.4 percent. (See Table A.2 ‘Race Composition Changes Between 2000 and 2010’).

¹²⁵ Source: Providence School Department

Table A.2 Race Composition Changes Between 2000 and 2010

Race	Census 2010 Count	2010 Percent of Total Population	Change 2000-2010
Hispanic	67,835	38%	30%
Nonhispanic White	66,910	37.6%	-15.7%
Nonhispanic Black or African American	23,399	13.1%	5.9%
Nonhispanic Asian, Hawaiian, or Pac. Islander	11,241	6.5%	8.2%
Nonhispanic Some other race	1,727	1%	-45%
Nonhispanic Two or more races	5,710	3.2%	-10%

Source: US Census, 2000 Decennial Census, 2006-2010 American Community Survey

Immigration & Linguistic Isolation

The foreign-born population increased 15.6 percent between 2000 and 2010, to 29 percent of all residents in Providence. Of these 52,077 foreign-born residents, two thirds are not citizens. In Rhode Island, roughly one in ten residents is foreign born. The foreign born population includes individuals who are citizens by naturalization and those who are not citizens.¹²⁶

Between 2005 and 2010 Rhode Island was the initial state of resettlement for 961 refugees. Liberian refugees represented 37 percent of this population (See Table A.3 'Refugee Arrivals to Rhode Island').

¹²⁶ The Census does not ask about immigration status.

Table A.3 Refugee Arrivals to Rhode Island

	2005	2006	2007	2008	2009	2010	Total
Bhutan					29	73	102
Burma	4				11	49	64
Burundi	4	20	18	47	13	17	119
Central African Republic		1			14		15
China	2						2
Democratic Republic of Congo			8	4	2	5	19
Ethiopia						7	11
Eritrea	1		22	6	14	34	77
Ethiopia	19	1	2		5		27
Equatorial Guinea			1		8	9	18
Gambia			1			1	2
Iran				10	3	2	15
Iraq			4	34	31	22	95
Ivory Coast		2	1	1			
Laos	59						59
Liberia	160	85	64	12	22	16	359
Mauritania						7	7
Rwanda	5	12	1	6			24
Sierra Leone					1		1
Somalia	29	9	17	12	11		
Thailand				2			2
Turkey					1		1
Union of Soviet Socialist Republics		2					2

Source: US Office of Refugee Resettlement

Twenty-four percent of Providence residents speak English less than “very well”, so that one in four residents currently meets this criteria, a rate exceeded only by Central Falls in Rhode Island. Forty-eight percent of the population five years and older speak a language other than English at home, of which 76 percent speak Spanish. With respect to households, slightly more than one in ten (13 percent) are linguistically isolated, meaning that all members of a household who are age 14 or over have some degree of difficulty with the English language in the public schools, 42.5 percent of students speak a language other than English as their first language. (See Table A.4 ‘First Language of Providence Students, 2010’).

Table A.4 First Language of Providence Students, 2010

First Language	Elementary (%)	Middle (%)	High (%)
Spanish	35.1	40.7	43.1
English	62.3	55.5	50.7
Khmer	0.5	0.9	1.7
Lao	0.2	0.3	0.6
Hmong	0.3	0.2	0.6
Creole	0.3	0.6	0.8
Portuguese	0.1	0.2	0.3
African-Other	0.2	0.2	0.3
Chinese-Mandarin	0.1	0.4	0.9
French	--	0.2	--
Cambodian			0.2
Other	0.3	0.5	1.8

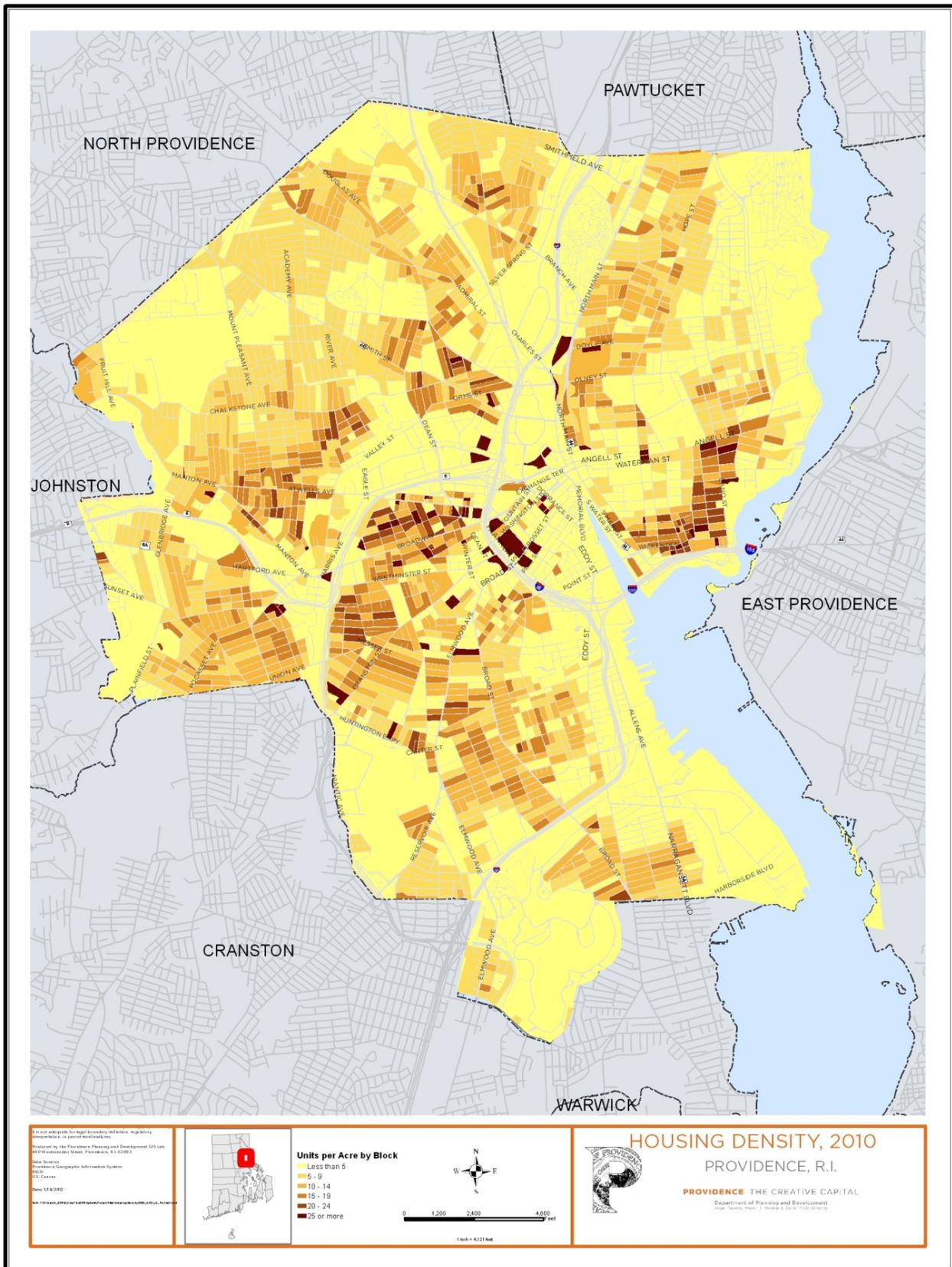
Source: Providence School Department 2011

Density

The average population density in Providence is 14.6 persons per acre. The density ranges from areas with no population to 723 persons per acre. Of the 11,814 acres in Providence, 6,695 have at least one unit of residential housing. When density is calculated only by residential acres and residential population (excluding group housing), density increases to 25.7 persons per acre (See Map A.2 'Housing Density').

Viewed at a larger scale, Providence has a density of 9,300 people per square mile. Comparatively, Boston's density is 12,752 people per square mile. In Rhode Island the population density is 1,018 people per square mile, making it the second most densely populated state in the country, after New Jersey.

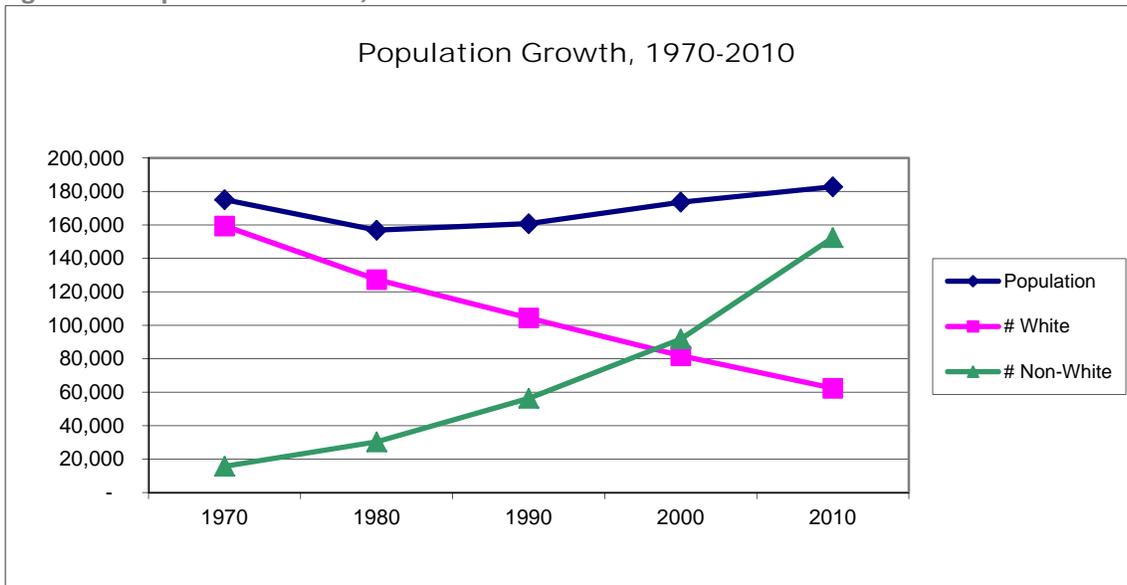
Map A.2 Housing Density



Population Projections

In estimating the future growth of Providence, several factors can be taken into consideration, and analysis can vary in complexity. One simple way to identify future growth is to examine past rates of growth and project them into the future. In 2007, this method projected a population of upwards of 180,000 by 2010, however the rate of growth in the City slowed significantly, resulting in a population below 180,000. (See Figure A.3 ‘Population Growth, 1970-2010’.)

Figure A.3 Population Growth, 1970-2010



Source: US Census, 2000 and 2010 Decennial Census

Between 1980 and 1990, Providence grew in population by 2.5 percent, the City’s first positive growth since 1940. Between 1990 and 2000, this rate of growth more than tripled. Between 2000 and 2010, the rate at which the population grew declined back to 2.5 percent. By breaking this growth down by race, it shows the difference in change between the white and non-white populations. Even between 1970 and 1980, when the overall population declined, the non-white population more than doubled, and these changes in race composition continue (See Table A.5 ‘Change in Population’).

Table A.5 Change in Population

	1970	1980	1990	2000	2010	Percent Change 1970-1980	Percent Change 1980-1990	Percent Change 1990-2000	Percent Change 2000-2010
Population	175,089	156,804	160,728	173,618	178,062	-10.40%	2.50%	8.02%	2.50%
Percent White	91.04%	81.20%	64.90%	47.10%	37.6%	-10.80%	-20.01%	-27.48%	-15.7%
Percent Non-White	9.00%	19.36%	35.05%	52.88%	62.4%	115.10%	81.05%	50.87%	17.4%

Source: US Census, 2010 Decennial Census

The main concern with the extrapolation technique of projecting growth rates forward is that it does not identify causes of past trends which may not hold true in the future nor does it disaggregate the population by age. Improved projections can be obtained by using a cohort-component projection model which takes into consideration the three main components of population change: fertility, mortality, and migration. These three factors help determine a future rate of growth, by age and race, in five-year intervals to the year 2030.

Input data to develop a cohort model were obtained from the US Census, the RI Department of Health, and the IRS. KIDSNET data from RI Department of Health were used to calculate fertility rates. Census Survival Tables for the United States were used to calculate survival rates and Census population counts for 1990 and 2000 were used as base-year data. IRS data were used to calculate the number of in and out migrants, by county, for the years 2000 to 2004.

Migration trends, when people move into or out of the area, is the most volatile piece of data and most difficult to track. Unlike death rates, which change slowly and predictably, or fertility rates, for which stable trends can be established, migration can change greatly, due to economic changes; and can impact age and race cohorts differently. For these reasons, other available data sources were used to adjust migration rates accordingly.

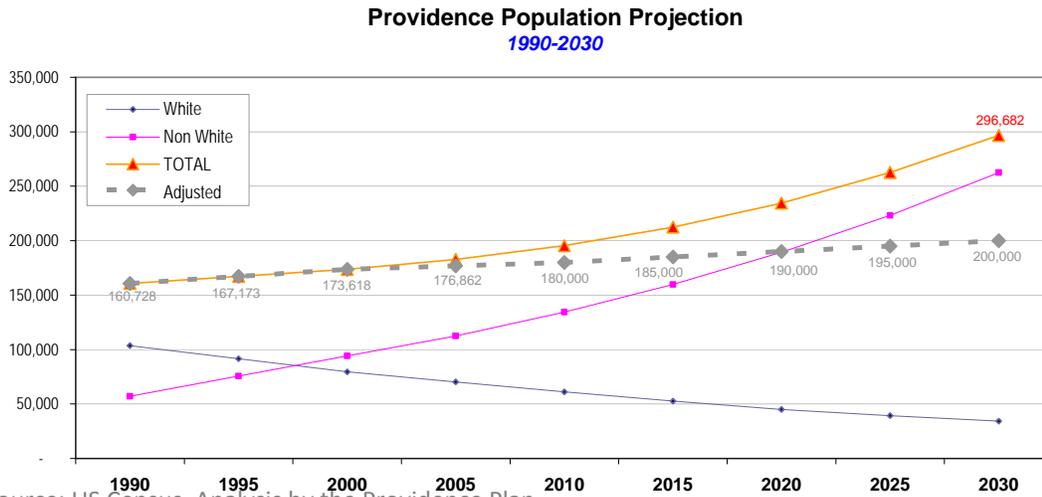
Further Population Growth Factors

If current population trends are extrapolated into the future, the population of Providence could rise to almost 300,000. This number is likely far too high. Many factors will influence how the population grows in the long term:

- PSD data shows student enrollment is leveling off and aging in place; however, non-migrant IRS numbers are steadily rising, suggesting this aging in place of young people extends into the workforce.
- The younger Providence population reflects a growing non-white population, indicating future households that are on average larger than the previous majority due to higher fertility rates.
- Housing affordability and choice (condominium growth may attract a different household) will determine if the non-migrant population will continue to grow.
- The college age population has grown steadily (Johnson & Wales has grown 30 percent over the last 15 years) indicating a larger population of younger professionals that may stay in Providence.
- Providence has a finite land area. Considering that the city's population peaked at 253,000 in 1940, when household sizes were much larger than today, and the city would need roughly 50 percent more households at today's household size to reach that figure, it is unlikely that the population would reach even that high.

Adjusting the trend lines result in a projected population of roughly 200,000 by 2030 (See Figure A.4 'Providence Population Projection, 1990-2030').

Figure A.4 Providence Population Projection, 1990-2030



Source: US Census, Analysis by the Providence Plan

A.2 Income

Income of Providence Residents

Medians and Ranges

In 2009, the median family income was \$40,310. After climbing by 11 percent between 1979 and 1989, the real median family income in Providence decreased by \$6,000 (16 percent) between 1989 and 1999. However, this emerging trend reversed itself between 1999 and 2009 when median family income increased by over \$8,000 (20 percent). (See Table A.6 ‘Providence Median Family Income in 2009 Dollars, 1969-2009’).

Table A.6 Providence Median Family Income in 2009 Dollars, 1969-2009

Year	Median	Percent Change
1969	\$38,268	-
1979	\$34,302	-10%
1989	\$38,079	11%
1999	\$32,058	-16%
2009	\$40,310	20%

Source: 2010 Decennial Census

The table below (Table A.7 ‘Percent of Providence Families in National Income Brackets, 1969-2009’) conveys the difference between the distribution of Providence incomes and the distribution of incomes nationwide. In 2010, the middle 60 percent of U.S. families had an income of between \$35,000 and \$75,000. In comparison, 42.2 percent of Providence families fit into this same income range in 2010. Three decades prior, Providence’s middle class was almost identical to the national standard. So, the share of Providence families with a “middle income” fell almost 18 percentage points between 1969 and 2010. In the same time span, the share of families in the low income bracket rose more than 12 percentage points to represent 37.5 percent of all families. The share of families in the high income bracket increased almost 8 percent.

Table A.7 Percent of Providence Families in National Income Brackets, 1969-2009

National Bracket	Year	Providence Bracket Share
Lowest Income (Lowest 20%)	1969	24.8%
	1979	31.1%
	1989	30.7%
	1999	39.3%
	2009	37.5%
Middle Income (Middle 60%)	1969	60.5%
	1979	56.7%
	1989	55.0%
	1999	48.6%
	2009	42.2%
High Income (Top 20%)	1969	14.8%
	1979	12.3%
	1989	14.3%
	1999	12.1%
	2009	20.2%

Source: 2010 Decennial Census

The real median household income (this figure includes both family and non-family households) in Providence increased between 1999 and 2009, gaining over \$10,000, or 30percent. This increase reverses a decline in median household income from 1989 to 1999. (See Table A.8 'Providence Median Household Income in 2009 Dollars, 1969-2009').

Table A.8 Providence Median Household income in 2009 Dollars, 1969-2009

Year	Median	Percent Change
1969	\$25, 258	-
1979	\$26,245	4%
1989	\$29,756	13%
1999	\$26,867	-10%
2009	\$37,237	30%

Source: US 2010 Decennial Census

The distribution of household incomes is presented by the U.S. Census in ranges. Due to the manner in which the census treats income, race, and ethnicity, it is possible to compare the income of Hispanic households to White households but not to households of other races (as the income presentation of all other races does not distinguish Hispanic from Non-Hispanic head of household). In 2010 in Providence, two out of every five households had an annual income of less than \$20,000 while only one out of every five had an income of \$60,000 or more (See Table A.9 'Percent of Providence Households by Income Range and (available) Race/Ethnicity, 1999'). While similar percentages of Non-Hispanic White households and Hispanic households

had “middle incomes” of \$30,000-\$60,000, these two groups vary sharply in their distribution among the lowest and highest income categories.

Table A.9 Percent of Providence Households by Income Range and (available) Race/Ethnicity, 2010

	Race/Ethnicity of Householder		
	All	Non-Hispanic White	Hispanic Any Race
Number of Households:	61,933	29,067	19,589
<u>Income Range</u>			
Less than \$20,000	30.6%	25%	37.5%
\$20,000 to \$29,999	11.7%	9.8%	13%
\$30,000 to \$39,999	11%	9.3%	14%
\$40,000 to \$49,999	8.4%	7.7%	9.6%
\$50,000 to \$59,999	7.7%	8.7%	5.7%
\$60,000 to \$74,999	8.4%	8.3%	8.1%
\$75,000 to \$99,999	8.5%	10.3%	6.2%
\$100,000 to \$149,999	7.8%	6.9%	3.2%
\$150,000 or more	6%	1.4%	1%

Source: US Census, 2006-2010 American Community Survey

Poverty, Working Poor and Public Assistance

Providence’s overall poverty rate decreased by about 3 percentage points between 1999 and 2009, such that just over 26 percent of residents were living in poverty in 2009 (See Table A.10 ‘Poverty Rate in Providence, 1969-2009’).

Table A.10 Poverty Rate in Providence, 1969-2009

Year	Rate
1969	18.0%
1979	20.4%
1989	23.0%
1999	29.1%
2009	26.3%

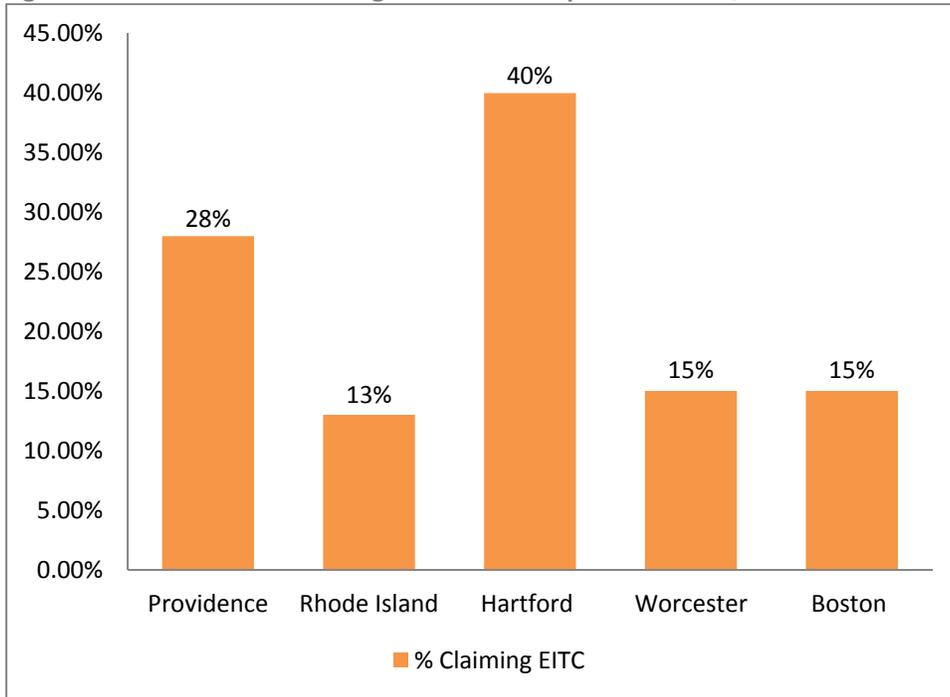
Source: US 2010 Decennial Census

Providence’s childhood poverty rate – concerning those 18 years of age or younger -was 35.6 percent in 2009, ten percentage points greater than the city’s overall poverty rate although five points less than a decade prior (See Figure A.5 ‘Child Poverty Rate in Providence and Comparison Areas, 1990-2010’). Providence’s childhood poverty rate is higher than Boston and Worcester, but lower than the rate in Hartford.

Publicly available data through tax return records offer another measure of residents’ financial struggles (See Figure A.5 ‘Tax Returns Claiming EITC with Comparison Areas, 2008’). For instance, more than one-quarter (28percent) of all Providence tax returns claimed the Earned Income Tax Credit in 2008, a rate that was 12 percent lower than Hartford but about 10 percent higher than both Boston and Worcester. The Providence total

of 17,604 tax returns claiming the EITC represented 29percent of all such returns in Rhode Island, whereas Providence accounts for only 17 percent of all State households.

Figure A.5 Tax Returns Claiming EITC with Comparison Areas, 2008



Source: IRS

Education, Language and Workforce Training

Educational Attainment among Providence Residents

Counter to the changes in real income, the Providence adult population has steadily become more highly educated over the past three decades, such that nearly 30 percent of all residents age 25 or over now have a 4-year college degree or higher (See Table A.11 ‘Educational Attainment for Providence Population Age 25 and Over, 1970-2000’). However, over 25 percent of the adult population is still without a high school diploma or equivalent.

Table A.11 Educational Attainment for Providence Population Age 25 or Over, 1970-2010

Highest Attainment	Year	Share
Did Not Graduate High School	1969	59.4%
	1979	46.6%
	1989	37.2%
	1999	34.2%
	2009	27.3%
High School Graduate	1969	24.3%
	1979	27.3%
	1989	25.0%
	1999	23.1%
	2009	24.0%
Some College or Associate Degree	1969	6.6%
	1979	10.4%
	1989	16.1%
	1999	18.3%
	2009	19.7%
College Graduate or Advanced Degree	1969	9.7%
	1979	15.7%
	1989	21.6%
	1999	24.4%
	2009	29.0%

Source: US Census, 2006-2010 American Community Survey

Income, language, and special needs of the city's students affect student achievement throughout the Providence school district (See Figure A.6 'Characteristics of the Providence Public School Population'). Eighty-two percent of Providence public school students are eligible for subsidized lunch; 15 percent receive English as a Second Language (ESL) or bilingual services, and 19 percent receive special-education services. Along with these issues, student mobility is another factor in achievement. For the school year 2007-08 the Providence district average student mobility index (a measure of student movement into or out of a school) was 28 percent, compared to 16 percent for the State.

Figure A.6 Characteristics of the Providence Public School Population

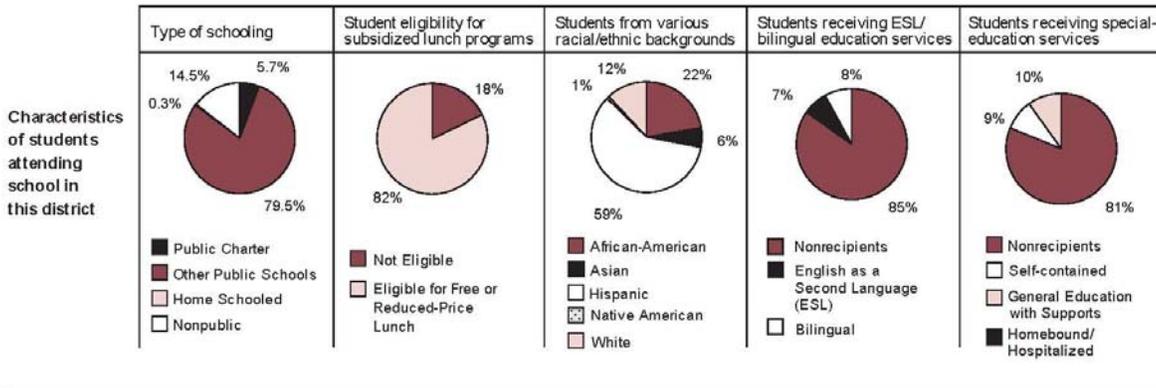
Using Information: District Demographics and Indicators



Providence District

Thomas Brady, Superintendent

24494 students
1699 teachers



SALT Survey indicators

	This District	The State
SALT Survey Teacher Response Rate	53%	46%
SALT Survey Student Response Rate	53%	83%
SALT Survey Parent Response Rate	32%	26%

Student indicators

	This District	The State
Student Attendance	90%	93%
Stability Index	75%	86%
Mobility Index	28%	16%
Four Year Graduation Rate	63.1%	73.9%
Dropout Rate	26.0%	15.5%
Rate of suspensions (incidents per 100 students enrolled): Elementary Schools	6.9	4.4
Rate of suspensions (incidents per 100 students enrolled): Middle Schools	145.5	41.2
Rate of suspensions (incidents per 100 students enrolled): High Schools	39.1	53.1
Students with disabilities: Suspensions (incidents per 100 students enrolled)	29.8	57.0

Teacher indicators

? Inadequate data submitted or no information provided

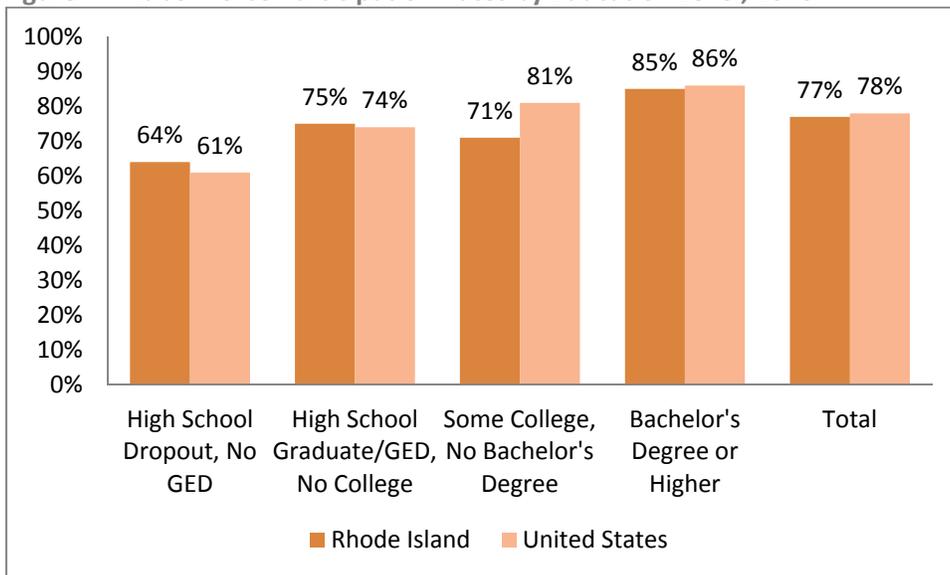
	This District	The State
Teachers with emergency certification	21%	1%
Percent of classes not taught by a Highly Qualified Teacher	1%	4%
Percent of classes not taught by a Highly Qualified Teacher: Low-poverty schools	0%	4%
Percent of classes not taught by a Highly Qualified Teacher: High-poverty schools	1%	4%
Teacher-student ratio	1:14	1:10

Source: RIDE-Information Works! School Year 2007-2008

Basic knowledge and skills in English and Mathematics are a prerequisite for success in higher education and the workplace. According to the assessment results for 2009 (See Figure A.12 ‘Achievement Rates among 11th Graders in Providence Public Schools’), a majority of Providence Public School 11th graders failed to achieve proficiency in six of the seven subsections of the assessment. The high school dropout rate in Providence was 26 percent for school year 2008-09, as compared to a 15.5 percent dropout rate for the State (RIDE-Information Works!). According to a 2006 Rhode Island Economic Policy Council (RIEPC) publication citing the National Center for Public Policy and Higher Education, for every 100 Rhode Island 9th graders, 72 complete high school, 40 enter college, and 23 complete an associate degree or 4-year degree within six years. RIEPC posits that high school and college non-completion are the most troubling types of “brain drain” for Rhode Island, with an estimated 15,000 students statewide dropping out of high school from 1995-2000 and another 27,000 students completing high school but not pursuing a further degree.

The rate of labor force participation among working-age adults with various levels of education offers insight as to who is finding employment and who is not (See Figure A.7 ‘Labor Force Participation Rates by Education Level, 1990-2000 (R.I. and U.S.’). Rhode Island rates of labor force participation closely resemble those of the nation as a whole, with less than 45 percent of high school dropouts as active labor force participants compared to almost 80 percent of adults with 4-year or advanced degrees.

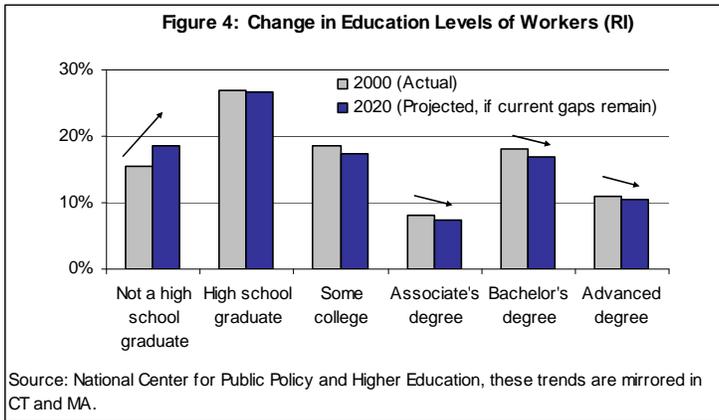
Figure A.7 Labor Force Participation Rates by Education Level, 2010



Source: US Census, 2006-2010 American Community Survey

A job type -education level mismatch may be rising in the state of Rhode Island, as the percentage of workers who do not have a high school diploma (low labor force participation rate, as displayed above) is projected to increase, while the share of workers with a college degree (high labor force participation rate) is anticipated to decrease (See Figure A.8 ‘Change in Education Levels of Rhode Island Workers, 2020 Projection’).

Figure A.8 Change in Education Levels of Rhode Island Workers, 2020 Projection



Source: National Center for Public Policy and Higher Education, RIEPC

English Language Skills

Among the approximate working age population (18-64), 32.5 percent of all Providence residents responded that they spoke English “not well or not at all” (See Table A.12 ‘Providence Population Age 18-64 by Language Spoken at Home and English Difficulty*’). Among the Spanish-speaking population of this age group, 42percent have English difficulties while the same is true of 23 percent of those speaking an Asian/Pacific Island language and 8.8 percent of those favoring an Indo-European language. About 53 percent of the working age population report speaking English at home.

According to the U.S. Census, the phenomenon of “linguistic isolation” – when all members of a household who are age 14 or over have some degree of difficulty with the English language – increased by four and one half percent over the decade, such that 17.5 percent of all households now meet the criteria for isolation. While the rate of linguistic isolation within Spanish-speaking households fell significantly between 2000 and 2010, the existing rate of 42 percent remains high due to strong growth in the Hispanic population.

Table A.12 Providence Population Age 18-64 by Language Spoken at Home and English Difficulty¹²⁷

Language Spoken at Home	Pop Age 18-64	Pct with English Difficulties
Any Language	120,333	32.5%
Spanish	40,171	42%
Indo-European Languages	6,733	8.8%
Asian and Pacific Island Languages	6,960	23%
Other Non-English Languages	2,234	8.8%
English	64,235	--

Source: US Census, 2006-2010 American Community Survey

¹²⁷ Difficulty defined as self-reporting to speak English “less than very well”.

A.3 Sustainability and the Environment

Existing Conditions

The City of Providence is highly urbanized, with extensive residential, commercial, industrial, and institutional development concentrated within its borders. Impacts associated with these land uses that can negatively affect the environment and natural resources include:

- high traffic volumes and concentrations of vehicle emissions, which affect air quality;
- urban runoff, sedimentation, road salt, and litter, which contribute to the pollution of the city's rivers and Narragansett Bay, and limit recreation opportunities;
- a decreasing amount of open space due to the continued development of the city;
- removal of trees and vegetation for development, which poses challenges to the maintenance and improvement of tree canopy coverage and green space citywide;
- continued erosion of slopes, which contributes to excessive sedimentation of the wastewater system; litter on city streets, which detracts from neighborhood character and aesthetics, and contributes to unsanitary conditions;
- development and population growth, which affect the water supply;
- and increasing energy consumption.

These factors and others dictate that continued growth and development needs to be carefully managed and held to sustainable standards. The near future will see an increasing focus on environmentally sound development and personal and business practices that are more environmentally friendly.

An understanding of Providence's natural resources must take into account its urban setting; recent rapid growth; industrial legacy; surface water and coastal resources; floodplains and wetlands; water supply and use; waste generation; and air quality. Urban pollution sources include point source pollution from chemical/hazardous materials storage and brownfields contamination, leaking underground gasoline storage tanks; and non-point source pollution from stormwater runoff. These sources pollute the rivers, ponds and coastal resources of the city, and can have negative impacts on recreational activities and the overall quality of life for city residents.

Climate Protection and Air Quality

Air quality is crucial to the quality of life for city residents and has taken on even greater significance in the wake of climate change caused by greenhouse gas emissions. Air quality is measured by the concentration of pollutants in the air within a specified time interval. Concentrations are analyzed based on their effects on human health. The EPA maintains standards for classifying air quality in primarily urban areas. Each standard is defined by the concentrations of five potentially noxious elements: 1) Carbon Monoxide (CO), 2) Sulphur Dioxide (SO₂), 3) Total Suspended Particle Matter (TSP), 4) Nitrogen Dioxide (NO₂), and 5) Oxidants represented by Ozone (O₃). There are five air quality monitoring stations in Providence, and two others (in East Providence and Pawtucket), each collecting different types of data that help illustrate the air quality in and around the City. TSP measured by the PM₁₀ standard has remained fairly stable and has only decreased slightly since 1992. Diesel vehicles are a major source.

In Providence, as in all highly urbanized areas, the primary source of air contaminants is motor vehicle emissions. Particularly in the summer months, when the air is humid, air quality may be threatened, relating directly to the number, type and speed of vehicles; the type of road; and the number of idling vehicles, particularly in parking lots. As a developing city, Providence is experiencing increases in traffic volumes, as well as in the number of parked cars, particularly downtown. Overall traffic speed downtown is slower, negatively affecting the quality of air throughout the city. Degraded air quality can also be attributed to industrial emissions and other concentrated urban activities.

Providence is part of the Metropolitan Providence Interstate Air Quality Control region (AQCR 120), which includes southeastern Massachusetts and all of Rhode Island. In the summer months, Providence fails to achieve the federally defined primary or secondary standards for three air pollutants, namely Ozone, Carbon Monoxide and total suspended particle matter. Though ozone levels have improved somewhat since the early 1990s, it is still the most serious air pollution issue in the city. On summer days with particularly high ozone levels Ozone Alert days are declared, health warnings are issued and RIPTA bus service is free. In the Providence metropolitan area, levels are equal to or better than national standards for Sulfur Dioxide and Nitrogen Dioxide.

The City has signed on to the ICLEI (International Council for Local Environmental Initiatives) pledge to combat global warming, signifying a commitment to a study of greenhouse gas emissions and enactment of a Climate Action Plan. ICLEI has chosen Providence to be one of a select group of cities to participate in the New England Cities Project, the goal of which is to provide advice, research and technical assistance to help cities accelerate activities they are undertaking to reduce overall energy use, greenhouse gas emissions and other pollution emissions. The project hopes to generate Technical Assistance Guides on specific activities.

The Providence Clean Energy Task Force was created by Ordinance 355 (2007) with the goal of increasing the amount of clean energy purchased by the City.

Surface Water and Coastal Resources

See Appendix A: Existing Conditions-Waterfront

Floodplain Areas

See Map A.3 Existing Natural Resources and Appendix A: Existing Conditions-Waterfront.

Wetlands

See Map A.4 Natural Resources - Wetland and Appendix A: Existing Conditions-Waterfront.

Water Supply

The water supply for the City of Providence is not dependent on surface or groundwater resources within the boundaries of the City. The 4,563-acre Scituate Reservoir system supplies water to the Providence metropolitan area, and is known for its high-quality water. The total capacity is 41.268 billion gallons (an average of over 40 billion gallons flows into the system each year). The watershed of the reservoir system falls within municipalities in northern Rhode Island and southern Massachusetts. The City is therefore somewhat dependent on these municipalities to protect the integrity of the water supply.

While not located in the City of Providence, the Scituate Reservoir and smaller reservoirs belong to the Providence Water Supply Board (PWSB) and are critical water resources for the City and surrounding areas. The watershed surrounding the reservoir system covers nearly 60,000 acres (92.8 square miles). Nearly 17,000 acres (25.4 square miles) of this is controlled by the PWSB, an area greater than the size of the City of Providence. Recognizing that more watershed land needed to be controlled in order to assure a continued supply of high quality water to the region, the R.I. General Assembly passed an act in 1989 authorizing the use of eminent domain powers to acquire watershed land or development rights on that land. Since 1990 the PWSB has acquired over 1,440 acres of critical watershed.

Table A.13 Reservoir Data

Scituate Reservoir	3,390 acres	37.011 billion gallons
Moswaniscut Reservoir	282 acres	1.781 billion gallons
Regulating Reservoir	243 acres	428 million gallons
Barden Reservoir	245 acres	853 million gallons
Ponaganset Reservoir	230 acres	742 million gallons
TOTAL	4,563 acres	41.268 billion gallons

Source: Providence Water Supply Board

Trees and Canopy Coverage

Due to disease and blight, and the development of land area for both buildings and parking areas, tree canopy coverage has diminished in Providence. This has been ongoing since the early 20th century, when there were more than twice as many trees than there are today. Quality of life, public health and efforts to combat climate change and poor air quality necessitate the planting of more trees and green space.

Approximately 400 trees have been planted per year since 1989 to 2004 by the Providence Neighborhood Planting Program, a street tree planting and maintenance partnership between the Mary Elizabeth Sharpe Street Tree Endowment, the City of Providence and residents of the city. Between 2004 and 2011 approximately 772 trees have been planted each year through City led tree planting efforts. There have also been privately led tree planting efforts which have also increased the number of trees in the city. Additional efforts are underway to protect existing trees and promote more public and private tree planting efforts and better landscaping standards.

The City Forestry department conducted a comprehensive citywide tree inventory in 2007. The results are shown below.

Key Findings of the Providence Tree Tally, 2007

- **24,999 street trees** (includes 409 dead trees)
- **The species are diverse** – over 95 different tree species
- Top species – Norway maple (18.8%), Callery Pear (11.6%), Green Ash (8.6%), Honey Locust (7.4%), London Plane Tree (7.0%), Red Maple (5.6%), Zelkova (4.4%)
- **More than 2/3 of street trees are in either excellent (23.2%) or good (48.9%) condition**, with 18.9% fair, 7.3% poor, and 1.6% dead.

