

Historic Preservation Board

Wednesday, July 19, 2023 at 5:00 PM Via
Zoom



MEMBERS

Robert O'Brien, Chair
Julia Tate, Vice Chair
Hilary Bassett
Brad Miller
Jeffrey Talka
Rob Whitten

REMOTE PARTICIPATION:

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For public comment via Zoom, you will need to use the "raise your hand" feature. To raise your hand via the telephone, please hit *9. You will be unmuted by the host when it is time for public comment.

You are invited to a Zoom webinar.

When: Jul 19, 2023 05:00 PM Eastern Time (US and Canada)

Topic: Historic Preservation Board Public Hearing 7/19/2023

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PUBLIC COMMENT INFORMATION:

To submit written public comment on an agenda item, email hp@portlandmaine.gov. Submissions must be received by 12:00 pm **the day before** the Historic Preservation Board meeting to guarantee their inclusion in the agenda packet. All submissions must include the commenter's name and legal address. To help ensure your comment is submitted for the correct item, please include the name of the agenda item (see below).

Please note that the placement of each item on the agenda is subject to change. Please check the [Agenda Center](#) prior to the meeting for the item start time.

AGENDA:

1. **ROLL CALL AND DECLARATION OF QUORUM**
2. **REPORT OF ATTENDANCE AT THE MEETING HELD ON JULY 5, 2023**
 - i. **WORKSHOP:**
48 Brown Street: *Bassett, Miller, O'Brien, Talka, Tate, Whitten present*

PUBLIC HEARING;

61 Wilmot Street: *Bassett, Miller, O'Brien, Talka, Tate, Whitten present*

3. REPORTS OF DECISIONS AT THE MEETING HELD ON JULY 5, 2023

- i. Review & Recommendation to Maine Historic Preservation Commission regarding National Register Nomination for 61 Wilmot Street (Franklin Towers). The Board voted 4-2, Tate and Whitten opposed, to recommend that the Maine Historic Preservation Commission support the nomination as submitted.

4. COMMUNICATION AND REPORTS

5. PUBLIC HEARING

- i. Certificate of Appropriateness for Proposed Lighting; 27 PARK AVENUE (DEERING OAKS PARK); Friends of Deering Oaks, Applicants. A project and plan summary are available for viewing on the city's CSS Portal (<https://css.portlandmaine.gov/>) by referencing Plan Number HPBR-002379-2023.
- ii. Certificate of Appropriateness for Alterations; 215 COMMERCIAL STREET; Granite Face LLC, Applicants. A project and plan summary are available for viewing on the city's CSS Portal (<https://css.portlandmaine.gov/>) by referencing Plan Number HPBR-002551-2023.

6. WORKSHOP

- i. No workshop items.

**STAFF MEMORANDUM
HISTORIC PRESERVATION PROGRAM
PLANNING AND URBAN DEVELOPMENT**



TO: Chair O'Brien and Members of the Historic Preservation Board
FROM: Evan R. Schueckler, Historic Preservation Program Manager
DATE: July 14, 2023
RE: 27 Park Avenue (Deering Oaks Park) – PUBLIC HEARING – Lighting
PROJECT ID: HPBR-002379-2023
MEETING: July 19, 2023

Owner: City of Portland
Applicant: Anne Pringle, Friends of Deering Oaks
Designer: Pandora LaCasse, Pandora LaCasse Studio

A sign announcing the Historic Preservation Board's meeting on July 19, 2023 was posted at the property on July 8, 2023. A legal ad was published in the Portland Press Herald on July 7, 2023 and July 8, 2023, and 31 notices were sent to neighboring property owners within 100 feet of the subject property.

PROJECT SCOPE

Install new pair of custom light fixtures atop the ornamental granite piers that flank State Street as it crosses through Deering Oaks Park at Park Avenue. The lights would be constructed of Stainless Steel with the lit orb forms being 30 inches in diameter.

SUMMARY OF HISTORIC CONTEXT

Deering Oaks Park was established in 1879 after the fifty-acre parcel was deeded to the City of Portland by the Deering Family in exchange for a freezing of their property taxes for ten years. City Civil Engineer, William Goodwin prepared the original design for the park which largely guided its development into the early twentieth century, though the park did continue to evolve with later design input from the Olmstead Brothers and several structures designed by local architect, Frederick A. Tompson, including the Deering Oaks waiting room known as "The Castle" and the piers known as "The State Street Gate" (see page 13 of the Deering Oaks Master Plan for discussion of the history of the State Street Gate).

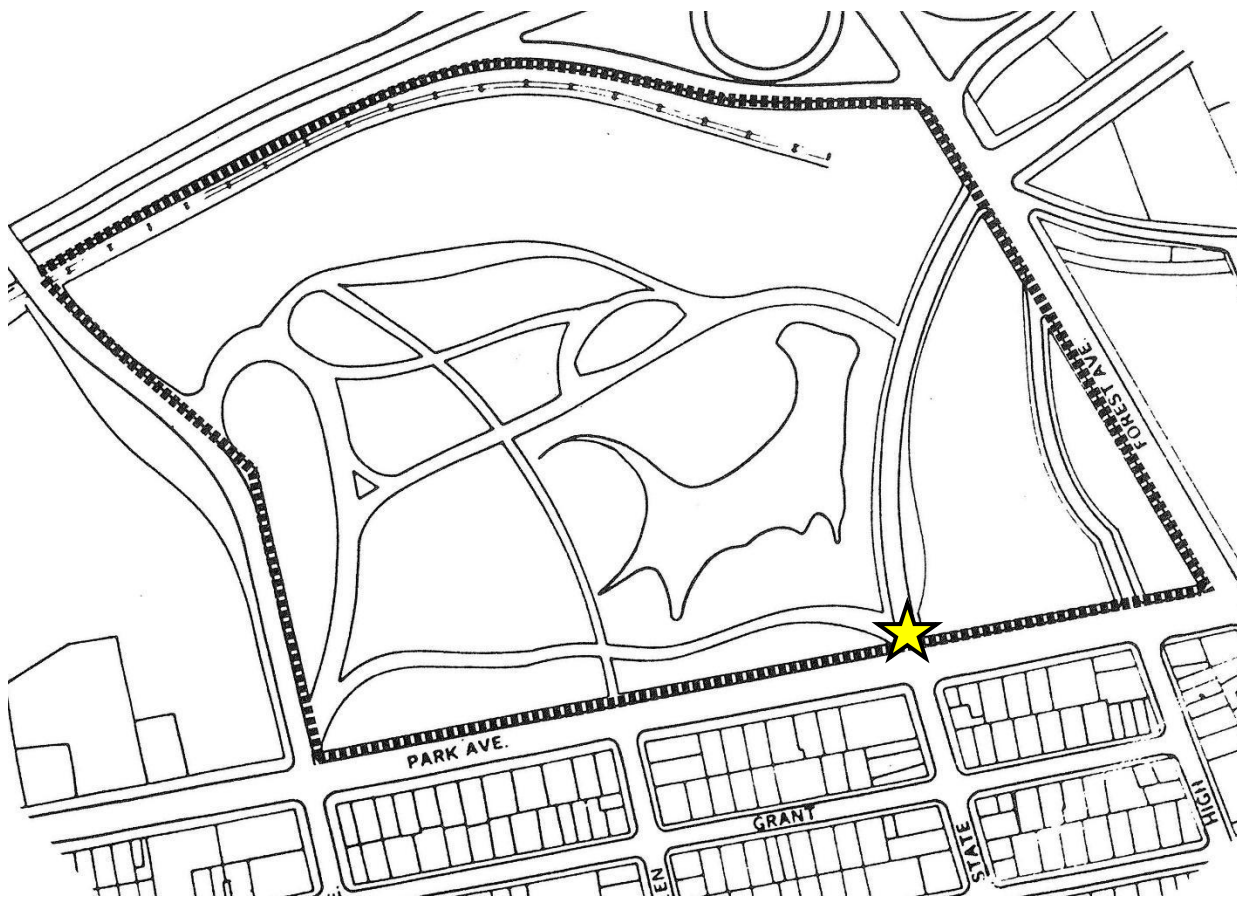


Figure 1: Map of Deering Oaks Historic Landscape District showing location of the granite piers along State Street where the lighting is proposed. (Historic Resources Design Manual, page 99)

The State Street Gate is composed of two identical granite piers. Each pier is composed of four engaged Scamozzi Ionic columns, one at each corner of a core of ashlar stone. These columns and core stand on a large plinth with a flared base and minor entablature, and then are capped by a simplified Ionic entablature. The entablature has an additional block of granite atop, which would have raised the base of the light fixtures above the projecting cornice of the entablature below. The original light fixtures were cast bronze, manufactured by Winslow Bros. of Chicago. The lights feature a central square or octagonal support with four smaller supports, one centered on each side. The whole arrangement was oriented at a forty-five-degree angle from the parallels of the granite pier. These elements supported a round basin which held a segmented glass orb containing the electrical lighting elements. Photographs by Parks, Recreation, & Facilities Staff of the top of the piers show the ghost of the light fixture and three holes that were likely part of the attachment system for the original lights. The very top of each pier is about a fifty-inch square.

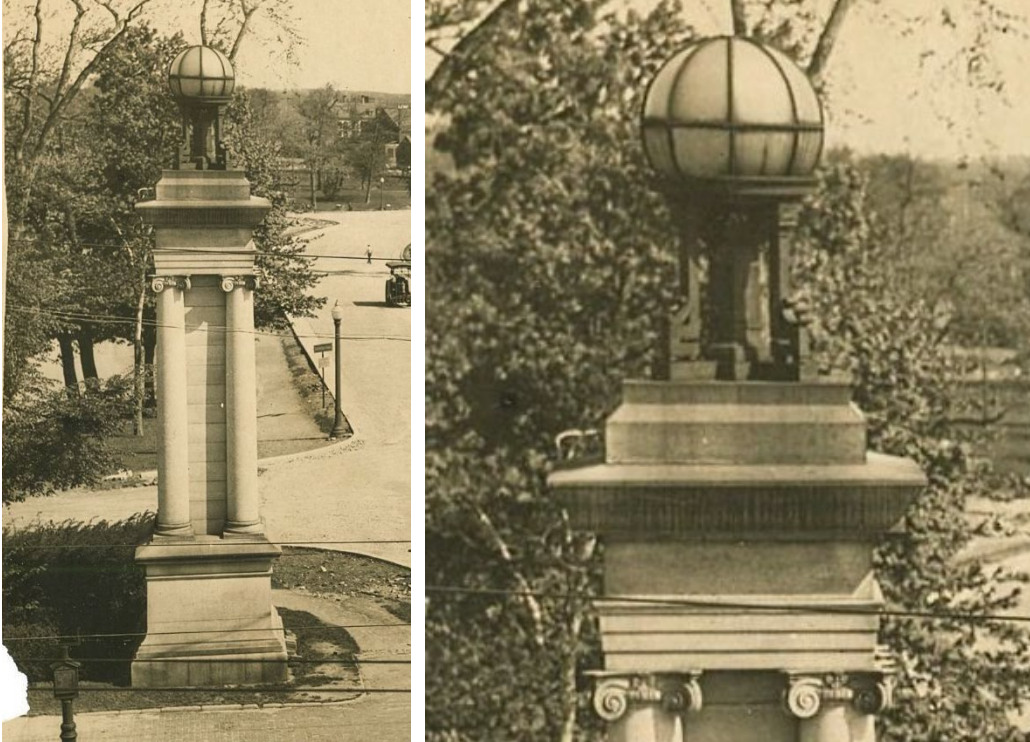


Figure 2: Undated historic image showing the western State Street pier with the original light fixture (left) and a close-up of the light fixture (right). (Provided by applicant)



Figure 3: 2019 view of the State Street piers in their present condition without the original lights. (Google Earth)



Figure 4: 2022 image of the top of the west pier showing the ghost of the original light fixture. (Parks, Recreation, & Facilities Staff)

PREVIOUS REVIEW BY HISTORIC PRESERVATION BOARD

March 15, 2023, Workshop:

On March 15, the Historic Preservation Board conducted a preliminary review of the proposed contemporary light fixtures. Board members expressed a favorable view of the proposed lights, acknowledging that they are a clearly contemporary intervention that will bring new attention to the historic State Street Gate. Board members commented on several details of the design, including the size of the light forms, the details of electrification and attachment of the lights, and the character of the light itself. Board members recommended that the applicant explore reducing the size of the light forms to be more consistent with the Historic size of the lights. It was also reinforced that the electrical supply should be concealed within the masonry piers and that attachments should be made in a reversible way. Board members also generally agreed that a white light or warm light would be preferable to a cool light.

Several Board members also suggested that a small interpretive sign should be included in the project to inform members of the public about the contemporary lights and the intentions of the Friends of Deering Oaks Park to raise funds to restore the missing historic fixtures.

STAFF COMMENTS

In reviewing this project, the Board should review the Deering Oaks Master Plan as well as the Standards for Review of Alterations. For convenience staff have included several relevant excerpts from the Master Plan that speak to the State Street Gate specifically, historic features generally, and lighting.