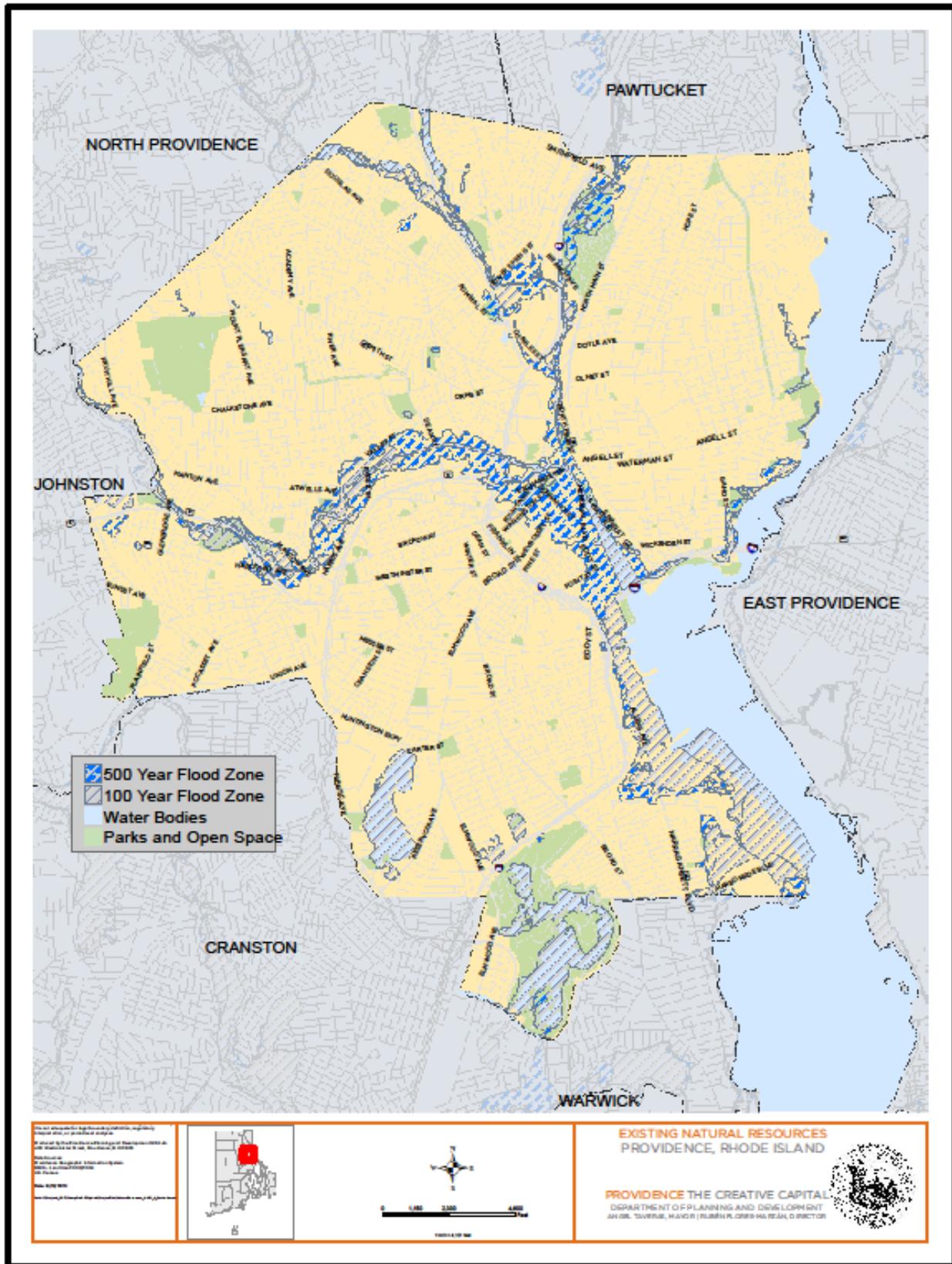
- The trees are weighted toward the smaller size classes, with 2/5 (39.9%) 6” in diameter or less, and nearly 2/3 (65.1%) 12” in diameter or less. 27.6% of trees were 13-24” in diameter, and 7.2% were greater than 24” diameter.
- 41.5% of trees had utility wires located above (or through) them.
- 52.4% of planting spaces were sidewalk pits, while 47.6% were lawn strips or lawn areas.
- The avg. size tree pit was 16.5 sf., and the avg. lawn strip width was 3.89 ft.
- 27.6% of trees had cracked or raised sidewalks adjacent to them.
- 16.2% of trees had some sort of infrastructure conflict threatening their health, led by close sidewalk pavement (12.0%).
- Providence’s street trees provide \$2,932,731 in benefits annually. (\$118.23/tree)
- 38,899 tons of carbon are stored in Providence’s street tree population.
- For every dollar the City spends on the tree program, we are “paid back” \$3.33 in benefits each year.
- The replacement value of Providence’s street trees is \$81,855,622 or \$3,274/tree.

Table A.14 Benefits of Street Trees

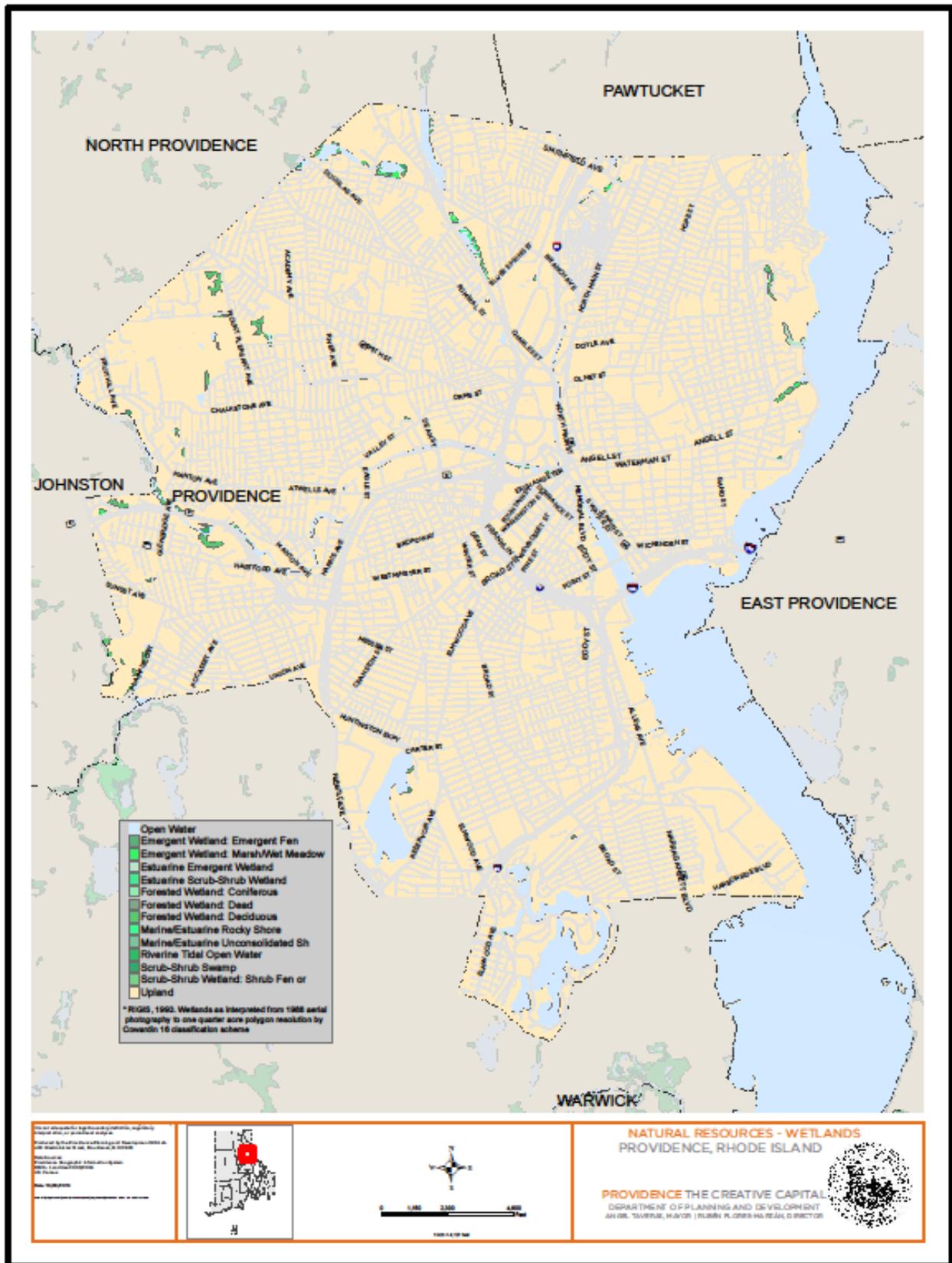
Total Annual Benefits of Street Trees, City of Providence			
Benefit	Amount	Sub-Value	Total Value
Energy			
Electricity saved	1684 MWh	\$202,132	
Natural Gas saved	633,812 therms	\$1,026,528	\$1,228,660
CO2			
CO2 stored	2,180 tons	\$14,564	
CO2 avoided	2,527 tons	\$16,945	
CO2 released	504 tons	(\$3,367)	\$28,142
Air Quality			
Pollution intercepted	29 tons	\$101,096	
Pollution avoided	12 tons	\$101, 863	
BVOC pollution emitted	2 tons	(\$8,627)	\$194,334
Stormwater			
Stormwater intercepted	30.6 m. gallons		\$244,945
Aesthetic/Other			
Incr. property values			\$1,236,649
		TOTAL	\$2,932,731

Source: City Forester, Doug Still

Map A.3 Existing Natural Resources



Map A.4 Natural Resources – Wetlands



Green Design and Development/LEED and LID

Save the Bay's headquarters at Fields Point and the Gordon Avenue Business Incubator are examples of "green," sustainable buildings built on environmentally compromised land. Brown University has undertaken several renovations incorporating "green" principles and has a resource efficiency manager.

This plan and emerging City initiatives aim to establish metrics of energy and water consumption and environmental impacts, with the goal of educating residents and developers and promoting further development of green buildings that conserve water and energy, reuse materials, install green roofs, provide green space, and meet other standards of environmental sustainability.

The Leadership in Energy and Environmental Design (LEED) Green Building Rating System™ is the nationally accepted benchmark for the design, construction, and operation of high performance green buildings. LEED gives building owners and operators tools to have immediate and measurable impacts on their buildings' performance. LEED promotes a whole-building/site approach to sustainability by recognizing performance in five key areas of human and environmental health: sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality. Specific LEED programs include:

- New Commercial Construction and Major Renovation projects
- Existing Building Operations and Maintenance
- Commercial Interiors projects
- Core and Shell Development projects
- Homes
- Neighborhood Development
- Guidelines for Multiple Buildings and On-Campus Building Projects
- LEED for Schools
- LEED for Retail

Low Impact Development (LID) refers to storm water management techniques that try to mimic the natural hydrology of a site, using small-scale practices that retain, filter, infiltrate or collect storm water on site for reuse, instead of collecting it in a sewer system and discharging it into surface water bodies. LID reduces storm water volumes and promotes groundwater recharge, protecting water quality and groundwater supplies. Because many LID techniques have vegetation incorporated into their design, they offer aesthetically pleasing storm water management methods that can have the additional benefit of enhancing property values. LID techniques include rain gardens, vegetated swales, dry wells, cisterns for rainwater collection, pervious parking surfaces and green roofs.

RIPDES Permits

There are sixteen active Rhode Island Pollutant Discharge Elimination System (RIPDES) permits located in Providence. Detailed information on the program can be found here:

<http://www.dem.ri.gov/programs/benviron/water/permits/ripdes/stwater/>

A.4 The Built Environment

The City of Providence is unique in its historic character and culture. Historically significant areas and structures appear throughout the City. The City recognizes that its rich historic and cultural resources are an asset, and need to be preserved and enhanced; steps need to be taken to protect the City's heritage.

The downtown area, listed on the National Register of Historic Places, is rich in historic resources, with elaborate buildings and facades and open spaces. Hundreds of buildings and a number of districts in Providence are listed on the state as well as the national registers. The City has created several local historic districts to protect some of these assets. Examples of Providence's rich historic and cultural heritage include the State Capitol Building, City Hall, the College Hill Historic District, Roger Williams Park, and over twenty additional National Register historic districts and other various architectural points of interest.

In the City of Providence the historic movement was initiated by various local private social organizations. This movement culminated in 1956 with the establishment of the Providence Preservation Society (PPS). The Society was formed by concerned citizens in response to widespread demolition, resulting from active urban renewal and highway construction programs.

In 1956, the PPS joined forces with the City Plan Commission and applied for a federal pilot grant to explore ways to protect the architecture of College Hill. The primary result of the study was the designation of the College Hill Historic District, as well as the creation of the City's Historic District Commission. The Commission regulates all changes made to buildings within local historic districts.

Following the passage of the National Historic Preservation Act in 1966, a federal/state coalition was formed. In response to the 1966 legislation, the Rhode Island Historical Preservation Commission (RIHPC) was created in 1968. Over the years RIHPC has conducted surveys citywide to identify properties with historical and architectural significance. There are over 3,400 of these properties. A number of neighborhood reports have been completed, as well as a book entitled "Providence: A Citywide Survey of Historic Resources." To date the RIHPC has nominated several thousand buildings to the National Register of Historic Places including 25 historic districts and over 90 individual properties in Providence. The coordination of and development review within these districts is the responsibility of the Rhode Island Historical Preservation Commission which implements the requirements of the National Historic Preservation Act. If a local district is included in a National District, the local historic district commission must review and approve all exterior renovations.

National Register Districts

1. Andrew Dickhaut Cottages Historic District
2. Blackstone Boulevard Realty Plat Historic District
3. Blackstone Canal Historic District
4. Blackstone Park Historic District
5. Bridgham/Arch Street Historic District
6. Broadway-Armory Historic District
7. College Hill Historic District
8. Custom House Historic District
9. Downtown Providence Historic District

10. Doyle Avenue Historic District
11. Elmgrove Gardens Historic District
12. Elmwood (northern section) Historic District
13. Freeman Plat Historic District
14. Hope Street Historic District
15. Moshassuck Square/American Screw Company Factories Historic District
16. Oakland Avenue Historic District
17. Olney/Alumni Avenue Historic District
18. Parkis Comstock Historic District
19. Pekin Street Historic District
20. Pine Street Historic District
21. Power Street-Cooke Street Historic District
22. Providence Jewelry Manufacturing District
23. Rhodes Street Historic District
24. Roger Williams Park Historic District
25. Stimson Avenue Historic District
26. Summit Historic District
27. Trinity Square Historic District
28. Wanskuck Mill Village Historic District
29. Wayland Historic District
30. Wesleyan Avenue Historic District
31. Westminster Street Historic District

Local Historic Districts

In addition to the national register districts, nearly 90 districts and individual properties in Providence have been identified as potentially eligible for nomination to the National Register of Historic Places. A number of other areas and properties within the city need further evaluation to determine their potential eligibility for nomination to the National Register of Historic Places and the State Register. These have been well documented by the Rhode Island Historical Preservation Commission. See Map A.6 Existing Historic and Cultural Resources and Map A.7 Top Historic and Cultural Resources for more information on the City's historic districts and sites.

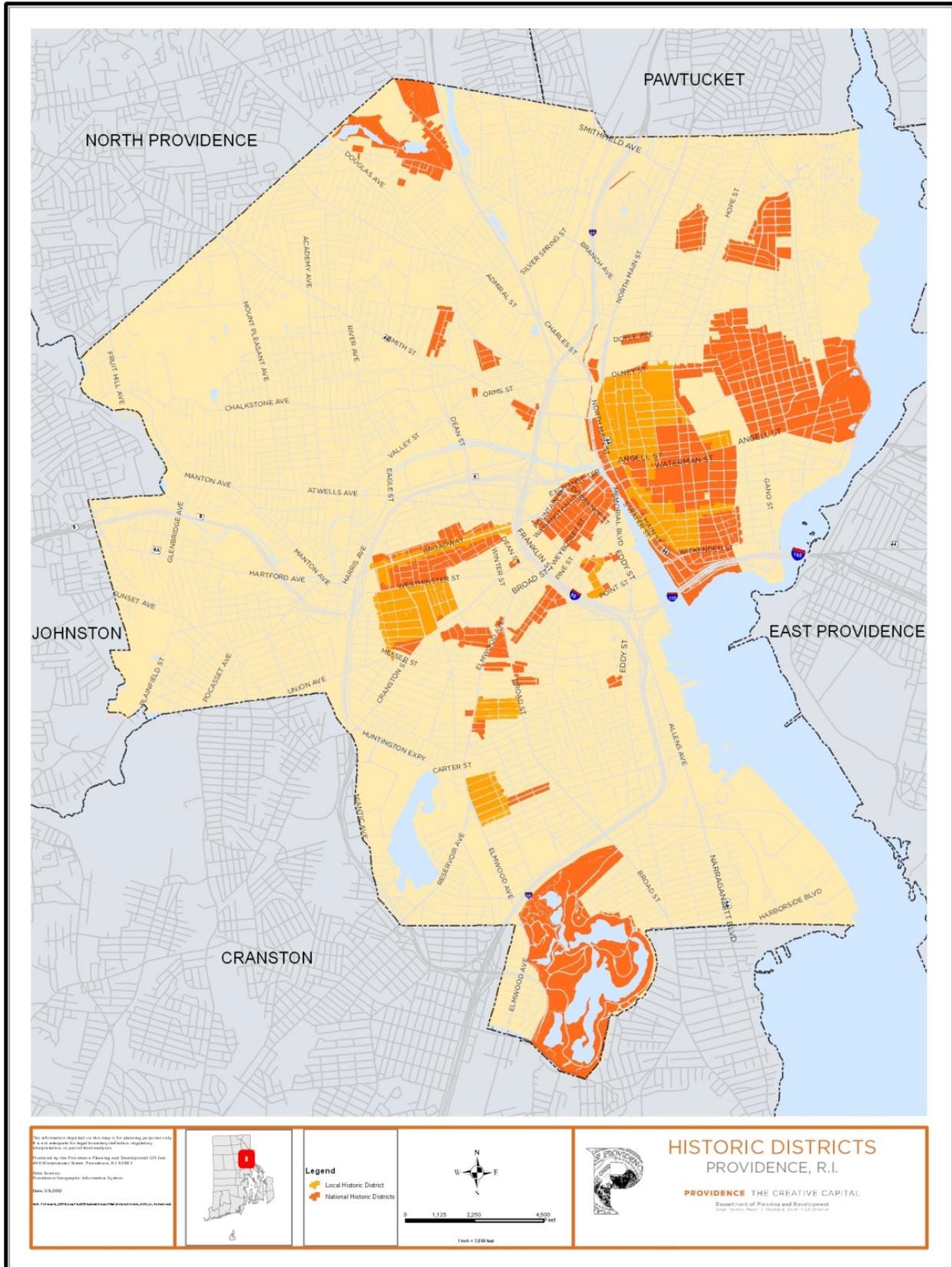
The Providence City Council to date has designated eight areas as local historic districts (See Map A.5 Historic Districts). These districts fall under the purview of the Providence Historic District Commission. Structures within the boundaries of these districts may not be altered, repaired, moved, constructed or demolished without review and approval by the Historic District Commission. These districts are:

- College Hill Historic District -Designated 1960; expanded 1990. Approximately 945 properties. College Hill is the site of Providence's original settlement in 1636, and it contains the most distinguished historic architecture in the city. Its name derives from the steep hill rising from the east bank of the Providence River. The district is primarily residential, with commercial uses lining its western edge along the river; institutions such as Brown University and the Rhode Island School of Design have also played a major role in the neighborhood's development. The College Hill Historic District contains a wide range of architectural styles, from early colonial to early 20th century three-family houses.
- Stimson Avenue Historic District -Designated 1981. Approximately 32 properties. Stimson Avenue is a quiet residential enclave located on the City's East Side, east of Hope Street. Its collection of Queen Anne and Colonial Revival single-family homes, built in the 1880s and 1890s, is largely unaltered in

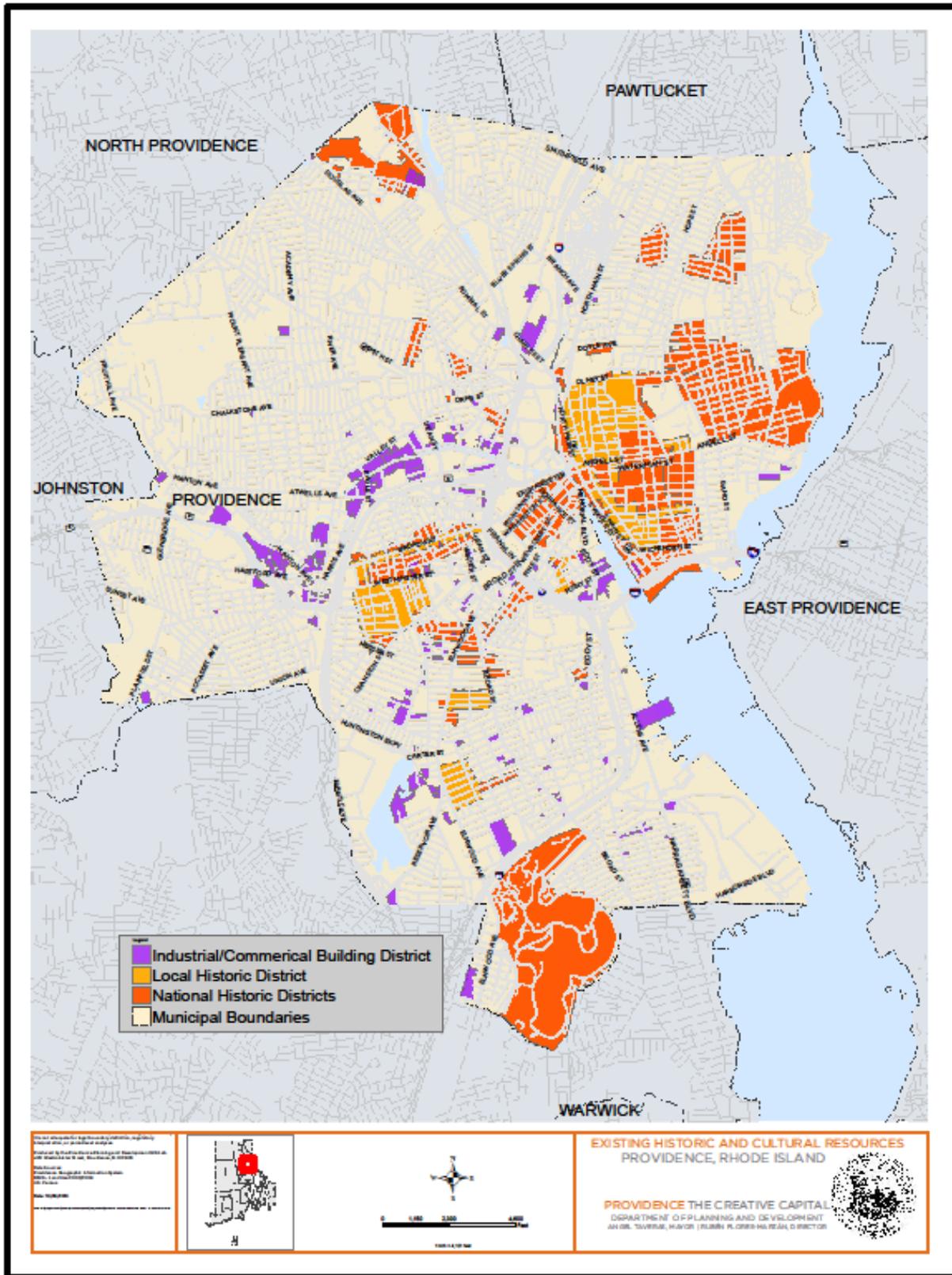
appearance or use, making this district one of the finest and most intact late-19th century residential areas in the city.

- **Broadway Historic District** -Designated 1982. Approximately 164 properties. Located in the Federal Hill neighborhood west of downtown, Broadway was widened to 80 feet in 1854, making it the broadest street in the city. With its ample lots and easy access to downtown, it quickly became one of Providence's most fashionable addresses. By the end of the 19th century Broadway was lined with a procession of large, elaborate mansions in a variety of architectural styles (Greek Revival, Second Empire, Queen Anne, Colonial Revival and others), erected by Providence's increasingly wealthy merchants and manufactures. Many of these buildings have since been divided into apartments or converted to commercial use, but Broadway retains much of its Victorian character.
- **Armory Historic District** -Designated 1989, expanded 2004. Approximately 509 properties. The fortress-like Cranston Street Armory 1907 and adjacent Dexter Parade Ground (a large open space formerly used as a military training field) are the focal points of the Armory District, a residential neighborhood located in Providence's West End. Most of the one-and two-family houses were built in the mid to late 19th century; the district contains examples of Greek Revival, Queen Anne, and the Second Empire styles. The neighborhood is the focus of concerted and successful private-sector preservation efforts by the Providence Preservation Society Revolving Fund and the Armory Revival Company.
- **North and South Elmwood Historic Districts** -South: Designated 1991. Approximately 148 properties. North: Designated 1992. Approximately 123 properties. The Elmwood neighborhood, on the West Side of Providence, developed in response to Providence's booming industrial development in the late 19th century. With easy access to the factories, the West End and businesses downtown, it was home to artisans, clerks, managers, merchants, industrialists, and business people. Its building stock consists primarily of one-and two-family houses set on large lots; commercial development occurred along the main thoroughfares of Elmwood Avenue and Broad Street. Both Elmwood districts contain distinguished examples of varying architectural designs from the late Victorian era.
- **Jewelry District** -Designated 1991. Approximately 25 properties. The Jewelry District is a small but intact fragment of a once-larger manufacturing center that today is residential, commercial and industrial in use. The district includes industrial structures and factories ranging in date from 1830 to 1930.
- **Industrial and Commercial Buildings District** -Designated and expanded 2002. Approximately 275 properties. The Industrial & Commercial Buildings District, or ICB, is the nation's first non-contiguous local historic district. This district is composed of mid-19th to 20th century industrial and commercial buildings throughout the city. The buildings in this district are reviewed by the Historic District Commission for Demolition and Major Alterations only. The landmark status provides various city, state & federal incentives for rehabilitation and development of these landmark buildings.

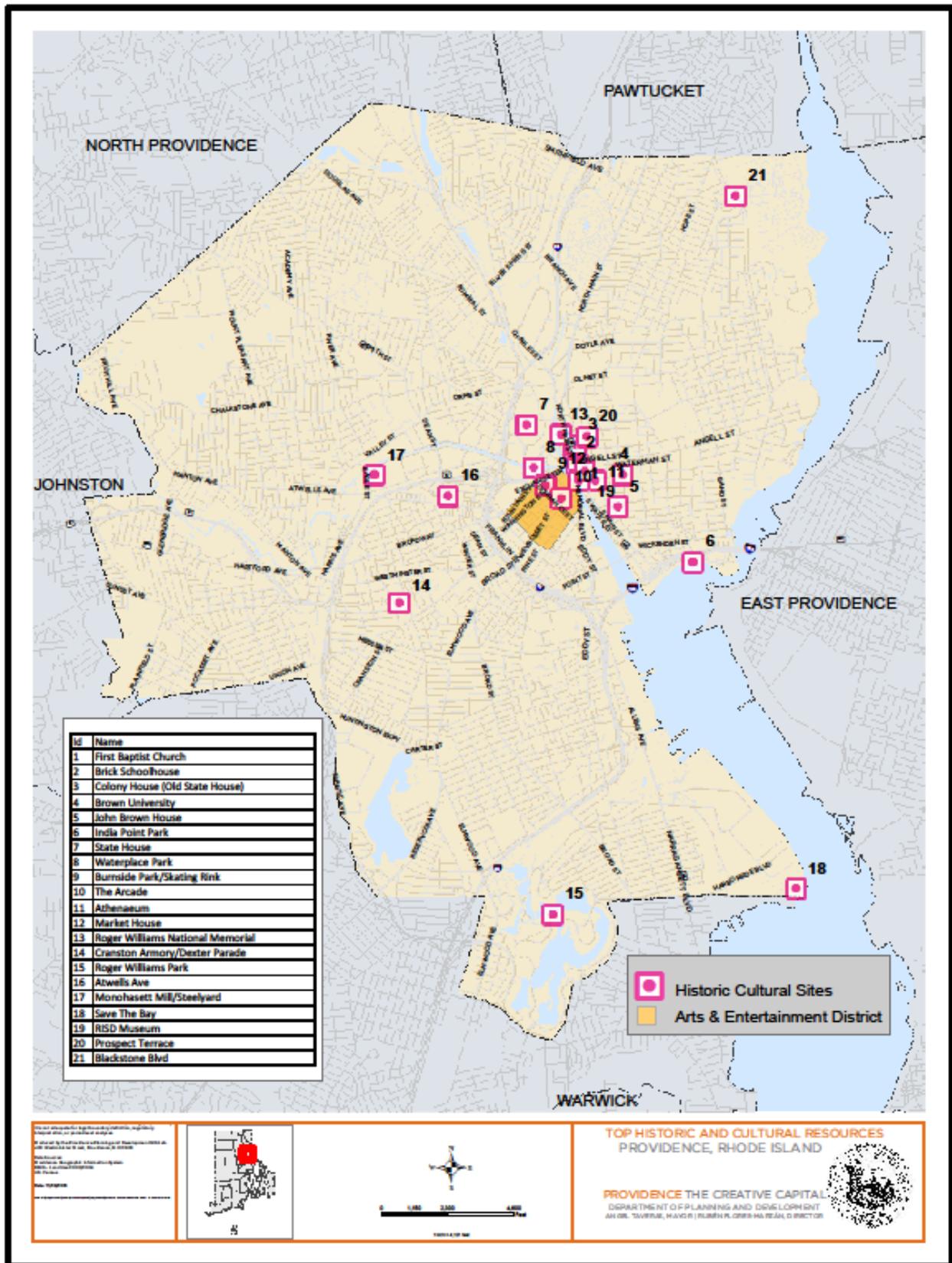
Map A.5 Historic Districts



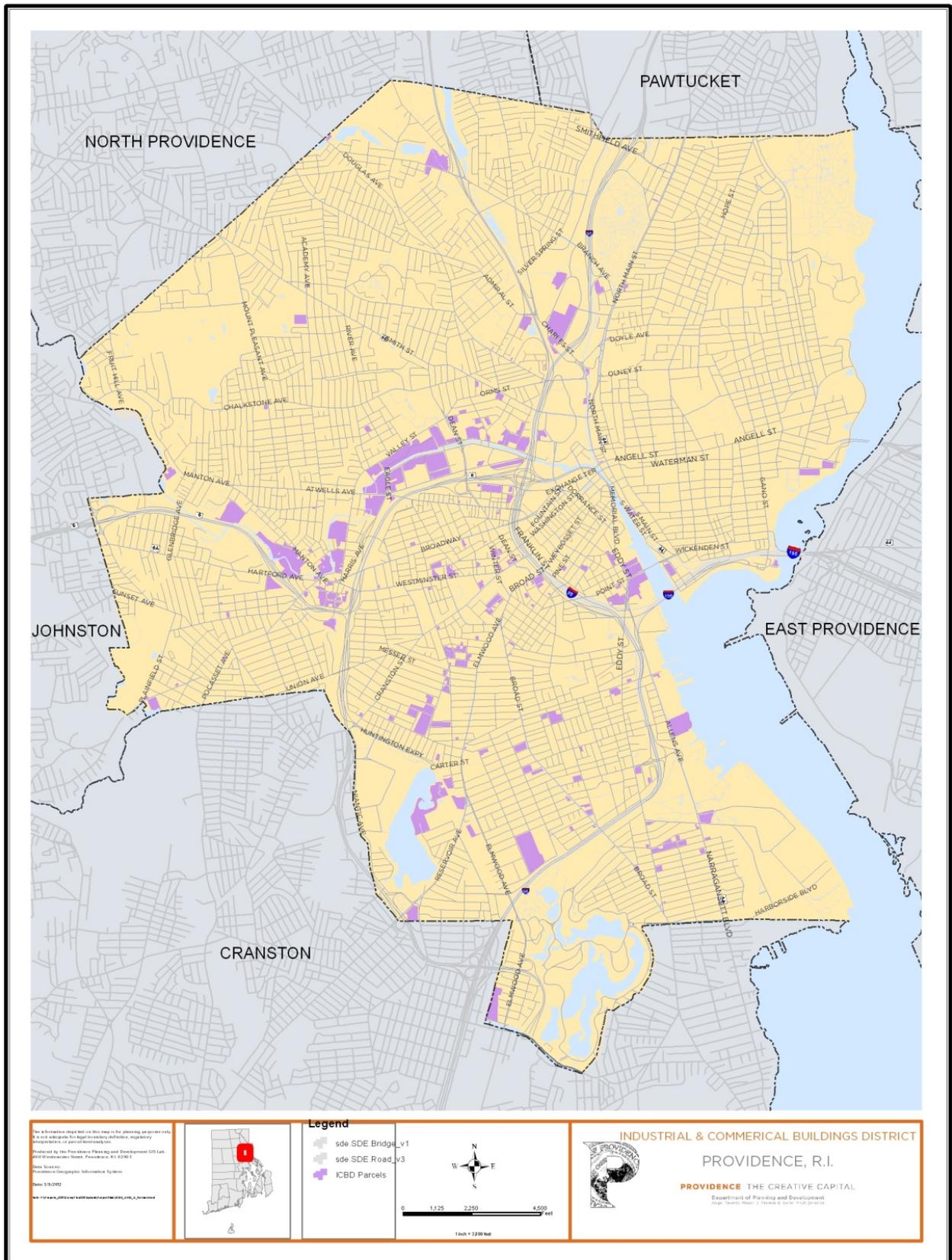
Map A.6 Existing Historic and Cultural Resources



Map A.7 Top Historic and Cultural Resources



Map A.8 Industrial and Commercial Buildings District



In June, 1988 the State Legislature passed an amendment to the Enabling Legislation (45 24.1) dealing with historic areas. The amendment, among other things, allows cities and towns to specify individual historically significant structures for protection and clarifies the powers and duties of local historic district commissions.

In all historic districts property owners are encouraged to adhere to the Secretary of the Interior's "Standards for Rehabilitation" and the "Guidelines for Rehabilitating Historic Buildings." Adherence to the standards is mandatory whenever federal funds are applied within the National Register historic districts.

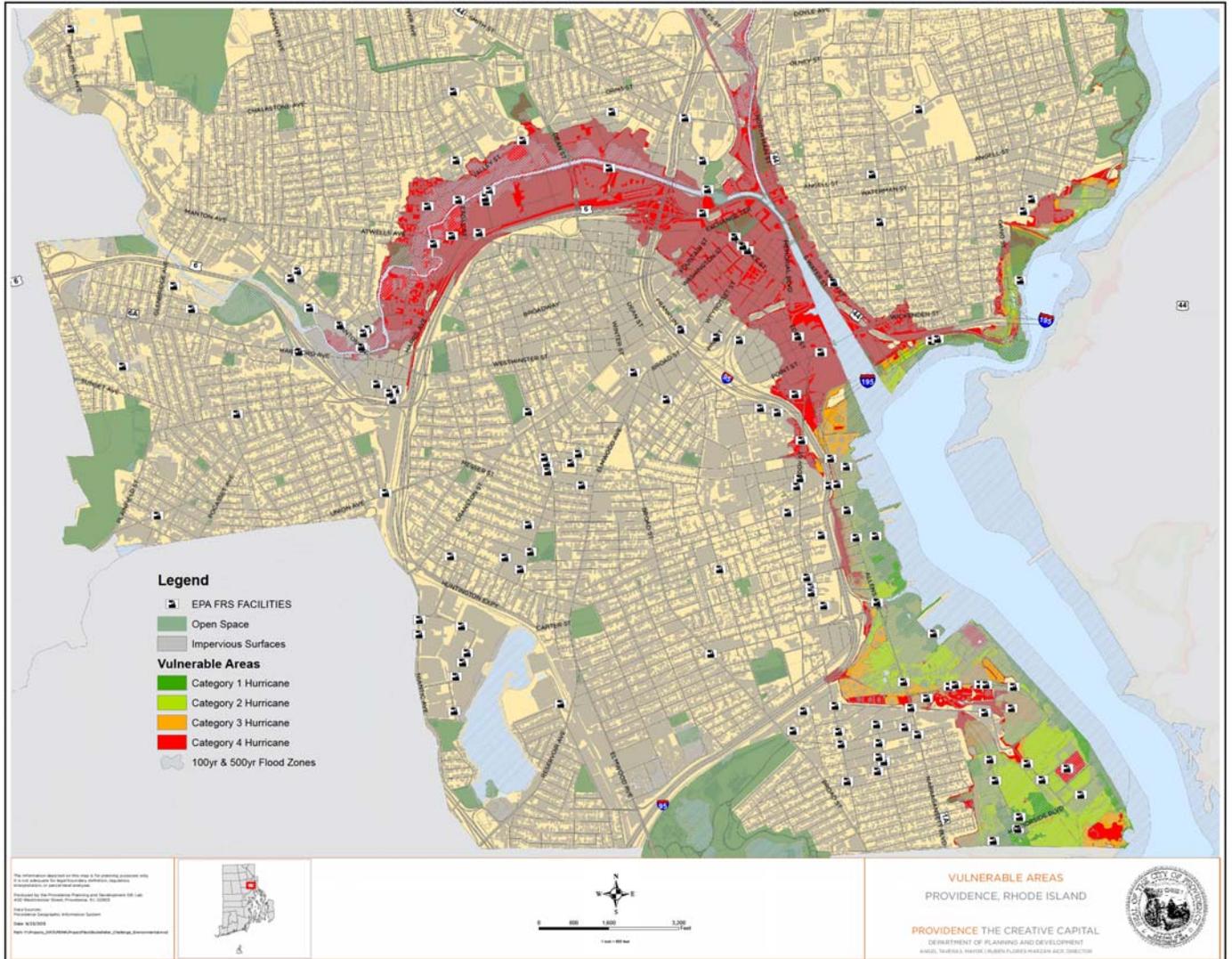
Natural Hazards and Sea Level Rise

Natural hazards, primarily floods and hurricanes, pose great threats to the City's built environment due its location at the head of three rivers and along the Atlantic coast. Despite the 1966 construction of the Fox Point Hurricane Barrier and other mitigation efforts, there are several designated repetitive loss areas throughout the City. These areas, which consist of primarily industrial and commercial properties, include Branch Avenue, Charles Street, Governor Street, India Street, Melrose Street, Manton Avenue, and Valley Street. Most recently in 2010, the City experienced the March Floods, which resulted in significant damage to over 100 homes and to Valley Street, the Atwells Avenue Bridge, and Douglas Avenue. The City is currently working with the Federal Highway Administration (FHWA), the Federal Emergency Management Agency (FEMA), and the Rhode Island Department of Transportation (RIDOT) to make the necessary repairs.

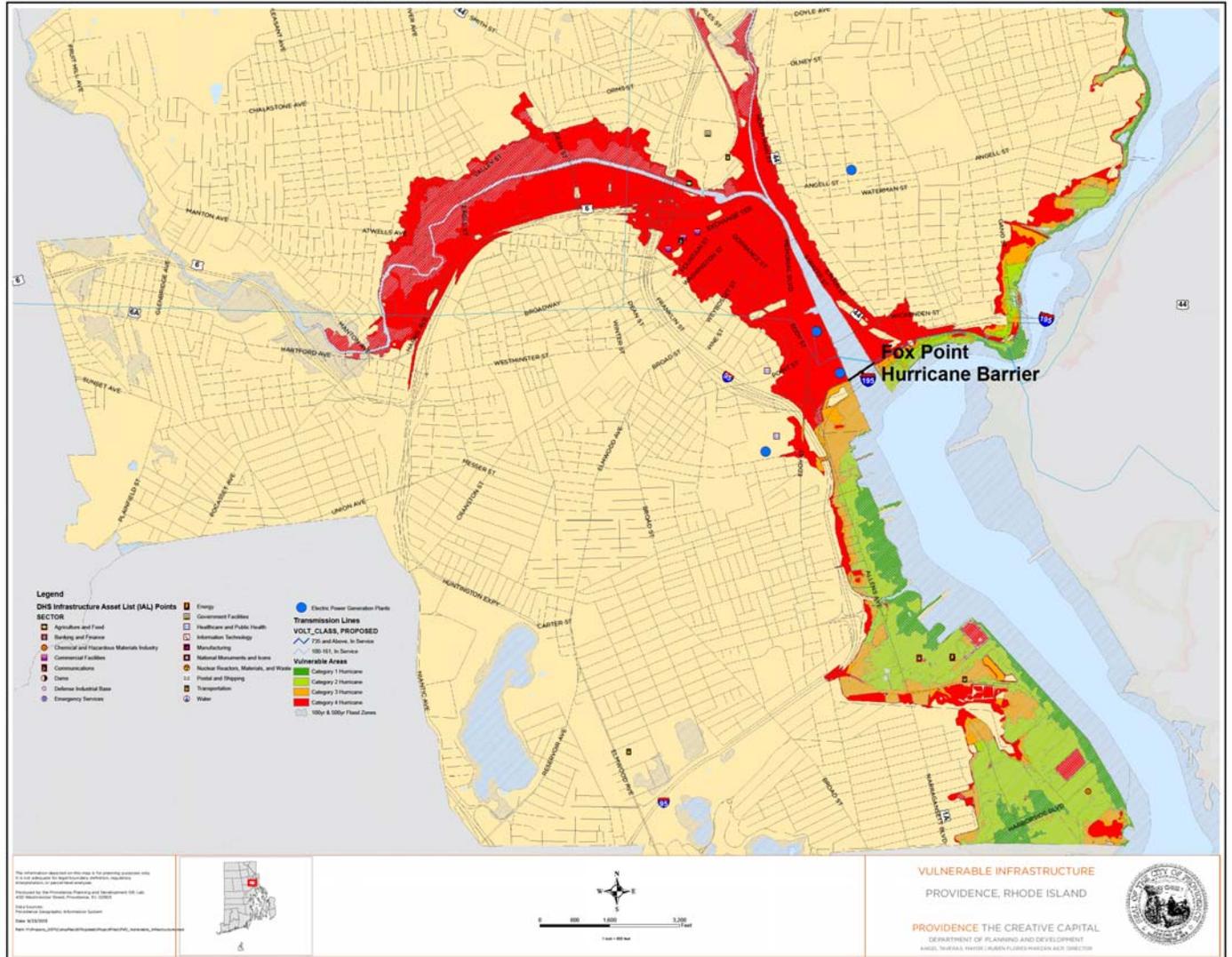
Many of the historical buildings in the flood zone have not been brought up to current floodplain standards and this is one of the City's main concerns. Additionally, the City is extremely vulnerable due to the low mean sea level of +6.20 feet and the Providence River's mean sea level of +3.50 feet. While typically only causing minimal structural damage, hurricanes can also result in significant damage to the built environment in terms of roads and sewer systems. Hurricane storm surges can result and create surge elevations up Narragansett Bay towards the City and East Providence. The Fox Point Hurricane Barrier was constructed to protect the Downtown area from storm surges, however, it only protects against the surge likely to be generated by a Category 4 Hurricane impact in the region. It also should be noted that both India Point Park and ProvPort would be affected by all surges regardless of the hurricane category. See Map A.9 Vulnerable Areas, Map A.10 Vulnerable Infrastructure, and Map A.11 Business Vulnerability for specific areas and properties of hurricane impact.

For the City's Hazard Mitigation plan, the Local Hazard Mitigation Committee (LHMC) created a Hazard Risk Assessment Rubric to determine the relative threat of a hazard and its potential consequences (See Table A.15 Hazard Risk Assessment Rubric: Natural Hazards). This plan also includes a Risk Assessment Matrix of identified vulnerable areas within the city (See Table A.16 City of Providence Risk Assessment Matrix).

Map A.9 Vulnerable Areas



Map A.10 Vulnerable Infrastructure



Map A.11 Business Vulnerability

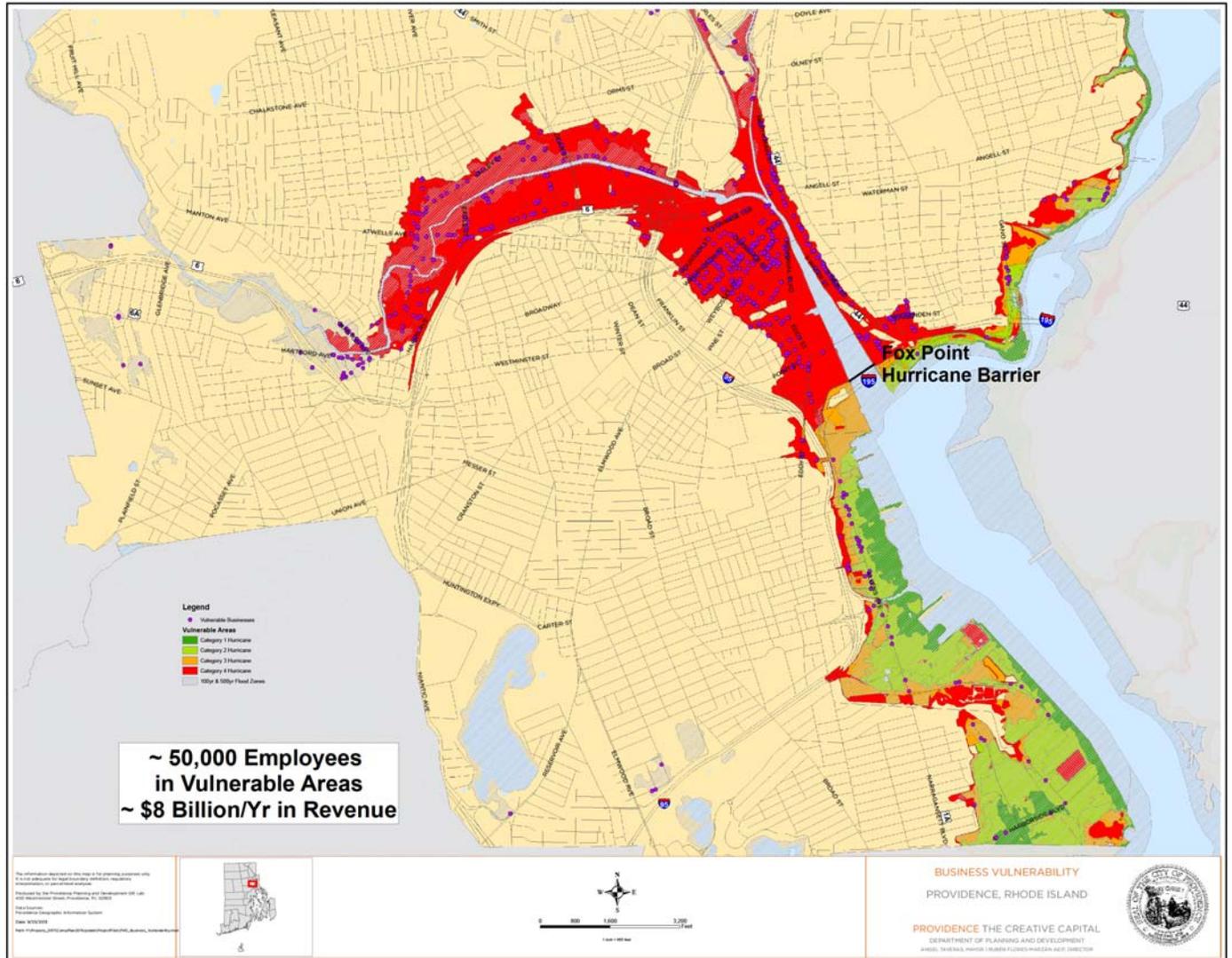


Table A.15 Hazard Risk Assessment Rubric: Natural Hazards

Event	Probability	Severity = (Magnitude - Preparedness)				Risk	
		Human Impact	Property Impact	Business Impact	Preparedness		
	<i>Likelihood this will occur</i>	<i>Possibility of death, injury, or illness</i>	<i>Physical losses and damages</i>	<i>Interruption of Services</i>	<i>Preplanning</i>	<i>Relative Threat</i>	
Score	0=NA 1=Low 2=Moderate 3=High	0=NA 1=Low 2=Moderate 3=High	0=NA 1=Low 2=Moderate 3=High	0=NA 1=Low 2=Moderate 3=High	0=NA 1=Low 2=Moderate 3=High	0=NA 1=Low 2=Moderate 3=High	0-100%
Hurricane	3	2	3	3	2	83%	
Flooding	3	3	3	3	1	83%	
Winter Storm	3	1	2	2	2	58%	
Nor'easter	3	1	2	2	2	58%	
Communicable Disease	3	3	0	2	2	67%	
Extreme Temperatures	3	2	2	1	2	50%	
High Winds	3	1	1	1	2	42%	
Ice Storm	2	1	2	2	1	33%	
Earthquakes	2	1	1	1	1	22%	
Drought	2	1	1	1	1	22%	
Severe Thunderstorm	3	0	1	1	0	17%	
Tornado	1	1	2	1	1	14%	
AVERAGE SCORE	2.8	1.1	1.3	1.3	1.6	41%	

Source: Strategy for Reducing Risks from Natural Hazards in Providence, Rhode Island: A Multi-Hazard Mitigation Plan

Table A.16 City of Providence Risk Assessment Matrix

	Vulnerable Areas (in order of priority)	Location	Ownership	Natural Hazard	Primary Problem/Effect	Mitigation Objective	Risk H - Historical P - Potential
1	Hurricane Barrier	Fox Point	Army Corps	Possible earthquake damage	Public safety will be compromised; significant flooding of the downtown and adjacent areas. Maintenance of pumps is required	Protection of life and property	P
2	A-V Zone properties (includes historic properties)	Citywide as shown on flood maps	Public and private	Flooding and wind damage	Structures not meeting current code requirements	Protection of life and property	H
3	Other Fields Point sites: a) Port of Providence b) Johnson & Wales University c) Other	Fields Point	Private contract with City agency	Flooding, storm surge and wind	Threat to shipping and port operations, business and properties	Uninterrupted port operations have economic benefits to the City	H
4	Local & Interstate Highway Bridges	See Action Plan	Public	Flooding, storm surge, wind damage and earthquake damage	Loss of access, disruption of evacuation routes	Safe evacuation, if needed	H 1938 and 1954 City was flooded
5	City Hall / Other Public Properties	City Hall - 25 Dorrance Street DPW & Traffic Engineering - Allens Ave and Ernest Street	Public	Flooding, ice damage, possible earthquake, storm surge	Water damage to City records, data, land evidence records, vital statistics, computer operation and the like	Protection of essential public services	H

6	Tree Trimming and Debris Management Program	Citywide	Public and private	Wind	Flying debris, blockage of roads, disruption of essential services, hazard to people and property; potential loss of life, downing of power lines	Protection of property	H
7	Buildings having archaic structural systems	Citywide: - High rise (laterally structured) - Low rise (weight supported) - Public safety buildings	Public & Private	Flooding and storm surge	Hazard to people and property; potential loss of life, disruption of essential services and financial institutions	Protection of life and property, maintenance of essential commercial activity	P
8	Public Buildings and Critical Infrastructure	Neighborhood fire station, Fire Engine 14 Atwells Avenue, PEMA EOC	Public	Flooding, storm surge, and hurricane winds	High risk to critical facilities	Critical facilities preserved	P
9	Narragansett Bay Commission (NBC) Sewage Treatment Plant	Fields Point	NBC	Flooding, fire, storm surge, earthquake damage to structures and systems	Severe public health hazard resulting from disruption of sewage treatment plant including pollution of upper Narragansett Bay	Protection of public health and decrease risk to interruption of essential services. Uninterrupted power supply	P

A.5 Business and Jobs

Introduction

The employment and incomes of Providence residents are examined through the characteristics of the working age population, including their occupations, education level, language skills, and commuting patterns. The strength and composition of the employment market, along with transportation options and workforce training, are also major determinants of job selection and realized earnings. As home to several colleges and universities, the City has great potential to foster a formidable workforce of creative and high-skilled workers. However, with disconcertingly high rates of poverty and high school dropout, challenges remain to improve adult education and public school achievement in order to raise the earning potential of the current and future labor force.

Labor Force Participation and Unemployment

The labor force participation rate is the percentage of working-age people (age 16 to 64) who are either currently employed or are unemployed and looking for work. The participation rate of 57.7 percent in 2010 was three percent less than a decade prior but quite similar to historic levels evidenced by the 1970 and 1980 censuses (see Table A.17 Providence Labor Force Size and Participation Rate, 1970-2010). About three out of every five working-age people in Providence are either employed or active job seekers.

Table A.17 Providence Labor Force Size and Participation Rate, 1970-2010

Year	Number in Labor Force	Participation
1970	78,283	57.6%
1980	72,471	57.9%
1990	76,328	60.5%
2000	76,833	57.7%
2010	89,381	63.4%

Source: US Census, 2006-2010 American Community Survey

The unemployment rate is the percentage of the labor force that is currently unemployed. The annual average unemployment rate represents the mean of twelve monthly unemployment calculations. In calendar year 2011, an average of almost 23,000 members (12.8 percent of the Providence labor force) were unemployed (see Table A.18 Annual Average Unemployment Rate (unadjusted) in Providence, 1990-2011). The city's unemployment rate is more than double what it was in the year 2005 demonstrating the impact the recession has had on the Providence workforce.

Table A.18 Annual Average Unemployment Rate (unadjusted) in Providence, 1990-2011

Year	Number in Labor Force	Number Unemployed	Unemployment Rate	Unemployment Rate-Rest of R.I.
2011	79,763	10,734	13.4%	10.4%
2010	80,525	11,046	13.7%	11.6%
2009	79,056	10,185	12.9%	10.8%
2008	79,503	7,397	9.3%	7.7%
2007	79,539	5,169	6.5%	5.3%

2006	79,754	5,056	6.3%	5.1%
2005	79,616	5,033	6.3%	4.8%
2004	78,492	4,985	6.4%	5.0%
2003	79,236	5,333	6.7%	5.2%
2002	77,653	4,874	6.3%	4.9%
2001	76,492	4,495	5.9%	4.3%
2000	76,194	3,974	5.2%	4.0%
1999	72,983	3,964	5.4%	4.0%
1998	72,597	4,234	5.8%	4.4%
1997	72,933	4,796	6.6%	5.0%
1996	71,393	4,809	6.7%	5.1%
1995	70,645	5,305	7.5%	6.0%
1994	69,750	5,570	8.0%	6.6%
1993	72,030	6,440	8.9%	7.8%
1992	73,314	7,133	9.7%	8.7%
1991	73,387	6,578	9.0%	8.0%
1990	74,786	5,130	6.9%	6.0%

Source: R.I. DLT-Local Area Unemployment Statistics

The worker count is the subset of the labor force that is employed at the time of survey. The number of employed Providence residents has swung by 12,000 over the last five decades, with the year 2010 count of 78,093 surpassing by 3,000 workers the 1970 mark. Interestingly, while the population of Providence increased by 2.5 percent between 2000 and 2010, the number of employed residents increased by just less than 1 percent (see Table A.19 'Employed Providence Residents Age 16 and Over, 2000').

Table A.19 Employed Providence Residents Age 16 and Over, 2010

Year	Number of Workers	Percent Change
1970	74,849	-
1980	65,839	-12%
1990	69,320	5%
2000	69,676	1%
2010	78,093	10.1%

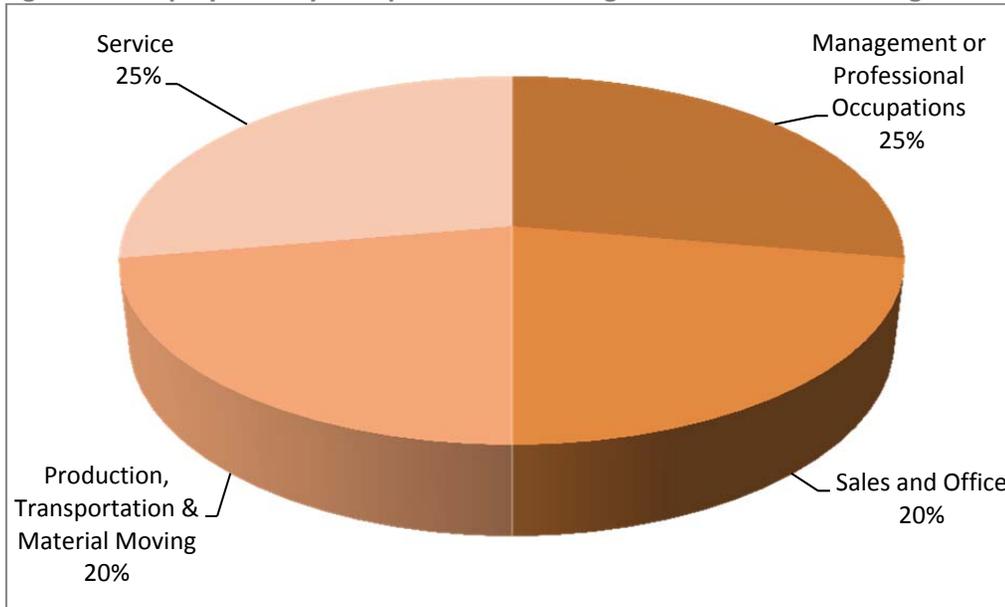
Source: US Census, 2006-2010 American Community Survey

Employment of Providence Residents

According to the 2010 Census, over one-third of Providence's working residents are employed in the Management or Professional occupations, while another twenty percent are in Sales and Office occupations (see Figure A.9 Employment by Occupation for Working Providence Residents Age 16 and Over, 2010). Just over one-fifth of working residents hold jobs in Production and Transportation related occupations; while nearly another quarter work in Service.

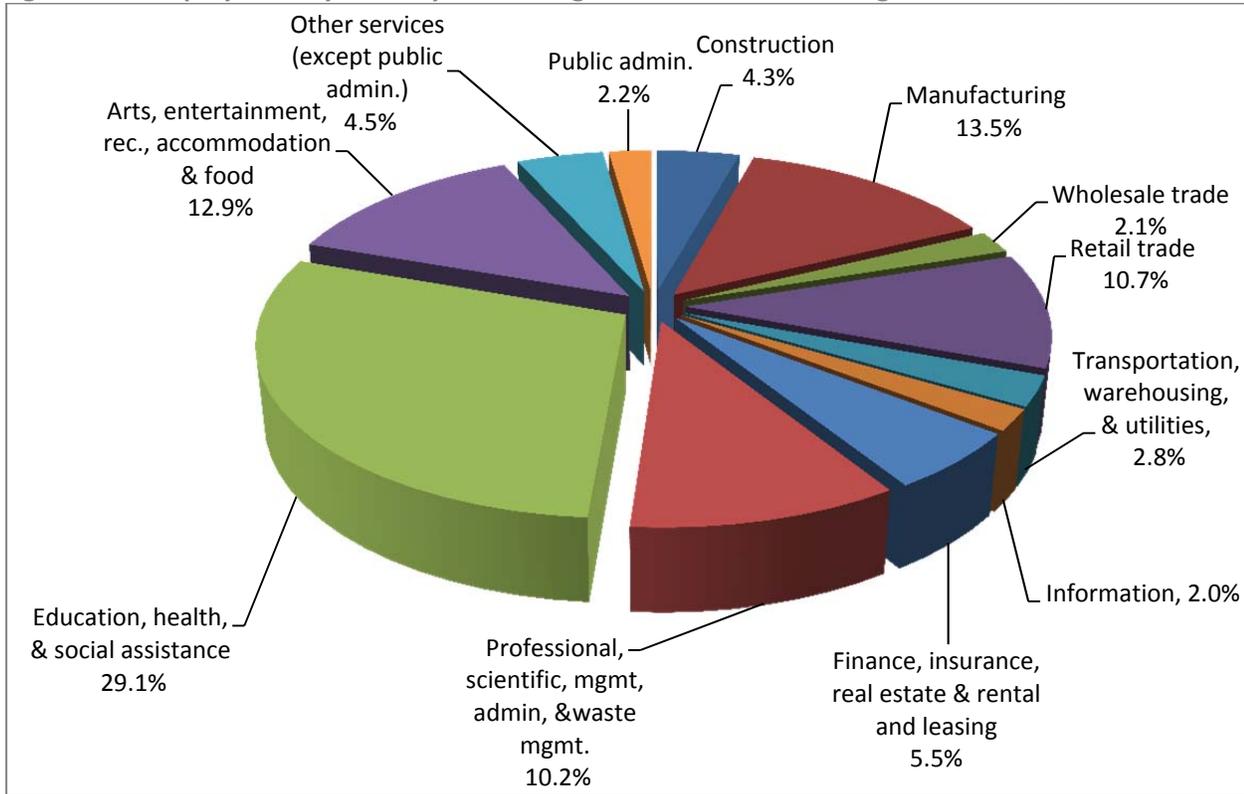
In terms of industries, over one-quarter (29 percent) of employed residents work in Education, Health, and Social Services (see Figure A.10 Employment by Industry for Working Providence Residents Age 16 and Over, 2010). The next most common industry of employment is manufacturing with 13.5 percent of all working Providence residents, followed by Arts, Entertainment, Recreation and Food at 12.9 percent. Retail (10.7%), professional, scientific, and management and administrative and waste management services (10.2%) are the only other industry divisions that provide more than 10 percent of the jobs held by Providence residents.

Figure A.9 Employment by Occupation for Working Providence Residents Age 16 and Over, 2010



Source: US Census, 2006-2010 American Community Survey

Figure A.10 Employment by Industry to Working Providence Residents Age 16 and Over, 2010



Source: US Census, 2006-2010 American Community Survey

The Rhode Island Department of Labor and Training (DLT) has prepared projections of how statewide employment will change within occupational categories over the decade of 2008-2018 (Estimates are not available at the city level.) While overall employment is projected to grow by 7.8 percent, two occupational titles are thought to be growing at least twice the rate (see Table A.20 Statewide Occupational Outlook, 2008-2018). These occupations include Computer and Mathematical (19.8 percent increase) and Healthcare Support (18.7 percent). The largest occupational category in 2008, Office and Administrative Support, is projected to grow at a modest rate (3.7 percent), while another major occupational title, Production, is the sole category anticipated to lose employment (9.7 percent decrease) between 2008 and 2018.

Table A.20 Statewide Occupational Outlook, 2008-2018

SOC Code	Occupational Title	Employment		Openings due to		Percent Change
		2008	2018	Growth	Replacements	
	Total	509,532	549,206	47,718	114,657	7.8%
11-0000	Management Occupations	24,944	26,513	1,742	5,344	6.3%
13-0000	Business and Financial Operations Occupation	21,491	24,635	3,165	3,774	4.6%
15-0000	Computer and Mathematical Occupations	10,593	12,695	2,135	2,418	19.8%
17-0000	Architecture and Engineering Occupations	8,116	8,800	702	1,821	8.4%
19-0000	Life, Physical, and Social Science Occupations	3,724	4,252	530	914	14.2%
21-0000	Community and Social Services Occupations	10,519	12,436	1,917	1,792	18.2%
23-0000	Legal Occupations	4,237	4,732	502	737	11.7%
25-0000	Education, Training and Library Occupations	31,921	35,801	3,887	6,260	12.2%
27-0000	Arts, Design, Entertainment, Sports and Media Occupations	9,195	9,853	742	2,182	7.2%
29-0000	Healthcare Practitioners and Technical Occupations	33,773	38,965	5,225	6,226	15.4%
31-0000	Healthcare Support Occupations	19,985	23,722	3,763	2,062	18.7%
33-0000	Protective Service Occupations	10,781	11,370	611	3,189	5.5%
35-0000	Food Preparation and Serving Related Occupations	47,117	51,602	4,486	18,230	9.5%
37-0000	Building and Grounds Cleaning and Maintenance Occupations	18,225	20,172	1,948	3,079	10.7%
39-0000	Personal Care and Service Occupations	18,687	21,216	2,545	4,180	13.5%
41-0000	Sales and Related Occupations	48,798	52,183	3,608	14,736	6.9%
43-0000	Office and Administrative Support Occupations	85,748	88,903	5,504	18,035	3.7%
45-0000	Farming, Fishing, and Forestry Occupations	851	897	49	198	5.4%
47-0000	Construction and Extraction Occupations	22,184	24,249	2,066	3,995	9.3%
49-0000	Installation, Maintenance, and Repair Occupations	17,168	18,015	1,002	2,804	4.9%
51-0000	Production Occupations	35,874	32,395	418	7,216	-9.7%
53-0000	Transportation and Material Moving Occupations	25,601	25,800	1,171	5,465	0.8%

Source: RI DLT-2018 Opportunities: Rhode Island's Occupational Outlook for 2018

Commuting

At the time of the 2010 Census, 60 percent of all Providence’s employed residents reported that they work in the capital city. Another 30 percent were working elsewhere in Rhode Island, and about 10 percent were employed out-of-state (see Table A.21 Work Location and Means of Commute for Working Providence Residents Age 16 and Over). Just over three-fourths of workers report commuting to work by automobile, while the next most common mode (9.4 percent) was walking to work. Public transportation as a means of commute registered at 7.9 percent.

Table A.21 Work Location and Means of Commute for Working Providence Residents Age 16 and Over

Location of Work	Percent
In Providence City	60%
In Providence County	75.2%
In Rhode Island	87%
Mode of Transit	Percent
Drove or carpooled	76.5%
Walked	9.4%
Public Transportation	7.9%
Bicycle	1.1%
Other Means	0.63%
Worked at Home	4.0%

Source: US Census, 2006-2010 American Community Survey

The City of Cranston, immediately south of Providence, is the second greatest contributor of employees to Providence businesses and the second greatest source of jobs for Providence residents. This is likely related to the large state government complex located in Cranston (see Table A.20 ‘Employment Shed and Commuter Shed’). Warwick, Pawtucket, and East Providence – in that order – are the next largest contributors of Providence-based employees, as well as jobs for Providence residents.

No city or town outside of Rhode Island is home to more than one percent of Providence-based employees, and no single municipality within the state, other than Providence itself at 31 percent, is home to more than nine percent of Providence-based employees.

Four cities in Massachusetts each provide jobs for at least one percent of Providence’s working residents, led by the 1,100 jobs in Boston proper filled by Providence residents. Overall, about 6,800 Providence residents work in Massachusetts. The exchange of commuters with the state of Connecticut is more modest, with about 500 Providence residents traveling to Connecticut and about 400 Connecticut residents coming to jobs in Providence.

In Rhode Island the employment centers other than Providence – defined as areas with more jobs than resident workers – are Newport/Middletown, Lincoln, Warwick, and West Greenwich (DLT, RIEPC).

Table A.22 Employment Shed and Commuter Shed

Where People Working in Providence Live			Where People Living in Providence Work		
Location	Number	Percent	Location	Number	Percent
Providence, RI	33,938	31%	Providence, RI	33,938	51%
Cranston, RI	10,010	9%	Cranston, RI	6,272	9%
Warwick, RI	8,130	7%	Warwick, RI	3,481	5%
Pawtucket, RI	5,801	5%	Pawtucket, RI	2,962	4%
East Providence, RI	5,163	5%	East Providence, RI	2,286	3%
North Providence, RI	4,916	4%	Johnston, RI	1,488	2%
Johnston, RI	3,273	3%	Lincoln, RI	1,216	2%
Smithfield, RI	2,342	2%	Boston, MA	1,110	2%
Coventry, RI	2,054	2%	Woonsocket, RI	1,065	2%
Cumberland, RI	2,039	2%	North Providence, RI	1,017	2%
Barrington, RI	1,992	2%	Smithfield, RI	856	1%
West Warwick, RI	1,962	2%	Cumberland, RI	624	1%
North Kingstown, RI	1,873	2%	Attleboro, MA	612	1%
Lincoln, RI	1,864	2%	West Warwick, RI	551	1%
Woonsocket, RI	1,229	1%	North Attleboro, MA	468	1%
Scituate, RI	1,197	1%	South Kingstown, RI	439	1%
Bristol, RI	1,180	1%	Fall River, MA	411	1%
Other	21,651	19%	Other	8,373	11%
Total	110,615	100%	Total	67,169	100%

Source: US Census Transportation Planning Products

The “immediate commuter shed” is defined as all census block groups wholly or partially within a 25-mile radius of Providence City Hall. Over 1.7 million people live within the immediate commuter shed, including 193,000 in the highly-sought 24 to 35 year old age group. There are nearly 300,000 adults with a Bachelor’s or advanced degree, and the employed population includes this same number employed in management and related occupations. According to the Census Bureau, households in this commuter shed have a combined income of over \$38.5 billion and the median family income is nearly \$60,000.

Industry Trends and Comparisons Over the Past Decade

Between 2002 and 2009, Rhode Island private employment grew by 2.3 percent outside of Providence while it shrank -2.1 percent within Providence. The statewide growth rate for the period was about 2.3 percent, a considerably lesser rate than all other New England states except Maine (see Table A.23 New England States Employment).

Providence trended in the same direction as the rest of the state for jobs in Construction (down), Manufacturing (down), and Retail Trade (down). However, Providence lost employment in three divisions where the rest of the state gained: Professional and Technical Services; Arts, Entertainment and recreation; and Accommodation and Food Services. Providence and the rest of the state also lost jobs in almost every category except the ones mentioned above (see Table A.24 NAICS Industry Divisions, 2005-2010).

Table A.23 New England States Employment

New England States	All Private Employment		
	2009	Change since 2002	Percent Change
Connecticut	1,468,291	58,321	3.9%
Maine	488,932	-3,860	-0.78%
Massachusetts	2,967,877	178,063	6%
New Hampshire	568,043	46,601	8.2%
Rhode Island	413,584	9,505	2.3%
Vermont	264,766	18,190	6.9%

Source: Bureau of Labor Statistics, County Business Patterns

Over the past five years, Providence lost six percent of its private employment while the rest of the state lost 20 percent, so that in 2010, Providence had almost 24 percent of all private employment in Rhode Island (see Table A.24 NAICS Industry Divisions, 2005-2010). In terms of NAICS industry divisions, Educational Services are most heavily concentrated in Providence, with 61.2 percent of statewide employment located in the city. Providence also claims at least thirty percent of statewide employment in three other industries: Information (34 percent), Administrative & Waste Services (31.3 percent), and Health Care & Social Assistance (33 percent). Additionally, Providence claims at least 25 percent of statewide in the following industries: Professional and Technical Services (29 percent), Other Services, except Public Administration (25 percent), and Government (25 percent). Given its share of overall employment, Providence has a relatively low portion of the jobs in several industries such as Wholesale Trade (13.4 percent), Retail Trade (14.2 percent), Construction (12.3 percent), Manufacturing (11.1 percent), and Transportation & Warehousing (7.3 percent).

While the rest of the state lost employment in 14 industries between 2005 and 2010, Providence saw employment decline in 16 industry divisions (not including Government), highlighted by the fall of Construction (-59 percent) and the continued fall of Manufacturing (-56 percent) – historically strong industries in the city.

Table A.24 NAICS Industry Divisions, 2005-2010

	Providence		Change since 2005	
	2010	State Share	Prov	Rest of RI
All Private Employment	91,817	23.7%	-6%	-20.9%
Utilities	0	0%	-100%	-45.7%
Construction	1,964	12.3%	-59%	-1.1%
Manufacturing	4,484	11.1%	-59%	-36.3%
Wholesale Trade	2,131	13.4%	-8%	-36.4%
Retail Trade	6,641	14.2%	-7.7%	-5.3%
Transportation & Warehousing	637	7.3%	-19%	-12.0%
Information	3,379	34.0%	-14.9%	-6.5%
Finance & Insurance	4,810	20.5%	-19.3%	-7.8%
Real Estate & Rental & Leasing	1,367	24.2%	-6.3%	-10.7%
Professional & Technical Services	6,072	29.0%	-3.2%	-19.5%
Management of Companies & Enterprises	1,524	16.3%	-28.7%	0.1%
Administrative & Waste Services	7,260	31.3%	-20.8%	6.5%
Educational Services	11,747	61.2%	14.6%	-9.1%
Health Care & Social Assistance	25,724	33%	6.2%	8.8%
Arts, Entertainment & Recreation	953	12.6%	-0.9%	7%
Accommodation & Food Services	8,035	19%	-7.1%	1.6%
Other services, except Public Administration	4,567	25%	-3.5%	-1.7%
Government	15,047	25%	0.74%	-1.8%

Source: RI DLT-Quarterly Census of Employment and Wages

The Rhode Island Department of Labor and Training (DLT) has prepared projections of how statewide employment will change within industrial sectors over the decade of 2008-2018. (Estimates are not available at the city level.) While overall employment is projected to grow by 7.8 percent, a few industrial sectors are thought to be growing at two to three times the rate (see Table A.25 'Statewide Industrial Employment Outlook, 2008-2018'). These industries include Professional, Scientific and Technical Services (29.3 percent increase and Healthcare Support (17.1 percent), The second largest industrial sector in 2008, Manufacturing, is projected as the only group to lose employment (-13.6 percent) between 2008 and 2018.

Table A.25 Statewide Industrial Employment Outlook, 2008-2018

NAICS Code	Sector Title	2008	2018	Absolute Change	Percent
	Total All Industries	509,532	549,206	39,674	7.8%
11	Agriculture, Forestry, Fishing, and Hunting	782	778	-4	-0.5%
21	Mining	220	240	20	9.1%
22	Utilities	1,111	995	-116	-10.4%
23	Construction	20,369	22,825	2,456	12.1%
33-33	Manufacturing	47,943	41,400	-6,543	-13.6%
42	Wholesale Trade	16,883	17,400	517	3.1%
44-45	Retail Trade	49,630	53,255	3,625	7.3%
48-49	Transportation and Warehousing	9,698	10,670	972	10.0%
51	Information	10,672	11,670	998	9.4%
52	Finance and Insurance	25,080	26,805	1,725	6.9%
53	Real Estate and Rental and Leasing	6,462	6,510	48	0.7%
54	Professional, Scientific and Technical Services	21,643	27,975	6,332	29.3%
55	Management of Companies and Enterprises	9,299	10,500	1,201	12.9%
56	Administrative Waste Services	23,922	26,800	2,878	12.0%
61	Educational Services	46,309	51,000	4,691	10.1%
62	Health Care and Social Assistance	77,785	91,110	13,325	17.1%
71	Arts, Entertainment and Recreation	8,050	8,750	700	8.7%
72	Accommodation and Food Services	42,833	46,300	3,467	8.1%
81	Other Services (except Public Administration)	18,250	20,100	1,850	10.1%
92	Government	32,978	32,340	-638	-1.9%
	Self-employed, Unpaid Family & Unclassified	39,575	41,708	2,133	5.4%

Source: RI DLT-2018 Opportunities: Rhode Island's Occupational Outlook for 2018.

The Providence Metro Area contains about one-tenth of New England's total metropolitan multi-tenant office supply (Table A.26 Multi-Tenant Office Supply by Major New England City, 2011).

Table A.26 Multi-Tenant Office Supply by Major New England City, 2011

Metro Area	Square Feet	Vacancy Rate
Providence	6,248,777	15.96%
Hartford	10,128,918	25.20%
Boston	71,172,311	11.90%

Source: CBRE-New England

In 2011, the City of Providence had the third lowest office vacancy rate (15.96 percent) when compared to suburban Rhode Island and both urban and suburb and areas of other New England cities such as Boston and Hartford (See Table A.27 Office Vacancy Rates, 2011).

Table A.27 Office Vacancy Rates, 2011

Area	Vacancy Rate
Suburban Rhode Island	22.30%
Providence City	15.96%
Suburban Hartford	19.70%
Hartford City	25.20%
Suburban Boston	17.80%
Cambridge	6.60%
Boston City	11.90%

Source: CBRE-New England

Almost one-third (29 percent) of Providence's downtown office space is Class-A ('Table A.28 Downtown Office Supply by Office Class, 2004).

Table A.28 'Downtown Office Supply by Office Class, 2011

Class	Square Feet	Percent of Total
Class-A	1,821,131	29%
Class-B	3,799,332	61%
Class-C	628,314	10%
Total	6,248,314	100%

Source: CBRE-New England

Between 2007 and 2011, Downtown Providence went from having about 714,000 square feet of unoccupied Class A and B multi-tenant office supply to about 826,000 square feet of unoccupied space ('Table A.29 Downtown Class A and B Multi-Tenant Office Supply, 2007-2011).

Table A.29 Downtown Class A and B Multi-Tenant Office Supply, 1999-2004

Office Square Footage	2007	2008	2009	2010	2011	Change
Total SF	5,186,389	5,215,761	5,581,581	5,490,932	5,620,463	434,074
Occupied SF	4,472,472	4,462,953	4,667,113	4,496,111	4,794,031	321,559

Source: CBRE-New England

A comparison of the availability and lease rates of office space in various areas of Downtown Providence and other areas of Rhode Island are shown in Table A.30 Multi-Tenant Office Supply, Downtown 2011 and Table A.31 Multi-Tenant Office Supply, Suburbs 2011.

Table A.30 Multi-Tenant Office Supply, Downtown 2011

Districts	Total SF	Avail. SF	Vacancy	Absorption	Avg. Lease Rate
Capital Center	615,190	103,587	16.84%	10,582	\$31.70
Financial	2,660,734	408,768	15.36%	-16,285	\$23.50
Westminster	475,300	61,614	12.96%	-20,909	\$19.04
South Main	138,107	8,146	5.90%	1,226	\$21.34
Randall Sq.	195,986	19,923	10.17%	417	\$20.08
Empire	522,513	0	0.00%	201,949	\$23.43
Promenade	1,195,206	314,651	26.33%	18,621	\$20.18
Jewelry (Richmond)	445,741	80,745	18.11%	-23,576	\$18.44
Total Market	6,248,777	997,434	15.96%	172,025	

Source: CBRE-New England

Table A.31 Multi-Tenant Office Supply, Suburbs 2011

Districts	Total SF	Avail. SF	Vacancy	Absorption	Avg. Lease Rate
Northern RI	1,868,967	612,549	32.77%	-1,885	\$16.06
West Bay	3,200,523	667,675	20.86%	3,738	\$18.03
East Bay	1,048,145	192,931	18.41%	13,040	\$14.28
Suburban Providence	998,073	222,568	22.30%	-29,906	\$17.19
Aquidneck Island	1,124,228	141,795	12.61%	-25,535	\$14.02
Total Market	8,239,936	1,837,518	22.30%	-40,548	

Source: CBRE-New England

Asking rents throughout the region are shown in Table A.32 Average Asking Rent per SF with Comparison Areas, 2011.

Table A.32 Average Asking Rent per SF with Comparison Areas, 2004

Area	Asking Rent per sq. ft.
Suburban Rhode Island	\$16.46
Providence City	\$22.81
Suburban Hartford	\$18.63
Hartford City	\$19.92
Suburban Boston	\$19.11
Cambridge	\$39.22
Boston City	\$41.50

Source: CBRE-New England

Port Activity

The Port of Providence is operated by ProvPort, Inc. The port is a multimodal facility for international and domestic trade with freight rail and highway access to all major cities throughout the northeastern United States and Canada. It handles bulk and breakbulk commodities such as heavy machinery, lumber, chemicals, and bulk coal and salt. ProvPort’s 105-acre site offers a variety of transshipment and storage facility options. It features:

- Six deep water berths totaling 3500 linear feet
- Three warehouses totaling 300,000 square feet with ten loading bay doors
- Over 20 acres of paved, open storage area
- On-dock rail access with three rail spurs

In 2004, ProvPort deepened its six berths to a maximum depth of 40 feet at mean low water. The project involved dredging more than six million cubic yards of material from the Providence River to return a seven mile stretch to fully authorized navigational dimensions of 40’ deep and 600 feet wide (ProvPort.com).

A.6 Housing

Housing Units

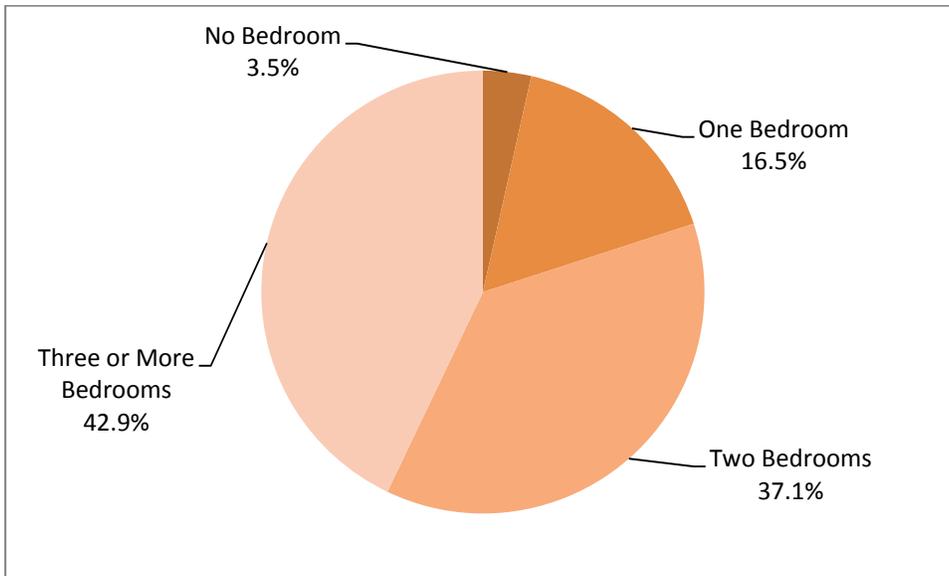
The 2010 Census counted 71,530 housing units in the city of Providence, a five percent increase from 2000. By far the largest unit type increase was the “three or more bedrooms”), which increased by 16.9 percent (See Table A.3 Housing Units by Type and Figure A.11 Housing Units by Type, 2010). This increase in unit type aligns with the City’s average household size of 2.63.

Table A.33 Housing Units by Type

	2000	2010	Percent Change
Three or more Bedrooms	25,852	31,095	16.9%
Two Bedrooms	25,818	27,156	4.9%
One Bedroom	12,841	11,881	-8%
No Bedroom	3,404	2,760	-23%

Source: US Census, 2000 and 2010 Decennial Census

Figure A.11 Housing Units by Type, 2010



Source: US Census, 2010 Decennial Census

Housing Density

The housing density in Providence is 6.05 units per acre of land (71,530 units/11,814 acres). The density ranges from areas with no housing to 412 housing units per acre (see Map A.12 Housing Density). Of the 11,814 acres in Providence, 6,695 have at least one unit of residential housing. When density is calculated using only residential acres density increases to 10.1 housing units per acre, or 31 housing units per block. There are thirteen blocks in the city with density over 100 units per acre. Viewed at a larger scale, Providence has a density of 3,406 housing units per square mile.