In response to Board feedback, the applicant has reduced the scale of the proposed orbs from 48 inches to 30 inches and has provided an updated sketch rendering showing the proposed lights in comparison to the historic fixtures.

The applicant has reviewed the condition of the top of the pier based on the photographs provided by Parks, Recreation, & Facilities staff, and are confident that the existing holes can be used to attach the new lights. The applicant has also been working with the Department of Public Works to confirm the locations of existing below-grade power lines. Once these have been identified, they will work with an electrician to determine how and where electricity can be supplied through the center of the piers. Staff have included in the suggested motion conditions that the power be supplied in a concealed manner (prohibiting any surface mounted conduits) and that attachment details be reviewed and finalized with staff.

The applicant had also agreed with Board comment that a small interpretive sign would benefit the project and has provided a preliminary sign design for Board comment. Staff have included an additional suggested condition that the final design and details of the sign be reviewed by staff including placement and materials. The Board would be welcome to provide additional detail in the condition.

ANALYSIS OF APPLICABLE REVIEW STANDARDS

Standards for Review of Alterations, 17.8.2:

Standard 1	
Every reasonable effort shall be made to provide a compatible use for a property which requires minimal alteration to the character defining features of the structure, object, or site and its environment or to use a property for its originally intended purpose.	
Standard Met?	Staff Comments
Yes	There is no proposed change of use for the property. The project will reintroduce the functional and decorative element of lights atop the piers, restoring a historic element of the gate design.

Standard 2	
The distinguishing original qualities or character of a structure, object, or site and its environment shall not be destroyed. The removal or alteration of any historic material or distinctive architectural features should be avoided when possible.	
Standard Met?	Staff Comments
Yes	The applicant is not proposing to remove, alter, or destroy any original distinguishing qualities of the historic piers.

Standard 3	
All sites, structures, and objects shall be recognized as products of their own time, place, and use. Alterations that have no historical basis or create a false sense of historical development, such as adding conjectural features or elements from other properties, shall be discouraged.	
Standard Met?	Staff Comments
Yes	The applicant is not proposing to add any conjectural features to the historic piers.

Standard 4	
Changes which may have taken place in the course of time are evidence of the history and development of a structure, object, or site and its environment. Changes that have acquired significance in their own right shall not be destroyed.	
Standard Met?	Staff Comments
Yes	No alteration to historically significant developments to the structure are proposed.

Standard 5	
Distinctive features, finishes, and construction techniques or examples of skilled craftsmanship which characterize a structure, object, or site shall be treated with sensitivity.	
Standard Met?	Staff Comments
Yes	The applicant is confident that they will be able to utilize the existing holes in the tops of the piers to attach the proposed lights, requiring no permanent alterations to the historic masonry.

Standard 6	
Deteriorated historic features shall be repaired rather than replaced wherever feasible. Where the severity of deterioration requires replacement of a distinctive feature, the new feature should match the feature being replaced in composition, design, texture, and other visual qualities and, where possible, materials. Repair or replacement of missing historic features should be based on accurate duplications of features, substantiated by documentary, physical, or pictorial evidence rather than on conjectural designs or the availability of different architectural elements from other structures or objects.	
Standard Met?	Staff Comments
Yes	The applicant is not currently proposing to pursue a faithful reproduction of the historic lights; however, the proposed contemporary lights are meant as a step towards that vision through increased attention to support fundraising. At this time, the applicant has not completed research so as to accurately reproduce the historic fixtures. The proposed lights are not meant to be conjectural, but are instead meant as simplified interpretations of the historic lights.

Standard 9	
Contemporary design for alterations and additions to existing properties shall not be discouraged when such alterations and additions do not destroy significant cultural, historical, architectural, or archaeological materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the size, scale, color, material, and character of the property, neighborhood or environment.	
Standard Met?	Staff Comments
Yes	The applicant is proposing a simple contemporary design for the new fixtures.

Standard 10	
Wherever possible, new additions or alterations to structures and objects shall be undertaken in such a manner that, if such additions or alterations were to be removed in the future, the essential form and integrity of the historic property would be unimpaired.	
Standard Met?	Staff Comments
Yes	The electrical supply and attachment details will be completed so that no damage is done to the Historic Masonry.

Excerpts from Deering Oaks Master Plan:

Goals and Objectives
<u>1. Improve the Image and Safety of Deering Oaks (Page 22)</u> The use and enjoyment of Deering Oaks has been negatively affected because of real and/or perceived lack of safety. Examples of actions that could be taken to improve the image and safety of Deering Oaks are: C. Use a variety of means to educate the public about the history and recreational opportunities at Deering Oaks, to foster greater understanding about and comfort int the park.
Staff Comments
Reinstallation of lighting at the State Street Gate will draw attention to these historic features that speak to the early twentieth-century development of Deering Oaks Park. They will also draw attention to the missing historic fixtures, a primary objective of the applicant, hoping to drum up interest and fundraising to pay for the recreation of the historic fixtures.
<u>3. Rehabilitate and Preserve the Historic Design Intent of the Park (page 24)</u> ...The focus of treatment at Deering oaks, with its tradition of on-going use, should be on rehabilitation of the features of the park landscape sympathetic with historic design intent. This includes preservation of particular character-defining features and possible reconstruction of lost features of significance.... Examples of actions that could be taken to rehabilitation and preserve the historic design intent of the park are: A. Strengthen the character of park entrances, and experience of gateways and transitions from the city into the park. Evaluate the need for all vehicular entrances. D. Minimize the division of the park by State Street. Reinforce, through design elements and vehicular control, the status of State Street as a parkway between Marginal Way and Park Avenue. E. Recommend design improvements to park elements such as lighting and site furnishings compatible with the park's history. G. Rehabilitation park structures in ways that are consistent with their original design, replacing inappropriately designed structures with original or compatible designs.
Staff Comments
Reinstallation of lighting at the State Street Gate will strengthen the character of this prominent entrance into Deering Oaks Park. As well, it should create a stronger relationship between the two gate piers, in particular at night, helping to emphasize State Street as an entrance to, rather than a division within, the park. The applicant has endeavored to design new temporary light fixtures that will be consistent with the overall placement, scale, and character of the historic light fixtures.

Landscape Character and Historic Design Intent Recommendations and Guidelines
B. Landscape Details (page 52)
2. Restore the original lights on the State Street Gates.
Staff Comments
The proposed contemporary fixtures do not precisely align with this recommendation; however, the hope is that by installing these and drawing attention to the State Street Gate, the friends will be able to raise funds for a faithful recreation of the historic lights at a future date pending additional research on the designs of the original fixtures.

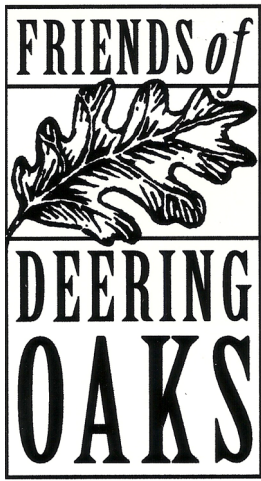
MOTION FOR CONSIDERATION

I move to CONDITIONALLY APPROVE application HPBR-002379-2023 for lighting at 27 Park Avenue (Deering Oaks Park) on the basis of submitted documentation, plans, and specifications; information provided in the staff memo; and findings by the Historic Preservation Board that the project meets Standards for Review of Alterations 17.8.2- 1-7 & 9-10 and is consistent with the Deering Oaks Master Plan, with the following conditions:

- 1) That all electrical connections and equipment shall be concealed within the State Street Gate piers or below-grade,
 - 2) Final attachment details shall be reviewed and approved by Staff to ensure that no damage is done to the historic masonry of the State Street Gate, and
 - 3) Final signage details including material and placement shall be reviewed and approved by Staff to ensure the signs will be sufficiently durable, and scaled and placed appropriately.
-

ATTACHMENTS

1. Project Summary
2. Light Design
3. Historic Images
4. Proposed Signage
5. Parks, Recreation, & Facilities Letter of Support
6. Deering Oaks Master Plan



MISSION STATEMENT

The Friends of Deering Oaks is a non-profit citizen organization committed to preserving, protecting and enhancing the physical condition of Portland's historic Deering Oaks Park and promoting its use by residents and visitors. The 1994 Deering Oaks Master Plan will guide the activities of the Friends of Deering Oaks.

Friends of Deering Oaks
P.O. Box 10416
Portland, Maine 04104
(207) 774-0437

February 17, 2023

Evan Schueckler
Historic Preservation Program Manager
City of Portland
389 Congress Street
Portland, ME 04101

Dear Evan:

As an element of its 25th Anniversary, the Friends of Deering Oaks wants to bring back the lighting fixtures on the granite pillars on Park Avenue, which originally flanked the main State Street entrance to the park. See attached images .

The granite pillars were designed by local architect Fredrick Tompson and installed in 1903. The ornamental electric light fixtures were fabricated by Winslow Brothers of Chicago (<https://www.urbanremainschicago.com/news-and-events/2021/08/15/from-ornament-to-ordinance-winslow-brothers-and-world-war-one/>) and installed the following year.

At some point, the fixtures were removed (rumored perhaps to have been melted down for the WW II war effort). They have never been replaced.

As noted, in connection with our 25th Anniversary but also with our resurrected effort to restore two-way traffic to State and High Streets, we propose to commission Pandora LaCasse to fabricate modern fixtures that will evoke the historic ones. These temporary fixtures would be in place for a few years, while we search for historic fixtures with the assistance of preservationists Scott Hanson and Jonathan Taggart. If found, FoDO will raise funds to purchase and install them, hopefully coordinated with the restoration of two-way traffic.

The LaCasse-fabricated fixtures would be of similar size and shape as the original, but simpler and clearly of contemporary design. Both the support structures and the light forms would be constructed of stainless steel. The light forms would be strung with white LED lights.

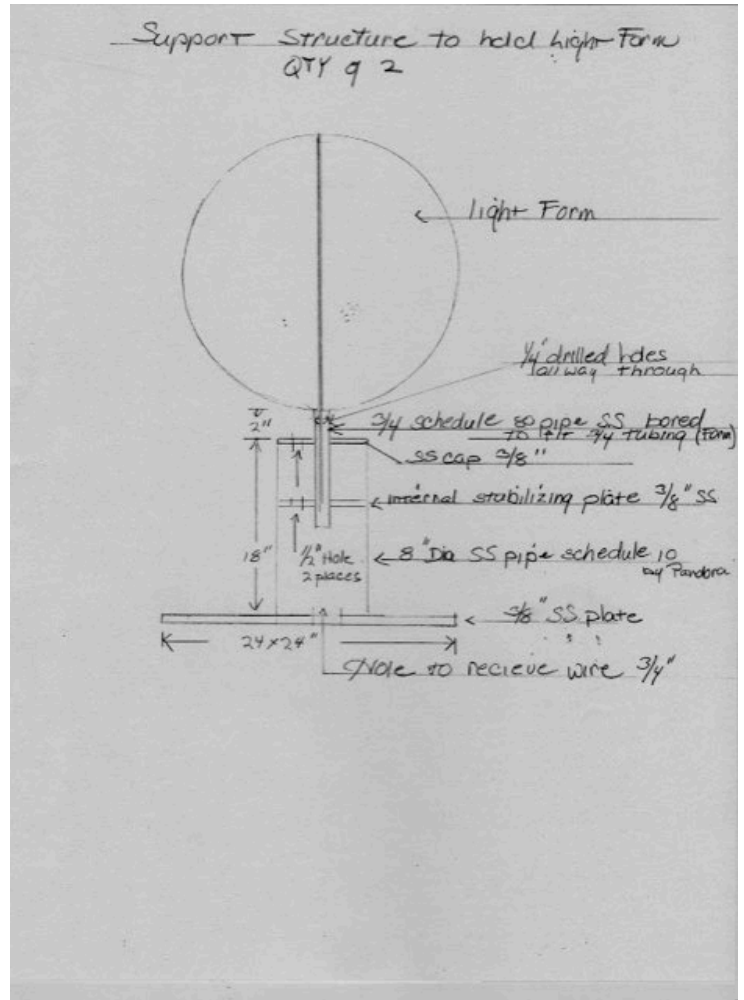
We have secured a funding commitment for this temporary installation and seek approval from the Historic Preservation Board. If approval is secured by March, we hope that the fixtures can be fabricated and installed by early summer.

We look forward to questions and comments from the Board.

Very truly yours,

(s) Anne B. Pringle
President

Proposal for two Light Forms with support structures for Pillars at D.O.



I have created a design that will bring back the lighting at the top of the pillars similar in size and shape while keeping the design of the structural elements simple in direct contrast to the original style of the light housing.

Project Costs Include:

Two 48" dia. Light Forms **Diameter Revised to 30"**
Materials: Stainless Steel spring wire, Stainless Steel collars, Stainless Steel Tubing, LED Lights,

Two Support Structures: See diagram,
Materials: SS 8" dia. x 18" pipe, 3/8"SS Square plate, 24"x24", 3/4 SS bored pipe to hold light forms.

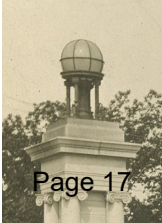


STATE STREET ENTRANCE—DEERING'S OAKS





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FRIENDS *of* DEERING OAKS

What's going on here?...