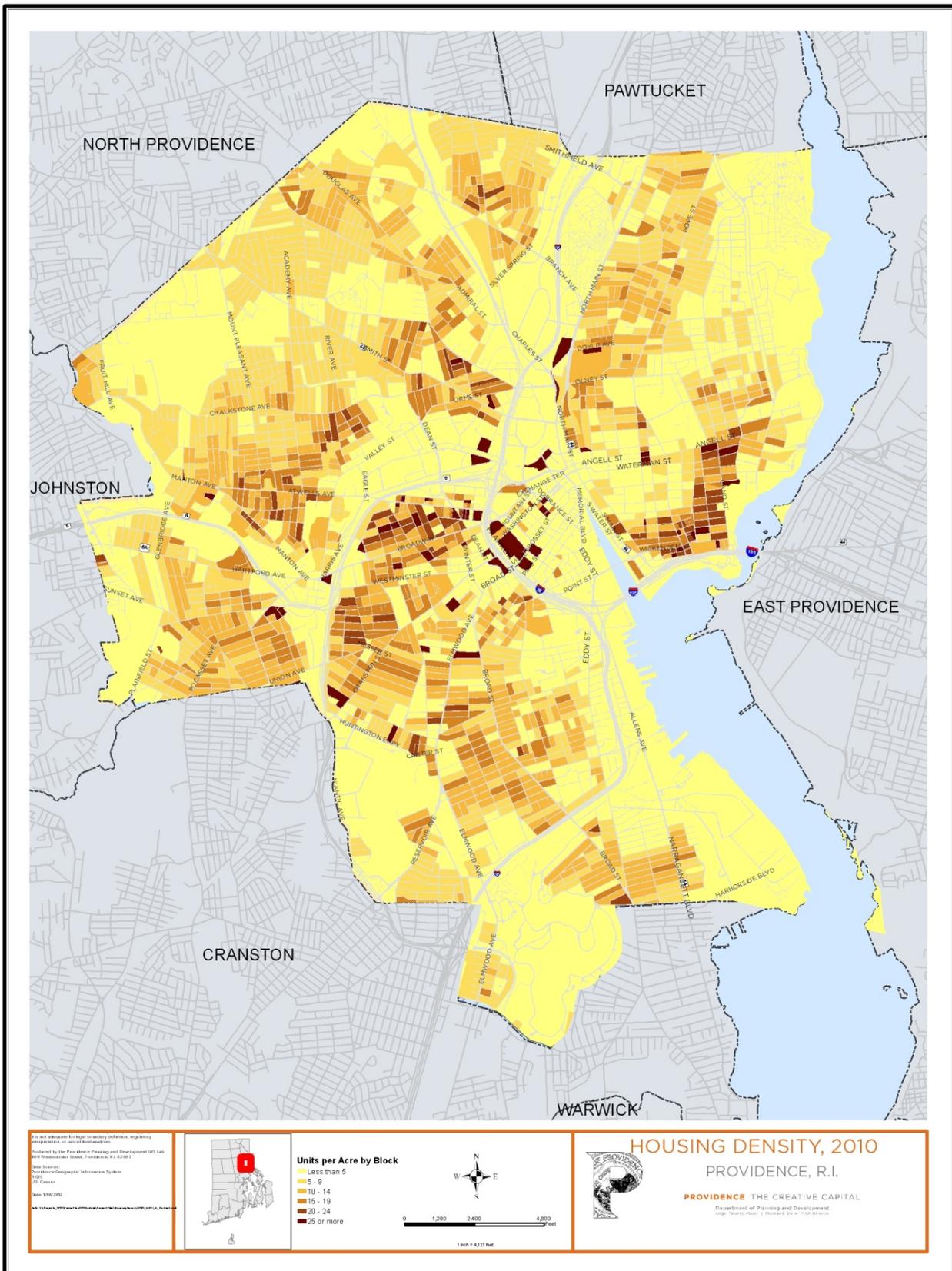
Housing Occupancy & Vacancy

The overall vacancy rate for the city increased from 8.1 percent in 2000 to 15 percent in 2010. This is mostly likely due to the economic and foreclosure crisis that started affecting the City in 2007. The rental vacancy rate has increased to nine percent and the homeowner vacancy rate has risen to just over four percent.

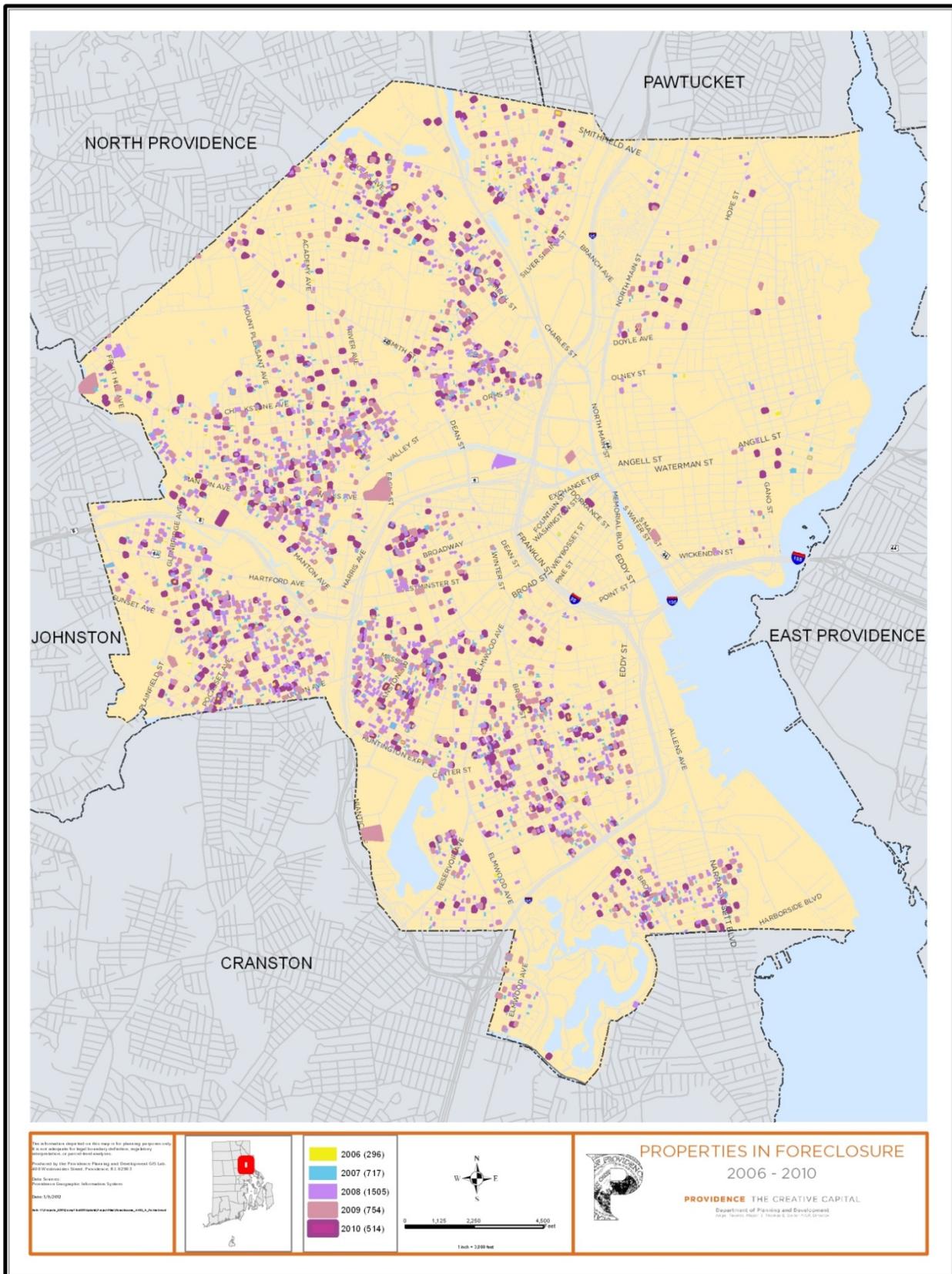
Since 2000, there has been an increase in housing units, due to development efforts in the first half of the decade. New types of housing include infill houses in residential neighborhoods, mill and commercial building conversions, and high-rise condominiums.

Since the start of the housing crisis, foreclosures have increased dramatically throughout the City (See Table A.34 At Risk Property Indicators and Map A.13 Properties in Foreclosure, 2006-2010). This has contributed to the increase in the vacancy rate mentioned above. It has also led to many of the properties being vandalized or abandoned.

Map A.12 Housing Density



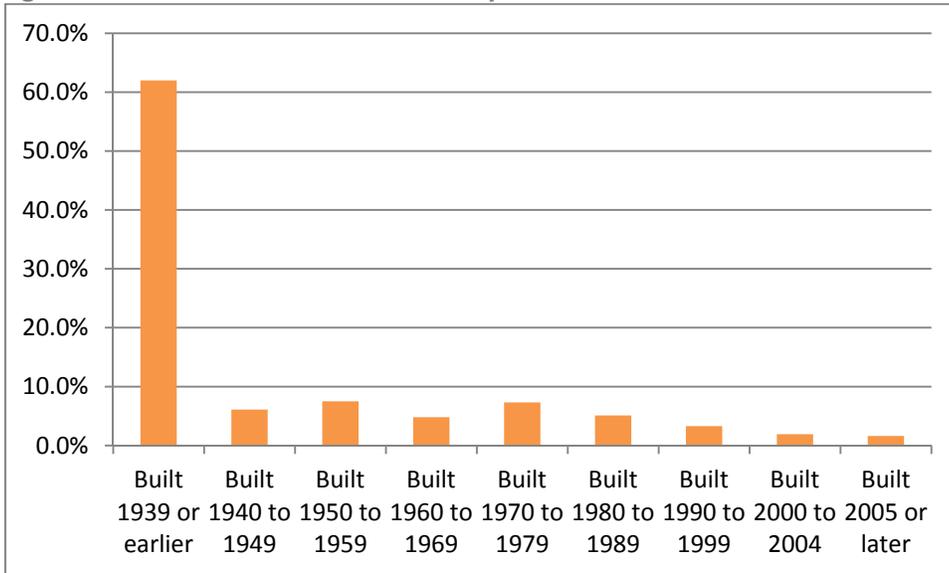
Map A.13 Properties in Foreclosure, 2006-2010



Housing Stock: Age & Quality

The majority of structures built in the City of Providence are over sixty years old (See Figure A.12 ‘Percent of Structures Built by Timeframe’). This potentially has an impact on housing costs (heating, repairs) and at-risk property indicators, such as structure fires, which rose to 318 in 2008 (See Table A.34 ‘At-Risk Property Indicators’). Lead mitigation can also increase housing costs. The 2002 Lead Hazard Mitigation Law requires owners of high risk properties meet lead safe standards.¹²⁸

Figure A.12 Percent of Structures Built by Timeframe



Source: US Census, 2006-2010 American Community Survey

Table A.34 At-Risk Property Indicators

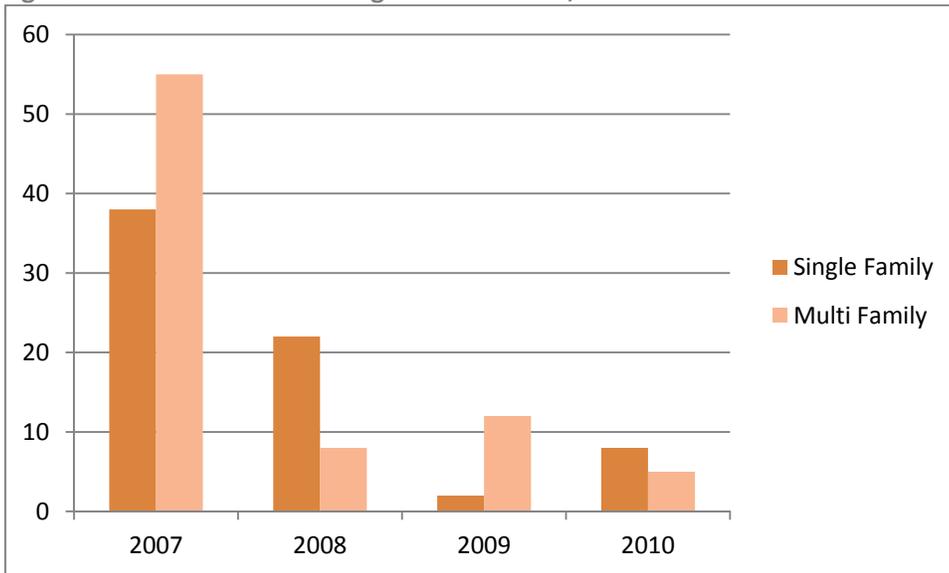
	2007	2008	2009	2010
Environmental Tickets	3,651	2,939	2,641	2,349
Foreclosures	717	1,508	754	514
Structure Fires	300	318	270	283

Source: City of Providence, Dept. of Public Works, Fire Department, Dept. of Planning and Development

Building permits for both single and multi-family dwellings dropped precipitously from 2007 to 2010. In 2007, 55 permits for multi-family dwellings were issued, along with 38 for single-family dwellings. In 2010, five permits were issued for multi-family dwellings, with eight permits being issued for single family units. This is a strong representation of the effect that the fiscal and housing crisis has had on the housing and construction industry in Providence.

¹²⁸ High risk is defined as when there have been both three and more children under age six living at the premises with at least environmental intervention blood lead levels and fifty percent of all children under age six who have ever lived at the premises who have been tested for lead, have had at least environmental intervention blood lead levels.

Figure A.13 Residential Building Permits Issued, 2007-2010

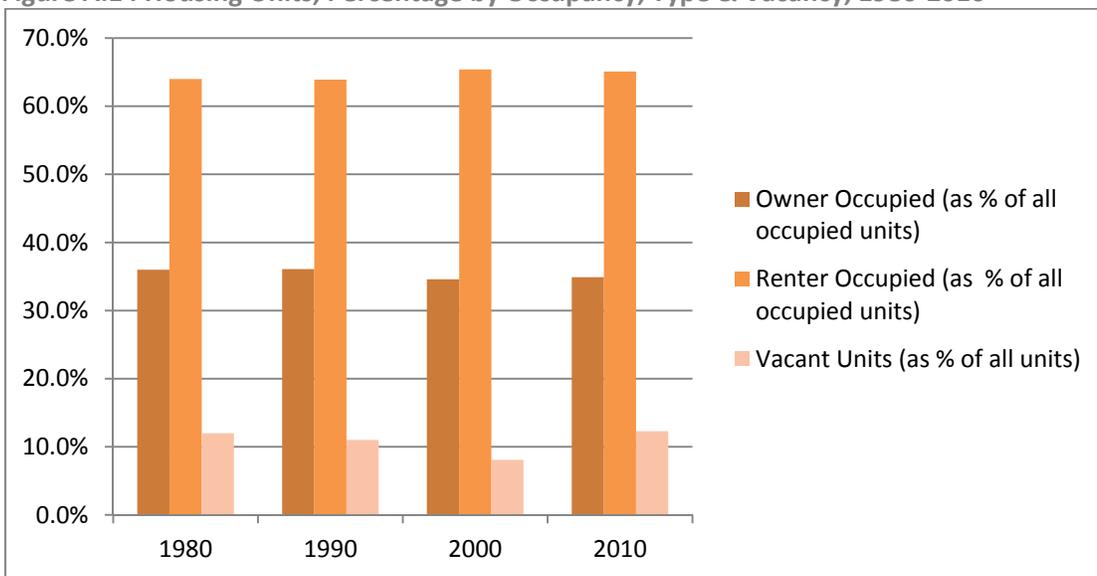


Source: City of Providence, Department of Inspections and Standards

Homeownership

The homeownership rate overall in 2000 was 34.6 percent, it has since increased slightly to 36.9 percent in 2010 (See Figure A.14 ‘Housing Units, Percentage by Occupancy, Type, & Vacancy, 1980-2010’). Homeownership rates increased among African Americans, Hispanics, Asians, and non-Hispanic White households With Hispanic households experiencing the largest increase in homeownership.

Figure A.14 Housing Units, Percentage by Occupancy, Type & Vacancy, 1980-2010



Source: US Census, 1980, 1990, 2000, 2010 Decennial Census

The Census provides owner occupancy information based on the percentage of owner-occupied units among all occupied units. The city provides owner occupancy information based on the number of owner-occupied properties, determined by the homestead tax exemption, as a percent of all residential properties (See Map A.14 Percent of Properties with Owner-Occupant, 2010). Using the Census methodology thirty-five percent of housing units were owner-occupied in 2010. Using the City data, the owner occupancy for that same year, based on properties, was 62 percent (Federal Hill is the lowest percent, at 41 percent and the Blackstone neighborhood is the highest at 83 percent). Overall, from 2000-10, the City owner-occupancy rate remained stable.

Map A.14 Percent of Properties with Owner-Occupant, 2010

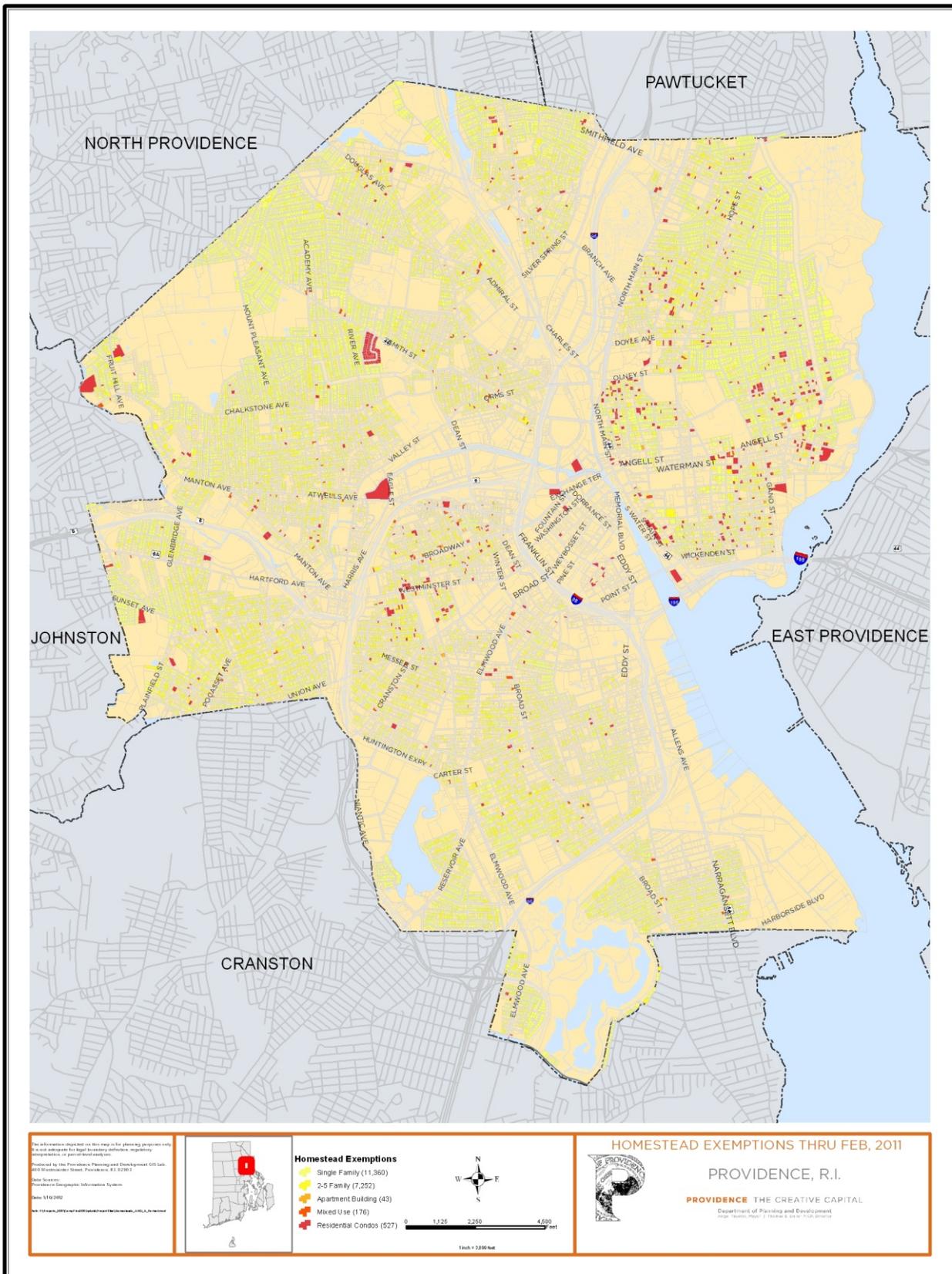


Table A.35 Residential Condominium Sales, 2006-2011

Year	Rhode Island	Providence (not E.Side)	East Side
2006	1,883	142	172
2007	1,806	154	167
2008	1,210	114	117
2009	1,203	107	103
2010	1,144	88	80
2011	1,133	80	64

Source: Rhode Island Realtors Association

Housing prices and property values have soared from the 1980s to 2005, in all parts of the city (See Table A.36 Median Single-Family Residential Sales Price 1985-2010, and Map A.15 Assessed Value of Residential Properties). Since 2006, sale prices have dropped dramatically, a reflection of the housing and financial crisis. Between 2006 and 2009 the median sales price for homes in Providence, excluding the East Side declined \$127,475 (59.9 percent). The sales price increased in 2010, but is still almost 85 percent lower than the peak in 2006.

Figure A.15 10-Year Trend in Median Sale Price (2001 – 2011)

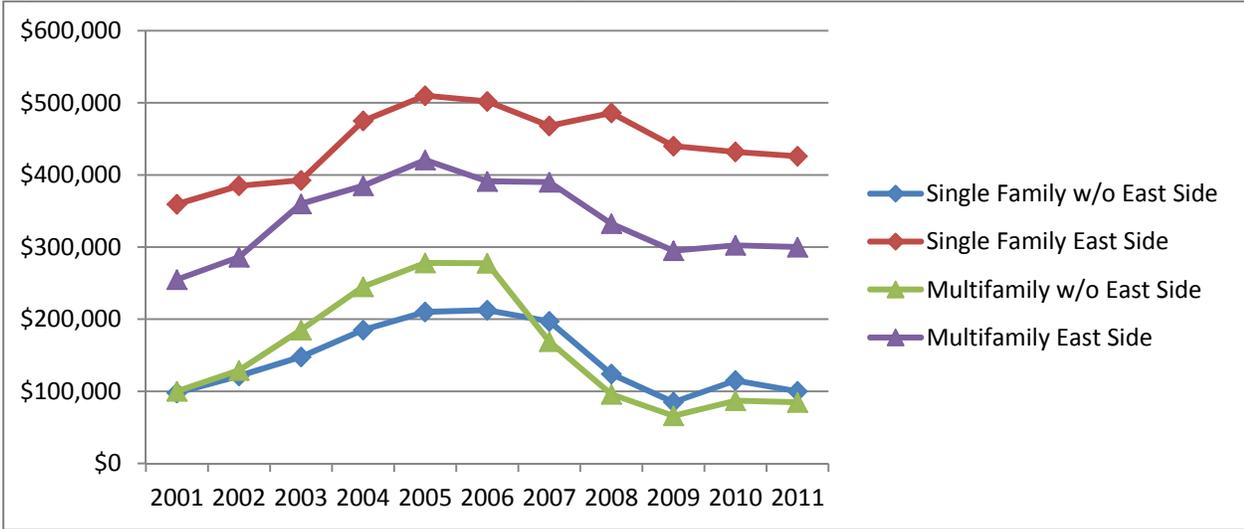
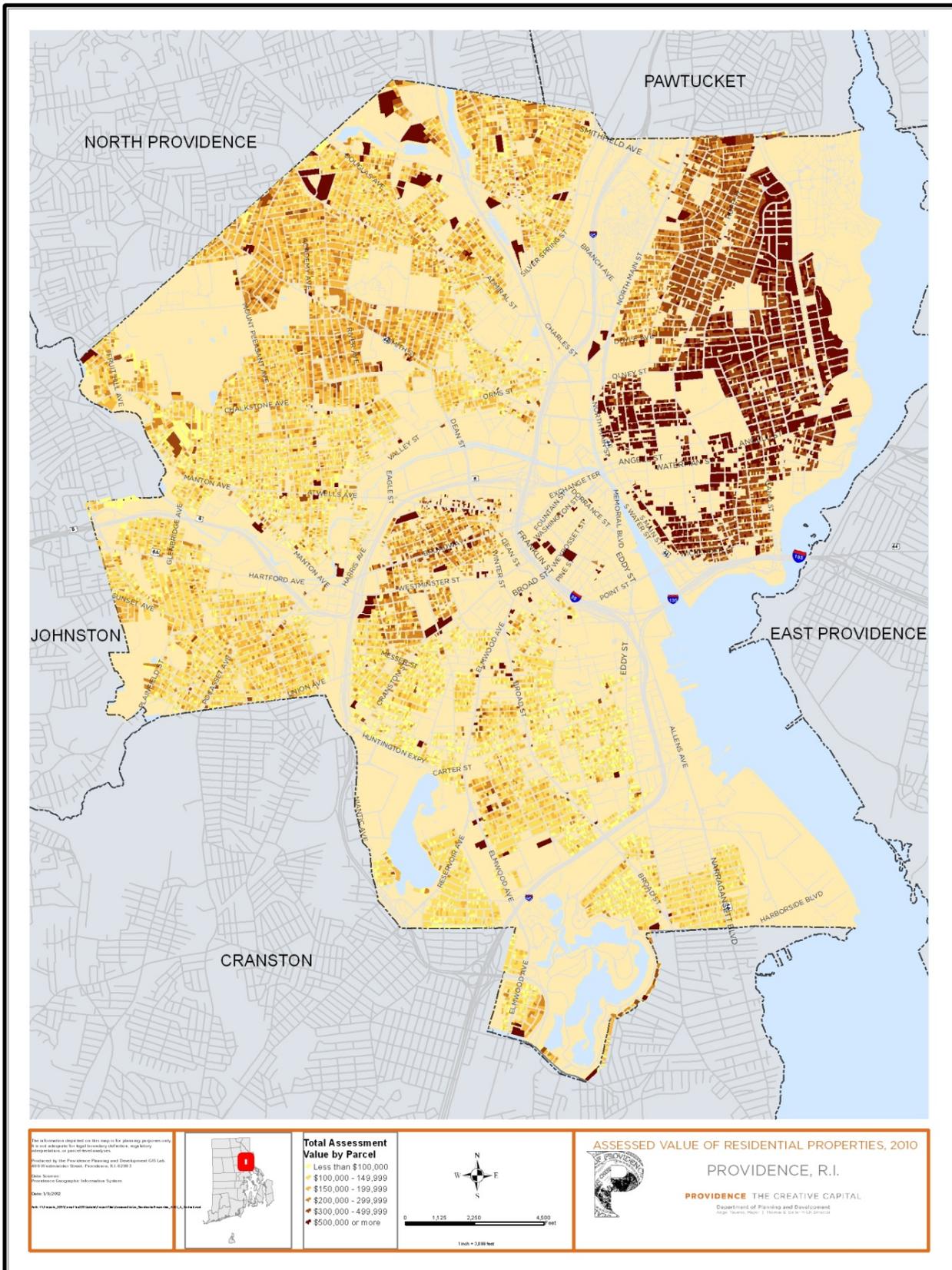


Table A.36 Median Single-Family Residential Sales Price 1985-2010

	1985	1986	1987	1988	1989	
Rhode Island	\$67,000	\$88,000	\$120,000	\$127,000	\$128,000	
Providence (not E. Side)	\$43,500	\$59,000	\$83,000	\$90,000	\$95,500	
East Side	\$90,000	\$180,000	\$164,750	\$196,000	\$187,000	
	1990	1991	1992	1993	1994	
Rhode Island	\$125,000	\$121,000	\$117,000	\$115,000	\$115,000	
Providence (not E. Side)	\$85,000	\$86,500	\$84,900	\$76,100	\$74,000	
East Side	\$185,000	\$170,285	\$182,000	\$169,000	\$206,000	
	1995	1996	1997	1998	1999	
Rhode Island	\$115,000	\$116,600	\$118,000	\$122,600	\$126,000	
Providence (not E. Side)	\$69,000	\$68,500	\$69,000	\$72,000	\$75,000	
East Side	\$190,000	\$185,000	\$205,000	\$190,000	\$248,500	
	2000	2001	2002	2003	2004	
Rhode Island	\$135,976	\$156,000	\$188,150	\$230,000	\$264,700	
Providence (not E. Side)	\$83,000	\$97,925	\$121,354	\$147,750	\$185,000	
East Side	\$294,000	\$359,500	\$385,000	\$392,625	\$475,000	
	2005	2006	2007	2008	2009	2010
Rhode Island	\$282,900	\$282,500	\$275,000	\$234,900	\$199,000	\$210,000
Providence (not E. Side)	\$210,000	\$212,475	\$197,000	\$123,500	\$85,000	\$115,000
East Side	\$510,000	\$502,000	\$468,075	\$486,000	\$440,000	\$432,000

Source: Rhode Island Realtors Association

Map A.15 Assessed Value of Residential Properties



Rental Market

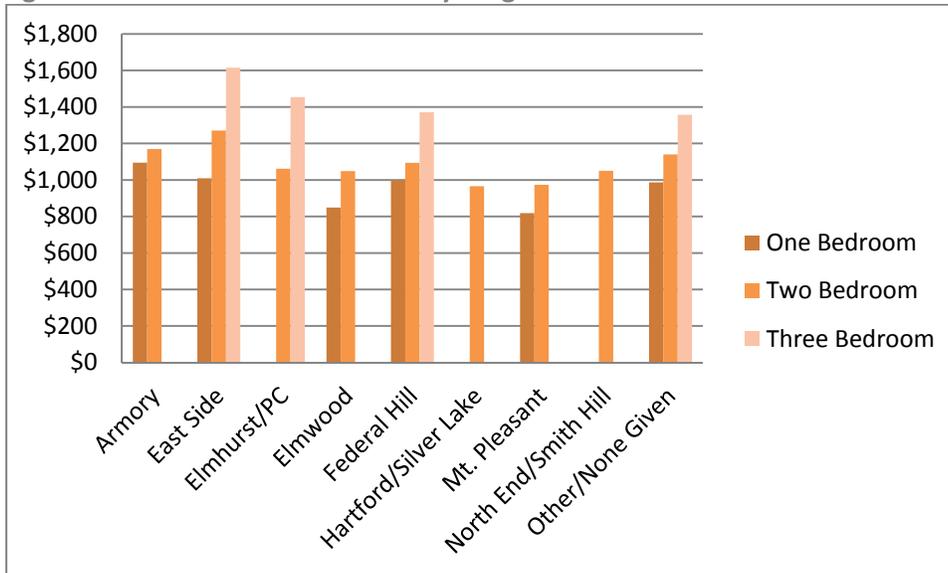
Fair market rents, as determined by HUD, had increased steadily from 2001 to 2008. They declined in 2009 before increasing again in 2010 and 2011. The Fair Market rent then declined again for 2012. (See Table A.37 ‘Fair Market Rent Increase by Bedroom Size’).

Table A.37 Fair Market Rent Increase by Bedroom Size

	2006	2007	2008	2009	2010	2011	2012
Studio	\$757	\$795	\$800	\$746	\$751	\$762	\$710
1 Bedroom	\$827	\$869	\$874	\$830	\$836	\$848	\$790
Two Bedroom	\$965	\$1,014	\$1,020	\$956	\$963	\$977	\$910
Three Bedroom	\$1,155	\$1,214	\$1,221	\$1,142	\$1,151	\$1,168	\$1,087
Four Bedroom	\$1,472	\$1,546	\$1,556	\$1,409	\$1,419	\$1,440	\$1,341

Source: HUD

Figure A.16 2010 Advertised Rents by Neighborhood



Source: Rhode Island Housing

Housing Affordability

According to Rhode Island Housing (RIH), Providence has 10,449 units of housing affordable to people of low or moderate income. This amounts to 14.60 percent of the total number of dwelling units in the city, and makes Providence one of only six communities in the state that exceed the goal of 10 percent set by Rhode Island General Law 45-53.¹²⁹ The majority of the affordable units serve families (48.8 percent) while 41.9 percent of

¹²⁹ When calculating this percentage, RIH requires the housing to meet the definitions from two state laws: R.I.G.L 42-128-8.1 defines what a household pays for affordable housing: “Affordable Housing” means

the units serve the elderly and 9.3 percent serve those with special needs. Nevertheless, many households are cost burdened when it comes to housing. With a median household income substantially less than the area median income, almost half of Providence's renters pay in excess of 30 percent of household income in rent. Table A.38 Housing Cost Burden identifies both renter and owner households spending between 30 percent and 50 percent of income on housing and households spending more than 50 percent of income on housing. Currently, 46.7 percent of all households spend at least 30 percent of their income on housing and 25.1 percent spend more than 50 percent of their income on housing.

Table A.38 Housing Cost Burden

Type	Households	Type	Households	Total
Owner occupied w. housing cost burden greater than 50%	5,115	Owner occupied w. housing cost burden greater than 30% but less than or equal to 50%	5,025	10,140
Renter occupied w. housing cost burden greater than 50%	10,455	Renter occupied w. housing cost burden greater than 30% but less than or equal to 50%	8,335	18,790
Total	15,570		13,360	28,930

Source: 2006-2010 ACS CHAS Data Table 3

Despite reaching the 10 percent goal, a strong need for affordable housing remains. Currently, there is a significant gap between the number of households (both elderly and family households) with a housing cost burden greater than 30 percent and the number of affordable units. For example, an estimated 15,404 family households have a housing cost burden of 30 percent or greater, however, only 5,098 affordable dwelling units are provided. Currently, the City has a total affordable housing need of 30,350 units, which includes those

residential housing that has a sales price or rental amount that is within the means of a household that is moderate income or less. In the case of dwelling units for sale, housing that is affordable means housing in which principal, interest, taxes, which may be adjusted by state and local programs for property tax relief, and insurance constitute no more than thirty percent (30 percent) of the gross household income for a household with less than one hundred and twenty percent (120 percent) of area median income, adjusted for family size. In the case of dwelling units for rent, housing that is affordable means housing for which the rent, heat and utilities other than telephone constitute no more than thirty percent (30 percent) of the gross annual household income for a household within eighty percent (80 percent) or less of area median income, adjusted for family size. R.I.G.L 4505303 requires the housing to be subsidized and kept affordable for a long period of time: "Low or moderate income housing" means any housing whether built or operated by any public agency or any nonprofit organization or by any limited equity housing cooperative or any private developer, that is subsidized by a federal, state, or municipal government subsidy under any program to assist the construction or rehabilitation of housing affordable to low or moderate income households, as defined in the applicable federal or state statute, or local ordinance, and that will remain affordable through a land lease and/or deed restriction for ninety-nine (99) years or such other period that is either agreed to by the applicant and town or prescribed by the federal, state, or municipal government subsidy program but that is not less than thirty (30) years from initial occupancy.

currently with a housing cost burden of greater than 30 percent and those currently living within low-and-moderate income housing. Table A.39 Housing Cost Burden by Population Group identifies this existing need for affordable units. Over the next 20 years, the City will maintain the current percentage of affordable housing dwelling units (14.60) and will work to accommodate the diverse housing needs of the population.

Table A.39 Housing Cost Burden by Population Group

Population served	Owner Occupied Households (Existing Need)	Renter Occupied Households (Existing Need)	Total Number of Dwelling Units Provided	Total Affordable Housing Need
Elderly	2,560	2,915	4,373	9,848
Families	5,764	9,640	5,098	20,502

Public and Assisted Housing

The Providence Housing Authority (PHA) owns and manages 2,604 units of public housing in the city. These units are located in fourteen development locations, including 244 scattered site developments. The scattered site units are single-family and duplex style homes, with no more than ten units at each location. Developments range in size from 24 units (Sunset Village) to 508 units (Hartford Park).

PHA maintains waiting lists for both public housing and Section 8 assistance. As of December 2010, there were 1,172 families or individuals on the public housing waiting list and 500 on the Section 8 waiting list, which has been closed since October 1998. There are an additional 1,550 families on the pre-application wait list. Of those on the Section 8 wait list, 75 percent make less than thirty percent of the city’s median family income and 70 percent are Hispanic.

Homelessness

Given the high housing cost-burden for many in Providence, homelessness continues to be a significant issue. In order to address this problem, the City has 8 homeless shelters with a total of approximately 370 beds.

While the size of the city’s homeless population has yet to be determined, it is clear that numerous families are at serious risk of homelessness. Currently, there are 4,205 families with an income of less than 30 percent LMI that pay 50 percent of their income on housing.

A.7 Mobility

Roadways

Providence encompasses 18.5 square miles of land, however in that 18.5 square miles, are some 372 miles of roadway. This road network includes interstate highways, state roads, and local streets. The City benefits from two interstate highways and a network of state highways as well. The highway system carries traffic through the State of Rhode Island to Connecticut and Massachusetts, and has a regional significance in terms of highway travel and transport. The relocation of interstate 195 is underway, and is scheduled for completion in 2010. The removal of the current highway structure will be complete by 2012 and will allow for the reconnecting of portions of the street grid in the Downtown. Providence’s strategic location at the head of Narragansett Bay is the reason why it was an early hub of the road and railway systems.

The Rhode Island Department of Transportation (RIDOT) has classified the highway and street systems throughout the state based on Federal Highway Administration (FHA) standards. This "functional classification" of streets and highways focuses on the various functions that roads serve. The two basic roadway functions are: access to property and travel mobility. Most roads perform both functions, but in varying combinations. This relationship ultimately determines the functional classification of a road. The three classifications -local, collector and arterial reflect the access/mobility relationship as described below. In general roadways are classified according to the following criteria: local, emphasis on land access function; collector, relatively even balance between land access and through traffic; and arterial, emphasis on high level of mobility for through movement.

In urban areas (as defined by the US Census Bureau) such as Providence, the functional classification system is broken down as follows:

1. Principal Arterial Street
 - a. Interstate
 - b. Connecting link of a rural principal arterial
 - c. Connecting link of a rural minor arterial
 - d. Other principal arterial (non-connecting link)
2. Minor Arterial Street
3. Collector Street
4. Local Street

RIDOT has also identified those road networks which receive federal aid for improvements as outlined in "Federal Aid Systems." New listings of federally-funded improvement recipients are published on a regular basis. In Rhode Island, Interstates 95 and 195 receive federal aid, as do Routes 1, 1A, 10, 146, 44, 7, 6, and RI-195. In addition, a significant number of smaller "urban routes" receive federal aid for road improvements.

Mass Transit

Bus

Providence is the hub of RIPTA bus service and is well served by RIPTA routes. Bus ridership is currently about 64,000 per day throughout the RIPTA system with about 29,000 riders going to and from downtown Providence every day. Four Providence universities (Brown, RISD, Providence College, and Johnson & Wales) participate in RIPTA's UPASS program, which lets students ride using their school IDs. Students from these four universities took a little over 1,000,000 rides in 2011. Additionally, thirteen downtown businesses and government agencies participate in the ECOPASS program, which lets employees ride using a smart card provided by RIPTA. These participants accounted for about 135,000 rides in 2011.

RIPTA has 239 buses and operates them at an average service cost of \$5.55 per vehicle mile. The service cost per passenger is \$2.37 and costs are covered by the State (60%), the Federal Government (20%), and user fees and miscellaneous sources (20%). In addition to operating 239 buses, RIPTA also operates 133 paratransit vans and 17 Flex service vans. The bus fleet is continually modernized through the purchase of new vehicles. During 2011 53 new, low floor diesel hybrid buses were added to the fleet. In 2010, RIPTA also opened a new paratransit operations and support center at Elmwood Ave to meet major operational needs, including the construction of indoor bus storage to limit overnight bus idling.

Rail

Providence rail commuters and travelers are served by an extensive Massachusetts Bay Transportation Authority (MBTA) and Amtrak system. The MBTA runs thirty four commuter rail trains between Providence to Boston each weekday, 16 inbound and 18 outbound. Seven trains are during morning peak hours and five trains are during evening peak hours. Amtrak provides both regional and Acela Express service from Providence to Boston and to the New York region as well.

Freight Rail

There is also freight rail service to the Port of Providence, the Providence Gas Company and a number of other industrial businesses, facilitating freight train traffic of more than 2,000 railroad cars per year in the area. Active Providence and Worcester Railroad (P&W) line cross Allens Avenue at several points and run along its center.

Biking and Walking

Pedestrian access in Providence is one of its special characteristics. Many individuals walk to work, students walk to schools and neighborhoods enjoy pedestrian access to local community area. All traffic studies and transportation plans should include elements providing for ease of pedestrian movement.

The Blackstone River Bikeway will be connected to the Providence Bike Network in 2011 and 2012. The Providence Bike Network will eventually also connect to the East Bay Bicycle Path at the Interstate 195 bridge in Providence. The Providence Bike Network I consists of signed and striped routes for bicycles throughout the city, facilitating bicycle use.

Air Travel

Providence is ten miles north of T.F. Green Airport in Warwick, Rhode Island. The proximity of the airport to the City is a benefit to both businesses and the tourism industry. In addition to T.F. Green, Providence is in close proximity to two smaller airports: Smithfield/Lincoln and Quonset Point.

Port of Providence

The City of Providence maintains an active Port, equipped to handle thousands of tons annually from all over the world. The Port of Providence is the second largest deep water port in New England. It is an important regional distribution center for petroleum and other products. In addition the Port has serviced, and could service again, cruise ships and other water-related recreational facilities, including docking and mooring.

The industrial waterfront is linked to the Atlantic Ocean, 27 miles away, by a navigational channel in the Providence River. The channel provides safe passage for deep draft vessels, and has been manually widened over the years. In the early 1970's the channel was deepened to 40 feet below mean low water from Narragansett Bay to Fields Point to Fox Point. This allows deep draft ocean vessels to use the dock north of Fields Point.

Waterside access from the channel to the port area is provided by two types of facilities. The Municipal Wharf serves ships containing general and bulk cargo, while privately owned piers located north of the Municipal Wharf serve ships and barges carrying petroleum or other bulk cargo. The Municipal Wharf provides six berths varying in depth from 35 to 40 feet, deep enough for current shipping needs. The pier area north of Municipal Wharf provides seven usable berths ranging in depth from 21 to 27 feet.

Parking

Providence is a city whose basic development pattern was established long before automobile and truck traffic became prevalent. It is therefore a city into which parking must be fit, rather than one that was developed with parking in mind from the outset. Parking is especially difficult in downtown; but residential neighborhoods and commercial and industrial areas outside of downtown also face parking problems.

Outside the downtown area parking is accommodated by zoning requirements and on-street parking regulations. The Department of Traffic Engineering has instituted a pilot overnight on street parking program and if successful, has plans to expand the pilot program. Downtown, the Department of Traffic Engineering has updated all of the parking meters. The new meters include multi-space meters (also known as pay and display) as well as computerized meters that accept parking cards and quarters. The meters charge \$1.25 per hour and have time limits that range from 15 minutes to 10 hours. In addition to on-street parking, downtown's parking needs are also met by off-street parking lots and garages. Sixty-eight acres (15 percent) of downtown's land area is surface or structured parking.

A.8 Arts and Cultural Resources

Arts and Cultural facilities and organizations contribute greatly to the quality of life for residents of the City, state and region. They educate and entertain, and are also an important part of the City's economy.

Libraries

Library services to the public are provided by the Providence Public Library, a private nonprofit organization and the Providence Community Library which receives city and private support. The central/main library, operated by Providence Public Library is located downtown on Washington Street. The nine branch libraries, operated by Providence Community Library are found in various neighborhoods of the City. This is discussed in greater detail in the community services and facilities section.

In addition to the Providence Public Library and Providence Community Library, there are fifteen other private and public libraries in the City. Brown University's John D. Rockefeller Jr. Library has a capacity of one and a half million volumes. Famous for rare collections are the Providence Athenaeum, the Annmary Brown Memorial, the John Carter Brown Library and the John Hay Library.

Performing Arts Venues

Performing arts theaters in the city include the Providence Center for the Performing Arts, which seats 3,200 people, the Veterans Memorial Auditorium which seats 2,200, and the Lederer Theater, home to the nationally-known Trinity Repertory Company. The Dunkin' Donuts Center which seats 13,500 opened in 1972 and hosts sports, exhibitions and cultural events. The "Dunk" was renovated in 2006 and 2007 and connected to the Rhode Island Convention Center, which features 137,000 square feet of exhibit, pre-function and meeting space.

Educational Institutions

In the City of Providence are facilities for seven colleges and universities including: Brown University; Rhode Island School of Design (RISD); Providence College; Rhode Island College; Johnson and Wales University; Roger Williams University and, The University of Rhode Island, all of which add to the cultural landscape of the City.

Arts and Cultural Organizations

Providence is home to well over 100 arts and cultural organizations. From small theater companies to symphony orchestras, dance troupes to opera companies, the groups reflect the rich cultural and ethnic diversity of the City.

A.9 People and Public Spaces

Existing Facilities

The Providence park system has changed dramatically since 1993 when the last comprehensive look at the park system was undertaken. Major park investments in the 1993-2011 period totaling approximately \$68 million included:

- Approximately \$15 million in city and state funds invested in neighborhood park renovations and in new parks. More than 60 neighborhood parks received improvements and 16 new neighborhood park spaces were acquired and developed.
- Approximately \$20 million in state and city funds invested in new Downtown Providence parks along the Woonasquatucket and Providence Rivers creating a “stage” for Water Fire and other park programming.
- Approximately \$15 million in city, state, and private funding invested in Roger Williams Park and Zoo transforming a once tired park into a unique city and state recreational resource.
- Approximately \$8 million in city, state, federal, and private funding invested in a new Roger Williams Park Botanical Center, opened in 2007.
- Approximately \$6 million invested in new or significantly renovated neighborhood recreation centers that are the anchors of indoor recreation in the neighborhoods.
- Approximately \$4 million invested in outdoor high school athletic facilities.

Currently, the majority of City funding for the Parks and Recreation Department is for Neighborhood Parks and Recreation. See Table A.40 Parks Department City Funding, FY 2013 for detail.

Table A.40 Parks Department City Funding, FY 2013

Botanical Center	\$511,724.00	3.80%
North Burial Ground	\$663,182.00	4.90%
Recreational Seasonal	\$676,803.00	5.00%
Parks Dept. Administration	\$1,067,919.00	7.90%
Forestry	\$1,092,935.00	8.20%
Roger William Park Services	\$1,933,420.00	14.30%
Zoo	\$2,638,587.00	19.50%
Neighborhood Parks and Recreation	\$4,889,657.00	36.40%
Total	\$13,474,227.00	100.00%

The investment in parks has not only created newer and safer park facilities, but has also significantly increased recreational and park programming opportunities in Providence. New facilities include:

- 9 new neighborhood water parks
- canoeing, sailing and boating opportunities
- a new Downtown outdoor skating rink
- a new par 3 golf course for youth
- 16 new walking tracks
- a new multi-mile wooded trail system at Neutaconkanut Hill
- a new community garden and off leash dog area at Gano Street Park
- a regional destination along the Downtown river walk system.

These changes reflect a gradual change in the park system from one dominated by sports and playgrounds to a system with many more family and life fitness activities. In addition, the effort in the past 10 years was also focused on providing playgrounds in the south side neighborhoods that were formally deficient in playgrounds accessible to a constituency often without cars. See Table A.41 Outdoor Recreational Facilities and Indoor Recreation Centers and Table A.42 Neighborhood Park Assets for a summary of the existing park and recreation facilities in Providence and shows the changes that have occurred since 1993. See also Map A.16 ‘Open Space and Recreation’ for a map of the current park and recreation system.

Table A.41 Outdoor Recreational Facilities and Indoor Recreation Centers

Outdoor Recreational Facilities				Indoor Recreation Centers	
	1993	2006	Change	Center	Neighborhood
Basketball Courts (full court)	26	35	9	Selim-Rogers	Smith Hill
Basketball Courts (half court)	3	7	4	Joslin	Manton/Olneyville
Bocce Court	1	1	0	R.F. Kennedy	Elmhurst
Playgrounds	44	58	14	Vincent Brown	Mount Hope
Skateboard	0	1	1	Davey Lopes	South Providence
Tennis Courts	32	34	2	Zuccolo	Federal Hill
Softball Fields	20	16	-4	South Side	South Providence
Handball Courts	1	3	2	Sackett	Elmwood
Volleyball Courts	3	3	6	Neutaconkanut	Silver Lake
Walking Tracks	4	20	16	West End	West End
Wooded Trail Systems	1	2	1		
Football Fields	6	4	-2		
Soccer Fields	9	11	2		
Swimming Pools	6	6	0		
Little League Fields	14	21	7		
T-ball Fields	0	2	2		
Baseball Fields	10	8	-2		
Water Parks	0	9	9		
Sailing Center	0	1	1		
Golf Courses	1	2	1		
Outdoor Skating Rink	0	1	1		
Fresh Water Docks	1	4	3		

Salt Water Docks	3	12	9		
Canoe/Kayak Launch	0	2	2		
Fresh Water Boat Ramp	1	3	2		
Salt Water Boat Ramp	0	1	1		
Community Gardens (in parks)	0	4	4		
Off-leash dog runs	0	2	2		

Source: City of Providence Parks Department

Table A.42 Neighborhood Park Assets

Park Name	Neighborhood	Address	Acres	Playground	Baseball	Softball	Soccer	Basketball	Water Park	Walking Path	Other
Abbott Park	Downtown	290 Weybosset St	0.2								Fountain
Alphonso St. Totlot	Upper S. Providence	10 Alphonso	0.1	1							
Amos Earley Park	Elmwood	7 Cadillac Dr	3.4	1			1			X	
Ardoene Park	Reservoir	143 Narragansett Ave	4.5	1	1			1			
Ascham St. Park	Charles	323 Hawkins St	1.7	1		1					
Bank of America City Center	Downtown	2 Kennedy Plaza	0.4								Outdoor skating rink and pavilion
Baxter St. Park	Lower S. Providence	61 Baxter St	0.2	1							
Billy Taylor Park	Mount Hope	140 Camp St	1.9	1				2			
Biltmore Park	Downtown	2 Kennedy Plaza	0.9								Numerous public sculptures
Blackstone Blvd. Park	Blackstone	Blackston Blvd.	19.3							X	1.8 miles in length
Blackstone Park	Wayland	58 Parkside Rd	40.3							X	Wooded conservation area and trails
Boyle Sq.	Smith Hill	287 Smith St	0.1								
Brassil Memorial Park	Fox Point	41 Arnold St	0.4	1							
Brown St. Playground	College Hill	207 Brown St	0.8	1							Fitness area, community garden
Bucklin Park	West End	404 Dexter St	5.5	1	1			2			Football field
Burnside Park	Downtown	40 Kennedy Plaza	1.6								Fountain and Burnside statue
Cabral Park	Fox Point	515 Wickenden	1.1	1	1			1	1		

		St									
Camp Cronin	Narragansett		0.5								Summer field trip location
Canada Pond Management Area	Charles	Opposite 76 Lakeside Drive	29.1								Former mill pond, includes a dam
Candace St. Playground	Smith Hill	11 Candace St	0.6	1				1			
Cathedral Sq.	Downtown	69 Franklin St	1.0								Fountain
Cerbo Sq.	Silver Lake	136 Murray St	0.1								Memorial to J. Cerbo
Clarence St. Playground	Silver Lake	220 Clarence St	1.0	1							
Collyer Park	Hope	35 Collyer St	4.1	1		1					
Columbia Park	Washington Park	65 Michigan Ave	0.7	1				2			Sledding hill
Columbus Sq.	Elmwood	24 Reservoir St	0.5								Statue of Columbus
Constance Witherby Park	Wayland	299 Waterman St	1.6								
Corliss Landing	Fox Point	579 South Water	0.3							X	Providence river overlook
Corliss Park	Wanskuck	30 Corina St	5.9	1		1		2			
Cranston St. Totlot	West End	126 Cranston St	0.5	1							volleyball
Davey Lopes Park	Upper S. Providence	62 Tanner St	2.2	1				1		X	
Davis Park	Valley	700 Chalkstone Ave	10.1	1	3			1		X	Community garden
DePasquale Plaza	Federal Hill	267 DePasquale St	0.3								Fountain / plaza for outdoor dining
Dexter Training Grounds	West End	65 Dexter St	9.1	1	1					X	Dexter statue
Diamond St. Playground	West End	46 Diamond St	0.0	1							
Drummond Field	Washington Park	91 New York Ave	2.8				1				
Ellery St. Park	West End	75 Ellery St	0.9	1				1			
Esek Hopkins Homestead	Wanskuck	97 Admiral St	1.1								Former homestead of Esek Hopkins
Fargnoli Park	Elmhurst	237 Jastram St	3.1	1	1			2	X		
Fenner Sq.	College Hill	80 Governor St	0.2								Traffic island
Franciscan Park	Federal Hill	515 Broadway St	2.5	0						X	
Freeman Park	Downtown	311 Westminster St	0.0								Fountain
Lola French Park	Wanskuck	221 Veazie St	4.5	1		1	1			X	
Gano St. Park	Fox Point	87 Fremont St	11.3		2		1	1			
Garibaldi Sq.	Federal Hill	99 Atwells Ave	0.5								Monument bust of

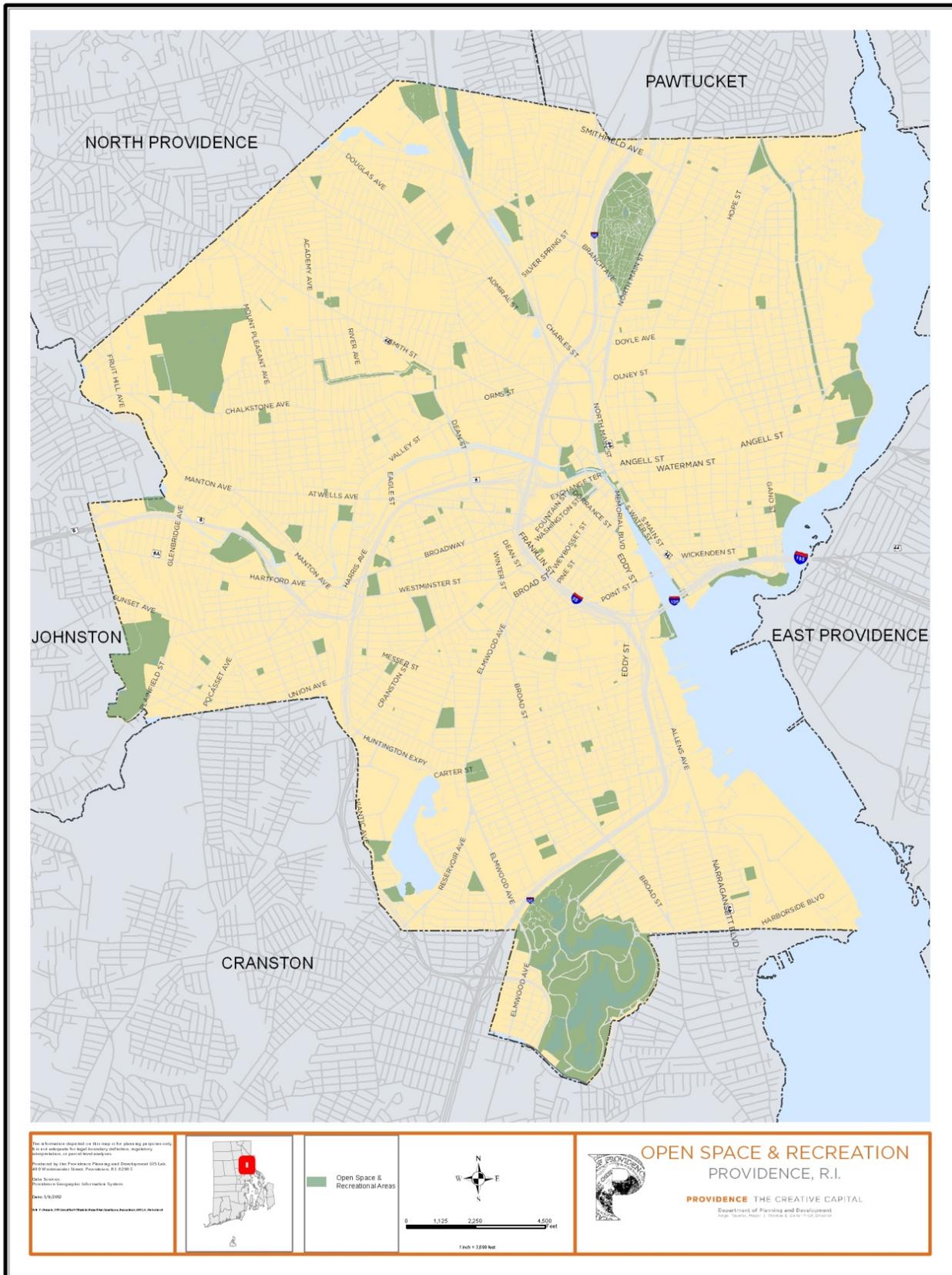
											Garibaldi
General St. Playground	Wanskuck	1 Recreation Way	0.0		X			1	X		
Gladys Potter Park	Wayland	141 Humboldt Ave	1.2	1							
Paul Grande Park	Silver Lake	115 Daniel Ave	1.2	1				1			
Harriet & Sayles Park	Lower S. Providence	370 Sayles St	2.1	1	1			1		X	Water park with restroom facility
Hopkins Park	Wanskuck	71 Admiral St	7.8	1			1				
Hopkins Sq.	Charles	480 Branch Ave	1.0								State of Esek Hopkins
India Point Park	Fox Point	109 India St	18	1			1			X	Two large docks, community sailing
Jacqueline Clements Park	Upper S. Providence	333 Dudley St	0.3								Fountain
Jennifer Rivera Memorial Park	Elmwood	40 Niagara St	0.2	1							
JT Owens Park	Reservoir	350 Niantic Ave	8.2	1	2	1		0		X	Boat ramp
John Donigian Memorial Park	Olneyville	228 Valley St	4.5	1		1		1		X	
Joseph Williams Field	South Elmwood	999 Elmwood Ave	5.3	1	1					X	
Joslin Playground	Olneyville	60 Kossuth St	0.8	1		1		1		X	Also handball court
Kennedy Plaza	Downtown	1 Kennedy Plz	1.8								Transit center leased to RIPTA
Knight St. Park	Federal Hill	82 Knight St	0.6	1				2			
Father Lennon Park	Smith Hill	Opposite 83 Camden Ave	1.6	1						X	Volleyball
Lincoln Lace	Hartford	67 Melissa St	11.1								Not yet developed
Lippitt Memorial Park	Blackstone	1001 Hope St	6.0	1							Lippitt Memorial Fountain
Locust Grove Cemetery	Elmwood	442 Elmwood Ave	8.0								Historic cemetery
M.E. Sharpe Memorial Park	College Hill	141 Benefit St	0.2								
Mansion Park	West End	225 Waverly St	1.7								
Market Sq.	Downtown	4 North Main St	0.3								Managed by RISD
Mashapaug Pond Boating Ctr.	Reservoir	361 Reservoir Ave	1.9								
Mattie Smith Totlot	Upper S. Providence	103 Taylor St	0.1	1							

Memorial Park	Downtown	17 South Main	1.0								World War I Memorial, other sculptures
Merino Park	Hartford	265 Hartford Ave	13.3	1		1	2	2		X	
Morris Ave. Totlot	Blackstone	387 Morris Ave	0.1	1							Primarily for toddlers
Mt. Pleasant Little League Fields	Mount Pleasant	Opposite 525 Mt. Pleasant Ave	2.8	1	2	1					
Mt. Pleasant Memorial Park	Valley	96 Newark St	0.2								Memorial Park
Murphy-Trainer Park	Reservoir	3 Molter St	4.5							X	Shoreline access
Neutaconkanut Park	Silver Lake	899 Plainfield St. Rear	73.2	1	2			1	X	X	
Ninth St. Park	Hope	21 Ninth St	0.3					1			
North Burial Ground	Mount Hope	800 North Main	109.2							X	Approx. 40,000 gravestones
Obediah Brown Fields	Mount Pleasant	101 Bullock Ave.	9.4				2				One field is leased to RI College
Paterson Park	Wayland	6 Paterson St	1.2	1				1			Half-court basketball for small kids
Pearl St. Park	Upper S. Providence	161 Pearl St	0.3	1							
Pleasant St. Park	Mount Hope	34 Pleasant St	1.2	1					X		
Pleasant Valley Pkwy	Elmhurst	64 Garfield Ave	3.5							X	Grass median strip with small stream
Preston & Ives Playground	Fox Point	210 Ives St	0.3	1							
Prete-Metcalf Field	Charles	504 Charles St	11.4		3					X	Arthur E. Cola Memorial Walking Trail
Prospect Terrace	College Hill	184 Pratt St	0.9								Roger Williams Monument
Regent Ave. Playground	Valley	140 Regent Ave	0.9	1							
Richardson Park	Lower S. Providence	64 Richardson St	3.2	1	1			1		X	
Ridge St. Playground	Federal Hill	126 Ridge St	0.6	1				1			
Riverwalk	Downtown	Crawford Square								X	Several thousand feet of riverwalk
Riverside Park	Olneyville	50 Aleppo St	7.5	1						X	Fish ladder; canoe launch
Rochambeau Sq.	Hope	8 Brewster St	0.1								General Rochambeau marker

Roger Williams Landing	Fox Point	136 Gano St	0.9								Landing site of Roger Williams
Roger Williams Park	South Elmwood	1000 Elmwood Ave	432.1	1	3					X	Zoo, museum, carousel, boats
Sackett St. Park	Elmwood	110 Sackett St	2.2	1	1			1	X		
Salisbury St. Totlot	Lower S. Providence	13 Salisbury St	0.1	1				1			Basketball court is half court
Sessions Street Park	Blackstone	140 Sessions St	2.9	1	3						
Silver Lake Memorial Park	Silver Lake	308 Pocasset Ave	0.0								Memorial Wall for neighborhood
St. Ann's Plaza	Charles	578 Charles St	0.1								
St. John's Park	Federal Hill	47 Sutton St	0.5								Former location of St. John's Church
Summit Ave. Park	Hope	84 Ninth St	0.5	1							
Triggs Memorial Golf Course	Mount Pleasant	1501 Chalkstone Ave	161.4								18-hole municipal golf course
Trinity Mews	Downtown	164 Fountain St	0.2								Informal outdoor performance space
Tom Twitchell Greenway	Smith Hill	3 Oakland Ave								X	
Viscolosi Park	Mount Pleasant	1684 Chalkstone Ave	0.9	1							
Waldo St. Totlot	West End	136 Waldo St	0.1	1							
Wallace Street Park	Silver Lake	1 Wallace St	3.4	1	1			1	X	X	Water park with restroom facility
Wanskuck Park	Wanskuck	229 Woodward Rd	24.5							X	Caretaker house on property
Warren Ave. Playground	West End	35 Warren St	0.4	1							
Washington Park Square	Washington Park	1450 Broad St	0.2								
Waterplace Park	Downtown	12 American Express Way	2.5							X	Outdoor amphitheater, restaurant, docks
West Park	Mount Pleasant	1266 Chalkstone Ave	4.3	1	1				X		

Source: City of Providence Parks Department

Map A.16 Open Space and Recreation



One of the major elements of the park system is of course Roger Williams Park, which serves as a neighborhood park for the surrounding neighborhoods, as a citywide park, and as a regional destination. As summarized in Table A.43 ‘Roger Williams Park-Features and Facilities,’ Roger Williams Park is more than home to the Zoo-it is also home to numerous attractions. More than 1,500,000 visitors a year come to Roger Williams Park with the zoo attracting more than 500,000 visitors.

Table A.43 Roger Williams Park-Features and Facilities

Features
--435 acres in size
--105 acres of ponds and lakes
--10+ miles of park roads with 5 historic bridges
--12 miles of walkways and walking paths
--Listed on the National Register of Historic Places
--Home to the largest zoo in New England
--Home to 21 public sculptures
--Home to more than 200 species of tree
Facilities
--The Zoo includes 50 exhibits and more than 750 animals, birds and aquatic creatures
--Museum of Natural History and Planetarium contains 250,000 artifacts, 6 exhibit halls, and the only public planetarium in the region
--Carousel Village includes a carousel, Hasbro Playground and seasonal rides
--Botanical Center scheduled to open in 2007
--Temple to Music, an outdoor performing arts area that is the site of numerous festivals and fundraising events
--The Casino, a premier indoor event space that accommodates 150+ events a year
--Boathouse, summer location of paddleboats, canoes and tour boat rides
--Morsilli Tennis Courts, the only public clay courts in Rhode Island
--Tim O’Neil Baseball Fields
--Japanese Garden, recently renovated into a premier showcase garden

Source: City of Providence Parks Department

The Roger Williams Park receives funding from a variety of sources including the city, nonprofit organizations, earned income, and trust funds. Approximately 34 percent of the Parks and Recreation Department’s budget is dedicated to Roger Williams Park Services and to the zoo. Additionally, the Park receives revenue from nonprofit sources such as the Rhode Island Zoological Society (RIZS). Two new nonprofit organizations, Friends of the Roger Williams Park Botanical Center and Roger Williams Park Conservancy, are in formative stages. The Park earns income primarily through leases, events, and venue admissions and is eligible to withdraw funds from three city trust funds. These trust funds include the Charles E. Smith Fund, the Anna Mann Fund, and the Samuel Tingley Fund.

Existing Programming Efforts

The Parks Department, the Recreation Department, and Department of Arts, Culture & Tourism (ACT) share city initiated programming responsibilities for the park and recreation sites. The Parks Department provides significant programming and educational activities through the Zoo and the Museum. The department also offers many educational opportunities at the Botanical Center in conjunction with the University of Rhode Island Master Gardeners program.

Many neighborhood groups initiate and oversee festivals and events in Roger Williams Park, the Bank of America City Center, and in neighborhood parks. The Parks and Recreation Department provides logistical support, such as staging and electricity, for these events. The Parks and Recreation Department also provides logistical support to the hugely successful WaterFire events each year that are held Downtown on park riverfront land.

The Arts, Culture, and Tourism Department teams up with the Parks and Recreation Department to hold major concert series and events in Waterplace Park and in approximately a dozen neighborhood parks each summer. These efforts are part of an overall strategy to make the park spaces come alive and allow residents to connect with each other and with their parks.

The Recreation Department is responsible for coordinating all formal athletic permits for baseball, soccer, softball, basketball, and football leagues in neighborhood parks; running athletic clinics; providing youth and adult recreation activities at the indoor recreation centers; operating a summer lunch program in scores of outdoor and indoor sites; providing transportation to several activities and events; and, most recently, hosting after school programs in the neighborhood recreation centers through the Public After School Alliance (PASA). The programs at the neighborhood recreation centers vary, depending on the demand in the neighborhood, and range from basketball, soccer, boxing, volleyball, and whiffle ball to performing arts, computers, yoga, and tae kwon do. And for the last two years, the Recreation Department has run “Adventure Camp”, in collaboration with the North End Collaborative, and offered summer programs at Roger Williams Park, Camp Cronin, and private recreation venues.

Current and Near-Term Issues Facing the Park System

While the Providence park and recreation system is significantly improved from where it was 15 years ago, and while current planned projects will enhance the City’s neighborhoods, the park and recreation system faces major challenges over the next 20 year planning horizon. These can be summarized as follows:

- Non-city fund sources and creative community partnerships will need to be developed and expanded to make to improve park maintenance. No other issue is more important than this one. The City expects this need for outside or innovative funding to remain relatively the same over the next 20 years.
- More land and new types of synthetic turf will be needed to meet the growing demand for soccer fields and softball fields in the city. With the City’s growing Latino and younger populations, it is expected that these needs will continue to grow over the next 20 years.
- Given the City’s lack of available land for new open or recreation space and the amount of space overused by schools, the City must focus on joint use of facilities. Given the projected increase in high school student enrollment, the City anticipates this need for joint use of facilities to grow over the next 20 years.

- Creating and expanding new recreational opportunities in existing parks for walking and exercise, programming, boating and canoeing, and community gardens will be needed and will help promote community ownership of park spaces.
- Residents need more access to information about city parks and what they offer.
- Several city parks paces offer opportunities for being linked to each other and creative ways should be developed to link existing and future park spaces.
- The Roger Williams Park faces numerous obstacles including increasing operating and maintenance costs and much needed casino renovations and museum capital improvements. The City expects these needs to remain relatively the same over the next 20 years.
- The Parks and Recreation Department continues to struggle to find an appropriate time of year to begin park renovations. Schools often use the parks between September and June and adult sports leagues, such as softball, primarily use the fields between May and September. The City expects this issue to remain relatively the same over the next 20 years.

A.10 Community Services and Facilities

Water Supply

All water is delivered to the City of Providence by the Providence Water Supply Board (Providence Water), which supplies over 600,000 customers in Providence and neighboring communities. Average daily consumption is approximately 62 million gallons across the system. Providence receives its water from the Scituate Reservoir Complex, which has a total water surface area of almost 4,600 acres and a capacity of 36.6 billion gallons at the spillway. Maximum net safe yield from the reservoir is 83 million gallons per day. During peak demand times such as the summer, demand can routinely reach 110 to 115 million gallons per day. The reservoir collects approximately 790 million gallons of water for every inch of rain received by its 92.8 square mile watershed. The City owns 26.7 square miles of this watershed, an area much larger than that of the city itself.

Maximum day demand has peaked at up to 136.2 million gallons, approaching the plant capacity of 144 million gallons per day. For the period July 2010 – June 2011, Providence residents and businesses consumed 722 million cubic feet of water, approximately 24 percent of the total system wide consumption (exclusive of municipal uses, such as fire hydrants). Rhode Island Hospital is Providence Water’s largest customer.

Reserve storage is provided by four large underground concrete reservoirs: the Neutaconkanut Reservoir in Johnston, the Longview Reservoir in North Providence, and the Aqueduct and Lawton Hill Reservoirs in Cranston. A smaller storage tank is located in Smithfield. In the event of a water system failure, the five storage reservoirs would have the capacity to support average consumption levels for approximately 1.9 days or maximum consumption for approximately 1.0 day.

Over the last 10 years, water consumption has dropped in Providence by 13%. This is likely due to greater conservation efforts spurred by environmental concerns, changes to the plumbing codes, increased sewer rates, and the large decline in industrial use (See Table A.44 ‘Water Usage by Type, Cubic Feet’). Providence Water predicts that the population of the area it serves will increase 6% by 2030. According to 2030 projections of average day demand and maximum day demand by the Providence Water Supply Board, the Scituate Reservoir

Complex will continue to be able to provide the average day demand and various storage reservoirs will be able to supply the maximum day demand.

Table A.44 Water Usage by Type, Cubic Feet

	July 1, 2000-June 30, 2001	July 1, 2010-June 30, 2011	Percent Change
Residential	494,721,268	446,794,128	-9.7%
Commercial	321,981,432	271,146,985	-15.8%
Industrial	12,890,594	3,632,662	-71.8%

Source: Providence Water Supply Board

Wastewater

Wastewater service is provided by the Narragansett Bay Commission, which serves 360,000 people in 10 area communities. The NBC treats all of Providence's wastewater at the Field's Point Wastewater Treatment Facility, which it owns. This facility treats an average of 45.5 million gallons of waste per day and has a maximum capacity of 65 million gallons per day.

NBC is constructing a series of massive underground tunnels intended to reduce problems with the current combined sewer system, which lets untreated sewage out into the environment whenever its limited capacity is exceeded, as in periods of heavy rainfall. The tunnels, to be completed in three phases over the course of 20 years, are as deep as 250 ft below the surface and total about six miles in length. The construction of Phase 1 is projected to cost \$576 million by the time it is completed in 2007 and will reduce sewage overflow by 40%. Upon completion of the entire system, NBC expects overflow to be reduced by 98% with the result that shellfishing grounds will be closed 68% less frequently in upper Narragansett Bay and 95% less frequently in the lower bay.

NBC has constructed Phase I of their CSO Abatement project and it has been operational since 2007. Phase II will begin construction in 2012.

Solid Waste

Waste generated by Providence residents and businesses is collected and taken to the Rhode Island Resource Recovery Corporation's landfill in Johnston. The RIRRC has been a strong advocate of recycling. However, despite the fact that the recycling rate has increased over the past 10 years, waste generation at the state level, in absolute terms, has grown by a larger amount and the quantity of municipal solid waste being handled by the Landfill has therefore grown steadily over that time period.

The statewide per capita municipal waste generation rate in 2005 was approximately 0.56 tons per year, an increase of about 14% from the 0.47 tons generated per person in 1994. Providence residents generate waste at a rate of 0.50 tons per capita annually and the city as a whole generates 10.6% of the waste collected by RIRRC. However, the city generates only 8.5% of the materials sent to the RIRRC's recycling center (the Materials Recovery Facility or MRF), indicating a lower than average recycling rate (Table A.45 'Solid Waste Generation, 2005').

Over the next 20 years, solid waste generation within the City is expected to decline given the numerous initiatives and long term goals documented in Greenprint: Providence, future technological innovation, and the growing public awareness around sustainability.

Table A.45 Solid Waste Generation, 2005

		Land-filled	Diverted					Total			
			Materials Recovery Facility Recycling	Com-posted	Scrap Metal (White Goods)	Other Recycling	Tires				
Municipality	Estimated Population July 1 st 2005	Refuse Tons	Materials Recovery Facility Recycling	Com-posted	Scrap Metal (White Goods)	Other Recycling	Tires	Total Waste Gen.	Tons Per Capita	Overall Diversion Rate	MRF Recycling Rate
Providence	175,965	79,029	7,376	1,920		58.26	59	88,443	0.5026	10.6%	8%
Cranston	80,285	32,717	7,857	7,642	200	31.02	20	48,467	0.6037	32.50%	19.40%
Pawtucket	73,203	33,343	3,803	903	260	95.49	58	38,462	0.5254	13.3%	10.2%
Warwick	85,624	31,950	11,009	10,766	568	27.68	33	54,355	0.6348	41.2%	25.6%

Source: RIRRC Rhode Island Comprehensive Solid Waste Management Plan, 2007-2012

Roads

Altogether, there are about 490 miles of public and private road in Providence. Of these, about 35 miles are limited access highway (52 miles including ramps) and an additional 34-plus mile of surface roads are designated as numbered state or US routes.¹³⁰ The combined area of all the paved roads in Providence is approximately 2.7 sq mi, which with the addition of the city’s public and private sidewalks, parking areas and driveways (1.0 sq mi, 2.1 sq mi and 1.0 sq mi, respectively), give it a paved area of 6.9 sq mi or 37.5% of its total.¹³¹

Energy

Natural gas and electricity are both provided in Providence by National Grid, a large energy distribution company based in the United Kingdom. Until the summer of 2006, natural gas had been supplied by the Southern Union Company through its subsidiary, New England Gas Company, which National Grid purchased for \$498 million and the assumption of \$77 million in debt.¹³² National Grid now supplies approximately 245,000 customers with natural gas in Rhode Island in addition to the 477,000 Rhode Islanders it already supplied electricity to.

National Grid does not actually generate any electricity in Rhode Island, but rather acts solely as a distributor. The only large-scale power plant in Providence is the 426-megawatt natural gas-fueled Manchester Street Power

¹³⁰ Calculated by the Providence Plan using RIGIS e911 Roads as edited for use by Providence Public Safety

¹³¹ Calculated by the Providence Plan using Planimetrics aerial survey data and Providence land area of 18.4 square miles.

¹³² <http://www.nationalgrid.com/corporate/Investor+Relations/Financial+news/2005-06/160206.htm>

Station. The station is owned by Dominion Resources Inc. of Virginia and is large enough to power 105,000 homes.¹³³

Shelters

It is hard to pin down the exact number of beds available in homeless shelters because the status of those in need and the type of housing vary so widely. For example individual shelter organizations may lease apartments scattered throughout the city (Table A.46 ‘Shelters’). Additionally, there are services available in nearby communities that the Providence homeless population takes advantage of. Shelter capacity also varies with demand. For instance, during wintertime, when demand increases, approximately 88 overflow beds are made available at Harrington Hall, a facility jointly operated by the State and the Urban League located in Cranston.¹³⁴

Table A.46 Shelters

Shelter Type	Capacity
Emergency	326
Transitional	299
Permanent	299

Source: Providence Housing and Homeless Needs Assessment & Strategic Plan, City of Providence Consolidated Plan 2011-2013

Police & Fire

The Police and Fire Departments are headquartered in the Providence Public Safety Complex at 325 Washington St. This 130,000 square foot structure, which replaced an outdated and insufficiently sized building, was completed in 2002 and also houses Municipal and Housing courts. An accompanying parking garage has space for 520 vehicles.

Fire

Including a location within the Public Safety Complex, the fire department has 14 stations distributed throughout the city. Fire equipment includes 14 pumpers (4 reserve), 8 ladder trucks (6 reserve) and 6 rescue units (6 reserves). Additional vehicles include 33 cars and trucks, 11 repair vehicles and 4 small boats. These existing resources are expected to meet the City’s demand over the next 20 years.

Police

The Police Department has an authorized staff of 443 officers, including 52 sergeants, 16 lieutenants and 8 other higher-ranking officers. An additional 97 civilian staff members are authorized.¹³⁵ These figures give Providence a ratio of 2.5 police officers per 1,000 residents.¹³⁶ The average ratio for cities of comparable size is 1.9 officers per 1,000 residents across the U.S., while in New England the average ratio is 2.8.¹³⁷ Given this comparison, it is unlikely that the City will need to increase their police officer ratio over the next 20 years.

¹³³ <http://www.dom.com/about/companies/generation/index.jsp>

¹³⁴ *We Are Here to Stay* (Rhode Island Family Life Center), 2005

¹³⁵ Providence Police Department, as of January 9, 2012

¹³⁶ Calculated using Census 2010 population figures

¹³⁷ FBI Uniform Crime Report, 2009

Providence has a system of community policing designed to build the community’s trust in the police department by reducing its anonymity. Officers are permanently assigned to specific neighborhoods, allowing them to build relationships with residents and partnerships with local organizations. The community policing initiative also relies on neighborhood substations, which have been donated to the police department by their respective owners.

In 2012, the City’s overall crime rate declined by 4 percent and the total number of arrests increased by 7 percent. While violent crimes remained relatively static, this overall decrease was evident in robberies, property crimes, and burglaries. Given the forecasted city population of 189,698 in 2035, a total of 472 officers (an additional 29 officers) will be required to maintain the current ratio of 2.5 police offers per 1,000 residents.

Hospitals & Emergency Treatment Centers

The seven hospitals in Providence have a total of over 1,500 beds (Table A.47 ‘Hospital Beds in Providence’).

Table A.47 Hospital Beds in Providence

Hospital	Beds
Butler	117 ¹³⁸
Miriam	247 ¹³⁹
Rhode Island	719 ¹⁴⁰
Roger Williams	220 ¹⁴¹
Veteran’s	119 ¹⁴²
Women and Infant’s	167and 140 Bassinets ¹⁴³

Though there has been a decrease in the number of hospital beds in the city since the previous comprehensive plan, there has also been a large scale transition toward outpatient care for procedures that would previously have required a hospital stay.¹⁴⁴ Additionally, the St. Joseph Hospital for Specialty Care closed eliminating those beds from the previous total.

Nursing Homes

There are 23 nursing homes in the city and an additional 40 residential complexes primarily catering to the elderly.¹⁴⁵ Given the likelihood that the City’s elderly population will grow, it is possible that additional nursing homes will be needed within the next 20 years.

¹³⁸ Butler Hospital

¹³⁹ <http://www.lifespan.org/tmh/about/>

¹⁴⁰ <http://www.lifespan.org/rih/about/stats.htm>

¹⁴¹ Office of Administration, Roger Williams Hospital

¹⁴² Department of Public Relations, Veteran’s Hospital and <http://www.va.gov/visnl/providence/>

¹⁴³ <http://www.womenandinfants.org/documents/WI2011booklet.pdf>

¹⁴⁴ Department of Public Relations, Veteran’s Hospital and <http://www.va.gov/visnl/providence/>

¹⁴⁵ Providence Plan research, (InfoUsa, Crossroads, City of Providence)

Education

Public Schools

There are 40 active schools run by the Providence School Department, with a total enrollment of 23,561 students.

Realizing the Dream is the Providence Public School District's comprehensive strategic plan to accelerate student achievement. Components of the strategic plan include a new college ready vision and mission; guiding beliefs; district goals; and district priorities and reform strategies.

Providence Public School District Priorities

Vision

The Providence Public School District will be a national leader in educating urban youth.

Mission

The Providence Public School District will prepare all students to succeed in the nation's colleges and universities and in their chosen professions.

Guiding Beliefs

- All children can achieve at high levels.
- The education of Providence's youth is the collective responsibility of the entire City: schools, district, partners, businesses and the broader community.
- It is the responsibility of district and school staff to work collaboratively to create a school culture that supports teaching and learning by:
 - ensuring that the right people are in the right positions and
 - doing the "right things" and doing them right the first time.
- All individuals associated with schools and the school district will demonstrate respect for others.
- Strong leadership and highly qualified teachers are absolute requirements for reaching the District's vision and mission.
- Students, staff and community partners will demonstrate truthful, moral and non-discriminatory conduct.

District Goals

- Increasing student achievement
- Building capacity through an infrastructure of support
- Strengthening parent and community engagement

District Priorities

1. **Effective Academic Programs:** All Teaching and Learning programs are research-based and outcomes-driven.
2. **Cost Effectiveness:** This District is a responsible steward of the public trust and maximizes utilization of each dollar.
3. **Safe, Caring & Orderly Schools:** All schools are safe, caring and orderly to enable all teachers to teach and all students to learn.
4. **Public Confidence in the School Department:** The community has confidence in Providence Public Schools and the District office.