Did you know...

~~In 1904, cast bronze light fixtures, fabricated by the Winslow Brothers in Chicago, were installed atop the granite pillars designed by local architect, Frederick A. Tompson and erected in 1903;



STATE STREET ENTRANCE—DEERING'S OAKS

~~The contemporary fixtures you see here, designed by local artist Pandora LaCasse, are intended to evoke the original;

~~The Friends of Deering Oaks (est. 1997) plans to raise funds to replicate the original fixtures, to be installed in ???;

~~**You can help!** Go to the Friends of Deering Oaks website (deeringoaks.org) for more detail, to join our organization, or to donate to this project;

~~Thank you for your interest in Deering Oaks!...

Parks, Recreation and Facilities
Ethan Hipple
Director



2/17/23

To Whom It May Concern,

I am writing to state that the Department of Parks, Recreation and Facilities is aware of and supports the project being spearheaded by the Friends of Deering Oaks to replace and enhance the pillar lighting in the park.

We support their application for Historic Preservation review regarding this project.

Sincerely,

A handwritten signature in blue ink, appearing to read "Ethan Hipple".

Ethan Hipple

Director, Parks, Recreation and Facilities Department
City of Portland
212 Canco Rd, Suite A
Portland, Maine 04103
ehipple@portlandmaine.gov

Deering Oaks

Portland, Maine

Master Plan

Prepared for:

The City of Portland
Maine

May 1994

Consultants:

The Halvorson Company, Inc.
Landscape Architects and Master Planning Consultants

Acknowledgments

The collaboration between the master planning team, the master plan committee and city staff was critical to the development of a creative plan that will guide the future of Deering Oaks with respect for its past and awareness of the circumstances of the present. The consultant team wishes to thank all who have given countless hours to the development of this plan for their thoughtful and intelligent direction, and their substantial contributions to the final product.

Portland City Council

Richard W. Paulson Jr., Mayor
Anne Pringle, former Mayor
Thomas H. Allen
George Campbell
Philip John Dawson
Orlando Delogu

Charles Harlow
Cheryl A. Leeman
Keri D. Lord
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City Agencies

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Historic Preservation Committee, Sidney Thaxter, Chair
Friends of the Parks Commission, Anne Pringle, Chair

City Staff

Robert Ganley, City Manager
Nadeen Daniels, Assistant City Manager
*Joseph E. Gray, Jr. Director, Planning and Urban Development
*Alexander Jaegerman, Chief Planner
*Kay Wagenknecht-Harte, Urban Designer and Project Manager
Richard Knowland, Senior Planner
Kandice Talbot, Planning Technician
*Larry Mead, Director, Parks and Recreation
*George Flaherty, former Director, Parks and Public Works
*Jay DiPaolo, Superintendent, Parks, Cemeteries and Ballfields
*Jeff Tarling, City Arborist
Gary Goddard, Senior Printer

*Staff Members of Master Plan Committee

Deering Oaks Master Plan Committee

Mayor Anne Pringle, Chair

Eleanor Ames

Stan Bennett

David Brenerman

Anne Callender

John Carroll

Michael Deangelis

Peter Gribben

Andrew Hyland

Deborah Krichels

Councilor Keri Lord

Michael McCarthy

Leslie Merrill

Douglas Moody

Margery Niblock

James Pierce

Consultants

The Halvorson Company, Inc., Master Planners

Peter C. Welanetz, Principal-in-Charge

Elizabeth A. Vizza, Project Manager

Paul E. Rogers, Horticulture

Shary Page Berg, Landscape Preservation

Gary Hebert of Fay, Spofford & Thorndike, Inc., Traffic Engineering

Haley & Aldrich, Inc., Hydrology

Theresa Mattor, Historic Research

C. Michael Lewis, Illustration

Other Contributing Organizations

Greater Portland Landmarks

Maine Historic Preservation Commission

Maine Olmsted Alliance for Parks and Landscapes

Deering Oaks Master Plan Table of Contents

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- Guidelines for Special Event Use

- Deering Oaks Family Festival Management and Policy

Introduction

By the mid-nineteenth century, Deering's Woods was the largest undeveloped open space near the city, and a dramatic remnant of Maine's primeval landscape. It had been enjoyed as a quiet retreat by the city's residents long before its development as a public park. The donation of the land to the city by the Deering family in 1879 ensured that this cherished place in Portland would be preserved and available for use for years to come.

Today, the historical significance of 54-acre Deering Oaks has been recognized by its placement on the National Register of Historic Places and its designation in 1990 as a local historic landscape district. It was designed by City Civil Engineer William Goodwin in the naturalistic style popular at the time. His layout enhanced the existing beauty of a site the major natural elements of which can be seen in a plan as early as 1690—wooded areas and pond outline. Today, some of the park's majestic oak trees are 200 years old.

The legacy of Deering Oaks is a long and cherished one. In the Spring of 1993 it was recognized that there needed to be a long-term vision for the future in order to protect and improve what was most valuable about this special place in Portland, and to develop a framework for future decision-making. It was also anticipated that recreational development in the area would place pressures on the park, particularly on its circulation system, that needed to be controlled in order for Deering Oaks to serve as the urban refuge it is meant to be.

A committee of 16 citizens, chaired by the mayor and representing a broad spectrum of neighborhood, institutional, political and professional perspectives, worked hard over eight months to craft a plan that respects the historic integrity of the park while accommodating the evolving needs and circumstances of today's park visitors and context.

It is hoped that this plan will inspire and be actively used as the blueprint for on-going stewardship of Deering Oaks by the city and by its citizens. The words of the park's designer from the last century are relevant to this endeavor today, and to the importance of a comprehensive and collaborative planning process:

"The proper improvement of the whole area of the Oaks must extend over a period of many years and will therefore demand continuity of thought on the part of those charged with its execution. It should begin with the guidance of a general plan which should indicate the main features of the completed

landscape, embodying not alone the suggestions of any one person, but of those also who had most carefully and intelligently studied the possibilities of the locality..."

Report of the City Civil Engineer, 1880

I EARLY YEARS (1630s - 1879)

Colonial Town

Present-day Portland, which was originally part of the town of Falmouth, was one of Maine's early communities as it offered both a protected harbor and fertile land for farming. After initial settlement in the 1630s, the population grew steadily despite Indian attacks. By 1675 there were forty farms scattered around the peninsula. War with the Indians decimated the area for a few years but in 1678 peace was made, at least temporarily.

Among those returning to rebuild their homes was the Anthony Brackett family whose farm was located near what is now Deering Oaks. The Bracketts had been captured by the Indians but escaped to safety. A few years later, in 1689, Brackett's orchard was the scene of one of the fiercest battles of the French and Indian wars. In an intense six-hour battle, Major Benjamin Church defeated the 700 Indians but the following spring the community at Falmouth Neck was once again annihilated.

The 1690 Plan of Falmouth Neck shows a small settlement concentrated along the Casco River near the present old port. There are a few outlying farmsteads but Brackett's farm at the edge of Back Cove is the most remote. The layout or extent of the property is not indicated, although it was probably a small subsistence farm carved from the woods like most in Maine during this era. The area just south of the farmstead (now Deering Oaks) was heavily wooded and laced with inlets.

Once the Indian threat was eliminated, Portland grew rapidly because of its good harbor and abundant natural resources. Lumber was an important basis of the new prosperity, particularly supplying masts to the British Royal Navy. The American Revolution temporarily ended the town's prosperity as Portland actively sided with the colonists. In 1775 Portland was once again destroyed, this time at the hands of the British, who bombarded and burned the town. Nathaniel Deering, who opened the first store on Fore Street and helped construct Long Wharf after the disaster, was one of many who rebuilt the downtown area.

Growth of Portland

In 1786 the town of Portland separated from the rest of Falmouth and grew rapidly in the years that followed. Shipbuilding, lumbering, fishing and trade were its primary industries. By 1820, when Maine became a state, the population of the new town had reached 8,581. Along with the growing population was a dramatically changing physical form. Plans from the 1820s and 30s show the port area well developed and streets extending out towards what is now Western Promenade.

In 1832 the state capitol was moved to Augusta and Portland was incorporated as a city. By this time the population had grown to over 13,000 and Portland was a flourishing commercial center with the largest fleet on the eastern seaboard. Commercial activity centered near the old port while the western part of the peninsula was becoming a fashionable residential district.

The coming of the railroad in the 1840s further solidified Portland's role as a center of trade. The Portland and Rochester Line came in along the western edge of Back Cove, crossing the inlet near Green Street (Deering's bridge) before heading east towards a depot built on filled land at the south edge of Back Cove. In the 1850s gradual filling expanded the land further into Back Cove. By this time the New County Road running along the southern edge of Deering Oaks had been renamed Portland Street.

Early Parks and Civic Improvements

With Maine's statehood in 1820 came a new era of civic pride and a desire for public improvements. Mount Joy Hill on the eastern edge of the peninsula overlooking Casco Bay had long been popular as a common ground where citizens could go for scenic enjoyment. Portions of the area were acquired by Portland in 1828 "for the ornament of the town as well as for the health and pleasure of its citizens" (NR nomination). By 1837, the city recognized the need to preserve the dramatic scenic qualities of the site and constructed a pleasure drive which became known as Eastern Promenade. Similar improvements were made at Bramhall's Hill on the western end of the Portland peninsula, later known as Western Promenade. These two areas are early examples of preserved scenic landscapes. It is all the more remarkable that they were acquired by the city several decades before the creation of Central Park in New York and before Niagara Falls or Yosemite Valley became public reservations.

The third major public landscape in Portland was Evergreen Cemetery, established in 1854. Like Mount Hope Cemetery in Bangor, Evergreen was based on rural and romantic landscape ideals established at Mount Auburn Cemetery near Boston and was an important model for the design of public parks in the years that followed.

The fire of 1866 which wiped out much of the downtown area was the impetus for Portland's fourth major open space. Lincoln Park was created partly as a fire break and partly as a "promenade park, the object being less to display beautiful scenery but primarily afford an opportunity for fresh air and ample uninterrupted promenade." (Gardens of Municipal Intercourse) The design of the 2.49-acre park by City Engineer Charles Goodell was far more elaborate than Portland's earlier parks, with curving tree-lined paths, a central fountain and ornate granite and iron perimeter fence.

Deering's Oaks

Anthony Brackett was the first known settler of the Deering Oaks area. His family farmed the area immediately north of the Oaks during the late seventeenth century. Even at that time, the area south of the inlet was known for its mature trees. By the 1820s the Deering family owned the former Brackett farm and had built a bridge across the inlet, known as Deering's bridge. At that time the Deering's Oaks area was roughly circumscribed by Green Street (with bridge) and Back Cove at the east; the inlet and the farm at the north; a street which corresponds with the present Deering Avenue at the west; and Cumberland Street at the south. Other features in the vicinity included the alms house and powder magazine to the west and a ropewalk near Deering's bridge. By 1831 the New County Road (present Park Avenue) had been built, further defining the southern boundary of the area.

An 1843 plan of James Deering's farm, the first detailed depiction of the area, shows roads, farm buildings, orchards, gardens and fields located north of the inlet (which by this time was known as the Mill Pond). The stone bridge was also a dam to harness the tidal power of the inlet for the adjacent mill. The Mill Pond itself consisted of two arms, a longer northern arm (which extended through the site to connect with a small stream which drained the area to the west) and a shorter southern arm. There were extensive tidal flats along the edges of the pond and between the two arms was a densely forested area – the site of the famous oaks.

The 200-acre Deering homestead was described in Nathaniel Deering's obituary. "Its broad, park-like appearance, its multitude of gigantic oaks, well kept and elegant buildings and grounds are said to compare favorably with any similar establishment in the United States in the immediate vicinity of a city. It is remarkable for its spreading oaks of monstrous size. The white oak is of very slow growth and some of these of from twelve to fifteen feet in circumference must have been at least two centuries (old). The margin of each of the original roads through the estate is ornamented with elms of 75 years growth, while the fruit trees of all kinds are almost without number." (date unknown, Maine Historical Society, Deering/Noyes Collection, File 951)

By the mid-nineteenth century, Deering's Oaks was the largest undeveloped open space near Portland and a dramatic remnant of Maine's primeval landscape. At a time of growing urbanization, when wilderness and natural scenery were nostalgically romanticized, this large tract of forest so close to the city was a popular destination for outings. Although still privately owned, it was known to all Portland residents and functioned almost as a public reservation. Henry Wadsworth Longfellow, in his poem "My Lost Youth", was one of many to sing its praises when he wrote of "the breezy dome of

Deering's woods". In the 1850s the city, recognizing the importance and potential of the area, proposed to buy the property but the offer was refused.