Strategies for Achieving Priorities

Priority 1: Effective Academic Programs

- A. **Develop and implement Providence Effective Schools Initiative (PESI):** This initiative is designed to create a school culture that supports teaching and learning. It is grounded in research and best practices in professional development and school culture, as well as in the “Seven Correlates of Highly Effective Schools.”
 - **Principal as Leader:** The principal leads, manages and communicates the total instructional program to staff, students and parents.
 - **Clearly Stated Vision and Mission:** The school’s vision/mission is clearly articulated and understood.
 - **High Expectations:** The staff believes, demonstrates and promotes the belief that all students can achieve at high-level.
 - **Assessment and Monitoring:** Student academic progress is monitored frequently with a variety of measures.
 - **Instructional Delivery:** Teachers consistently use effective teaching practices and allocate a significant amount of time to instruction in essential content and skill areas.
 - **Safe, Caring and Orderly Environment:** The school’s atmosphere is orderly, caring, purposeful and businesslike.
 - **Parent and Community Involvement:** Parents support the school’s mission and play an active role in its achievement.
 - **Professional Development:** Professional development for all faculty and staff supports the instructional program.
 - **School Culture:** The school’s culture (climate) is responsive to and supports the needs of the students, parents and community.
 - **Ethics in Learning:** The school community is innovative in modeling and building a school culture that is characterized by integrity, fairness and ethical practice.
- B. Implement K-8 schools
- C. Extended learning opportunities
- D. Institute full-service schools
- E. Review and revise district’s vision and mission
- F. Ensure highly qualified teachers in every classroom
- G. Implement high school renewal plan
- H. Improve instructional technology
- I. Develop the Providence Education Foundation
- J. Revise HR policies, procedures and practices .
- K. Evaluate and restructure programs including
 - K-12 curriculum and instructional methods
 - English Language Learner Services
 - Special education
 - Fine arts (music, art, etc.)
 - Athletics
 - Health and physical education

Priority 2: Cost Effectiveness

- A. Best financial practices
- B. Continue the pursuit of external funding (grants from foundations, governmental agencies, etc.)
- C. Curriculum audits

Priority 3: Safe, Caring and Orderly Schools

- A. Complete review and revision of Code of Conduct
- B. Promote and explore uniforms for elementary and middle school students
- C. Review and expand emergency management plan and readiness level of school staff
- D. Develop strategic plan for facility improvement
- E. Alternative Schools

Priority 4: Increasing Public Confidence

- A. Create and implement a communications plan
- B. Finalize implementation of a district call center
- C. Expand adult education for parents
- D. Increase involvement and coordination of key stakeholders
- E. Increase collaboration with Unions and professional associations
- F. Build consensus and support among local, state and national governmental stakeholders

2010 Facilities Master Plan

In 2010, the Providence Public School District (PPSD) hired Fanning Howey to update *Realizing the Dream* and create a new Facilities Master Plan. To address PPSSD's declining enrollment and outdated school facilities, Fanning Howey, together with StudioJAED and Gilbane, developed a series of recommendations. See Table A.48 Facility Recommendations for a detailed summary of their rehabilitation and reconstruction recommendations and cost estimates.

Table A.48 Facility Recommendations

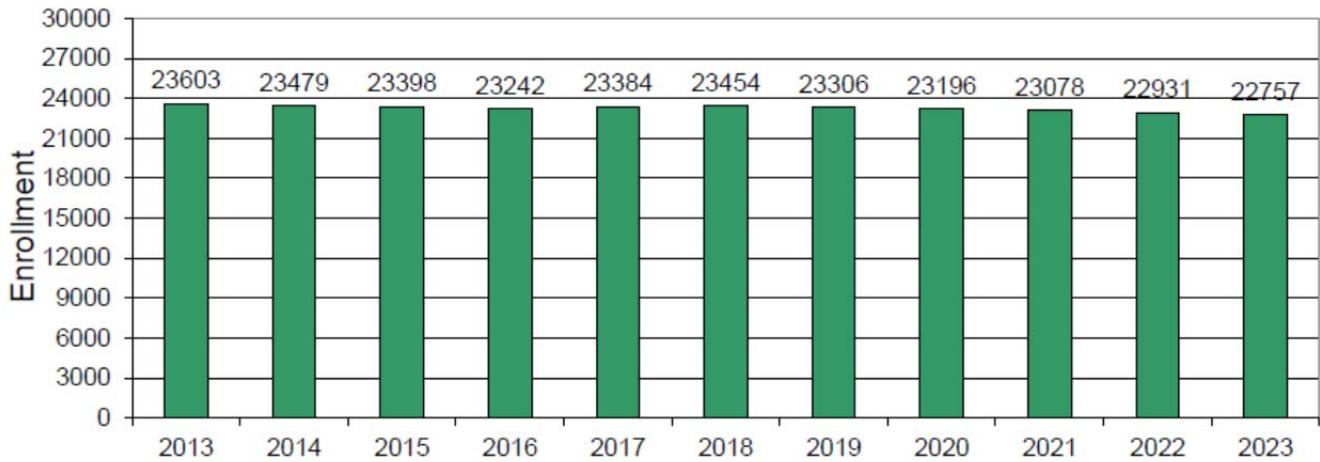
School Name	Level	Conclusion	2008-09 Enrollment	Capacity	Geographic Context	AYP Phase Met (2009-10)	Educational Adequacy	Facility Condition Index	Expenditure	Implementation
9th Grade Academy	HS	Program Closed	0	170	1	IP	44		\$0.00	Close Building
Bridgham	MS	Land Bank	614	724	2	IP	38	0.52	\$322,075.95	Close Building
Fenstein	HS	Poor Building	356	420	3	IP	61	0.68	\$58,780.82	Close Building
Fenstein @ Sackett	ES	Addition/reconfiguration	452	570	8	IP	34	0.52	\$0.00	Close Building
Messer Annex	ES	Return to City Inventory	153	156	3		41	1.04	\$0.00	Close Building
Perry	MS	Need to reduce Middle Capacity	604	869	2	MET	47	0.72	\$275,996.83	Close Building
Windmill	ES	Geographic Context	376	480	1	IP	42	0.64	\$164,601.97	Close Building
Classical	HS	Successful Program in Poor Building	1003	1149	2	MET	57	0.63	\$167,188.54	Modernize
D/Abate	ES	Successful Program in Poor Building	412	428	6	MET	47	0.59	\$771,588.28	Modernize
Flynn	ES	Successful Program in Poor Building	501	598	6	MET	43	0.7	\$395,233.27	Modernize
Greene	MS	Successful Program in Poor Building	840	940	0	MET	46	0.62	\$0.00	Modernize
Gregorian	ES	Successful Program in Poor Building	369	452	0	MET	40	0.64	\$2,339,411.25	Modernize
Hope Arts	HS	Poor Building, Geographic Context	340	1386	0	IP	53	0.71	\$1,886,039.37	Modernize
Hope IT	HS	Poor Building, Geographic Context	416	1386*	0	IP	53	0.71*		Modernize
Hopkins	MS	Successful Program in Poor Building	424	587	0	MET	48	0.61	\$0.00	Modernize
King	ES	Successful Program in Poor Building	498	700	0	MET	48	0.65	\$378,739.27	Modernize
Laurel Hill	ES	Successful Program in Poor Building	378	468	4	MET	43	0.85	\$499,708.00	Modernize
Laurel Hill Annex	ES	Successful Program in Poor Building	210	260	4		45	0.88	\$0.00	Modernize
Lauro	ES	Successful Program in Poor Building	796	894	1	MET	44	0.66	\$653,247.49	Modernize
Mount Pleasant	HS	Poor Building, Geographic Context	1157	1351	0	IP	53	0.81	\$984,665.09	Modernize
Pleasant View	ES	Poor Building	439	566	1	IP	37	0.71	\$1,022,063.54	Modernize
Reservoir	ES	Successful Program in Poor Building	236	312	5	MET	27	0.78	\$406,455.70	Modernize
Webster	ES	Successful Program in Poor Building	310	388	4	MET	47	0.61	\$170,963.82	Modernize
West Broadway @ Bainbridge Street	ES	Open as part of Messer Campus	0	570	3		32	0.85	\$325,303.20	Modernize
West ES	ES	Poor Building	665	870	3	IP	40	0.7	\$310,248.31	Modernize
Hope Leadership	HS	Program Closed	403	1386*	0	IP		*		Program Closed
West Broadway @ DelSesto	ES	Move program to Lauro as K-8	415	400	3	MET	68	0.05	\$0.00	Relocate West Broadway to Lauro
Fenstein @ Broad	ES	Successful Program, Poor EA	355	466	3	MET	43	0.5	\$0.00	Renovate/Reconfigure
Fogarty	ES	Fair EA, Fair FCI	434	518	7	IP	48	0.6	\$0.00	Renovate/Reconfigure
Fortes Annex	ES	Fair EA	157	194	1		57	0.02	\$0.00	Renovate/Reconfigure
Kennedy	ES	Fair EA, Fair FCI	521	532	2	IP	50	0.6	\$303,210.62	Renovate/Reconfigure
Kizirian	ES	Poor EA, Fair FCI	544	636	0	IP	40	0.6	\$0.00	Renovate/Reconfigure
Lima Annex	ES	Fair EA	187	220	1		57	0.02	\$0.00	Renovate/Reconfigure
Messer	ES	Fair EA, Fair FCI	239	324	5	IP	48	0.59	\$0.00	Renovate/Reconfigure
Stuart	MS	Fair EA, Fair FCI	672	921	2	IP	52	0.59	\$424,050.89	Renovate/Reconfigure
Veazie	ES	Successful Program, Fair EA, FCI	554	674	2	MET	52	0.44	\$293,085.18	Renovate/Reconfigure
Williams	MS	Successful Program, Fair EA, FCI	722	899	1	MET	47	0.59	\$0.00	Renovate/Reconfigure
Avarez	HS	Recently Modernized	492	641	3	IP	62	0.08	\$0.00	Routine / Preventative Maintenance
Bailey	ES	Recently Modernized	354	440	7	MET	65	0.005	\$0.00	Routine / Preventative Maintenance
Bishop	MS	Recently Modernized	0	816	0	NA	75	0	\$35,000,000.00	Routine / Preventative Maintenance
Carnevale	ES	Recently Modernized	562	740	4	MET	72	0.02	\$28,568.03	Routine / Preventative Maintenance
Central HS	HS	Recently Modernized	1159	1445	2	IP	69	0.05	\$38,000,000.00	Routine / Preventative Maintenance
Coolley	HS	Recently Modernized	355	440	3	IP	63	0.07	\$0.00	Routine / Preventative Maintenance
DelSesto	MS	Recently Modernized	398	1108	1	MET	68	0.05	\$398,582.05	Routine / Preventative Maintenance
E-Cubed	HS	Recently Modernized	307	440	0	IP	62	0.04	\$0.00	Routine / Preventative Maintenance
Fortes	ES	Recently Modernized	348	494	7	IP	69	0.21	\$0.00	Routine / Preventative Maintenance
Lima	ES	Recently Modernized	248	312	7	MET	71	0.19	\$0.00	Routine / Preventative Maintenance
PAIS	HS	Recently Modernized	377	430	3	IP	63	0.07	\$0.00	Routine / Preventative Maintenance
PCTA/Hanley	HS	Recently Modernized	245	800	2	MET	74	0	\$91,000,000.00	Routine / Preventative Maintenance
Woods	ES	Recently Modernized	288	802	7	IP	62	0.27	\$0.00	Routine / Preventative Maintenance
Young	ES	Recently Modernized	310	802*	7	IP	62	0.27	\$0.00	Routine / Preventative Maintenance

Source: Facilities Master Plan Providence Public School District Final Recommendations, February 2010

Projected School Enrollment

PPSD’s most recent student enrollment projections indicate that the total student body will decrease over the next 10 years. Despite this overall decrease, 9th grade – 12th grade student enrollment is expected to increase slightly and therefore, additional investment in high school facilities may be necessary.

Figure A.17 PK – 12 Enrollment Projections Based on Data through School Year 2013-14



Source: New England School Development Council, Providence RI Report, November 2013

Table A.49 Enrollment Projections by Grade

School District: Providence, RI 11/18/2013

Enrollment Projections by Grade*																			
Birth Year	Births	School Year	PK	K	1	2	3	4	5	6	7	8	9	10	11	12	UNGR	K-12	PK-12
2008	2934	2013-14	333	2035	2033	2003	1891	1950	1851	1823	1760	1544	1817	1708	1515	1340	0	23270	23603
2009	2750	2014-15	338	1806	2077	2002	1967	1872	1929	1827	1744	1740	1902	1454	1475	1346	0	23141	23479
2010	2711	2015-16	343	1779	1843	2048	1866	1948	1852	1904	1748	1725	2156	1522	1255	1311	0	23055	23398
2011	2610	(prov.) 2016-17	348	1710	1816	1815	2010	1947	1927	1828	1821	1728	2137	1726	1314	1115	0	22894	23242
2012	2794	(est.) 2017-18	353	1836	1745	1789	1783	1990	1926	1902	1749	1801	2141	1711	1490	1168	0	23031	23384
2013	2759.8	(est.) 2018-19	358	1813	1874	1719	1757	1765	1969	1901	1819	1729	2235	1714	1477	1324	0	23096	23454
2014	2724.96	(est.) 2019-20	363	1789	1850	1846	1888	1740	1746	1944	1818	1799	2142	1789	1480	1312	0	22943	23306
2015	2719.952	(est.) 2020-21	368	1785	1826	1822	1813	1671	1721	1724	1860	1798	2233	1715	1545	1315	0	22828	23196
2016	2721.742	(est.) 2021-22	373	1787	1822	1799	1790	1795	1653	1899	1649	1839	2231	1787	1481	1373	0	22705	23078
2017	2744.091	(est.) 2022-23	378	1802	1824	1795	1767	1772	1776	1632	1625	1631	2284	1786	1543	1316	0	22553	22931
2018	2734.109	(est.) 2023-24	383	1795	1839	1797	1783	1750	1753	1561	1607	2015	1828	1542	1371	0	22374	22757	

*Projections should be updated on an annual basis.

Note: From 2014-15 onward, NESDEC has subtracted 88 Kindergarten students each year due to the opening of two new Charter schools; and 100 from Grade 9 for the new STEM Charter school

Source: New England School Development Council, Providence RI Report, November 2013

Table A.50 Projected Enrollment in Grade Combinations

Projected Enrollment in Grade Combinations*									
Year	K-4	K-5	K-6	K-8	5-8	6-8	7-8	7-12	9-12
2013-14	9912	11763	13586	16890	6978	5127	3304	9684	6380
2014-15	9724	11653	13480	16964	7240	5311	3484	9661	6177
2015-16	9582	11434	13338	16811	7229	5377	3473	9717	6244
2016-17	9298	11225	13053	16602	7304	5377	3549	9841	6292
2017-18	9143	11069	12971	16521	7378	5452	3550	10060	6510
2018-19	8928	10897	12798	16346	7418	5449	3548	10298	6750
2019-20	8913	10859	12603	16220	7307	5561	3617	10340	6723
2020-21	8917	10838	12362	16020	7103	5382	3658	10466	6908
2021-22	8993	10846	12345	15833	6840	5187	3488	10360	6872
2022-23	8960	10736	12368	15624	6664	4888	3256	10185	6929
2023-24	8944	10697	12450	15618	6674	4921	3168	9924	6756

Source: New England School Development Council, Providence RI Report, November 2013

Independent Public Schools

There are a number of charter schools in Providence that are licensed by the state Department of Education.

Providence After School Alliance:

The Providence After School Alliance (PASA) is a partnership of public and private organizations working to expand and improve after school opportunities for youth. PASA does not provide programming directly, but rather acts as an intermediary organizing and assisting existing providers. PASA has divided Providence into five regions it calls “AfterZones,” which allow it to target its services at the highest concentrations of youth and foster a sense of community within regions of the city.

Private Schools

Providence has 30 private schools, of which eleven are Catholic and two Jewish. Total enrollment in private schools for the fall of 2009 was 6,460. However, some of these schools attract a significant number of students from outside the city limits

Colleges and Universities

Relative to the overall population of the city, Providence has a substantial student population, and institutions of higher education are important parts of the city’s culture and economy. Overall student enrollment at local colleges and universities has been increasing (Table A.51 ‘College and University Enrollment’).

Table A.51 College and University Enrollment

College or University	Total Enrollment	Estimated Number of Students Living Off Campus
Brown University	7,809 ¹⁴⁶	1,562 ¹⁴⁷
Johnson & Wales University	10,848 ¹⁴⁸	6,909 ¹⁴⁹
Providence College	4,500 ¹⁵⁰	990 ¹⁵¹
Rhode Island College	9,044 ¹⁵²	7,660 ¹⁵³
Rhode Island School of Design	2,406 ¹⁵⁴	1,027 ¹⁵⁵
University of Rhode Island (Feinstein)	4,400 ¹⁵⁶	4,400
Total	38,607	22,148

¹⁴⁶ <http://www.brown.edu/web/facts.shtml>

¹⁴⁷ http://www.brown.edu/Administration/Institutional_Research/documents/CDS_2010-11_Brown.pdf

¹⁴⁸ Eileen Richardson, Office of Research and Development, Johnson & Wales Univ.

¹⁴⁹ <http://www.jwu.edu/prov/reslife/halls.htm>

¹⁵⁰ <http://www.providence.edu/academic-affairs/assessment/Documents/Common%20Data%20Set%202009-2010.pdf>

¹⁵¹ <http://www.providence.edu/academic-affairs/assessment/Documents/Common%20Data%20Set%202009-2010.pdf>

¹⁵² <http://www.ric.edu/oirp/pdf/OfficialEnrollmentReportFall2011.pdf>

¹⁵³ <http://www.ric.edu/oirp/pdf/CommonDataSet2011-2012.pdf>

¹⁵⁴ http://www.risd.edu/About/FAQs_Facts/

¹⁵⁵ Brian Janes, RISD Director of Residential Life

¹⁵⁶ <http://autocrat.uri.edu/1345.html>

Highway Department

The Highway Department Maintains 370 miles of City-owned roads and nearly twice that amount of sidewalks. It is responsible for snow operations (sanding, salting and plowing), painting, installing guardrails, pothole repair, handicapped curb cuts, small roadway resurfacing, curb settings, traffic island installations and drainage patches.

Bridge Maintenance

The Bridge Division is responsible for the maintenance of the 53 City-owned bridges. Responsibilities of this division include the replacement of rotted and deteriorated wooden stringers, asphalt patching, fence and guardrail installations and painting. Major repairs are contracted to private vendors.

Sewer Construction

The Sewer Division maintains the City-owned storm and sanitary sewer lines, 20,000 manholes, 4,000 inlets and 12,000 catch basins.

Garage Maintenance

The Garage Division is responsible for the entire Department's rolling stock of vehicles and equipment. Personnel install and maintain all sanding and plowing equipment, backhoes and compressors, and perform routine and other maintenance of vehicles and miscellaneous equipment.

Assessment of Public Works Facilities and Services

Public Rights of Way

The conditions of the city's public rights of way, which include streets, sidewalks and bridges, range from poor to excellent. The Pavement Needs and Management Program serves as a planning tool for the maintenance of these public rights of way. The 1996 and 2000 Neighborhood Bond Funds have been used to support the resurfacing of roads and sidewalks citywide. The computerized management system evaluated the structural integrity of the 53 city-owned bridges.

Fox Point Hurricane Barrier

The Fox Point Hurricane Barrier is operable and will effectively prevent a storm surge from inundating downtown Providence. The facility has been transferred from city ownership to the U.S. Army Corps of Engineers.

Transfer Station

The City of Providence's Transfer Station has been closed since September 2011 for security reasons.

Rolling Stock

The city's Department of Public Works maintains a fleet of approximately 141 cars and trucks, and 16 other utility vehicles such as street sweepers, forklifts, etc. The condition of the city's rolling stock of vehicles and equipment ranges from fair to excellent, due to the age of the vehicles, which ranges from 1967 to 2004. The Department of Public Works routinely requests upgraded equipment in its Capital Improvement Program requests.

Human Services

Human services are provided to Providence residents through a combination of state, local and private organizations. These include the State Departments of Human Services, Health and Retardation, Health, Elderly Affairs, and the Institute of Mental Health. Local and other organizations include the Mayor's Drug Taskforce, and private organizations such as the Providence Community Action Program, a consortium of multi-service centers, United Way, the Urban League and other private organizations.

Funding for these human service programs is from federal, state and private sources; while responsibilities for service delivery often overlaps depending on the location and type of the service provided.

The Providence Department of Planning and Development allocates and distributes Community Development Block Grants (CDBG) from the Federal Housing and Urban Development Agency. The City allocates between 15-20% of its CDBG funds to support human services in the city. Funds are distributed annually on a competitive basis, with community centers traditionally receiving a substantial percentage of the funds.

The City, through several departments and support agencies is involved in: substance abuse programs; providing assistance to the elderly and homeless; acting as the City's representative in addressing the AIDS crisis; and, conducting a human services needs assessment.

The Providence Community Action Program, Inc. (Pro-CAP) is a private nonprofit organization that is aimed at fighting poverty at the local level. Pro-CAP provides a variety of services and programs, at different locations in the City and supported by federal, state and private funding. In 1989 it was estimated that at least one in every five city residents received help from a program administered by Pro-CAP. These programs include federal commodities distribution, emergency shelter/interim housing for women and families, home heating assistance, adult basic education, supportive services, and housing assistance services.

In addition to Pro-CAP there are several other private organizations that deliver human services in the City. There is a consortium of multi-service centers located in the city. Each multi-service center is run independently, with its own Board of Directors, staff and funding/support. These centers provide services that are specifically required by the local community served by each center. Examples of these services include child care, counseling, information and comprehensive referral for social services, emergency food and clothing, language classes, senior citizen programs, youth programs, adult education programs, nutrition programs, specific health screenings, and general community services such as scouts and cadets. The centers respond as quickly as possible to changing needs, based on changing demographic characteristics of the serviced population. The multi-service community centers include:

- DaVinci Center for Community Progress;
- Elmwood Community Center;
- Federal Hill House Association;
- Hartford Park Community Center;
- Joslin Community Center;
- Mount Hope Neighborhood Association;
- Nickerson Community Center;

- Silver Lake Annex Center;
- Capitol City Community Centers;
- Washington Park Community Center; and,
- West End Community Center.

Funding for the multi-service centers is from a combination of the Child Care Food Program, CDBG funds, CSBG funds, RI Department of Human Services, Legislative Grants, Department of Elderly Affairs, United Way and fund raising and donations.

On any one funding round, the multi-service centers, Pro-CAP and other service providers could all compete with each other for funds. Coordination of funding and services provided would strengthen the ability of the service providers to operate in the City.

There is a myriad of other agencies providing human services include the United Way, the Urban League, Vietnam Veterans Association, International Institute and the Visiting Nurses Association. As the city's population has diversified, there has also been an expansion of agencies that are dedicated to the needs of immigration, cultural assimilation and reducing linguistic isolation.

A significant portion of City residents receive some form of public assistance. Twelve percent of the population receives assistance for families with dependent children (AFDC); two percent receive General Public Assistance (GPA); seventeen percent receive food stamps, four percent receive social security insurance, and three percent receive medical assistance.

Providence also has 14 senior centers offering volunteer opportunities, recreation, group activities, counseling, information and referral, and continuing education to the elderly. Some centers also provide hot lunches, outreach, transportation, and health services. These centers are:

- DaVinci Community Center
- East Side Senior Center
- Elmwood Senior Center
- Federal Hill Community Center
- Fox Point Senior Center
- Hamilton House Senior Center
- Hartford Park Senior Center
- Jewish Community Center
- Nickerson House Senior Center
- Silver Lake Annex Center
- Smith Hill Senior Center
- St. Martin dePorres Senior Center
- Washington Park Community Center
- Westminster Senior Center

Overall, funding for senior services is not distinguished from human services funding in general. Some senior centers are located within community centers which serve many different needs in the local neighborhoods.

Other housing, nutrition, transportation, and social services are extended to seniors in a variety of city programs that are not specifically dedicated to the elderly.

Given the likelihood that Providence's elderly population will increase in the coming years, more services may be required. The Mt. Pleasant/Elmhurst neighborhood currently lacks a senior center. The Westminster Senior Center, in downtown Providence, receives no city funding for its operations. Transportation services for the elderly, which now only provide rides to and from medical appointments and meal programs, do not address the need for transportation to shopping centers, social and recreational activities, and personal care providers such as hairdressers. Finally, adult day care centers, providing a safe, supervised environment for frail elderly and functionally challenged adults, may become more needed.

The City provides some property tax relief to its senior citizens in the form of deductions and homestead exemptions. (The homestead exemption is available to all eligible homeowners, not just the elderly.)

With the change in the demographic structure of the city, the demands on the human service delivery system is expected to increase significantly. The critical issues facing City and private social and human service agencies include: the homeless; the changing needs of the new ethnic communities; location of group homes; funding for human and social service provision; affordable housing; adolescent pregnancy and teen parents; substance abuse; and, elderly programs.

Human services programs have adapted and continue to adapt to address these issues. Continued public and private sector fund raising efforts will be necessary to support human service programs, as will expanding the public/private network of agencies and support groups which serve as basic human service providers.

Library Services

Library services in Providence are provided by the Providence Public Library and the Providence Community Library.

Providence Public Library

Founded in 1875, the Providence Public Library is a private, non-profit corporation consisting of the central library downtown. The Library serves both the residents of the city of Providence and those of the state and provides back-up assistance to other public libraries in Rhode Island. The mission of the Library is to provide and facilitate access to information for the community at-large and other libraries by offering materials, staff support and centers for meeting and learning.

Since 1989 the Central Library has served as the State Reference Resource Center (R.I. General Law 29-6-9). Residents of the state call or come directly to the Central Library to meet their needs for specialized information, library services or materials. Others receive materials at their local public library obtained from PPL. Library staff offers training workshops for staff at other public libraries and provides leadership and support in identifying and advocating innovations that enhance library services statewide.

The Providence Public Library serves as the central site for the Cooperating Libraries Automated Network (CLAN), a consortium of public libraries in Rhode Island sharing a computer network for cataloging and lending library materials and providing easy access to member libraries' resources.

The Library houses and operates the central computer system which services the 48 CLAN members with online circulation, a patron database, a MARC bibliographic database, and an online public access catalog. The system, as currently configured, has over 500 terminals in 73 locations throughout Rhode Island. The Data Processing Department is responsible for day-to-day operation and maintenance of the system, including backup of the database, troubleshooting system problems, troubleshooting peripheral equipment problems at all member libraries, answering questions from users and general system and database maintenance. The department is also responsible for the operation of the telecommunications network, which provides both local and Internet services for the 73 remote locations throughout the state. The staff provides training in basic system functions for new member libraries and ongoing training for existing members on request. The Library's Assistant Director Support Services and Head of Data Processing are responsible for detailed operational planning and implementation. Examples of this work include major hardware and software upgrades and the installation of the telecommunications network.

Providence Community Library

Providence Community Library (PCL), a 501(c)(3) not-for-profit organization, assumed management of Providence's nine neighborhood libraries in July 2009 after the Providence Public Library determined that it lacked the resources to manage its branches. In response to Providence Public Library's move to close its branches and reduce services, a dedicated group of volunteers established PCL and sought city support to manage all nine neighborhood libraries. The City of Providence, opposed to PPL's planned closings, took control of the nine branches and assigned their management to PCL on July 1, 2009.

PCL provides free, accessible library services to improve and enrich the lives of the people of Providence. Our community libraries serve as vibrant hubs within the neighborhoods of Providence, providing programs and services that respond to the needs of the community.

The PCL Mission is to

- provide a safe physical space where people of all ages can enjoy acquiring, assimilating and sharing information and knowledge to enrich their own lives and that of the community;
- make available, free of charge, a wide variety of books and other materials from PCL's own collections and, through inter-library loans, from any library collections in the State, for patrons of all ages to borrow for their enjoyment, education and personal and professional development;
- serve as an out of school time learning center for children, offering after-school programs, homework assistance, and early childhood story-times;
- assist people in reaching their personal literacy goals and enhancing life skills in order to fulfill their responsibilities as parents, citizens and workers;
- provide access to computers and Internet services and resources to enable them to obtain and utilize information from the digital world.

There are fifteen other libraries in the city, including those at colleges and universities.

General Government

The administrative offices of City Government are housed in at least eight buildings, two of which are leased, located throughout the city. At present space requirements are adequately met for most departments, although there are various discrepancies in the quality of office space and equipment between departments and agencies.

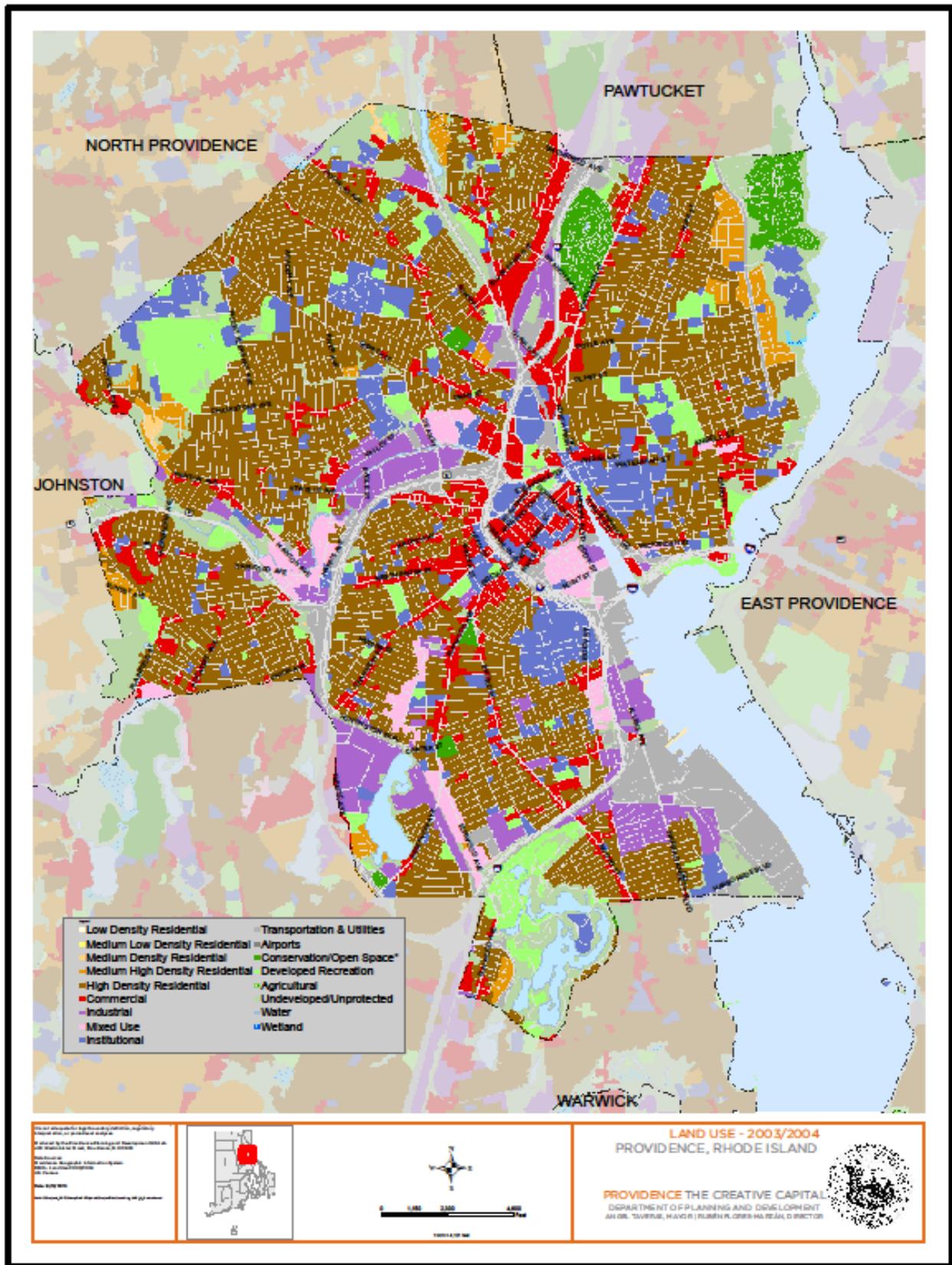
Personal and real property owned by the City is the responsibility of the Department of Public Properties. These include buildings, real estate, schools, civic property and any property associated with a city agency. The Department is currently involved with the renovation of the schools, renovation of 14 fire stations, and the renovation of four recreation facilities including, the Joslin, Danforth, South Providence, and Zuccolo facilities.

To assist with the development and maintenance of public buildings, the City established the Providence Building Authority, which has the power to float bonds, and does not require a City referendum for securing funding for public projects.

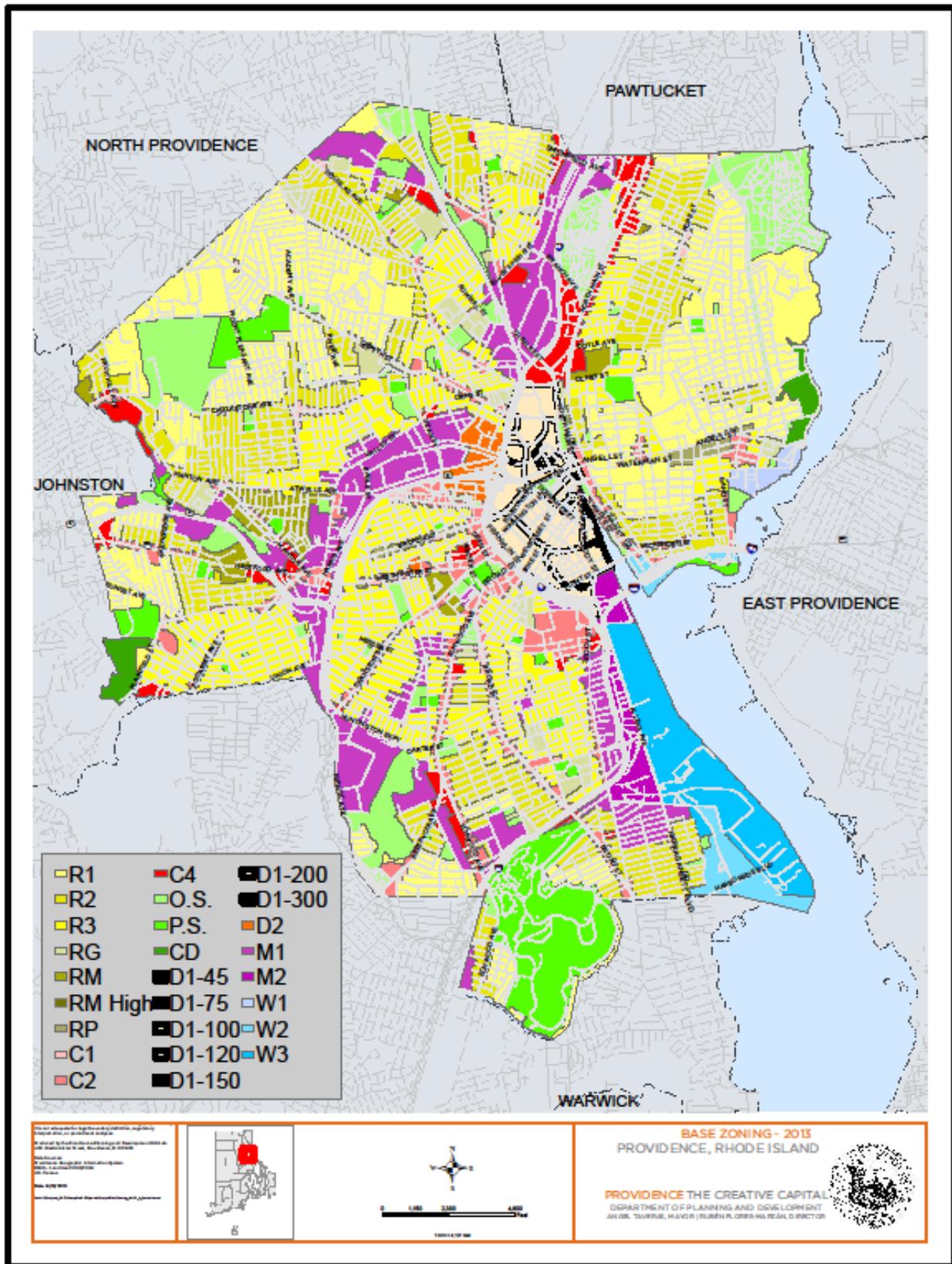
A.11 Land Use and Zoning

Map A.17 Existing Land Use Map displays the city's current land use and Map A.18 Existing Zoning Map displays the city's current zoning. The following series of maps (Map A. 19 – 21) is from Providence 2000: The Comprehensive Plan. These maps were drawn by hand and distinguished uses with hatch marks. Residential, non-residential, and institutional uses are presented on three separate maps. In this plan, these maps are combined to form one land use map, color-coded by land use.

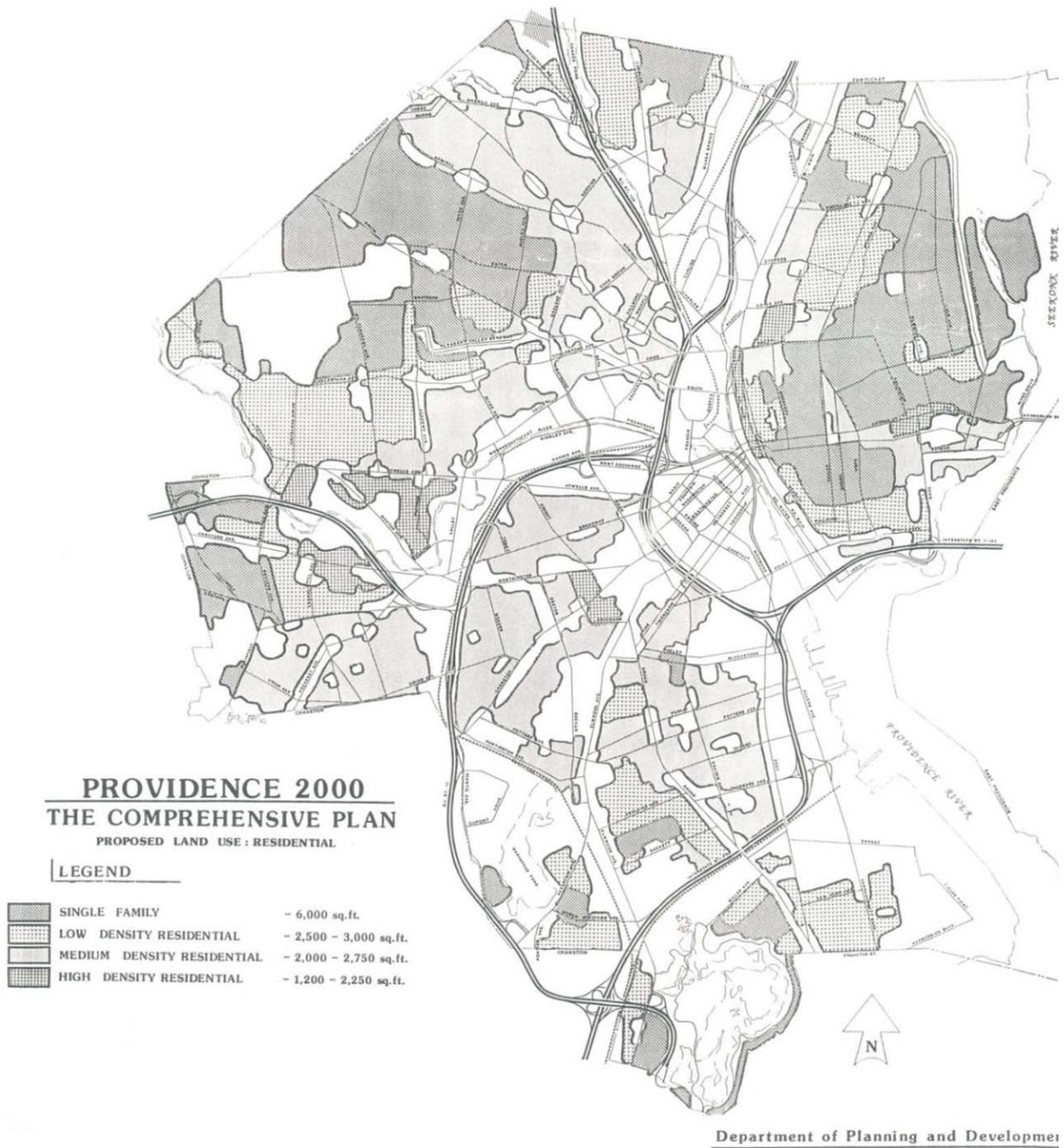
Map A.17 Existing Land Use Map



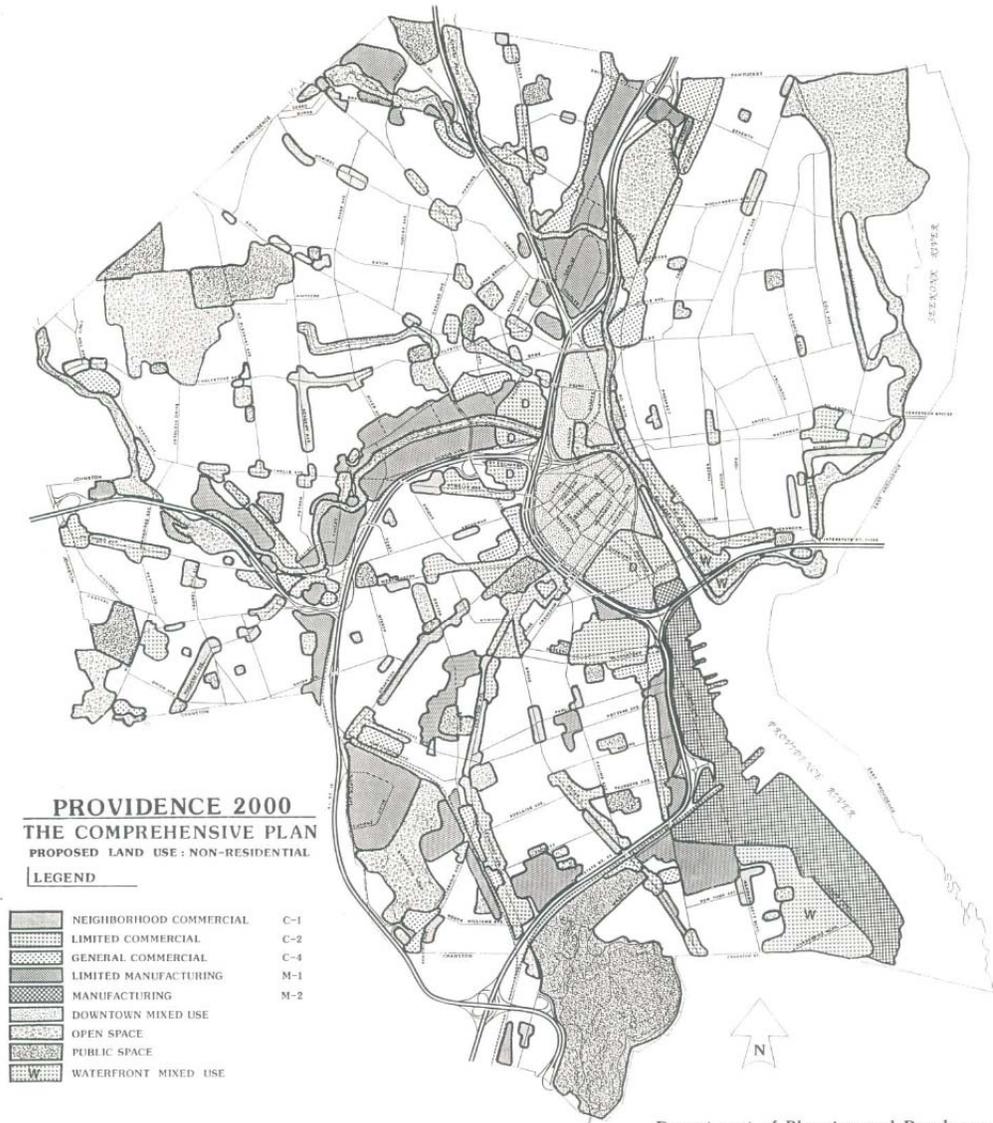
Map A.18 Existing Zoning Map



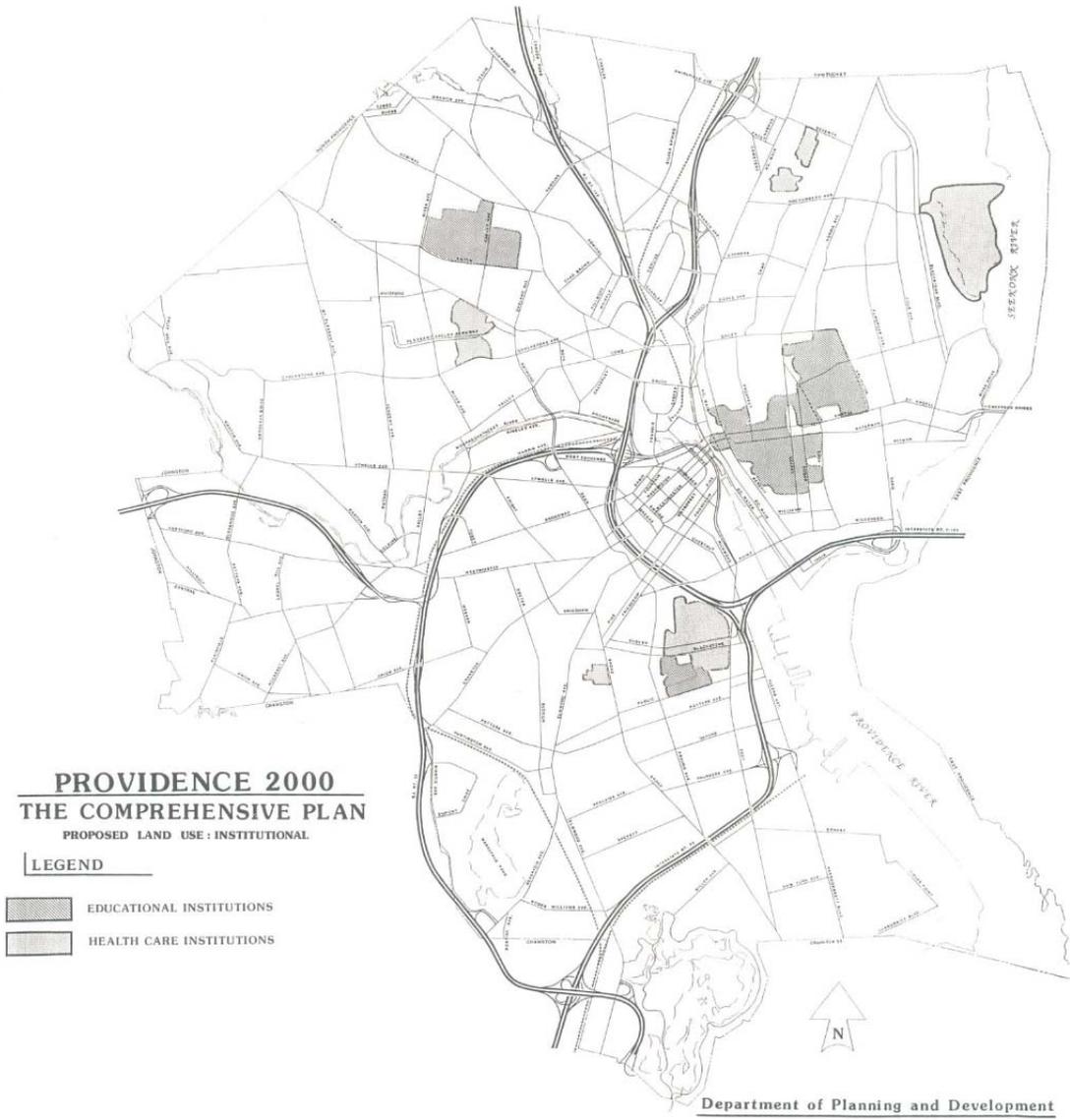
Map A.19 Residential Land Use Map



Map A.20 Non-residential land uses

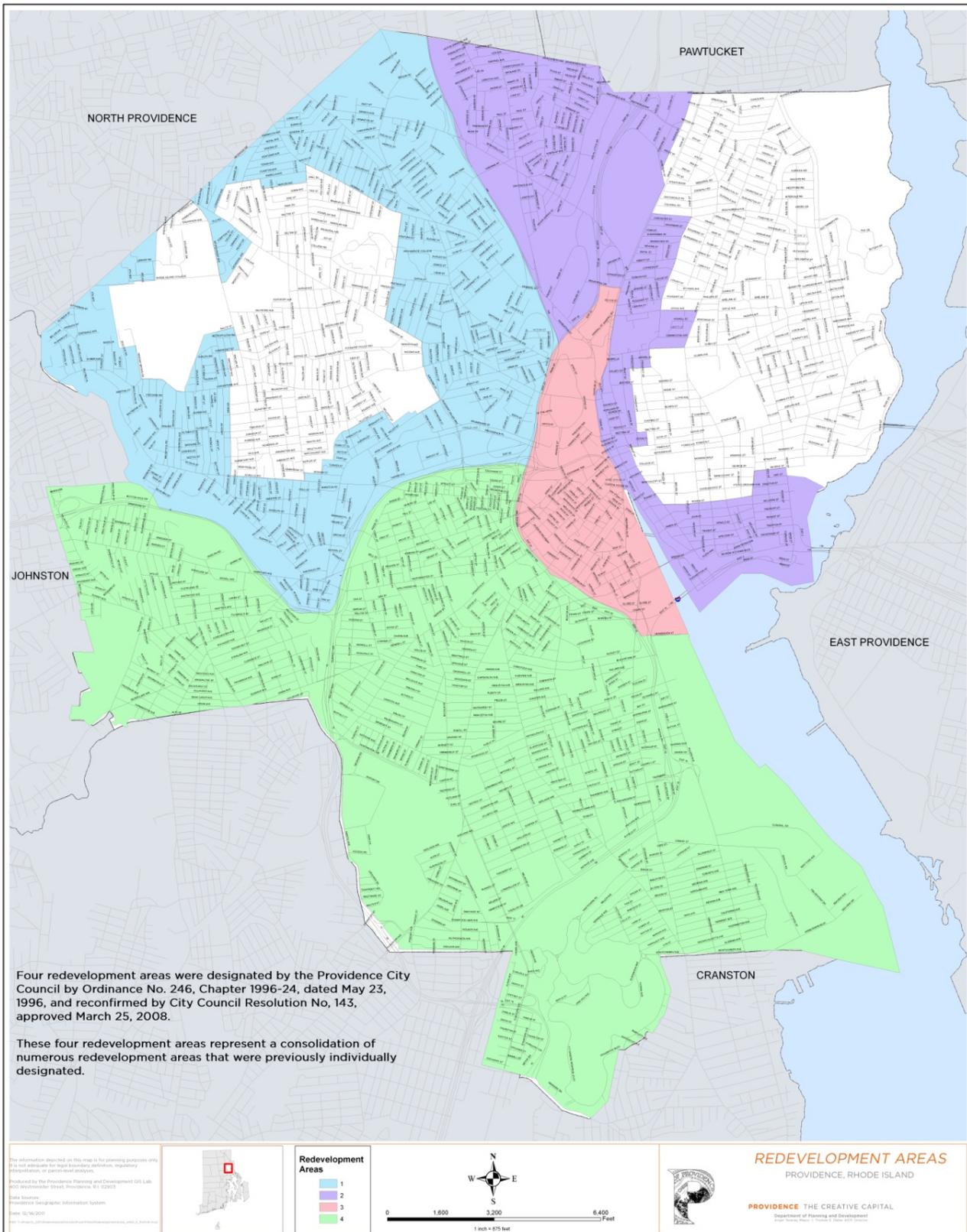


Map A.21 Institutional Land Uses



Map A.22 Redevelopment Area Map

This map identifies the four redevelopment areas within the City.



A.12 The Waterfront

Coastal Resources and Surface Water

The City of Providence is traversed by the West River, the Woonasquatucket River, the Moshassuck River, and the Providence River. The Woonasquatucket and Moshassuck are channelized in downtown Providence. The Seekonk River, which flows into the Providence River and then into Narragansett Bay, forms the eastern boundary of the City. Canada Pond and Mashapaug Pond are large bodies of fresh water in the City. Other ponds include Geneva and Whipple's ponds. Several ponds are located in Roger Williams Park, including Roosevelt Lake, Pleasure Lake, Deep Spring Lake, Fenner Pond, and Bellefont Pond.

The primary navigable waters within the boundaries of the City of Providence are Providence and Seekonk rivers. These rivers have been dredged for regular ship traffic and will continue to need periodic dredging. In addition to the commercial, industrial and cargo-related activities associated with the Port of Providence, these two rivers have a number of regular recreational users including crew teams and sailing groups. Navigable waters contribute to the coastal and cultural heritage of the city and provide economic development and recreational opportunities.

Rhode Island Water Quality Standards are administered and enforced by the Department of Environmental Management (DEM), Division of Water Resources. Surface and groundwater resources are classified according to their quality and possible uses for consumption and recreation or other activities. The Seekonk River is classified as Class SC, which is appropriate for boating, secondary recreational activities (i.e. not swimming), fish and wildlife habitats, and industrial cooling. The Providence River is also classified as Class SC. The Woonasquatucket River is a Class C river with the same uses considered appropriate. Significant water quality problems are associated with combined sewer overflows (CSOs), which discharge into the Moshassuck, West, Seekonk, Woonasquatucket and Providence Rivers. The cumulative discharges from these CSOs into Narragansett Bay over the past eight decades resulted in the permanent closing of 5,600 acres of shellfish beds due to bacterial contamination, and the degradation of the water quality and aesthetics of the city's rivers. The ongoing CSO abatement project is well on its way to eliminating this problem, but is still 10 to 15 years from completion (for greater detail see Community Services and Facilities).

Providence Harbor directly receives the discharges of homes, businesses, industries, and stormwater runoff. Protecting and preserving water quality are important considerations when weighing waterfront development options, particularly in relation to paving, drainage and runoff.

The City of Providence is located at the northern end of Narragansett Bay. The Port of Providence extends along a segment of the Providence River shore and is the state's principal general cargo and petroleum port. The Providence shipping channel is dredged to an authorized depth of 40 feet. Primary land uses along the coastline include industrial and commercial uses, public land, and the Fields Point Wastewater Treatment facility. Some segments of shoreline and water in the port area are in derelict condition, with abandoned piers and sunken barges.

The Coastal Resources Management Council (CRMC) is the primary agency charged with planning for and protecting all Rhode Island coastal areas and zones. Chapter 23 of the Rhode Island General Laws (RIGL) authorizes the Council to approve, modify, set conditions for, or reject proposals for development or operation within, above or beneath the inland edge of the coastal feature. The Port and adjacent waterfront area near Allens Avenue is classified by CRMC as a Type 6-Industrial Waterfront and Commercial Navigation Channel, which is defined as a water area that is extensively altered to accommodate commercial and industrial water-dependent and water-enhanced activities. See SAMP, below, for further details.

In 1984, the CRMC published a document entitled "Providence Harbor: A Special Area Management Plan." This document outlines specific policies and proposals for Providence Harbor, and seeks to achieve five (5) major goals:

1. Maintain balanced and compatible shoreline uses;
2. Improve water quality;
3. Encourage port development;
4. Increase shoreline recreational opportunities and public access; and
5. Encourage coordination and consultation.

A new Special Area Management Plan (SAMP) is being developed for the Metro Bay Region, which includes Providence, Pawtucket, East Providence, and Cranston. All development proposals that occur within two hundred (200) feet of the water's edge fall within the purview of the CRMC, and must conform to the policies determined by the Council. Water type classifications dictating water and near-land-side use are currently being reassessed (2007). This could result in reclassification of current type designations, redefined designations, or even creation of new water types. In 2006 CRMC also established the Urban Coastal Greenways (UCG) policy, providing optional regulations for projects located within CRMC jurisdiction in the Metro Bay Region. These regulations offer flexible options for urban coastal areas, such as compensation that allows an applicant to reduce UCG width in exchange for enhancements such as public access and habitat conservation.

The Metro Bay SAMP Inner Harbor and Rivers Zone covers that stretch of the Woonasquatucket River between the Providence Place Mall and Atwells Avenue. Recommendations for river restoration and revitalization of the river and its environs are being developed through CRMC in consultation with stakeholders and local government. This SAMP effort will also serve as guidance for implementation of the Urban Coastal Greenways policy.

"The Metro Bay Urban Coastal Greenways policy requires applicants within the Metro Bay SAMP area to use Low Impact Development (LID) to the greatest extent possible to manage storm water runoff. LID refers to a suite of storm water management techniques that aim to mimic the natural hydrology of a site. LID uses small-scale distributed practices that retain, filter, infiltrate or collect storm water on site for reuse, instead of collecting it in a sewer system and discharging it into surface water bodies. LID reduces storm water volumes and enhances groundwater recharge, protecting water quality and groundwater supplies. Because many LID techniques have vegetation incorporated into their design, they offer aesthetically pleasing storm water management methods that can enhance property values by doubling as landscape amenities. LID techniques can also be used as educational tools to raise awareness about storm water and its environmental effects. LID

techniques include rain gardens, vegetated swales, dry wells, cisterns for rainwater collection, pervious parking surfaces and green roofs."¹⁵⁷

Floodplain Areas

Floodplains are important natural features, providing extra storage capacity during storms too large to be accommodated by a river or water body, or too great to be absorbed into the ground. The City of Providence is subject to flooding, partly due to the funnel-like shape of Narragansett Bay, which amplifies the height of a storm surge as it moves up the Bay, resulting in the highest flood levels in the state occurring along the Providence River. To address this problem the Fox Point Hurricane Barrier was built at Fox Point in 1966 to protect the downtown area. The barrier requires frequent maintenance and improvement. The Army Corps of Engineers assumed control of the Hurricane Barrier in 2010.

Floodplain areas cover certain areas of the City and are influenced by: 1) hurricanes and strong storms along the waterfront, in areas not protected by the Hurricane Barrier at Fox Point; and 2) overflow from rivers, ponds and the accumulation of water in depressed areas due to sustained heavy rainfall and/or melting snow.

The Flood Insurance Rate Maps (FIRM), have been "modernized" (2007) by the Federal Emergency Management Agency (FEMA) and delineate eight flood zone classifications. The maps are now GIS-based and are more publicly accessible and user-friendly. The new maps do not include new data; an update is expected within the decade. The maps are on file in the Providence Department of Planning and Development. The Floodplain Management Guidelines (43 FR 6030) establish specific requirements of compliance with Executive Order 11988 by all federal agencies. Before any development may commence, the significance of a floodplain must be determined. Therefore, the project must conform with or significantly outweigh the following requirements of the Order to:

- Avoid direct or indirect support of floodplain development wherever a practicable alternative exists;
- Reduce the risk of flood loss;
- Minimize the impact of floods on human safety, health and welfare; and
- Restore and preserve the natural and beneficial floodplain values.

Sea Level Rise (SLR) is a growing concern. The 2001 Intergovernmental Panel on Climate Change (IPCC) model conservatively estimates a three to five foot rise by 2100 (some others predict higher SLR). SLR is caused primarily by thermal expansion of seawater, but also by melting glaciers and icecaps, reduced ice sheet surface mass (melting), and increased flow rate.

The 2007 State of Rhode Island Evacuation Study Inundation Map was prepared by the Army Corps of Engineers, New England Division in cooperation with FEMA Region I for the Rhode Island Emergency Management Agency (RIEMA).

¹⁵⁷ *Draft Recommendations for the Management of the Woonasquatucket River Promenade Street District, July 2, 2007*

Wetlands

Wetlands are those areas “inundated by surface or groundwater with a frequency sufficient to support vegetative or aquatic life.” They provide a filtering function and can contribute to the maintenance or enhancement of water quality. Wetlands include swamps, marshes, bogs, and similar areas. DEM rules enforce the Fresh Water Wetlands Act, restricting wetlands alterations and development. Although the City is 90 percent developed, wetland areas still exist, primarily within the base floodplain areas along the West River, the Woonasquatucket River, the Moshassuck River, the Seekonk River, and Mashapaug Pond.

Dams

There are 11 dams within the municipal boundaries (most of the city's ponds were formed by damming). According to RI DEM data supplied through Rhode Island Geographic Information Systems(RIGIS), there are no other dams apart from the eleven within the City that have a direct effect on property within Providence (Spectacle Pond Dam is near the line in Cranston but has no direct effect on Providence water bodies).

Appendix B Compliance with City and State Regulations

Providence Home Rule Charter and Code of Ordinances

Section 1014 of the Providence Home Rule Charter requires the City Plan Commission to prepare a comprehensive plan for the city. This charter provision identifies issues to be addressed in the plan as well as requirements for periodic evaluation, implementation and adoption procedures.

The City Code of Ordinances expands on this requirement and directs the City Plan Commission to make “careful studies of the construction, resources, possibilities and needs of the city with reference to its future and progressive development ...” (Section 2-249, Providence Code of Ordinances).

Rhode Island Comprehensive Planning and Land Use Regulation Act

In addition to serving as a key management and planning document for the City of Providence as spelled out in the City Charter, this plan has been prepared in accordance with the requirements of the Rhode Island Comprehensive Planning and Land Use Regulation Act. This Act mandates the development of a comprehensive plan and establishes minimum standards for content and plan preparation.

B.1 Plan Context

There are nine specific elements that must be included in local comprehensive plans; furthermore, each of these elements must be integrated with existing and future land use. The required elements have all been included in this plan. To make the plan less bureaucratic and easier for the general public to understand and use, many of the element names have been changed. Additionally, elements have been created to reflect the importance of the resources involved.

- Statement of Goals and Objectives – Each element of *Providence Tomorrow* contains one overarching goal and a series of objectives and strategies to achieve that goal.
- Land Use – This element is referred to as Land Use.
- Housing – This element is referred to as Housing.
- Economic Development – This element is referred to as Business and Jobs.
- Natural and Cultural Resources – This element has been split into three separate elements to reflect the importance of each distinct asset. Sustainability and the Environment addresses the protection of natural resources. The Built Environment focuses on historic preservation and enhancing our strong urban design. Arts and Cultural Resources includes goals and strategies for continuing to improve the city’s thriving arts and cultural community.
- Services and Facilities – This element is referred to as Community Services and Facilities.
- Circulation – This element is referred to as Mobility.
- Open Space and Recreation – This element is referred to as People and Public Spaces.
- Implementation Program – The strategies contained in each element represent the implementation plan for that element. Additionally, the last chapter of the plan, entitled A Work in Progress contains a broader implementation strategy for the entire plan. This section identifies the actions needed to

ensure continual progress in achieving the goals of the plan, including monitoring, updates, and amendments to city ordinances.

B.2 Plan Implementation

The Act mandates that a community's zoning ordinance must be made consistent with the goals and objectives and the land use pattern contained in the plan according to an implementation schedule developed by the City. Furthermore, the Act requires extensive local plan review by state agencies to ensure that local comprehensive plans are consistent with the State Guide Plan. As a result, local comprehensive plans are one implementation tool to achieve the objectives established in the State Guide Plan. These requirements ensure state and local coordination on key issues that impact the ability of both the state and local governments to achieve their visions.

The Providence Home Rule Charter provides further guidance on implementation of the comprehensive plan, specifically requiring that:

- No public or private improvement or project or subdivision or zoning ordinance be initiated or adopted unless it conforms to and implements the comprehensive plan and elements thereof.
- No capital improvement be funded unless that improvement is consistent with the comprehensive plan.
- All development and project plans and proposals and all privately developed projects and developments which require approval by the city council or by other city boards, commissions or committees be submitted by the appropriate aforementioned public agency to the director of the department of planning and urban development for determination as to compliance with the comprehensive plan and its elements. All appeals from the director's decisions shall be submitted to the City Plan Commission for a determination as to compliance with the comprehensive plan.

B.3 Plan Preparation and Adoption

To ensure that local plans continue to reflect changing conditions as well as local and state objectives, the Act requires that communities replace or readopt their plans every ten years and provide a five year implementation report. *Providence Tomorrow* is an update to Providence Tomorrow: The Interim Comprehensive Plan, which was adopted by the City Council and approved by the State of Rhode Island in 2007.

B.3.1 Community Involvement

The process of updating Providence Tomorrow: The Interim Comprehensive Plan was initiated by the Mayor and City Council with one primary goal: that the community be involved at every step of the process. With this in mind, the Department of Planning and Development crafted an innovative process to encourage public discussion and debate of ideas. Neighborhood charrettes were designed to be interactive, with planning staff talking with the public instead of always talking to them. As a result, *Providence Tomorrow* is founded on the ideas and concepts that the community voiced through the four year process from the first neighborhood plan charrette to adoption of the plan.

The charrette model of community involvement that was used in the preparation Providence Tomorrow: The interim Comprehensive Plan is the same model that was used to develop neighborhood plans from 2007 to 2010. As defined by the National Charrette Institute, a charrette is “a collaborative planning process that harnesses the talents and energies of all interested parties to create and support a feasible plan that represents transformative community change.”

The Neighborhood Planning Charrettes were held from 2007 to 2009 with the final neighborhood plan being approved by the CPC in 2010.

Washington Park and South Elmwood Neighborhood Charrette

The Washington Park and South Elmwood Neighborhood Charrette was held March 22-28, 2007. Most sessions were held at the Washington Park Community Center. An additional session was conducted with the fifth grade class at the Feinstein Elementary School at Broad Street. Approximately 100 people participated in the charrette, voicing their opinions on how to activate public spaces in the neighborhoods, where they would like to see commercial and industrial growth in the future, and how to protect the existing character of their neighborhood, among other issues. The planning team collected all of the information from the week and drafted an action plan that was presented at a follow-up meeting in May, 2007. The plan was adopted by the CPC in 2009.

Hope, Mount Hope and Blackstone Neighborhood Charrette

The Mount Hope, Hope and Blackstone Neighborhood Charrette was held September 24 - 27, 2007. Sessions were held at the Church of the Redeemer and Martin Luther King Jr. Elementary School. Approximately 150 people participated in the charrette, voicing their opinions on how to activate public spaces in the neighborhoods, the shape of commercial growth in the future, hospital/ neighborhood relations, and how to protect the existing character of their neighborhood, among other issues. The planning team collected all of the information from the week, and drafted an action plan that was presented at a follow-up meeting in November 2007. The plan was adopted by the CPC in October 2009.

Olneyville, Smith Hill and Valley Neighborhood Charrette

The Olneyville, Valley, Smith Hill Neighborhood Charrette was held December 3-6, 2007. Most sessions were held at the Eagle Square Shopping Plaza. A session with neighborhood youth was held at the Joslin Recreation Center. Approximately 100 people participated, voicing their opinions on how to activate public spaces in the neighborhoods, how to direct job and industrial growth in the future, the importance of artists in the neighborhoods, and where to and how to protect the existing character of their neighborhood, among other issues. The planning team collected all of the information from the week, and drafted an action plan that was presented at a follow-up meeting in April 2008. The plan was adopted by the CPC in August 2009.

Elmhurst and Mount Pleasant Neighborhood Charrette

The Elmhurst and Mount Pleasant Charrette was held February 25-27, 2008 at Triggs Memorial Golf Course. Approximately seventy-five people participated in the charrette, voicing their opinions on improving connections through the neighborhoods, where they would like to see commercial growth in the future, the neighborhoods relationships with adjacent institutions, programming of park spaces, and how to protect the existing character of their neighborhood, among other issues. The planning team collected all of the information

from the week and drafted a neighborhood plan that was presented to the neighborhoods at a follow-up meeting in October 2008. The plan was adopted by the CPC in August 2009.

College Hill, Wayland and Fox Point Neighborhood Charrette

The College Hill, Wayland and Fox Point Neighborhood Charrette took place May 5-8, 2008. Daytime sessions were held at the First Unitarian Church and evening sessions at The Lincoln School. Some 178 people participated in the charrette, voicing their opinions on issues including appropriate use of the parcels created by the relocation of I-195, public access to and use of the waterfront, pedestrian and bicycle amenities, university/resident relations, preservation of neighborhood-scale commercial areas, and protection of historic fabric and neighborhood character. The planning team compiled all the information and input generated and presented a summary of preliminary goals and actions at a follow-up meeting November 12, 2008 at The Lincoln School. The Plan was adopted by the CPC in October 2009.

Waterfront Charrette

The Waterfront Charrette took place from June 9th through June 12th, 2008. Sessions were held at the Johnson & Wales Harborside Campus. Although similar to the neighborhood charrettes held throughout the city, the Waterfront Charrette was more of a balance between education and input, due to the complexity and multitude of issues affecting the area. More than 200 people participated in the charrette, voicing their opinions on issues including public access to the waterfront, strengthening of the Port as a regional economic engine, and the development of commercially-oriented water dependent uses. The planning team compiled all the information and input generated and presented a summary of preliminary goals and actions at a follow-up meeting at Roger Williams Park Casino on September 24, 2008. The plan was adopted by the CPC in April 2010.

Upper South Providence, Lower South Providence and Elmwood Neighborhood Charrette

The Upper South Providence, Lower South Providence and Elmwood Neighborhood Charrette was held September 13-17, 2008 at the Pearl Street Lofts. Approximately 80 people participated in the charrette, voicing their opinions on hospital expansion and neighborhood relations, how to activate public spaces in their neighborhoods, and how to protect the best qualities of their neighborhoods, among other issues. The planning team collected all of the information from the week, and drafted an action plan. The plan was adopted by the CPC in November 2009.

Downtown Neighborhood Charrette

More than 200 people participated in the planning charrette for Downtown, which took place October 27-30, 2008. The ten public sessions were held at 222 Richmond Street in the Jewelry District. The charrette was a balance of presentations, education and input from the public. The first evening session was an opportunity for the public to join with elected officials in a visioning exercise for the future of Downtown. Three of the sessions analyzed the existing conditions and the vision for the future of Downtown's districts: Capital Center, Downcity and the Jewelry District. The other sessions were in-depth discussions of topic areas, including a session on Downtown parks, which focused on the two new waterfront parks and the pedestrian bridge that will connect them when the highway is demolished. A session on edge conditions and transitions to neighborhoods adjacent to Downtown focused on the height, massing and scale of buildings of new developments. Another session focused on how to use nodes of activity, green spaces and greenways to create connections and linkages between Downtown's districts. The

other evening sessions were devoted to the consultants' presentations of alternative concepts for the future development of Downtown, which were based on the input from the public discussions and additional discussion and feedback. The final evening session was a presentation of a vision for Downtown that emerged over the course of the ten charrettes sessions. The plan was adopted by the CPC in December 2010.

West End, Federal Hill and Reservoir Neighborhood Charrette

The West End, Federal Hill and Reservoir Neighborhood Charrette was held May 4–8, 2009. Sessions were held at Federal Hill House at 9 Courtland St. Approximately 130 participated in the charrette, voicing their opinions on how to protect historic properties and improve public spaces in their neighborhoods, where and how they would like to see commercial growth in the future, and how to enhance the existing qualities of their neighborhoods, addressing neighborhood schools, traffic congestion and road conditions, among other issues. The plan was adopted by the CPC in February 2010.

Charles and Wanskuck Neighborhood Charrette

The Charles and Wanskuck Neighborhood Charrette was held July 13 – 16, 2009. Sessions were held at the DaVinci Center for Community Progress at 470 Charles Street. Approximately 30 people participated in the charrette, voicing their opinions on how to improve parks and other public spaces in their neighborhoods, where and how they would like to see redevelopment in the future, and where traffic and circulation problems currently exist, among other issues. The planning team collected all of the information from the week, and drafted an action plan that was presented at a follow up meeting in October 2009. The plan was adopted by the CPC in February 2010.

Hartford, Silver Lake and Manton Neighborhood Charrette

The Hartford, Silver Lake and Manton Neighborhood Charrette took place September 14-17, 2009 at the Silver Lake Community Center. Over 50 people participated in the charrette, voicing their opinions on how to preserve and improve open and public spaces in their neighborhoods, where and how they would like to see commercial growth in the future, and how to enhance the existing qualities of their neighborhoods, addressing community safety, infrastructure needs and transit improvements, among other issues. The planning team collected all of the information from the week, and drafted an action plan that was presented at a follow-up meeting in November 2009. The plan was adopted by the CPC in January 2010.

B.3.2 Public Hearings

The Department of Planning and Development presented a draft of *Providence Tomorrow: The Comprehensive Plan* to the City Plan Commission from March 2011 to December 2011. Residents were given the opportunity to provide comments on the draft plan from March to December 2011 through an online wordpress site, email and through hard copies available at the Department of Planning and Development.

City Plan Commission Public Hearings

The City Plan Commission held a public hearing to solicit additional public comments on the draft plan. The public hearing was held at the City of Providence Municipal Building at 444 Westminster Street in the Downtown neighborhood on January 17, 2012. The hearing was continued to a second meeting on January 24, 2012 at the same location. A few residents provided comments at the public hearing

City Plan Commission Workshops/Plan Adoption

From March to December 2011, the City Plan Commission reviewed each chapter of the Plan in detail during regular CPC meetings, On January 24, 2012, the City Plan Commission voted unanimously to adopt *Providence Tomorrow: The Comprehensive Plan* and forward it to the City Council with minor changes from the January 2012 draft.

City Council Public Hearing/Plan Adoption

The Plan adopted by the City Plan Commission was submitted to the City Council February 2, 2012. The Council's Ordinance Committee held a public hearing on March 6, 2012; the hearing was continued to a second meeting on March 22, 2012 and was then continued again to a third meeting on April 26, 2012 where the Plan was passed out of committee with minor changes. The full City Council gave first passage to the revised Plan on April 30, 2012. The City Plan Commission reviewed but did not comment on the minor changes made to the Plan. The Plan was then given final approval by the Council May 3, 2012 and the ordinance adopting the Plan was signed by the Mayor on May 5, 2012.

Appendix C Capital Improvement Program (CIP) Overview

Providence's Capital Improvement Program (CIP) is another tool to carry out *Providence Tomorrow*. The CIP is a tool to implement plans, react to capital improvement needs, to see projects through to completion, and to monitor the city's capacity to fund needed projects. The city's program is designed to coordinate needs assessment, finance, planning, and decision-making. In short, the CIP should be the primary tool by which decision-makers can effectively manage capital improvement efforts throughout the city.

A CIP serves two purposes: it establishes a city's policies and goals for the future and serves as a means to communicate and coordinate financial needs, estimates and budgets. Implemented correctly, the CIP enables a city to evaluate projects based on the goals and objectives as established in its comprehensive plan. By basing a CIP on the comprehensive plan the city can measure how effective its program has been in achieving its goals and objectives in the past and can set a framework to insure greater success in the future. The CIP also offers a base from which future costs to a city can be programmed so that sound financial decisions can be made.

Seen as a process, the CIP sets a city's goals regarding physical development and maintenance; translates those goals into criteria; measures and compares project requests submitted from all departments and places them in priority based on how the projects meet the established city goals; prepares a document reflecting that analysis with recommendations; lists projects that should be funded; and details the proposed funding mechanism(s).

Joining comprehensive planning with capital improvement budgeting reinforces the concepts that communities should plan for growth and change and should budget for the expenditures that they must make to achieve the planned growth. By tying the CIP to a comprehensive plan, a community is able to develop a capital needs list.

As required by the Providence Home Rule Charter, the Department of Planning and Development and the Finance Director must develop the City's Capital Improvement Program (CIP) annually. The CIP documents capital requests from all City agencies for a period of five years, analyzes these requests with respect to the goals and policies of the Comprehensive Plan, and prioritizes the requests. Figure C.1 Capital Budget Plan identifies the proposed capital budget for FY2014 and for the following four years thereafter.

Figure C.1 Capital Budget Plan



CITY OF PROVIDENCE
Angel Taveras, Mayor

Capital Budget Plan

April 25, 2013

Honorable Members
Providence City Council
Providence City Hall
25 Dorrance Street
Providence, Rhode Island 02903

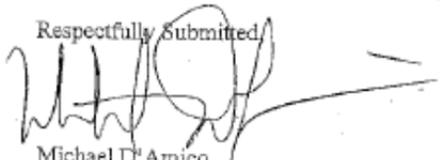
Dear Honorable Members:

Pursuant to Section 812 of the Providence Home Rule Charter of 1980, as amended and Public Law, Chapter 45-50, Sections 1 and 31 passed in 1987, I am this day submitting a proposed capital budget for FY2014 and projected capital budget for the next four fiscal years thereafter.

FY2014 Capital Budget:	\$100,000
Proposed FY2015 Capital Budget	\$100,000
Proposed FY2016 Capital Budget	\$100,000
Proposed FY2017 Capital Budget	\$100,000
Proposed FY2018 Capital Budget	\$100,000

Thank you for your attention to this matter.

Respectfully Submitted,



Michael D'Amico
Director of Administration
Acting Chief of Staff

OFFICE OF THE MAYOR

Providence City Hall | 25 Dorrance Street Providence, Rhode Island 02903
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Appendix D Providence Water Supply Board's WSSMP

PARE PROJECT NO. 08192.00

WATER SUPPLY SYSTEM MANAGEMENT PLAN
5-YEAR UPDATE
FOR
PROVIDENCE WATER SUPPLY BOARD

EXECUTIVE SUMMARY

PREPARED FOR:

*PROVIDENCE WATER SUPPLY BOARD
552 ACADEMY AVENUE
PROVIDENCE, RI*

PREPARED BY:

*PARE CORPORATION
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI*

SUBMITTED APRIL 2010



Executive Summary

This Water Supply System Management Plan (WSSMP) has been prepared as required under Rhode Island General Laws 46-15.3, as amended and titled "The Water Supply System Management Planning Act" (Act). The legislative authority to effectuate the goals and policies of this Act has been conferred to the Rhode Island Water Resources Board (RIWRB). To this end, the RIWRB has promulgated the Rules and Regulations for Water Supply System Management Planning, October 2002, as amended to implement the provisions of this Act.

Under this legislation, Providence Water Supply Board (PWSB), as a water purveyor that produces, treats, transports and supplies over 50 million gallons per year, is responsible for the preparation and adoption of a WSSMP. It is also incumbent that PWSB update this WSSMP periodically as significant system modifications may warrant and every five years, or as otherwise stipulated in the Regulations.

This WSSMP has been prepared to provide the proper framework to promote the effective and efficient conservation, development, utilization and protection of the natural water resources of the State and specifically the Scituate Reservoir Complex, as utilized exclusively by PWSB. Furthermore, the overall goals shall be consistent with State Guide Plan Element 721, "Water Supply Policies for Rhode Island." As such, this WSSMP outlines specific objectives of the water supply system management planning process for the PWSB system, and will also serve as a guide to aid in employing proper decision-making processes.

The WSSMP has been prepared in three separate documents, identified as the main WSSMP document, the Emergency Management Plan (EMP) Volumes I and II, and the Water Quality Protection Plan (WQPP). The EMP relates a vulnerability assessment of the water system to emergency management planning. The WQPP encompasses the water quality protection aspect for the surface water supply/reservoir complex. This entire submission comprises the WSSMP, as presented herein.



Background

The Rhode Island General Assembly that enacted Chapter 1278 of Public Laws of Rhode Island on April 25, 1915 established the original PWSB. The City of Providence in turn developed an increased and safe supply of water for the residents of the city. This consisted of the construction of a large reservoir and water treatment plant on the north branch of the Pawtuxet River in the Town of Scituate. From 1929 to 1941, operation of the Scituate Supply system fell under the Water Supply Division of the Providence Department of Public Works.

In 1941, the presently constituted Water Supply Board was established by authority of the Providence City Charter as amended under Chapter 832 of the Public Laws of Rhode Island. This current reservoir system, which today provides water to approximately 60% of the State's residents, consists of the main Scituate Reservoir supply and its five tributary reservoirs, all of which combine to make up the Scituate Reservoir Complex.

Scituate Reservoir was formed by the construction of a dam across the Pawtuxet River at the former village of Kent. The Gainer Dam, constructed principally of earth, is approximately 3,200 feet long and upwards of 109 feet in height. Water was initially stored in the reservoir on November 10, 1925. An aqueduct from Gainer Dam feeds the nearby treatment plant that was put into operation on September 30, 1926.

PWSB maintains a single water purification plant, the Philip J. Holton Water Purification Plant (PJHPP), to process 100% of the surface water supply used from the Scituate Reservoir Complex. Presently, the PJHPP has a maximum capacity of 144 million gallons per day (MGD) and continues to remain the largest of its type in New England.

Since the mid 1920's, PWSB has implemented various improvements to the water system infrastructure and continues to maintain and operate the existing treatment plant and reservoir complex. This has consisted of various infrastructure improvement projects related to all aspects of the system including source protection, supply, treatment, transmission and distribution, storage, consumer demand management and water quality monitoring. In 1996, PWSB



embarked on a progressive infrastructure improvement and capital improvement program. The PWSB has maintained this program with millions of dollars invested into existing infrastructure each year and over \$163.1 million proposed for existing infrastructure improvements over the next five fiscal years.

Water System Description

The PWSB supply and distribution system is classified by the RIDOH as a "Community" water supply system. As such, the system is required to conform to applicable rules and regulations mandated by the RIDOH as well as meet requirements of the federal Safe Drinking Water Act (SDWA). Currently, the system maintains full compliance with the stipulations of all applicable rules and regulations of both the RIDOH and the SDWA. As new SDWA regulations are implemented PWSB continues to remain at the forefront of optimizing process control and providing treatment technology to ensure the continuance of a safe, reliable and adequate source of potable water to the consumer base.

The existing PWSB system is developed primarily from the original water supply system infrastructure developed in the 1920's. Improvements have been implemented over the years to maintain and upgrade the system and to keep pace with increasingly stringent water quality regulations. The water quality has consistently been rated as good to excellent and is continually monitored and tested to insure compliance and consumer confidence.

The Scituate Reservoir watershed contains 92.8 square miles of land, of which PWSB owns or controls approximately 27 square miles. Local governments and the Rhode Island Department of Environmental Management (RIDEM) also assist in source water protection through a combination of land ownership, ordinances and "open space" protection strategies. The reservoir complex consists of the Scituate Reservoir and five smaller reservoirs that are tributary to the main reservoir. The five tributary reservoirs are the Regulating, Barden, Moswansicut, Ponaganset and Westconnaug Reservoirs. The complex has a total storage capacity of 41.3 Billion Gallons (BG), a net storage capacity of 39.8 BG and a safe yield of 92 MGD, leaving a



net safe yield of 83 MGD after the allocation of 9 MGD for downstream release to the Pawtuxet River.

A conventional water purification plant is situated downstream of the Gainer Dam located on the Scituate Reservoir. Water is withdrawn from the Scituate Reservoir through a concrete structure and conveyed by gravity into the influent control chamber. If insufficient head exists in Scituate Reservoir to meet demand, a raw water booster pump station may be utilized. The treatment process consists of aeration coagulation-flocculation, lime addition for corrosion control and pH adjustment, sedimentation, rapid sand filtration, disinfection and fluoridation.