II. GOODWIN'S DESIGN (1879 - 1893)

Public Ownership

Although the city's earlier offer to purchase Deering's Oaks had been refused, in 1879 the heirs of James Deering (Nathaniel and Henry) donated their interest in the Oaks to the city of Portland to be used as a park forever on the condition that taxes on their other property would not be increased for ten years. The remaining interest in the Oaks was acquired from the heirs of Mary Preble for \$9,000. The total acreage of the new park was 44.62 acres. (Annual Report 1905, NR Nomination)

The land acquired by the city was bounded on the south by Portland Street (now Park Avenue); on the west by Grove Street (Deering Street); on the north by the Mill Pond embankment with the Mill Pond and the town of Deering beyond and on the east by industrial land including the Casco Tannery with Green Street (Forest Avenue) beyond. Recommendations were made immediately that the industrial land be acquired to fill out the park and remove intrusive uses but this took many years to accomplish.

Several factors influenced Portland's interest in the Oaks. One was the growth of the city, which by the 1870s, occupied most of the peninsula with little open space remaining. Another factor was the Oaks themselves, long recognized as a local landmark and a place of recreation and inspiration, a vestige Maine's natural scenery. External influences were important as well. In 1858 New York's Central Park established a precedent for naturalistic urban parks. In 1870 Frederick Law Olmsted, one of the creators of Central Park, visited Boston and spoke eloquently about "Public Parks and the Enlargement of Towns", later moving to Boston to design the park system there. Olmsted envisioned idealized natural scenery which could provide a healthful setting where urban residents could go easily to escape the pressures of daily life. Olmsted's partner for several projects was Calvert Vaux, an English-trained architect who visited Portland in 1878 at the request of the mayor to advise on the city's parks.

Vaux, who shared many of Olmsted's ideas, undoubtedly influenced the thinking of City Engineer William Goodwin. After attending Saco Academy and Bowdoin College, Goodwin worked as a surveyor and engineer for the railroads before joining the U. S. Lighthouse Service. From 1872 to 1892 he served as Portland's City Engineer with responsibility for maintaining and improving the city's streets and public grounds. Shortly after Vaux visited Portland, Goodwin was charged with making improvements to Eastern and

Western Promenades and drawing up a plan for Deering Oaks. At the time the profession of landscape architecture was not well-established, so engineers or architects were often called upon to design parks, particularly those like Deering Oaks which had specific technical problems.

Design Concepts

Goodwin's 1879 plan for Deering Oaks followed the naturalistic approach favored by Olmsted, Vaux and many other nineteenth century park designers. A major goal was to preserve the natural beauty which already existed rather than to superimpose a formal design on the landscape. The oaks themselves were the most important feature of the design. Goodwin recommended that "No tree should be cut even in trimming, without a deep sense of responsibility and earnest conviction of necessity" (Auditor's Report 1880). Other important features included a circulation system designed to accommodate both pedestrians and carriages, and a four-acre pond created from the tidal flats.

An early public concern regarding the donation of Deering Oaks was that substantial public outlay would be needed for improvements. Goodwin argued otherwise and urged caution, recognizing that implementation of his design would have to be phased over many years. He also stressed the importance of an overall plan to provide continuity and urged that the plan be approved by the city council to prevent undue influence by special interest groups. His arguments regarding the proposal for a parade ground at the corner of Grove and Portland Streets are reminiscent of those used by other nineteenth century park designers who sought to preserve the integrity of a design. Goodwin felt that there wasn't enough room for a parade ground and insisted that it was better to have trees and shrubs which would be enjoyed every day than a parade ground which would be used only a few days of the year and would otherwise be a wasteland.

Goodwin also made a distinction between the natural scenery of the Oaks and a park. "The name 'The Oaks,' or 'Deering's Oaks,' for this public breathing place, seems to have become well established. It is scarcely ever termed the 'Park,' and is a name so much fitter and better than the latter that special care should be taken to retain it. The place can probably never become a park with expensive park-like structures and accessories, but will always be 'the Oaks' whatever may be done in or about it." (Report of City Civil Engineer, 1881).

Goodwin's ideas regarding reservations (although he did not use the term) as opposed to parks reflected the thinking of progressive park designers of his time. The concept of preserving remote areas of natural beauty was well established by the 1860s but creating reservations closer to urban centers was not common until the 1890s. Waverly Oaks, a similar site near Boston, was publicly acquired in 1893.

Drainage and Hydrology

Along with preservation of the trees, drainage and sanitation were among the first issues to be addressed in Goodwin's plan. Soon after the land was acquired by the city, a trunk sewer was constructed from Grove Street, along Portland Street to the foot of State Street and then through the Oaks to a point just beyond the bridge on Green Street, allowing the sewage to flow through a closed, underground drain into Back Cove rather than through the open Mill Pond to the north.

As the sewer ran northeast from State Street through the Oaks, it also served as a dam, retaining the water to the west and transforming the tidal flats into a pond. By 1880 the pond was beginning to fill and the area was already in use even though construction was not complete. Each night 300,000 gallons of water from the Sebago Reservoir ran into the pond through a pipe at the head of the Mellen Street Cove (Auditor's Report 1880). Goodwin hoped that springs at the head of the pond, together with rainfall would keep the water sweet during the summer months. If not, the water could be drawn off at any time through the sewer by opening the tide gate. He only hinted at the difficulty of transforming a tidal area into a freshwater zone. "The pond . . . will be much improved when the flags, root and all, which infest it, shall have been removed." (Report of City Civil Engineer 1884).

The pond edges were derived from the natural shape of the land as it appeared on maps going all the way back to 1690. The western and southern edges were a series of small coves and embayments with the longest at the north, dividing the park area almost in two and a second major embayment at the head of Mellen Street. The northeastern edge was more rectilinear with a small peninsula (again an echo of earlier forms) jutting out into the pond while the eastern edge was largely straight, created by the man-made dam.

At the northeastern corner of the pond "A bank wall of ledge stone laid in cement with granite coping has been built around the cove . . . being 102 feet long." Goodwin thought this would be useful as a boat landing in summer and a gathering place for skaters in winter but urged against extending it, arguing that it was expensive and "does not compare in symmetry of appearance with green sward coming down to the water's edge, fringed at salient points with willows and other waterside trees and shrubs." (Report of City Civil Engineer 1884) A curved pipe rail was set around the cove at the foot of the pond.

From the beginning the westerly ravine was a problem. Even though there was a spring, there was insufficient water flow to create the effect that Goodwin intended. His plan shows a fountain, visible from the major entrance at Portland and Grove Streets and then a series of dammed pools

stepping down to the main pond. Edge treatment in this area was to be more naturalistic with steep slopes and heavy plantings. Photographs from the late 1880s show some natural forest understory along the slopes of the gully but other areas bare and eroded, particularly at the water's edge. This is not surprising given the dense shade and intense use. In his 1884 report Goodwin stressed the importance of making improvements to this area, "Details of the improvements of this gully are shown on the Oaks plan which at no great expense would form striking features of the landscape." (Report of City Civil Engineer 1884) He also suggested that the water supply be fed in at the head of the ravine rather than at Mellen Street.

Circulation

Goodwin's circulation system was designed to provide "driveways and foot paths enough for convenience of ingress and egress in four directions." (Auditor's Report 1880) Like other park designers, he carefully separated pedestrian circulation from carriage traffic and created winding routes which provided passages of scenery through the area as well as connecting more formally with the city street system. He had entrances at the four corners of the park although he felt that the southwestern corner would become the main entrance. An 1887 photo reveals the rough, undeveloped character of the area, and illustrates Goodwin's vision in designing a grand entrance for the city which later grew up around the Oaks.

Marginal Way, which followed the alignment of the railroad embankment, was designed to serve as the northern edge of the park and to connect Deering Oaks with Portland's other parks. Goodwin wrote "The circuit of our public grounds, beginning with either Promenade and thence passing through our shaded streets and the Oaks to the other Promenade, affords a variety and natural beauty of scenery to be found in but few cities of the country." (Auditors Report 1881) Once again he showed unusually sophisticated thinking in attempting to create not a single park but a park system linked by parkways as Olmsted and others were doing in Boston and other large cities. Although other sections of Marginal Way were built, the portion north of Deering Oaks, with its central fountain and tree-lined drives was never constructed.

By 1881 the dam embankment north of State Street had been raised three feet and graded to a width of twenty feet, making a carriage road along the eastern edge of the pond. Goodwin's efforts to preserve trees were even reflected in the alignment of the road, which divided in several places to accommodate existing trees. He wrote, "The motive here is a rural drive such as is found among our suburban woods. There is not enough of upland at that place for a broad drive, and the trees which must have been destroyed to make room for such a roadway are surely of much greater value than a strip of rolled gravel

or macadam however broad and smooth." (Report of City Civil Engineer 1881).

The same year two temporary foot bridges were constructed across the ravine and several additional drives were built through the woods on the northern side of the pond. The earliest photos show very simple wooden bridges but by 1887 a three-arched wooden bridge was built over the northernmost gully near the pond with vertical slatting and a diagonal railing.

Vegetation

In the nineteenth century, the white oaks which comprised the Deering Oaks were magnificent trees, some as much as 12 to 15 feet in circumference and 200 years old. Goodwin recognized that "The crowning glory of the oaks will always be the "breezy dome" of the old woods, to which the elms and beeches and birches, the maples and evergreens and shrubbery can never be much more than an ornamental fringing." (Auditors Report 1880) His plan shows the oaks as a dark, densely planted mass occupying most of the western portion of the site, intersected at several points by pond embayments.

Along the southern and northern edges of the park, trees and shrubs of diverse species were to be massed in groups according to the picturesque style. This created a more open park-like landscape, a transition from the formal city edge to the wilderness-like oaks. It was also a more diverse planting, with primarily deciduous trees and shrubs but some evergreens scattered for effect.

Goodwin proposed two areas of open lawn. The major one was located on the peninsula immediately north of the pond near the bandstand, while the other was at the western edge of the park, along Grove Street. The final type of planting that Goodwin proposed was rows of evenly spaced trees along the perimeter of the park and at the edges of the major carriage roads. In 1880, sixteen trees were planted. The following year the number grew to fifty trees planted, including elm, ash, bass, maple, hemlock and birch, most of which were along the embankment drive north of State Street. Diverse species were deliberately selected to see which types were best suited to the locality.

Goodwin's initial plan was conceptual and did not show planting details. Other than the rows of trees, the only formal planting appears to be near the fountain at the southwest entrance. However, despite his efforts to stress preservation of natural scenery and to differentiate between the Oaks and formal parks such as Lincoln Park, by 1887 three beds of coleus had been planted near the bandstand.

Structures

In keeping with the idea that Deering Oaks should not be a formal park but should remain a natural area where citizens could go for tranquility and relief from the city, Goodwin recommended only a few structures. The largest was the bandstand located north of the pond near the central lawn area. This was built in 1883 and appears in photographs a few years later as an octagonal wooden structure with a shingled roof and decorative railings. It was set at the edge of the woods with a few simple wooden benches scattered around. From the first year, evening concerts were popular.

Another structure shown on Goodwin's plan was the duck house located on an island in the pond. This small building, designed to resemble a miniature house, was built in 1887 to provide a home for water fowl, a popular attraction of the area. Benches (called seats) were put in early on, most were simple wooden structures located near the pond.

Of the three fountains that Goodwin proposed (at the intersection with Marginal Way, at the head of the ravine and in the pond) only the latter was apparently built. Constructed in 1887, it was a major focal point of the pond. It was initially a multi-tiered cast iron basin and was much photographed, often in conjunction with the duck house.

Design and Management Evolution

When Deering Oaks was acquired by the city in 1879, responsibility for cemeteries and public grounds fell to a committee which was appointed annually. In 1885 Portland was authorized by the state legislature to appoint a Board of Commissioners to assume this responsibility. The trend from committee to commissioners reflected the higher priority of open space and the need for stronger management and a more consistent vision. The condition of the city's parks and cemeteries was seen as the "thermometer that registers the degree of refinement and culture of the individuals that compose the community." (Annual Report 1885-6) Parks and cemeteries at that time consisted of Eastern and Western Promenades, Lincoln Park, Deering Oaks and Eastern, Western and Forest City Cemeteries (Evergreen Cemetery was administered separately).

Interest in Deering Oaks, the newest and largest of the city's parks, remained strong through the 1880s with Goodwin actively involved in overseeing improvements. In winter the ice was cleared so the pond could be used for skating. In summer, various amusements were provided including a gondola, swan boats, row boats and band concerts. By 1889, the appropriation for Deering Oaks was \$3,150, over half of the city's total parks budget.

One unresolved issue was the condition of the ravine where Goodwin had proposed two waterfalls with a pool above each dam and a fountain at the head, with a spring providing the requisite water. One of the dams was built in 1889 in the hopes of creating the desired effect. Goodwin realized, however, that there might still be a problem with water supply and suggested that the Sebago supply pipe discharging at the foot of Mellen street might need to be removed to this location so that "the water would reach the pond over these falls, adding a feature of liveliness to the quest for beauty of the landscape." (Report of City Engineer 1889).