Water flows from the influent chamber to the aeration basin. The aeration system works under gravity pressure and sprays water into the air in a fountain style. This treatment step serves to remove volatile organics and other dissolved gases (CO₂, etc.). The aerated water travels from the influent control chamber into two venturi tubes that measure the influent flow and then to the tangential mixer. Quicklime is added in the basin influent tunnel and reacts with ferric sulfate to form ferric hydroxide floc. The floc is encouraged to form through the use of a tangential mixer. The mixer works under gravity feed and imparts a slow cyclical motion to the water. The cyclical motion aids in the destabilization of colloidal material and the formation of floc, commonly known as coagulation and flocculation.

The next step is the removal of the flocculated colloidal material through sedimentation. The resulting ferric sludge must be removed by draining and flushing the basins manually. Settled water travels from the open basins through a 10-foot wide, 11-foot high conduit to the sand filters. A second lime injection point is located in this conduit to raise the pH from 7.0 to 9.7. Chlorine is also added in this conduit for disinfection purposes. Following the coagulation, flocculation, and sedimentation stages water then goes to eighteen (18) filters that remove remaining non-settleable floc and impurities. The backwash water is supplied by gravity via a 400,000-gallon wash water tank and is discharged to waste lagoons. Water then goes to the clearwell where hydrofluosilicic acid and fluoride are added.



The transmission and distribution system consists of approximately 4 miles of concrete lined tunnel, 10 miles of concrete aqueduct, 102 miles of transmission piping (16 to 66 inches) and 835 miles of distribution piping (6 to 12 inches). Transmission and distribution piping materials primarily consist of cast iron, ductile iron, asbestos cement and polyvinyl chloride. New and replacement mains consist of ductile iron and polyvinyl chloride pipe.

The distribution system contains five water storage reservoirs that are utilized to optimize system efficiency by equalizing demands, improving and stabilizing water flows and pressures and providing fire reserve storage. These consist of the Aqueduct Reservoir, located in Cranston, with a storage capacity of 43.3 MG and overflow of 231 feet Mean High Water (MHW); the Neutaconkanut Reservoir, located in Johnston, with a storage capacity of 42.1 MG and overflow of 227 feet MHW; the Longview Reservoir, located in North Providence, with a storage capacity of 24.8 MG and overflow of 306 feet MHW; the Ridge Road Tank, located in Smithfield, with a storage capacity of 3.5 MG and an overflow of 398 feet MHW; and the Lawton Hill Reservoir, located in Cranston, with a storage capacity of 5.0 MG and an overflow of 485 feet MHW.

The retail service area of PWSB is divided into four major separate pressure zones termed low service, high service, extra high service, and Western Cranston service. There is also a separate high-pressure fire system within the downtown area of the City of Providence. The low service is the largest area comprising approximately 70% of the retail area. The high service area is the second largest comprising over 29% of the retail demand. The extra high service area consists of a small isolated area in the Fruit Hill section of North Providence with elevations ranging from 220 to 310 feet MHW. In 1977, PWSB acquired the Western Cranston Water System (a former wholesale customer) from the City of Cranston. This high service area serves the western retail portion of the City of Cranston and the Johnston Water Department wholesale interconnections.

PWSB also owns and operates ten (10) potable water pump stations in the distribution system and a raw water pump station in proximity to the treatment plant. These pump stations are located at various locations throughout the system and serve to supply isolated higher elevations in the service area or as primary supplies to maintain the water elevation in the high and extra high service pressure zones (i.e. supply storage reservoirs). The raw water pump station is



utilized to supplement pressure head to supply raw water to the treatment plant during periods of extreme low water level in the reservoir(s).

PWSB services approximately 60% of the residents of the State of Rhode Island either directly through the retail service area or through wholesale service to various water purveyors that in turn supply various communities. The current retail service area includes portions of North Providence, Cranston, Johnston and all of Providence. In addition, PWSB provides wholesale water to nine water utilities. These include the Bristol County Water Authority, East Providence Water Utilities Division, East Smithfield Water District, Greenville Water District, Johnston Water Department, Kent Count Water Authority, Lincoln Water Commission, Smithfield Water Supply Board, and Warwick Water Department. Through these wholesale interconnections the following additional communities are served: Lincoln, Smithfield, Coventry, East Greenwich, Scituate, Warwick, West Greenwich, West Warwick, East Smithfield, Bristol, Barrington and Warren.

The source and distribution system, including all wholesale interconnections, are 100% metered. Master meters are located at various locations throughout the purification plant, which are monitored and controlled by the new SCADA (supervisory control and data acquisition) system. Every service connection within the PWSB distribution system is metered at the point of sale, thus providing 100% distribution metering. Meters are read on either a monthly, quarterly or semiannual basis, depending on metering route, meter size, and water consumption. Wholesale meters are located at each point of interconnection with the nine wholesale customers. The wholesale customers are required to maintain the meters in good working condition and to calibrate them as required. In recent years, PWSB has instituted a program of meter replacement with a conversion from manual to an automated meter reading (AMR) system with the intent of recovering operating and capital costs of system operations and reducing the rate of non-account water. To date, approximately 99.7% of the meters have been upgraded to the AMR system, which also incorporates a radio read function.



Policy and Procedure

PWSB maintains both a wholesale and retail service sector. The retail service population is comprised of residential, industrial, and commercial customers serving approximately 296,000 customers through 72,938 service connections. Among the 72,938 retail customer service connections, PWSB supplies 282 major water users. Major water users are defined by the WSSMP regulations as those customers utilizing over 3.0 MG per year.

In fiscal year 2007, PWSB supplied an average 68.14 MGD of which 38.87 MGD (57.0%) was utilized by retail customers and 29.27 MGD (43%) was supplied to the nine wholesale customers. The per capita demand for the PWSB retail service area is estimated to be 112.8 gallons per capita per day. Utilizing retail consumption and population data the per capita demand can be more realistically estimated. The PWSB's retail consumption for 2007 was 7,499 MG and the retail service population was 296,000, which yields an estimated 69.4 gallons per capita per day. Since 1997, the system has had a maximum day peaking factor that varied from 1.54 to 1.88 with an average of 1.73. In 2007 the maximum day system demand was 113.5 MGD or a maximum day peaking factor of 1.67.

Non-account water, which consists of the difference between the volume of water metered at the point of supply and that recorded at all points of sale, has averaged 10.2% since 1998. Most recently, in fiscal year 2007, PWSB maintained non-account water at 11.0 percent. In short, both the 10-year average and the fiscal year 2007 non-account water rates surpass the goal established in the State Guide Plan Element 721. PWSB shall continue striving to maintain or improve upon this goal in the future. This will largely be accomplished through continued leak detection survey and repair, meter maintenance and replacement programs, and public education programs.

In its previous WSSMP submissions, PWSB has utilized population projections issued by Statewide Planning to formulate its future demand projections over the entire service area. PWSB still believes this to be the best methodology based on current available data. Review comments to past WSSMP submissions have, however, suggested that the demand projections of PWSB's individual wholesale customers be incorporated into PWSB's demand projections. As



such, PWSB utilized two alternative demand projection methods in this submission. The first combines PWSB's own retail area population-based demand projections with the available demand projections formulated by each wholesaler. The second is PWSB's demand projection based on the methodology of previous submissions utilizing projected rates of population growth within the entire service area as developed by Statewide Planning. PWSB believes this latter analysis to provide the more reliable future demand estimates. The following details the current average day demand (ADD) and maximum day demand (MDD) and the future projections for ADD and MDD utilizing both methods.

Year	ADD (MGD)	MDD(MGD)
2007	68.14	113.5

Year	METHODOLOGY 1 w/ Wholesaler Based Projections		METHODOLOGY 2 PWSB Population Based Projections	
	ADD (MGD)	MDD (MGD)	ADD (MGD)	MDD (MGD)
2015	71.3	119.0	68.7	114.7
2030	76.0	126.9	71.0	118.6

The safe yield of the Scituate Reservoir Complex has been identified as 92 MGD, which when accounting for the required 9 MGD downstream release to the Pawtuxet River, provides a net of 83 MGD of available water. This safe yield provides PWSB with ample supply for the current and projected future average daily water demand. The maximum day demand is available through reserve system storage (storage reservoirs) and short-term drafting of the reservoir complex to meet this increased demand. Nevertheless, PWSB continues to maintain an aggressive approach to supply augmentation. There have been numerous studies and reports, both ongoing and complete that investigate the feasibility of increasing available supply.

PWSB maintains an aggressive and ongoing approach to watershed management for the purpose of the protection of adequate supplies of water for treatment and distribution to all PWSB customers. The Water Quality Protection Plan (WQPP) section of this WSSMP establishes and continues to develop and implement watershed management and source protection measures to



ensure the future quality and availability of its raw water sources within the Scituate Reservoir Complex watershed.

This WQPP is consistent with the requirements of the Water Quality Protection Act of 1987, as amended, the Rhode Island Comprehensive Planning and Land Use Act of 1988, and the Comprehensive Plans of watershed municipalities. It is intended that this WQPP be modified in the future in response to changes in land uses and applicable federal, state and local regulations. PWSB continues to take steps to address, and remove where possible, conditions that may impact source water quality. One aspect of this is fostering relationships with the watershed communities and other public and private entities to educate the public on source water protection and to encourage land uses and best management practices aimed at protecting the surface and groundwater resources of the region.

PWSB shall employ demand management procedures of a suitable nature to promote the ultimate goal of permanent long-term savings through efficient water use. Water use trends can be affected significantly by changes in water use practices, which can occur as a result of technologic changes and demand management and/or water conservation policy and practice. This is to be achieved through a combination of measures that promote efficient water use, recycling, conservation, retrofit and new installation of low flow plumbing fixtures, public education and the appropriate use of fees, rates and charges. It is the ultimate goal to minimize peak demand use requirements and to minimize average day demand use requirements. As an example, the residential retrofit program (RRP), instituted in 1989, has been an ongoing successful program which to date has targeted the entire 70,000 plus retail customer base. An inventory of residential retrofit kits are maintained by PWSB and are made available to retail service customers upon request.

PWSB shall continue to employ proper system management procedures including programs for meter management (source and distribution), leak detection and repair, implementation of a preventive maintenance plan, infrastructure rehabilitation, and a billing rate schedule that promotes efficient and non-wasteful water use. PWSB will continue to employ proper system



management procedures aimed at increasing the overall efficiency of its water supply distribution system with the underlying theme of water conservation.

PWSB operates as a “self-supporting” water department. The Rhode Island Public Utility Commission (PUC) approves rates with the intent on providing water service at the lowest possible cost while retaining funds sufficient to develop operating reserves. The intent is to maintain long-term revenue levels sufficient to cover all fixed and variable capital and operating costs of running the water utility. PWSB operates financially as a separate accounting entity within the City of Providence organizational structure. The operations of the water utility are accounted for with a separate set of self-balancing accounts organized on an Enterprise Fund basis. The City of Providence also provides various administrative and support services to the utility in most instances to comply with Home Rule Charter requirements. Appropriately, PWSB reimburses the City for services provided in accordance with approval of the PUC.

It is intended that the financial management of the system will be one in which normal operation, maintenance and rehabilitation will be funded through operating revenue from the customer base. Where possible, and as the need may arise, PWSB shall seek alternate funding sources such as State and Federal loans and grants, for major capital improvement projects. In addition, an Infrastructure Replacement Fund (IFR), which is a surcharge placed on the customer rate schedule and maintained in a separate dedicated account, has been implemented and is intended to collect fees for replacement and upgrade of aged infrastructure.

Finally, the Emergency Management section of the WSSMP establishes the responsibilities and authority within PWSB for responding to most probable emergencies and outlines specific tasks for carrying out functional and constructive solutions based on a review of the potential emergencies and risks. The procedures outlined are consistent with the goals of the State Emergency Water Supply System Management Plan. It is the intent that this document provides guidance to ensure that the primary aspects of recovery from an emergency are addressed in an organized manner to aid in an efficient response and in maintaining drinking water of a high quality and quantity.



Appendix E Glossary

- **Active Recreation** – Leisure-time activities, usually of a formal nature and often performed with others, requiring equipment and taking place in prescribed places, sites or fields. This term may include activities such as organized sports.
- **Art in City Life Ordinance** – Adopted in 1980 by the Providence City Council, this ordinance requires one percent of total project cost for the reconstruction or remodeling of any building, decorative or commemorative structure, park, street, sidewalk, parking facility or utility paid for in whole or in part by the City to be expended on works of art.
- **Artist Residence Tax (Credit) Break** – Adopted in January 2004 by Rhode Island General Assembly, the Artist Tax Exemption Act provides relief from the sales & use tax and the state income tax to artists that live and work in various defined economic development zones throughout the state.
- **Arts and Culture Revolving Loan Fund** – A joint program of the Providence Economic Development Partnership and the City of Providence Department of Arts, Culture, and Tourism; it provides short-term low interest loans of up to \$25,000 to arts organizations.
- **Blight** – Physical conditions including, but not limited to, the existence of unsuitable soil conditions, the existence of dumping or other unsanitary or unsafe conditions, the existence of ledge or rock, the necessity of unduly expensive excavation, fill or grading, or the necessity of undertaking unduly expensive measures for the drainage of the area or for the prevention of flooding or for making the area appropriate for sound development, or by reason of obsolete, inappropriate, or otherwise faulty platting or subdivision, deterioration of site improvements, inadequacy of utilities, diversity of ownership of plots, or tax delinquencies, or by reason of any combination of any of the foregoing conditions, is unduly costly to develop soundly through the ordinary operations of private enterprise and impairs the sound growth of the community.
- **Brain drain** – The phenomenon of the emigration of highly educated and/or talented populations to larger urban areas that often have more diverse opportunities.
- **Brownfield** – Abandoned, idled or under-used industrial and commercial facilities where expansion or redevelopment is complicated by real or perceived environmental contamination.
- **Built Environment** – The manmade elements of a city including buildings, streetscapes, and public plazas.
- **Capital Improvement Project** – A five-year financial plan for the city’s capital improvements. The five-year CIP is updated annually.
- **Capital Center Project** – A redevelopment project that expanded the Providence downtown area by relocating railroad tracks; uncovering waterways; constructing bridges, river-walks, parks, an amphitheater, the Rhode Island Convention Center, a hotel complex, a mall, and other major venues.
- **Charrette** – A public design workshop in which designers, property owners, developers, public officials, environmentalists, residents, and other persons or groups of people work in harmony to achieve an agreeable project.
- **Character Districts** – Areas of a community which have special physical characteristics that distinguish them from their surroundings and contribute to their individuality.
- **City Charter** – The governing document of the municipality. See also Providence Home Rule Charter.

- **Climate Action Plan** – A Local Action Plan developed through a multi-stakeholder process that describes the policies and measures that it will take to reduce greenhouse gas emissions and achieve the emissions reduction target. Most plans include a timeline, a description of financing mechanisms, and an assignment of responsibility to departments and staff.
- **Coastal Buffer Area** – Land area adjacent to a shoreline or other coastal feature that is, or will be, vegetated with native shoreline species and which acts as a natural transition zone between the coast and adjacent upland development.
- **Coastal Resources Management Council (CRMC)** – A Rhode Island State management agency with regulatory functions. Its primary responsibility is the preservation, protection, development and, where possible, the restoration of the coastal areas of the state via the issuance of permits for work with the coastal zone of the state.
- **Cohort-Component Projection Model** – A statistical tool used to assess of the size and composition of a region’s population and how it will change in the future.
- **Combined Sewer Outfall Abatement Program** – An initiative of the Narragansett Bay Commission which aims to curb the combined sewer outflow in Providence, Pawtucket, and Central Falls. The Combined Sewer Outfall Abatement Program was originally approved in March of 1993. In June of 2001, construction began on an extensive underground system which, when completed, will drastically reduce the combined sewer outflow of the abovementioned municipalities.
- **Commercial Corridor** – A primary commercial street.
- **Community Development Block Grant (CDBG)** – A flexible federal grant program administered by the U.S. Department of Housing and Urban Development (HUD) that provides communities with resources to address a wide range of unique community development needs including housing rehabilitation, community development, public facilities development and economic development.
- **Community Development Corporation (CDC)** – An organization with a 501(c)(3) tax certification that works on local housing and economic development issues.
- **Community Garden** – A private or public facility for cultivation of fruits, flowers, vegetables, or ornamental plants by more than one person or family.
- **Commuter Shed** – The area from which people do or might commute from their homes to a specific workplace destination, given specific assumptions about maximum travel time or distance.
- **Comprehensive Plan** – A plan for development of an area which recognizes the physical, economic, social, political, aesthetic, and related factors of the community involved, pursuant to chapter 22.2, title 45 of the General Laws of Rhode Island.
- **Condominium** – Real estate, portions of which are designated for separate ownership and the remainder of which is designated for common ownership solely by the owners of those portions. Real estate is not a condominium unless the undivided interests in the common elements are vested in the unit owners.
- **Crime Prevention Through Environmental Design (CPTED)** – The effective use of design tools and techniques within the built environment in order to reduce the fear of as well as the incidence of crime, and to improve overall quality of life.
- **Density** – The number of dwelling units per acre of land.

- **Design Review** – The process wherein a site plan and elevations are submitted to the city for examination and evaluation of the technical elements of the submitted materials as well as determination of how well the plan and design meets officially adopted criteria.
- **Donor Community** – A community that assumes the bulk of the economic burdens, such as service agencies and locally undesirable land uses, in a given area without reaping the associated tax benefits.
- **Downtown** – A limited area of downtown Providence bordered by I-95 to the west, the existing I-195 alignment to the south, Smith Street to the north, and Providence River/North Main Street to the east.
- **Dredging** – To enlarge or clean out a water body, watercourse, or wetland.
- **Earned Income Tax Credit (EITC)** – A federal tax credit provided for certain people who work and have earned income under a particular amount.
- **Effective Schools Initiative** – A list of ten dimensions of school effectiveness created by the Providence Public School District to improve school quality throughout the city’s school district.
- **Eminent Domain** – The authority of a government to take, or to authorize the taking of, private property for the following purposes: public ownership and use; public utilities, including telecommunications, and common carriers; eliminating an identifiable public harm and/or correcting conditions adversely affecting public health, safety, morals, or welfare, including, but not limited to, the elimination and prevention of blighted and substandard areas, as defined by RIGL 45-31.
- **Employer Homeownership Challenge** – A proposed program by the City of Providence that will utilize City funds to leverage contributions from private employers. Targeted population are renters who wish to move up to homeownership.
- **Environmental Justice** – Equal protection from environmental hazards for individuals, groups, or communities regardless of race, ethnicity, or economic status. This applies to the development, implementation, and enforcement of environmental laws, regulations, and policies, and implies that no population of people should be forced to shoulder a disproportionate share of negative environmental impacts of pollution or environmental hazard due to a lack of political or economic strength levels.
- **Enterprise Zone** – A specific geographic area consisting of economically distressed census tracts, designated by The Rhode Island Enterprise Zone Council in accordance with R.I.G.L. § 42-64.3, to stimulate economic revitalization, promote employment opportunities, and encourage business development and expansion in distressed areas. Enterprise zones encourage economic growth and investment in distressed areas by offering state tax credits to eligible member businesses located within the zone boundaries.
- **Erosion Control** – Techniques employed to prevent or reduce erosion or sedimentation and are typically necessary when ground disturbance occurs.
- **Extrapolation** – The extension of a relationship between two or more variables beyond the range covered by knowledge, or the calculation of a value outside that range.
- **Fair Market Rent (FMR)** – Gross rent estimates determined by the U.S. Department of Housing and Urban Development to be the cost of modest, non-luxury, rental units in a specific market area. FMR includes the shelter rent plus the cost of all utilities, except telephones. Generally, an “affordable” rent is considered to be below the Fair Market Rent.
- **Farmer’s market** – The offering for sale of fresh, locally produced agricultural goods directly to the consumer at an open air market, and which is designated a community activity.

- **First Source Program** – Also known as Providence Connects, First Source is a program that implements City Ordinances 21-93 and 21-94 (circa 1985), requiring businesses in the City of Providence who receive aid in cash or in-kind from the City to enter into an agreement with the City to hire Providence residents from a list to be maintained by the Department of Planning and Development. Aid includes tax concessions, and/or abatements, federal grants and direct City funding. The ordinance was designed ‘to encourage the retention of working, home owning families, who live and work in Providence’.
- **Floodplain** – An area that has a one percent (1%) or greater chance of inundation in any given year, as delineated by the federal emergency agency pursuant to the National Flood Insurance Act of 1968.
- **Floodway** – The channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height.
- **Flood Zone** – Land areas with a predetermined risk of flooding, as identified by the Federal Emergency Management Agency (FEMA).
- **Form-Based Codes** – A method of regulating development to achieve a specific urban form. Form-based codes create a predictable public realm by controlling physical form primarily, and land uses secondarily.
- **Geographic information system (GIS)** – A computer-generated mapping system for collecting, storing, analyzing and integrating information about physical and man-made features on maps.
- **Global Warming** – An increase in the near surface temperature of the Earth. Global warming has occurred in the distant past as the result of natural influences, but the term is most often used to refer to the warming predicted to occur as a result of increased emissions of greenhouse gases.
- **Green** – A term implying environmental sustainability.
- **Green Building** – Structures that incorporate the principles of sustainable design – design in which the impact of a building on the environment will be minimal over the lifetime of that building. Green buildings incorporate principles of energy and resource efficiency, practical applications of waste reductions and pollution prevention, good indoor air quality and natural light to promote occupant health and productivity, and transportation efficiency in design and construction, during use and reuse.
- **Green Roof** – A green roof consists of vegetation and soil, or a growing medium, planted over a waterproofing membrane. Additional layers, such as a root barrier and drainage and irrigation systems may also be included.
- **Greenfields** – Untouched land and open areas where there has been no prior industrial or commercial activity.
- **Greenhouse Gas Emissions** – Human-caused emission of gasses which trap heat in the atmosphere.
- **Green Space** -A publicly accessible open space characterized by grass, foliage, plants and other natural and vegetative features.
- **Greenway** – Areas, either publicly or privately owned, intended to provide active and passive recreation and open space along the waterfront and to provide connections between open spaces.
- **Growth Corridor** – Areas located along key commercial and transit corridors in the city where development is likely to occur in the future.
- **Growth District** – Areas centered around the city’s downtown core, the waterfront and manufacturing areas where development is likely to occur in the future.
- **Harbor Management Plan** – A plan providing a long-range vision for the controlled growth and development of harbor and shoreline areas. Harbor management plans provide a comprehensive

evaluation of municipal harbor management activities; a detailed assessment of current and/or proposed harbor management programs, ordinances and regulations to ensure compliance with applicable state regulatory and management programs; and a framework for delegation of primary authority and responsibilities for consistent municipal harbor management.

- **Hazard Mitigation Plan** – A plan designed to reduce or eliminate long-term risk to life and property from a hazardous event.
- **Historic Preservation** – The identification, evaluation, protection, rehabilitation, and restoration of districts, sites, buildings, structures, and artifacts significant in history, architecture, archeology, or culture.
- **Historic District** – A zoning overlay district designed to protect historically significant structures in the city. The city’s eight local historic districts are regulated by the Providence Historic District Commission.
- **HOME Program** – A federal grant that provides formula grants to States and localities that communities use – often in partnership with local nonprofit groups – to fund a wide range of activities that build, buy, and/or rehabilitate affordable housing for rent or homeownership or private direct rental assistance to low-income people.
- **Homeland Security** – The broad effort by all levels of government – federal, state and local – to protect the territory of the United States from hazards, internal and external, natural and man-made.
- **Household** – A family and/or one or more unrelated persons, including servants, and not more than two (2) boarders, who share the same dwelling and use some or all of its cooking and eating facilities.
- **Housing Bond** – A bond that is issued by local housing authorities throughout Rhode Island to finance the construction of municipal housing development projects.
- **Housing Stock** – The total number of residential units in a given location.
- **International Council for Local Environmental Initiatives (ICLEI)** – An international association of local governments and national and regional local government organizations, founded in 1990, that have made a commitment to sustainable development. ICLEI runs the Cities for Climate Protection Program, which assists cities in adopting policies and implementing measures to reduce local greenhouse gas emissions, improve air quality, and enhance urban livability and sustainability.
- **Impervious Surface** – Any hard-surfaced, man-made area that does not readily absorb or retain water, including but not limited to building roofs, parking and driveway areas, graveled areas, sidewalks, and paved recreation areas.
- **In-migration** – Population movement into an area during a given period.
- **Incubator** – A facility dedicated to the start-up and growth of small businesses, accomplished through management and facility support systems.
- **Industrial and Commercial Buildings District** – Adopted by the City of Providence in 2002, this thematic, non-contiguous local historic district provides protection for listed historic commercial and industrial buildings throughout the City.
- **Infill Development** – The construction of a building on a vacant or underutilized parcel located in a predominately built up area.
- **Infrastructure** – Facilities and services needed to sustain residential, commercial, industrial, institutional, and other activities.
- **Institutional Master Plan** – Plans prepared by health care and educational institutions, submitted to the city, that detail short, mid and long-range growth and expansion plans.

- **Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA)** – An act of the federal government intended to develop a national intermodal surface transportation system, and which authorized funds for highway construction, highway safety programs, mass transit programs, and other transportation-related programs. It was preceded by the Surface Transportation and Uniform Relocation Assistance Act of 1987 and followed by the Transportation Equity Act for the 21st Century (TEA-21) and most recently in 2005, the Safety Accountability Fairness Efficiency Transportation Equity Act: A Legacy for Users (SAFETEA-LU).
- **Intermodal Transportation** – The ability to connect, and the connections between, various modes of transportation.
- **Jobs District** – Areas intended for industrial, manufacturing, commercial and office uses to support business growth and expansion. Residential uses are prohibited in these areas.
- **Knowledge-Based Industry** – Industries which are intensive in technology and human capital.
- **Land Bank** – The purchase of land by a local government or nonprofit agency for use or resale at a later date. Banked lands have been used for development of low-and moderate income housing, expansion of parks, and development of industrial and commercial centers
- **Land Development Project** – A project in which one or more lots, tracts, or parcels of land are to be developed or redeveloped as a coordinated site for a complex of uses, units, or structures, including, but not limited to, planned development and/or cluster development for residential, commercial, institutional, recreational, open space, and/or mixed uses as may be provided for in the zoning ordinance.
- **Land Use** – The occupation or utilization of land. Some examples are residential, commercial, industrial, recreational, and agricultural.
- **Leadership in Energy and Environmental Design (LEED)** – A green building rating system.
- **Liquefied Natural Gas (LNG) Import Facility** – Shipping terminals where LNG is offloaded, stored, re-gasified and injected into pipeline systems or trucks for delivery to end users.
- **Live/Work** – A structure or portion of a structure combining a dwelling unit or rooming unit with an integrated work space principally used by one or more of the residents.
- **Local Historic Districts** – A group of buildings, properties or sites that have been designated by the City as historically or architecturally significant.
- **Locally Undesirable Land Uses (LULU)** – A term that has been applied to uses such as prisons, hazardous waste facilities, landfills, power plants, and other uses perceived by the public as posing a health or safety risk.
- **Low Income Housing Tax Credits (LIHTC)** – Created by the Federal Tax Reform Act of 1986 as an alternate method of funding housing for low-and moderate-income households.
- **Massing** – The three-dimensional bulk of a structure: height, width and depth.
- **Master Plan** – An overall plan for a proposed project site outlining general, rather than detailed, development intentions. It describes the basic parameters of a major development proposal, rather than giving full engineering details. Required in major land development or major subdivision review.
- **Median Income** – Median income is the amount which divides the income distribution into two equal groups, half having income above that amount, and half having income below that amount.
- **Metropolitan Transportation Planning Initiative** – Program created in 2006 based on findings of Transit 2020 Working Group; its purpose is to define the best responses to the transit-related challenges faced

by the Providence Metropolitan Area in the years ahead and how a robust transit system can reduce congestion, improve environmental quality, promote development of the urban core, preserve open space and protect the character of Rhode Island, and promote economic development in the Metropolitan Area.

- **Micro Loan** – A small startup loan, typically under \$10,000.
- **Mixed-Use** – A mixture of land uses within a single development, building, or tract.
- **National Register District** – An area, listed on the federal Department of the Interior’s official list of cultural resources worthy of preservation that is significant in American history, architecture, archeology, engineering, and culture.
- **Neighborhood Markets** – A program of Providence’s Department of Planning & Development which uses public and private resources to revitalize key commercial corridors within the city in partnership with local merchant associations.
- **Neighborhood Plan** -Plan for one or more of the city's official neighborhoods.
- **Net Migration** – The difference between in-migration and out-migration during a specified time frame. Net migration can be either positive or negative. Positive net migration indicates net in-migration, while negative net migration indicates net out-migration.
- **Node** – A strategic spot in the city that serves as a center or hub of activity, often located at major intersections or distinguished by a landmark.
- **Non-Point Pollution** – Non-discreet sources of pollution such as agricultural land with fertilizers that are carried from the land by runoff, or automobiles.
- **Out-Migration** – Population movement out of an area during a given period.
- **Open Space** – means any parcel or area of land or water set aside, dedicated, designated, or reserved for public or private use or enjoyment or for the use and enjoyment of owners and occupants of land adjoining or neighboring the open space; provided that the area may be improved with only those buildings, structures, streets, and off-street parking, and other improvements that are designed to be incidental to the natural openness of the land.
- **Parcel** – A lot, or contiguous group of lots in single ownership or under single control, and usually considered a unit for purposes of development. Also referred to as a tract.
- **Passive Recreation** – Activities or uses that are informal and generally do not require specialized facilities or equipment, such as walking, sitting, picnicking, board and table games.
- **Pavement Management Program** – A Rhode Island State Department of Transportation program that provides for highway work not already performed as part of routine maintenance. Such work includes resurfacing, striping and signing, minor drainage improvements, minor guardrail improvements, crack sealing, chip sealing, retaining wall repair, and sidewalk and curb repair.
- **Pedestrian Oriented Development** – Development which is designed with a primary emphasis on the street, sidewalk, or connecting walkway access to the site and building, rather than on auto access and parking lots. In pedestrian oriented development, buildings are typically placed relatively close to the street and the main entrance is oriented to the street sidewalk or a walkway.
- **Physical Alteration Permit** – Granted by the Rhode Island Department of Transportation, the purpose of the permit is to allow for alterations to curbs, sidewalks, highway access, storm-water disposal, construction within the state highway right-of-way, and traffic signals.

- **Plan** -When capitalized, the work Plan refers to *Providence Tomorrow: The Comprehensive Plan*. When the word plan is used in all lowercase letters, it refers to other specific plans.
- **Point Pollution Source** – A stationary location or fixed facility from which pollutants are discharged; any single identifiable source of pollution; e.g. a pipe, ditch, ship, ore pit, factory smokestack.
- **Population Density** – Population per unit of land area.
- **Poverty Level** – Defined by the U.S. Census Bureau, families and unrelated individuals are classified as being above or below the poverty level based on a poverty index that provides a range of income cutoffs or “poverty thresholds” varying by size of family, number of children, and age of householder. The income cutoffs are updated each year to reflect the change in the Consumer Price Index.
- **Property Tax Relief Credit** – A State of Rhode Island’s property tax credit available to Rhode Island residents whose total income does not exceed \$30,000. The refund is calculated based on the amount by which property taxes (or rent) exceed a percentage of the household income.
- **Providence Housing Trust (PHT)** – A City of Providence management agency designed to provide resources to create, rehabilitate and preserve affordable housing throughout the city.
- **Providence 2000: The Comprehensive Plan** – Adopted in December 1994, this document was a guide for future growth and change in the city, setting forth the city’s policies for public and private actions. Succeeded by *Providence Tomorrow: The Interim Comprehensive Plan*.
- **Providence Bicycle Network** – A system of designated bike routes extending throughout Providence
- **Providence Home Rule Charter** – Adopted in September of 1980, and amended in March of 2007, this document establishes the powers of the city government and authorizes them exercise those powers.
- **Providence Off-Street Parking Authority** – A City of Providence agency whose purpose is to assist in the development of off-street parking facilities through site assembly and financing.
- **Public Realm** --Publicly owned streets, sidewalks, rights-of-ways, parks and other publicly accessible open spaces, and public and civic buildings and facilities.
- **Quality of Life** – The attributes or amenities that combine to make an area a desirable place to live.
- **Retail Destination** – A center of retail/commercial activity.
- **Revolving Loan Fund (RLF)** – Provided by the Providence Economic Development Partnership, this program is designed to encourage job creation and new investment in business ventures located in the City of Providence by providing below-market rate, short term loans for business or for projects that have difficulty obtaining conventional commercial financing.
- **Rhode Island Comprehensive Planning and Land Use Act** – This state law, adopted on June 11, 1988, requires every city and town in Rhode Island to adopt a local comprehensive plan. Each local comprehensive plan must discuss the following nine elements: goals and polities, land use, housing, economic development, natural and cultural resources, services and facilities, open space and recreation, circulation, and implementation.
- **Rhode Island Department of Environmental Management Open Space Grant** – A State program that provides funds towards the construction of a variety of open space venues, such as playgrounds, ball fields, walking paths, boat launches, picnic areas, and landscaped gardens, and are given to communities throughout the state.
- **Rhode Island Historical Preservation and Heritage Commission** – The Rhode Island state agency for historical preservation and heritage programs. The commission operates a statewide historical preservation program that identifies and protects historic buildings, districts, structures, and

archaeological sites. The Commission also develops and carries out programs to document and celebrate the rich cultural heritage of the Rhode Island people.

- **Right-of-Way** – A strip of land acquired by reservation, dedication, prescription, or condemnation and intended to be occupied by a street, trail, water line, sanitary sewer, and/or public utilities or facilities.
- **Riparian Land** – Land that is traversed or bounded by a natural watercourse or adjoining tidal lands.
- **Riparian Flow** – High water flows that access parts of an active floodplain on a regular basis.
- **Risk Watch** – A program of the National Fire Protection Association, designed to teach children how to recognize and avoid certain types of unintentional injuries, and to help children cope with natural disasters.
- **Runoff** – The rainfall, snowmelt, or irrigation water flowing that has not evaporated or infiltrated into the soil, but flows over the ground surface.
- **Rural** – An area not included in the boundary of an urban area.
- **Safe, Accountable, Flexible, Efficient Transportation Act: A Legacy for Users (SAFETEA-LU)** – A federal law, enacted on August 10, 2005, that guaranteed \$244.1 billion in funding for highway, highway safety, and public transportation projects SAFETEA-LU succeeded the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA)
- **Satellite Cities** – Smaller municipalities adjacent to a major city which is the core of a metropolitan area. Satellite cities differ from suburbs, subdivisions and bedroom communities in that they have municipal governments distinct from that of the core metropolis and employment bases sufficient to support their residential populations.
- **Sea Level Rise** – Long-term increases in mean sea level, often attributed to the greenhouse effect and associated global warming.
- **Site Planning** – The process of creating a development plan for one or more lots on which is shown the existing and/or the proposed conditions of the lot.
- **Smart Growth** – Policies, legislation, regulations, procedures and strategies that attempt to achieve more compact, efficient, mixed-use development, tied to existing infrastructure and facilities by using such techniques as transfer of development rights, growth boundaries, targeted public and private investments, impact fees, open space and farmland preservation, and flexible zoning and subdivision regulations with established parameters.
- **SmartCode** – A model integrated development code that incorporates Smart Growth and New Urbanist principles, Transect-based planning, environmental and zoning regulations, and regional, community and building-scaled design provisions.
- **SmartWay and SmartWay Elite** – Based on a US Environmental Protection Agency (EPA) Greenhouse Gas and Air Pollution rating system, SmartWay and SmartWay Elite are designations given to those vehicles that score well on both the Air Pollution and Greenhouse Gas Scores.
- **Solar Access** – The availability of, or access to, unobstructed direct sunlight.
- **Special Needs Housing** – Housing, usually with supportive services in place, that serves the specific needs of the disabled community.
- **Specific Plan** -Plans based on geographies other than the official neighborhood boundaries such as the waterfront, and other topic-based plans such as economic development.
- **State Historic Tax Credit** – Provided by the Rhode Island Historic Preservation Tax Credit Program, this credit is given to those who restore historic income-producing buildings in order to make preservation

work more affordable. The credit equals 30% of the cost of approved rehabilitation work. In order to qualify, the project must cost at least as much as half the value of the building (50% of adjusted basis). Those whose preservation projects are approved receive the credit on their state income tax return.

- **Stakeholder** – Anyone who may be affected by a decision. Someone who has a stake or interest in the outcome of a decision, often involving land or real property.
- **Stewardship** – A sense of personal responsibility for taking care of something that is not one's own.
- **Storefront Improvement Grant** – Provided by the Providence Economic Development Partnership, businesses can apply for this reimbursable matching grant for visible exterior improvements to retail locations throughout Providence.
- **Stream Stabilization** – Techniques used to combat soil erosion at stream banks and to establish a stable stream system that maintains equilibrium with natural forces on and in the stream.
- **Street Tree** – A tree located in the public right-of-way between the sidewalk and the street.
- **Street Grid** – The existing network or pattern of streets within a city.
- **Suburban** – A city's outlying area, usually characterized by lower population and residential densities.
- **Suburbanization** – The process of population movement from within towns and cities to the rural-urban fringe.
- **Surface Parking** – Paved areas at-grade used for vehicle parking.
- **Sustainability** – The capacity to meet environmental, economic, and community needs without compromising the ability of future generations to meet their own needs.
- **Tax Stabilization** – A limit on the amount of taxes applicable to a particular tax payer for a specified time period usually 10 – 15 years (tax usually stabilized at a pre-development rate). Used as an incentive to encourage or direct development in a particular way, usually with public benefit obligations included in the tax treaty.
- **Traditional Neighborhood Design** – An approach to planning and urban design that emphasizes the development patterns and characteristics of small, older communities such as a mixed land uses, grid street patterns, pedestrian circulation and amenities, open spaces, and architectural character—all of which create a strong sense of community.
- **Transit** – Passenger services provided by public, private, or nonprofit entities including commuter rail, rail rapid transit, light rail transit, light guideway transit, express bus, and local fixed route bus.
- **Transit-Oriented Development (TOD)** – The concentration of development at nodes along public transit corridors, either light rail or bus routes.
- **Transitional Area** – An area in the process of changing from one use to another or an area which functions as a buffer between land uses of different types or intensity.
- **Transportation** – The movement of people and goods from one place to another.
- **Transportation Improvement Plan (TIP)** – A list of transportation projects that the State of Rhode Island intends to implement using federal highway and transit funds.
- **Tree Canopy** – The square footage of land area covered by a tree's canopy at the tree's maturity.
- **Urban** – Of, relating to, characteristic of, or constituting a city. Urban areas are generally characterized by moderate and higher density residential development, commercial development, and industrial development, as well as the availability of public services required for that development, specifically central water and sewer, an extensive road network, public transit, and other such services.

- **Urban Agriculture** –The practice of agriculture within or surrounding the boundaries of cities.
- **Urban Design** – The process of organizing the contextual elements of the built environment such that the end result will be a place with its own character or identity.
- **Urban Fabric** – The physical form of towns and cities. See also Urban design.
- **Vehicle Excise Tax** – A tax on registered motor vehicles and trailers that cities and towns are authorized to administer and collect.
- **Vehicle Miles Traveled** – The total distance traveled by all motor vehicles of a specific group in a given area at a given time.
- **View Corridor** -The line of sight from a defined public vantage point (i.e. a park, open space, public right-of-way, etc.) looking toward an object or area of significance.
- **Water Type Classifications** – The six categories of coastal waters defined by the Rhode Island Coastal Resources Management Program. The classification types impact land and water activities within a 200 ft. area contiguous to shoreline features and range from waters in natural, undisturbed conditions to waters predominated by industrial activities.
- **Water-Dependent Uses** – An activity which can only be conducted on, in, over or adjacent to a water body because such activity requires direct access to that water body, and which involves, as an integral part of such activity, the use of the water.
- **Watershed** – The total area above a given point on a watercourse that contributes water to its flow; the entire region drained by a waterway or watercourse that drains into a lake or reservoir.
- **Watershed Lands** –Land surrounding a water body’s natural area of drainage.
- **Wayfinding** – A comprehensive and coordinated system of signage and other visual cues used to aid navigation and orientation in the built environment.
- **Wetlands** – Land such as a swamp, marsh, bog or fen (not including land that is being used for agricultural purposes and no longer exhibits wetland characteristics) that: is seasonally or permanently covered by shallow water or has the water table close to or at the surface; has hydric soils and vegetation dominated by hydrophytic or water-tolerant plants, and; has been further identified, by the RIDEM or by any other person according to evaluation procedures established by the RIDEM, as amended from time to time.
- **Zoning** – The reservation of certain specified areas within a community or city for building and structures, or use of land, for certain purposes with other limitations as height, lot coverage, and other stipulated requirements.
- **Zoning Ordinance** – The ordinance and accompanying zoning map enacted by the City Council pursuant to Section 45-24-27 through 45-24-72 of the RIGL (the Rhode Island Zoning Enabling Act of 1991), which sets forth the regulations and standards relating to the nature and extent of uses of land and structures.
- **Zoning Overlay District** – District(s) as established in the zoning ordinance that is superimposed on one or more districts or parts of districts and that imposes specific requirements in addition to, but not less, than those otherwise applicable for the underlying zone.