Another problem that arose in 1889 was a railroad spur proposed along the northern edge of the Oaks where Marginal Way was supposed to have been. Over the opposition of park advocates and property owners, the railroad line was constructed. Some exchanges of land were made to allow the new line to become the northern boundary of the park. The filling which accompanied the construction of the railroad embankment prevented the escape of pollution into Back Cove. By 1891 the creek north of the Oaks was deemed "a huge cess-pool . . . a great receptacle for feculant waste" by the Deering Board of Heath. (Maine Historical Society, Deering Noyes Collection, File #951)

III. BAXTER/OLMSTED IMPROVEMENTS (1893 - 1905)

Baxter's Vision for Portland Parks

William Goodwin retired as City Engineer in 1892 after a twenty-year tenure. His influence on Portland's parks, especially Deering Oaks, was great and his vision was remarkable. Many of his ideas were shared by James Phinney Baxter, a wealthy and influential businessman who was elected mayor in 1893. Baxter had made his fortune as a young man and devoted most of his later life to enhancing the quality of life in Portland, donating a public library and founding other civic institutions.

One of Baxter's greatest achievements was the enlargement of Portland's park system. When he became mayor, Portland's parks consisted of Eastern and Western Promenades, Lincoln Park, Deering Oaks and several smaller squares. By the time he left office in 1905 there were nine parks with a total area of 106 acres. Deering Oaks comprised 51.02 acres or nearly half of this. In the decade that followed, the total grew to 181.97 acres as many of Baxter's plans were implemented.

Baxter envisioned the major parks linked by an arborway such as Olmsted had created in Boston. He recommended acquisition of privately-owned land at Eastern and Western Promenades to protect important views. He pointed to Lincoln Park, built after the great fire of 1866, as the "best exhibition of wise enterprise which Portland has ever made" (Mayor's Address 1895) and

Deering Oaks as "one of our chief prides" but still "capable of annual improvement" (Mayor's Address 1894). His primary goals for Deering Oaks were acquisition of the industrial land to the east and connection with the other parks.

Baxter's greatest interest, and ultimately his greatest accomplishment with regard to Portland's parks, was the construction of a boulevard around the cove. In 1895 he hired the firm of Olmsted, Olmsted and Eliot to prepare a plan for Back Cove including drainage and sanitary improvements as well as the boulevard. The obstacles were formidable as the land around the cove was privately owned and funds were not available for its purchase. Ultimately the project became a political issue which resulted in Baxter's losing the election in 1897.

In 1904 Baxter was once again voted into office. He promptly hired Olmsted Brothers to prepare a comprehensive plan for the Portland park system. Part of the mandate was to develop a scheme for connecting the major parks. Detailed plans were also drawn for the two promenades and for Back Cove with an overall plan showing the connections between the parks. Baxter himself wrote the 1905 report and was obviously the driving force behind the project. He even took Portland's park commissioners to Boston at his own expense to see how parks and parkways had been created there.

Baxter and the Olmsteds envisioned Deering Oaks as a gateway to the city from Union Station to the west. The boulevard connected with the park at its northwest corner and then headed north before turning east towards Back Cove. A broad swath of greensward extended west from the park where the city almshouse had been (site of present stadium). Trees were also proposed along Portland Street, another major route into the city from Union Station and the southern boundary of Deering Oaks.

Some of the plan was implemented immediately but other proposals, especially for Back Cove, were deemed an extravagance and put aside after Baxter lost the election of 1905. However, even that project gained momentum over the years and was eventually built. In 1921 Baxter was in the first car to travel the boulevard which was later named after him.

Deering Oaks Improvements

While Baxter saw Deering Oaks as largely complete, he felt that there was still room for improvements. Among the first of these to take place during his tenure was construction of the carriage road along the southern edge of the pond. This had been proposed in Goodwin's plan but had not been built. Initial survey work was done in 1894 with the 18-foot road built the following year.

A decade later, in 1904, the cove at the head of Mellen Street was filled in because the water in the area was shallow (presumably indicating that the water supply had been disconnected or relocated) and the banks steep and eroding. A curved retaining wall was built about thirty feet from the mouth of the cove and the area behind it filled, eliminating the need for a bridge. "The loop at the foot of the pond formerly spanned by the rustic bridge was filled in and made a part of the driveway at that point. This work was made necessary by the increase in travel for pleasure through this park. This roadway at this point has been badly congested, and by this improvement the driveway was widened about thirty feet, giving ample room for carriages and pedestrians" (Annual Report 1904).

In 1894 the park also got its first major structure with the addition of a waiting room north of the pond. It had not been in the original plan but as use of the area grew, it was soon deemed necessary, particularly in winter as a warming hut for skaters. Frederick Thompson of Portland was the architect. The Park Commissioners were very proud of the new building but also took care to indicate that many of the materials and much of the labor had been donated and thus the cost to the city had been minimal. Restroom facilities were added in a separate wing in 1908.

In 1898 a formal gateway was completed at the northern entrance on Grove Street where the connection with the boulevard system was proposed. The entrance has been described as a central vehicular drive "flanked by pedestrian walkways, delineated by paired, square, random ashlar blocks with a solid granite cap. A wing wall of the same design as the piers, approximately 3 feet high and 3 feet wide connected to the outside pier curves in a quarter circle terminating at a matching granite pier." (NR nomination)

Maintenance and general upkeep continued as well, with public expectations increasing as the city became more urban and sophisticated. The stone wall around the pond was extended by a few hundred feet a year; filling was constantly taking place to eliminate poorly drained areas; roads and paths were improved; trees, shrubs and flowers were planted; buildings and bridges required ongoing maintenance; and benches were added. The pond continued to be a problem with algae and invasive weeds periodically choking it. In 1904 the bottom was thoroughly cleaned but a few years later the problem returned.

Another feature added in the late nineteenth century was the deer park, a small paddock where urban children could be exposed to wildlife. It was mentioned in 1895 when two deer and two pair of pheasants added. In 1900, a new deer park was completed on the north side of the park and the site of the old one near the State Street entrance was regraded. In 1903 the area was mentioned in the city's annual report. "While there are a few changes in the makeup of the small zoological display in Deering's Oaks, it continues to be

an ever-increasing source of pleasure to the patrons of this park, who come there for recreation, and no part of the park is more thoroughly appreciated." (Annual Report 1903) Seven prairie dogs were donated in 1907. The deer park was apparently phased out a few years later when the area it had occupied was converted to a playground.

State Street Entrance

William Goodwin wrote in 1881 that he thought the southwest corner would be the primary entrance to the park but as the city evolved, he also recognized the importance of the State Street entrance. In 1886, when the Commissioners of Public Grounds were newly established and there was strong interest in civic improvements, Goodwin was asked to draw up plans for a formal State Street gateway. Nothing was built at that time but the idea persisted. In 1897 the Commissioners hired architect F. M. Blaisdell to design a monumental gate but the bids were too high so the design was not implemented. In 1902 the issue of a formal entrance came up again, largely the impetus of abutters who had been instrumental in getting a \$2,000 appropriation for the project.

John Charles Olmsted of Olmsted Brothers was called in March 1902 to advise on the landscape treatment of the area. He was outspoken in his criticism of the proposed project saying, "A Gateway is essentially a hole in a fence, and as they now have no fence, the very first thing to do is to determine whether they were going to have a fence, and if so, what kind of a fence, and then they could judge what kind of an architectural display would be appropriate for the gateway." As no one was interested in a fence he judged it "wholly irrational and in bad taste to put up an elaborate and expensive gateway with big brick posts." (Olmsted Collection, Library of Congress, File 1862, Notes by JCO March 21, 1902).

Olmsted suggested landscape improvements instead, including grading, macadamizing, seeding and planting. When this was deemed inexpedient in light of the source of the funding, he suggested a handsome shelter to the right of the entrance area. Initially there was some interest in the idea but ultimately it was rejected in favor of the gates. Once the columns were inevitable, Olmsted consented to make recommendations for the landscape treatment of the entrance. He suggested regrading to eliminate steep slopes, realigning roads and paths, and planting shrubbery on the slope to the left of the State Street entrance.

In 1903 the granite columns which Portland architect Frederick Thompson had designed for the State Street entrance were completed. The following year ornamental electric light fixtures by Winslow Bros., of Chicago were installed on top of the columns. The Park Commissioners wanted to make this entrance "the most attractive of any in the City" (Annual Report 1903). Landscape improvements continued in the years that followed.

In addition to his comments on the proposed gateway, Olmsted was critical of condition of the park. His detailed notes reveal the park through the eyes of a skilled designer with paths too narrow and too low, too few shrubs, pond too shallow and with unnatural wall around it. He lamented "they must still further artificialize the park as seems almost inevitable, to suit the public taste" (Olmsted Collection, Library of Congress, File 1862, Notes by JCO March 21, 1902).

IV. TWENTIETH CENTURY (1906 - 1993)

Evolving Landscape

As Olmsted had noted, by the early twentieth century Deering Oaks was no longer the rustic reservation that Goodwin had envisioned. Like the city around it, the park had evolved with the times, growing more formal in response to changing landscape ideals and the demands of intensive use. However it continued to fill an important need in the life of the city. "Deering's Oaks, from its retirement, still continues to be a resort for family parties and people of quiet taste. Its beautiful and lofty oaks, rustic bridges and the refreshing view of the pond and fountain are appreciated more and more by the ever-increasing number of people who enjoy them" (Annual Report 1906).

Formal entrance gates were created first at Deering Avenue (1898), then at State Street (1903) and later at Forest Avenue. The quality of the roads also changed, with those originally designed for carriages gradually widened and straightened to accommodate automobiles with their higher speeds and wider tires. The volume increased as well with many more people travelling for pleasure by the 1920s. Initially roads had been gravelled with little grading of the roadbed. Gradually they were improved with compacted sub-base, curbs or cobbled gutters at the sides and catch basins where needed. Surfaces were oiled in the early twentieth century and later macadamized. Lights were added along the State Street extension in 1918, reflecting the importance of this roadway to the city's overall circulation system. Paths, initially of compacted earth, were crushed cinders for a time and later crushed stone.

The shape of the land evolved too, from a natural area with rough, irregular topography to a carefully shaped landscape with a more finished appearance. The low area on the Larrabee lot near the State Street entrance (which had originally been a marsh) required substantial filling in the early twentieth century. One of the largest projects took place between 1905 and about 1912 as large areas at the northwestern edge of the park were filled to create recreational land. During 1909 alone, more than two acres was brought up to grade using donated fill material.

Although the pond retained its basic shape derived from the natural configuration of the land, it too changed. The process of building a low retaining wall around the edges which was begun during Goodwin's tenure (and somewhat over his objections) continued through about 1910 at which point the heavily used northern and eastern edges were defined by walls, as was one of the small coves on the south side of the pond (see 1937 plan for extent of wall). The remainder of the southern edge and the ravine continued to have natural earthen edges although some of these had steep slopes which presented a problem, particularly in areas of heavy use. The cove near Mellen Street was partially filled in 1912 with additional grading in 1929.

Maintaining good quality water in the pond had been a problem from the beginning. By 1908 an unusually abundant growth of algae once again made the surface unsightly and impaired the boating. In 1911 the pond again had to be dredged and cleaned. In 1912 a four-inch water supply was installed at the head of the ravine to provide continuous supply of running water, a solution that Goodwin had suggested some years earlier. The Annual Report described the effect. "The water enters the ravine over an artificial rock bottom and flows into the high level pond and over the dam into the main pond" (Annual Report 1912). In 1911 the wooden bridge over the ravine had been replaced by an arched concrete bridge designed by W. O. Thompson, the Parks Department engineer. In subsequent years, gold fish were stocked in the small pond and the slopes of the ravine were planted with shrubs and vines. Planting here was difficult to maintain from the start and had to be done again in the 1930s.

Attitudes about horticulture were one of the biggest changes between Goodwin's ideas about Deering Oaks and those of the early twentieth century. The oaks themselves were the subject of considerable concern. They had declined seriously since the park was established (possibly weakened by an epidemic of brown-tailed moths) and a great many had to be removed. Between 1910 and 1915 over 500 new oaks were planted with more in the years that followed. These are largely what exists today. Between 1915 and 1917 over 300 weeping willows were set out around the pond, few (if any) of which remain.

While Goodwin had worked with a limited palette of trees, primarily native, and very few shrubs and flowers, by the early twentieth century there many new varieties available and the city nursery and greenhouse were producing large volumes of trees, shrubs and flowers for use in the city's parks and cemeteries. In 1917 alone, \$300 worth of "fancy evergreens" were purchased, 36 flower beds were planted with materials from the greenhouse, one bed of 300 shrubs was planted, as were bed of 24 rhododendrons and 18 kalmias on the westerly slope of the pond and 350 hardy blooming plants from the

greenhouse (Annual Report 1917). The turf had taken on a more finished appearance as well with the introduction of improved lawnmowers.

Recreational Facilities

By the turn of the century there was a growing interest in playgrounds and organized athletic activities in Portland as elsewhere. Open areas at Deering Oaks were already used for informal football games but there was also a desire for more structured recreational spaces. The large open area at the north side of the Oaks was recommended to meet city-wide demand for playgrounds and ballfields. In 1902 the city built a small playground at Deering Oaks with separate facilities for girls and boys. It was an immediate success. "The experiment of erecting and maintaining playgrounds in Deering's Oaks has been satisfactory from the start . . . one has but to watch the delight of the boys and girls who congregate there to be convinced that every dollar spent for playgrounds is well invested." (Annual Report 1902).

New play equipment was added annually as funds were available and there were frequent recommendations that the facilities be expanded to accommodate increased use. Suggested improvements for 1908 included swings, rings, bars, ladders and slides. The ballfields were also popular and well-maintained. Initially there was a police officer on duty to oversee the area but during the 1920s teachers were hired during the summer months to organize children's activities.

Playgrounds and athletic fields were imbued with social purpose as well meeting more practical needs. They were considered to promote "the stimulating sense of self-respect that results from the manly contests of skill and strength in which they may engage through these mediums of public beneficence, and they carry to their homes these new ideas, and a new spirit, which are bound, in the long run, to make their parents, as well as themselves, better citizens of this commonwealth" (Annual Report 1908).

As the popularity of the recreational facilities grew, the city began filling the low areas at the northwest corner of the park to create additional ballfields, a process which went on for several years using ashes and other fill materials donated for the purpose. In 1911 the playground was moved to its present location in the enclosure formerly used as a deer park and new play equipment was added. Other facilities were added or upgraded over the years as funds and fashion dictated. In 1927 concrete surface replaced clay at some of the tennis courts for greater durability. The following year a girl's hockey field was constructed on the filled land at the northwest corner of the park.

Sometime between 1915 and 1928 (probably in the early 1920s) a bowling green was built south of the ravine. This was the one athletic activity not located at

the northern edge of the park, possibly because it had a different constituency or user group.

By 1929 the recreational facilities at Deering Oaks included six tennis courts, a baseball and football field, a girls hockey field, a volley ball court, horseshoe pitching, a bowling green and a children's playground. It was one of 12 playgrounds city-wide supervised in good weather by teachers (Annual Report 1929). Other popular activities at the time were ice skating, boating and band concerts.

Note: no good photographs of the play areas have been found to date although they may exist in private collections or newspaper articles. See 1937 plan for layout of play areas at that time and plan of bowling green prepared by William Dougherty as well as other playground details.

Expansion/Rose Garden

As soon as Deering Oaks was acquired by the city in 1879, Goodwin and others recommended that the adjacent land to the southeast be purchased. A major parcel at the corner of Portland and State Streets (known as the Larrabee lot) was acquired in 1894 with subsequent purchases of smaller parcels over the years. Initial improvements, primarily filling, grading and some planting, were made as land was acquired but the area retained a generally unfinished look through the early 1920s. Around 1922 the Casco Tannery, the last major industrial parcel in the block, was acquired. Several smaller parcels along Forest Avenue remained in private hands until they were acquired in 1929, completing the land acquisition program begun fifty years earlier.

The new land did not have the dramatic features which characterized the rest of the park. It was primarily industrial land with dilapidated buildings, flat topography and little vegetation. There was also considerable pressure from the surrounding area. Forest Avenue and the eastern edge of Park Avenue needed to be widened to accommodate increasing automobile traffic as well as trolley lines. An automobile connection was needed between High Street and Forest Avenue. Thus the layout of the new area was dictated in large measure by pragmatic considerations. The design, developed in the 1920s when resources were plentiful and ornamental horticulture was popular, also reflected a very different aesthetic than the rest of Deering Oaks. It was formal and geometric with emphasis on horticultural display. It was also a labor intensive landscape with elaborate plantings and even an irrigation system.

The central feature was a circular rose garden with a series of concentric beds enclosed by a low hedge. Trees were placed primarily along paths and at evenly spaced intervals around the perimeter of the park. Most were deciduous but evergreens were located in lawn areas for contrast. In addition

to the main rose garden, there were also smaller flower beds and shrubs, including a Japanese barberry hedge along Park Avenue. The path system (of crushed stone) was primarily geometric but also responded to circulation needs. Benches were located under trees. A Spanish veterans monument was located near the State Street entrance. Park Department superintendent and engineer William J. Dougherty was responsible for the overall layout of the area with planting by the Parks Department staff.

Another important aspect of the new area was the opportunity to develop a proper connection between State Street and Forest Avenue which had long been a concern. The new road was a wide parkway in a graceful arch. It was intended partly for park purposes but also to meet traffic needs.

Post-War Era

By the late 1930s Deering Oaks was much as it is today with all the important features created and horticultural displays still a prominent characteristic. During the difficult war years, all parks suffered as national priorities shifted and labor shortages resulted in greatly reduced care with few new initiatives. After the war, inflation and high labor costs forced many economies, on top of already deferred maintenance. In the 1970s the northern portion of Deering Oaks was lost with the construction of Interstate 295.

In 1980 the city of Portland developed an Urban Park and Recreation Recovery Action Plan which identified \$4 million in improvements needed city-wide to upgrade parks and recreation facilities. Deering Oaks was recognized as one of the highest priorities. Recommended projects included: rehabilitation of pond wall, erosion control, reconstruction of walkways, installation of lighting, restoration of playground area (i.e., tennis courts and ballfield), road improvements, general landscaping. The following year city and UPARR funds totalling \$143, 000 were allocated for restoration of the pond wall.

In 1983 an additional \$333,000 in UPARR funds was requested for Deering Oaks. Work included conversion of eight tennis courts from clay to asphalt; installation of 20 lampposts throughout the park; erosion control at pond perimeter; rehabilitation of deteriorated stairway to playground and seeding of bank to prevent erosion; installation of new wood railing and curbing to define parking areas; curbing of tennis court road and parking areas to prevent erosion of banks along the road; treatment of dirt/gravel areas with oil-base compound to alleviate dust; continuation of asphalt sidewalk along tennis court road; installation of seven catch basins to eliminate flooding and ponding of water; and restoration of soil to ensure survivability of the oaks (UPARR). In 1989 the historical importance of the park was recognized when it was nominated to the National Register of Historic Places.

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Guiding Principles and Goals & Objectives

Guiding Principles

The guiding principles of the master plan build on the original design concept and purposes as clarified by the historical research that has been done to date. They may be modified as the process continues and historical research is completed. The guiding principles also recognize the significance of changes in the landscape and use of Deering Oaks over time, and the contribution of maintenance and management toward the success of the park as a beautiful and significant landscape of great importance to the people of Portland.

The primary founding and enduring purpose of Deering Oaks is to provide a pastoral refuge from the stresses of urban life, a place that is *"necessary for the comfort and enjoyment of our citizens."* (1893 Address of Mayor Baxter). The primary mission of the master plan, therefore, should be to preserve and enhance the park in ways that will allow it to serve this central purpose in the best possible way, while accommodating multiple recreational uses.

The master plan's guiding principles define the tenets considered fundamental to preserving the unique character and enhancing the special experience of Deering Oaks, both in terms of physical park elements and in terms of the park's use and care.

A Regional Park

The significance of Deering Oaks extends beyond its immediate neighborhood. It is a resource for all of Portland and visitors to the city, and improvements to the park must respond to the needs of the larger public as well as those of the neighborhood.

Management and Maintenance

The quality of Deering Oaks depends to a great extent on an on-going commitment to management and maintenance. This includes a regular program of maintenance for the park's built and natural elements, important components that together characterize the landscape.

Essential Park Elements

There are particular park elements and spatial relationships that define the character of Deering Oaks, and should be understood and respected in all proposals for improvement:

- a. The park's vegetation, particularly its stand of mature oaks, a signature of the space since pre-park days.
- b. The pond, a central organizing and focal feature.
- c. The separation between the active park and the passive park areas. This is essential to preserve the integrity of the park to serve both active and passive recreational needs.
- d. The balance between open spaces and wooded areas.
- e. The relationship of the park itself to the surrounding city.
- f. The curvilinear circulation design, working with the topography and in contrast to the city street grid pattern.
- g. The formal and arboretum-like character of the rose garden area, providing an alternative experience to the main park section.

Goals and Objectives

The goals established for the master plan identify the major needs to be met by the plan's recommendations. The objectives spell out more specifically the means to achieve each goal. The guiding principles for the plan will be defined once historical research is completed. This ordering of needs gives focus to data gathering and analysis, and will provide a testing ground for master plan proposals. It will also assist the on-going process of long-range planning for Deering Oaks, and should be re-evaluated as proposals are implemented and circumstances change.

The following goals and objectives are statements of need and appropriate responses to that need, and not final recommendations.

1. Improve the Image and Safety of Deering Oaks

The use and enjoyment of Deering Oaks has been negatively affected because of real and/or perceived lack of safety. Examples of actions that could be taken to improve the image and safety of Deering Oaks are:

- A. Develop strategies and enforce regulations to reduce inappropriate or illegal use of the park.
- B. Maximize the use of the park ranger program with walking and horseback patrols, and expand their functions to include education, information and enforcement. Facilitate communication and cooperation between park rangers and police.
- C. Use a variety of means to educate the public about the history and recreational opportunities at Deering Oaks, to foster greater understanding about and comfort in the park.
- D. Evaluate the advisability of nighttime lighting of the park.
- E. Encourage the development of a citizens' park advocacy group.

2. Facilitate the Use and Enjoyment of Deering Oaks.

Deering Oaks is an important and beloved park for Portland citizens, as it has been throughout its history. The increasing demands for use in the park have begun to damage its ecological systems and erode its essential character. This degradation has and will lead to reduced enjoyment and use of the park. Examples of actions that could be taken to improve the park's capacity to support public use and enjoyment are:

- A. Maintain, through design and management, the separation of active and passive recreational uses.
- B. Provide parking within reasonable distance from various use areas that is visually unobtrusive within the park landscape. Make policy decisions concerning use of parking areas for non-park users.
- C. Increase the safety and enjoyment of park users by controlling the volume and velocity of automobile movement through the park, including the possible reduction of the number and size of roadways.
- D. Develop a coordinated sign system to provide people with orientation, information and regulations.
- E. Consider the development of a visitor/interpretive center in the park to increase the public's understanding of park history, environment and recreational opportunities.
- F. Increase opportunities for sitting and picnicking.
- G. Make improvements to the path system, including upgrading of path condition, addition of paved pathways where needed, and provision for safer passage between park areas separated by roadways.
- H. Identify use conflicts and adopt strategies for their resolution.
- I. Evaluate the use of the park for large-scale festivals, in terms of their impact on the park environment as well as their service to the community.
- J. Ensure that the establishment of any future facilities respect the park's historic design intent and the site's carrying capacity.
- K. Adopt design and management schemes that control uses which are damaging to the park and disruptive to legitimate park use.
- L. Continue to improve the condition of the park's active recreational facilities, including facilities for winter use.
- M. Create links that strengthen the connection of Deering Oaks with the larger open space network.
- N. Integrate the park into a system of amenities within the surrounding neighborhood.

3. Rehabilitate and Preserve the Historic Design Intent of the Park

The National Park Service has identified various treatment approaches for historic properties, each appropriate under different conditions and with different types of resources. There are four distinct, but interrelated, approaches to the treatment of historic properties:

Preservation focuses on the maintenance and repair of existing historic materials and retention of a property's current form as it has evolved over time.

Restoration is undertaken to depict a property at a particular period of time in its history, while removing evidence of other periods.

Reconstruction re-creates vanished or non-surviving portions of a property for interpretive purposes.

Rehabilitation acknowledges the need to alter or add to a historic property to meet continuing or changing uses, while preserving those portions or features which convey its historical or cultural values.

The focus of treatment at Deering Oaks, with its tradition of on-going use, should be on rehabilitation of the features of the park landscape sympathetic with historic design intent. This includes preservation of particular character-defining features and possible reconstruction of lost features of significance.

There should be an effort to stabilize, preserve, rehabilitate and/or improve the character-defining features of the site, particularly the circulation design for use by park visitors; the vegetation and in particular the oak grove; the pond; and park edges and entrances. Additions which are inappropriate to the park's historic character, i.e. the bandstand and the storage locker, should be removed or replaced with sympathetically designed structures.

The period of significance of an historic landscape is that time period in which it achieved the qualities that make it eligible for the National Register of Historic Places. At Deering Oaks, this time period can be considered to be from 1879 to 1937: from the beginning of its time as a park to the last park-wide map available until the present. Deering Oaks is significant as an early designed landscape of Portland, one which has had a prominent place in the public life of the city.

The intent of the historic design of Deering Oaks was to create a natural oasis in the city, a delightful contrast to the urban streets for the recreation of all of Portland's citizens and visitors. The historic design intent built upon the natural characteristics of the land, emphasizing and highlighting them.

Examples of actions that could be taken to rehabilitate and preserve the historic design intent of the park are:

- A. Strengthen the character of park entrances, and the experience of gateways and transitions from the city into the park. Evaluate the need for all vehicular entrances.
- B. Improve the character of the area surrounding the Castle in the Park.
- C. Minimize the visual intrusion of surrounding streets into the park environment.
- D. Minimize the division of the park by State Street. Reinforce, through design elements and vehicular control, the status of State Street as a parkway between Marginal Way and Park Avenue.
- E. Recommend design improvements to park elements such as lighting and site furnishings compatible with the park's history.
- F. Determine the feasibility of extending the water system into the ravine, researching history to determine the evolution and hydrological issues relative to the ravine.
- G. Rehabilitate park structures in ways that are consistent with their original design, replacing inappropriately designed structures with original or compatible designs.
- H. Strengthen the scenic beauty of the park's pond and other focal areas with additional tree and shrub plantings.
- I. Evaluate the historical evolution and need for dual bridges over the pond, and consider eliminating the smaller wooden bridge.

4. Restore and Maintain the Park's Horticultural Beauty and Ecological Health

In many important ways, the quality of "parkness" for the visitor to an urban park such as Deering Oaks is judged by the quality of its natural elements—its trees, turf and water. It is essential, therefore, that the park's natural environment be healthy and aesthetically pleasing. Examples of actions that could be taken to restore and maintain the horticultural beauty and ecological health of Deering Oaks are:

- A. Improve the condition of the park's trees with a systematic program of removal, replacement, pruning, aeration and fertilization.
- B. Develop a program of regular turf management.
- C. Enrich the park's growing environment with a program of soil improvement.
- D. Restore the park's understory plantings in selective places.
- E. Evaluate the water quality of the pond, and recommend improvement measures.

5. Strengthen Park Maintenance and Management Programs

Good maintenance and management, including the financial support necessary to achieve it, is critical to the health and functioning of Deering Oaks. Examples of actions that could be taken to strengthen park maintenance and management programs are:

- A. Evaluate current maintenance and management procedures, and recommend improvements.
- B. Improve coordination and cooperation between the several departments with maintenance and management responsibilities in the park.
- C. Clarify and enforce park regulations.
- D. Develop clear management guidelines and policies for special park events, including a system of fees dedicated to park maintenance.

Summary of Recommendations

1. Image and Safety

Facilitate surveillance and an image of safety for the park:

Use park rangers as well as police for patrolling; maintain all-night park lighting; make interior access control gates remote controlled.

Increase public awareness of and involvement in Deering Oaks:

Develop a citizen advocacy group to promote the positive image and use of the park; educate the public about the park's landscape and historical values.

2. Use

Improve opportunities for passive park use:

Add more park benches and picnic tables in selected locations; develop pedestrian plazas in front of and behind the Castle building, narrowing the entrance in front of the building to pedestrian scale; improve the park's path system.

Improve opportunities for active park use and appropriate special event use:

Refurbish tennis courts and basketball court; convert 1 tennis court to basketball; add 2 volleyball courts; improve pond ice for skating; encourage bowling green use; implement management guidelines for special event use; restrict vendor use to hard surface areas only.

Encourage and facilitate park use and appreciation:

Develop visitor center and ranger station in Castle; increase park programming by the city; develop a comprehensive park sign system.

Provide reasonable vehicular access while reclaiming the park for safe pedestrian, bicycle and other non-motorist recreational activities:

Restrict vehicular travel to one way along Tennis Court Road, providing short-term drop-off and handicap parking in two nodes and major park parking in a 50-car lot behind the Castle building; provide parallel parking along Park and Deering Avenues; leave the Interior Park Road the existing width and gated for periodic use; narrow State and High Streets to two lanes, adding green space to the park; narrow all other roads to pedestrian scale.

Improve open-space connections within the larger neighborhood.

3. Landscape Character and Historic Design Intent

Embellish park edges and entrances to welcome the visitor, mark passage into the park and screen the city from the park:

Increase planting along edges with periodic views in and out; richly plant at entrances; establish major entrance gates at the northern park entrance along State Street; establish small-scale gateways at southern park entrances.

Strengthen the historic character of the park through landscape details:

Park benches, lights, signs, access control gates reflective of turn-of-the-century design; simple trash receptacle design; a hierarchy of path surfacing of brick, stone dust and bituminous concrete; re-alignment of some paths.

Preserve the distinctiveness of various zones within the park, particularly the separation of active and passive park areas.

Strengthen the character of the pond landscape:

Embellished plantings, consistent edge treatment, elimination of the wooden bridge, restoration of the original lights on the concrete bridge, re-introduction of swan boats.

Strengthen the historic character of the park through architectural details:

When major repairs are needed, redesign the bandstand sympathetic with its original design and relocate it to the original park site; scale down the ramp at the pond; redesign the storage locker by Quinn Field; plant in front of the west addition to the Castle to scale down the building's size and emphasize the original east wing.

4. Horticulture and Ecology

Increase the level and quality of vegetation maintenance and management:

Develop a vegetation management plan to plan for the next generation of trees and to record and track vegetation condition and maintenance; institute a higher level of maintenance for all existing and proposed vegetation; compost and re-use leaves as mulch on site; substitute the use of herbicides with Integrated

Pest Management (IPM), which utilizes alternatives to chemicals for pest control.

Improve pond water quality:

Conduct further study to determine best method of increasing flow-through of water in the pond; reduce the size of the duck population.

5. Maintenance and Management

Improve maintenance and management coordination:

Maintain good communication between the departments and divisions responsible for Deering Oaks.

Improve maintenance operations and funding:

Establish a budget with dedicated line items for maintenance planning and funding advocacy; incorporate a system of fees for park use by special events dedicated to maintenance; develop written work schedules and job descriptions.

Make necessary repairs to park structures and infrastructure.

Make any necessary changes to City/Castle vendor agreement to ensure vendor stability and quality while giving the City control over important design and management issues.

Encourage the creation of a Friends group for fund-raising and park advocacy.

Analysis and Recommendations

1. Image and Safety

The most frequently expressed concerns of respondents to the survey of public use focused on safety and security, the image of Deering Oaks as an unsafe place. The greatest percentage of respondents, 39%, cited a variety of illegal or nuisance park uses as posing safety issues: drinking; sexual solicitation; violence; drug dealing; gang activity. Concern for safety after dark was also mentioned frequently, as was concern about the danger posed by the volume and speed of traffic through the park.

Most urban parks share the problem of public concern for safety and security. The problem is both real and perceived at Deering Oaks as well as in other similar urban parks. Perceptions change slowly, once they are ingrained. High visibility efforts must be made to address the issues of greatest public concern, allay fears, and encourage those who do not use the park to visit it.

Recommended changes to the circulation system will improve the real and perceived park environment for the park user. These changes must be accompanied by adequate support for police patrolling of the park.

The concept of park security through rangers that have the official posture of police yet use policing techniques tailored to parks originated with Frederick Law Olmsted. Along with maintenance, park safety was one of his central themes in ensuring the continued success of his parks. Deering Oaks had park rangers at one time, and because of budget constraints does not have the program any longer. However, it has proven of immense benefit as a friendly and authoritative presence in other urban parks across the country, one which cuts down significantly on inappropriate park use. Its reinstatement in this park would be a tremendous support to deter problem uses, enforce regulations, and provide assistance and information to the public, thereby also improving the park's accessibility and image.

Image and Safety Recommendations and Guidelines

A. Park Surveillance:

1. Augment the effectiveness of police patrolling with the use of park rangers to reinforce regulations and appropriate use.
2. Facilitate police patrolling of closed park roads with installation of remote control swing gates.
3. Maintain park lights all night long to facilitate police surveillance.

B. Public Education and Park Use:

1. Educate the public about the values of the park's landscape, history and physical environment in order to reduce inappropriate use and abuse of the park.

C. Citizen Advocacy

1. Encourage the development of a citizen advocacy group to collaborate with the city in promoting the positive image and use of the park, in addition to such a group's role as advocate and fund-raiser for the park.

2. Use

Active and Passive Park Use

A public survey was conducted in the fall of 1993 to solicit input from residents about their use and perceptions of Deering Oaks, and their visions for the future of the space. An analysis of survey responses can be found in the Appendix. The following summarizes that analysis and addresses a range of other issues concerning park use.

The public is very fond of, and concerned for, Deering Oaks. This was clear in the impressive number of questionnaires returned—701 questionnaires out of 4000, or an 18% return—and the extent of commentary written in the returned questionnaires. There is a need, and the solid grounds for, a Friends group to focus the public's commitment to Deering Oaks within a productive, effective structure in partnership with the city as it undertakes the rehabilitation of this important park.

By far, the greatest use and perceived asset of Deering Oaks is as a passive haven in the city. While many visitors take advantage of the active recreational facilities and organized events, the clear majority of use is passive. Therefore, it is essential that improvements to the park seek to strengthen its ability to serve passive recreational needs, while continuing to accommodate active recreation and special events in appropriate locations. Despite the high percentages of respondents indicating passive use of the park, there is very little provision in Deering Oaks for such use—very few picnic tables or park benches are provided.

The defined, active recreational areas see regular use throughout the warm months of the year. Skating on the pond is also a popular winter activity. Passive activities are concentrated predominantly near the pond—sitting and relaxing, sunbathing, feeding the ducks. Sunbathing occurs generally wherever the sun hits the ground, concentrated along the southern edge of the park closest to the adjacent residential neighborhood. The rose circle is also visited and appreciated by a significant number of people.

Access, Circulation and Parking

The opening of nearby Hadlock Field in the spring of 1994 prompted the need to examine the park circulation system in the initial master planning phase, in order to devise a plan that serves park users while protecting the park from being overburdened by non-park traffic and parking. A preliminary circulation study of Deering Oaks was performed by traffic engineer Gary Hebert of Fay, Spofford & Thorndike in October, 1993 in an effort to assess issues and potential solutions relative to traffic and parking in the park. Recommendations were revised and further developed by the team in

collaboration with the project committee and in response to public input. They are based on the following historical background and evaluation of access, circulation and parking in Deering Oaks.

Since the park was established in 1879, the circulation system of Deering Oaks has changed physically to some degree. However, it has changed dramatically in terms of its context and use: Originally, State Street was a two-way road, more curvilinear than at present and lined with trees to reinforce its function as a park road. The impressive pillars at the Park Avenue end of State Street, once serving as signatures of entrance into the park, have lost their significance with State Street now a one-way southward-moving street and the pillars only experienced as one is leaving the park.

Today, State Street is a major three-lane thoroughfare serving regional transportation needs. The high volume of traffic approaches 14,000 cars daily with little breaks in the traffic flow, impacting safe and restful park use. The road cuts the park in two, making it very difficult to physically move between the main section and the rose garden and visually causing these park areas to appear as separate parks. High Street, the second half of a one-way pair with State Street, also sees high volumes of traffic and cuts the Edwards lot off from the rose circle, making the Edwards lot appear as a large traffic island. The proximity of State Street to the pond causes traffic noise and views to intrude onto the serenity of that important passive and focal space in the park.

The northern road, known as Tennis Court Road, was originally designed to be the primary circulation route into and through the park. This was reinforced by major entrance gates at Deering Avenue (still existing) and at Forest Avenue (removed when the Forest Avenue entrance road was eliminated). This road, more curved and narrow than at present, followed the topography and the top of the ridge separating the ballfields and playground from the rest of the park.

Today Tennis Court Road has ten parking nodes along its length, added in the late twentieth century, which are heavily used during the summer, but also used all day long through twelve months of the year. Solicitation has become a common activity at these parking areas as well as along the road that parallels Deering Avenue, driving a significant number of people from this park area. The privilege of using the park circulation system is also abused by short-cut driving along Tennis Court Road, primarily from State Street to Deering Avenue, although to some degree this allows people to enjoy the park from their car and survey it prior to use. A traffic count was conducted over six days in October, 1993 by the city. It showed that upwards of 1000 cars travel this road throughout most of the twenty-four hours of a day.

The middle road, today known as the Interior Park Road, was aligned in relation to a major geographical feature, the ravine at the head of the pond. It is now closed during normal park hours with the use of gates at both ends of the road, and open when needed for overflow parking, snow emergency parking or during the Saturday Farmer's Market. The gate design, a trial closing of the road, makes the road closing appear temporary. A permanent design solution is needed.

The southern road, termed Bowling Green Road, was not established and connected to a lower Deering Avenue entrance until 1895. The current entrance was developed in 1932. Today, that entrance has an open, poorly defined character inside the park. Bowling Green Road has cars parked along its length during most hours of the day, and like Tennis Court Road these are visually intrusive. The traffic count of October, 1993 also found an average of 1000 cars traveling on this road daily. Uncontrolled parking here allows cars to park beyond the paved surface and damage turf areas, creating ruts and large areas of bare earth and causing severe stress to the trees adjacent to the road.

Over the last 10 years an inappropriate park use that has become entrenched along Bowling Green Road is overnight parking by the adjacent residential neighborhood. Cars line the road, not only throughout the night but throughout the day as well. It also appears that residents park in Deering Oaks rather than on streets in the neighborhood.

A survey was conducted over a week's duration in January, 1994 by city staff to determine the average number of cars parked overnight along Bowling Green Road, and the average number of available parking spaces in the neighborhood. It was found that there was an average of 39 cars in the park as opposed to an average of 123 spaces available on Grant and Sherman Streets and Park Avenue. Some people also park their cars in Deering Oaks as a less expensive work-day alternative to a parking garage. It is reasonable for nearby residents to have places to park their cars, but the interior of the park should not be viewed as a legitimate place to satisfy that need. The plan's recommendations succeed in integrating the parking needs of the neighborhood with those of park users, without sacrificing an entire park area for use as a parking lot.

Deering Oaks has been used as a place for parking during winter snow emergencies, and up to 500 cars can be parked in the park. The need for snow emergency parking in the vicinity of the park is a legitimate concern, which is being addressed by the city in response to master plan recommendations that seek to provide reasonable access for park users while controlling inappropriate, damaging or intrusive use of the circulation system by non-park users.

Historically, pathways were designed to allow clear separation between modes of travel, for the safety and enjoyment of all park users. The original park plan shows no paths in the woods, while the 1937 park plan shows paths within the main oak grove. Today, the park paths are for the most part aligned parallel to the roads, and some end without reason. There is no developed path outside of the park along Deering Avenue, and a compacted dirt way indicates the need for one. Walking along the eastern edge of the pond at State Street is a very uncomfortable experience, with insufficient separation between the pond and the road. There is an underpass providing access from one side of Deering Avenue to the other, but it appears uninviting and unsafe.

The cumulative visual effect of the changes in alignment and use of the park circulation system over the years is of lack of caring and of domination by the automobile, with little space to find rest and contrast from the city beyond. Functionally, the circulation system is both a convenience for park users and yet an imposition on safe and comfortable use by the pedestrian. The volume and speed of traffic has made many park areas dangerous to the pedestrian. This is particularly true at the entry drive in front of the Castle building where people must cross the busy road to reach the pond from the building, and on State Street, which must be crossed to visit the rose circle from the main park section.

The following principles and goals were developed for the access, circulation and parking system in Deering Oaks in order to define the purposes and appropriate uses of the system, from both historical and current perspectives:

Access, Circulation and Parking Principles and Goals

Principles

1. The curvilinear circulation design in Deering Oaks was designed to work with the topography and promote easy, relaxing and safe movement through the park by park users. This design is intended to support the experience of the park as a refuge and contrast to the city street grid.
2. The circulation system is intended to provide easy access to every area of the park, either by vehicle or by foot.
3. Ways provided for different modes of travel should be separated for safe and enjoyable movement through the park.
4. The park's circulation system should be primarily used for park-related activities.

5. Use of the park for the purposes of active recreation, passive recreation and special events should all be considered in determining the best scheme for access, circulation and parking.

Goals

1. Access

1A. Reasonable access for park users convenient to facilities

1B. Safe and comfortable pedestrian and bicycle access for park users

1C. Protection of horticultural areas—limiting vehicle access to paved ways only during regular park use (including maintenance vehicles); zoning of park to limit use of natural areas for high-impact events; and compaction mitigation and restoration measures for any vehicle driving on turf areas during special events

1D. Provision for handicapped, emergency and maintenance vehicle access

2. Circulation

2A. Safe and comfortable pedestrian and bicycle circulation throughout park areas

2B. Safe pedestrian movement between various park areas—minimizing pedestrian/vehicular conflicts

2C. Development of pedestrian linkages to greater open space network

2D. Along any vehicular circulation route into or through the park, maintenance of ease of movement along roadway (Olmsted's principle—no right-angle or acute turns that call for calculation)

2E. Clear indications of routes—hierarchy of ways, indicated by scale and surfacing

3. Parking

3A. Parking for park-related activities only during day. Overnight parking permitted at perimeter lot

3B. Alternative, perimeter provision for non-park related parking that has become an established use in the park

3C. Reasonable parking for use of central park areas, particularly playground and tennis courts

3D. Provision for handicapped parking

Special Event and Vendor Use

A number of organized events take place in Deering Oaks. In 1993, there were permits granted to 17 events which ranged from one day to one week, and which had attendance ranging from 10 people for the filming of a commercial to 150,000 people attending the Deering Oaks Family Festival. In addition, a Farmers Market is held along the Interior Park Road on Saturdays from May until November, and Christmas tree vendors sell trees at seven locations throughout the park from Thanksgiving to Christmas.

Deering Oaks Family Festival

Of all the organized activities in Deering Oaks, the Family Festival has aroused the greatest controversy. Proponents point to the large number of people that come and enjoy the event, and are able to have a positive experience in Deering Oaks at the same time. Opponents argue that the scale and longevity of the event cause unjustified damage to the park's natural environment. Some take issue with the character of the Festival, particularly the carnival aspect of it.

In cooperation with the city, the Chamber of Commerce has taken measures in its placement of festival tents, booths and rides to minimize the impact of the event on the park's physical environment. Food booths are located only on the Interior Park Road, large carnival rides are placed on Deering Avenue which is closed for the duration of the Festival, and there are no tents placed within the major tree groves of the park. However, the impact of so large an event is severely felt on the park, as much from the numbers of people moving across the site as from the structures placed within it.

Philosophically, there needs to be a distinction in evaluating the use of Deering Oaks for public and private events. The Family Festival is a publicly sponsored event and a public service. It is also an event which animates the park, invites use by many who would otherwise not use Deering Oaks, and represents an important part of the Maine recreational culture which enjoys outdoor activities during the relatively short warm months of the year. Deering Oaks, as Portland's major park, is an appropriate place in which to host such large public gatherings.

However, an event of such large proportions, occurring over so extended a time, does considerable damage to the park's environment. The clay soils of Deering Oaks are heavy and more prone to compaction than sandy soils. Tree

roots in heavy clay soils are usually in the top zone of the soil, from 0"-9" inches in depth, and easily susceptible to damage.

From a horticultural point of view, turf should be tough enough to withstand the type of use represented by the Festival and to provide adequate protection for trees, if it is in a healthy condition and given regular maintenance, particularly adequate repair after such an event including aeration, overseeding, fertilizing of turf and trees, and tree fertilizing and pruning. The funds received from the Festival are inadequate to pay for the necessary mitigation of the damage to the park.

The city, however, bears the major responsibility for the deteriorated condition of the park, and needs to take its fair share of the responsibility for horticultural restoration and maintenance. This responsibility includes policies that have allowed events such as the Family Festival to occur without adequate guidelines to control use, require follow-up mitigation measures and direct funds to park maintenance. The city must enforce guidelines that speak for the ecological voice of the park as well as the recreational voice. Adequate funding that is dedicated for park maintenance is necessary if the Festival is to continue.

There also needs to be a decision about the type of festival that Portland wants, whether it be focused on food, arts and crafts and children's performances, or include carnival rides which introduce a very different atmosphere.

Farmers Market and Christmas Tree Sales

There are two regularly scheduled park uses by private enterprises, the Farmers Market and Christmas tree sales. Philosophically, use of a public space for private gain has less legitimacy than use for a public event. Such use should be accommodated only at the pleasure of the city, if it enhances the park experience by the public and does not negatively impact either the park environment or public use.

Farmers Markets have become very popular nationally in recent years. The Portland Farmers Market is one of the oldest such markets and it is recognized as the "most beautiful" in Maine. The Saturday Farmers Market in Deering Oaks very much enriches the park experience and landscape, and has become a well-loved fixture in the park. The Market attracts a large and very diverse patron base, attracts park use, offers the positive experience of connecting the city dweller with the food producer, and brings neighbors together to meet casually while shopping. City residents and others highly value this unique park use, and the city will continue to sponsor the Farmers Market in Deering Oaks.

In recent years, the popularity of the Market has led to expansion of the number of vendors. At the height of the season, there can be 20 trucks along the Interior Park Road, 10 on either side. Trucks are parking off the paved surface onto the turf areas, and contributing to damage of the turf and nearby trees through soil compaction. There is no fee for this use of the park, beyond a fee to the clerk's office for a vendor's license. Some Saturdays see a great amount of traffic congestion of the park roads by visitors to the market.

In accommodating the Farmers Market, the city must continue to emphasize the priority of respecting the physical needs of the park, and all vehicles must be located on paved surfaces. The city will establish a working relationship with Farmers Market representatives to address the operational needs of the Market and any problems which may arise from time to time.

Christmas tree sales are also a popular and positive experience in Deering Oaks. With the exception of Christmas tree sales at the Castle, tree vendors set up large operations on turf areas in the park, including trailers and the storage of significant numbers of trees. Of all activities in Deering Oaks, this one occurs over the longest time frame and takes place at a time when the turf is in a dormant state and unable to repair itself. The damage done to the park environment is inadequately addressed by the nominal fees of \$25 per week, a \$50 security deposit and a \$50 processing fee. Christmas tree sales are an important use of the park, but should be limited to paved areas in order to avoid damage to the park's environment.

Use Recommendations and Guidelines

A. Support for Passive Recreational Use:

1. Add more benches in selected locations.
2. Add several picnic tables in selected locations.

B. Support for Active Recreational Use:

1. Refurbish tennis courts that need repair.
2. Reconstruct the existing basketball court, and convert one tennis court to a basketball court.
3. Remove all horseshoe pits, relocating ten pits north of the tennis courts.
4. Develop two volleyball courts at the current site of the horseshoe pits.

It would be appropriate to have lights for nighttime use of the athletic courts as long as the poles were of a modest height, no taller than twenty-five feet.

5. Encourage currently popular uses of the bowling green, i.e. croquet, bocce. Consider providing equipment for a fee. Leave the bowling green open to be available for unstructured uses.
6. Improve the condition of the pond ice for winter skating. Remove the cobra-head light fixtures around the pond, and replace with pedestrian-scale lights to provide a adequate but not intensive level of light for nighttime use.
7. Increase park programming by the city to encourage use. Work with park rangers in developing and overseeing programs.

C. Visitor Information and Education:

1. Develop a visitor information center and possible ranger station in the Castle building. Such a place can serve as a gateway and information center for the city as well as the park.
2. Station park rangers in the park for regulatory functions as well as to offer information and interpretation about the history and current conditions of the park.
3. Design and implement a comprehensive signage system including identification, regulatory, informational and interpretive signs for use throughout the park. Coordinate the design within a system for all of Portland's historical open spaces. Signs should include:
 - entrance signs at the entrance to the parking lot on State Street and at the Deering Avenue vehicular entrance;
 - a site map exhibit and information bulletin board at the parking lot to orient the visitor and impart information about park activities;
 - signs in association with the Castle building;
 - regulatory signs at selected locations throughout the park;
 - one or two interpretive signs to tell the story of the park's history, particularly one by the ravine at the pond.

D. Access, Circulation and Parking Changes to Support Use:

The following recommendations for changes to the circulation system are the result of a great deal of work and collaboration between the consultants, the Project Committee, the City Planning, Parks and Public Works and Recreation staff and the public through the vehicles of public forums and questionnaires. Recommendations are listed as discreet elements, but it is essential to recognize that they are parts of a unified whole, without any of which the overall plan for circulation will not work. They seek to enhance the safety and character of the park, while providing reasonable access to park areas and convenient parking. The City Council has agreed to a one-year experiment of the circulation proposals before final implementation.

1. Close to visitor vehicular traffic Bowling Green Road and the connector between Bowling Green Road and the Interior Park Road. Narrow these roads for use by pedestrians, bicyclists, roller bladers, service and emergency vehicles, etc.
2. Narrow Tennis Court Road and change it to one-way from Deering Avenue east to provide reasonable access while limiting cut-through driving and reducing vehicular/pedestrian conflicts.

Permitting limited vehicular access allows people to view the park casually, increase eyes on the park, and make the park accessible to all. Reducing the width of this road to twelve feet will prevent parallel parking along the road and facilitate pedestrian crossing. One-way, single lane traffic will also be easier for children to see and anticipate. Short-cut driving through the park will be dramatically reduced, because the great majority of cut-through driving travels from east to west along this corridor.

3. Eliminate the vehicular entrance at the Castle building, and convert it to a pedestrian entrance. Develop a pedestrian plaza to serve customers, connect the Castle and the pond, and make the area safer with elimination of traffic. Develop a new vehicular entrance off State Street to the proposed parking lot. Realign Tennis Court Road to pass behind Castle building to connect to new entrance road and parking lot.

This is a very important aspect of the circulation proposals. It will have a major, positive effect on the character and use of the area in front of the Castle, changing this dangerous environment where fast-moving cars conflict with pedestrians to a safe and inviting gathering space. Pedestrian plazas are proposed for both the front and rear of the building, to invite customers from the parking lot as well as from the park interior and rose circle area. Low stone walls are proposed around both plazas to retain, define and increase safety adjacent to roads.

The proposal to develop a road behind the Castle is critical to the success of the circulation proposals. It allows motorists to access the parking lot from Tennis Court Road. Wide, well-defined crosswalks will be placed along the road as well as speed humps and a stop sign, to slow traffic and maximize the safety of crossing the road in order to move between the ballfield and the Castle. A fence along the ballfield side of the road will direct pedestrians to crosswalks. The creation of one-way eastward-moving traffic along Tennis Court Road will significantly reduce both traffic volumes and speed.

4. Develop perimeter parking for the park: a 50-car parking lot at the site of the maintenance yard; parallel parking along Park Avenue and Deering Avenue. Make this parking available for overnight use by the neighborhood.

The parking lot will satisfy the major demand for normal park use, as well as be available for neighborhood overnight parking. A proposed management plan for the lot will include a policy for overnight parking for the neighborhood and daytime parking for park users. Stickers will be issued for overnight neighborhood resident parkers, and signs will be posted for three-hour limits for park users during the day.

Creating a parking lane along Park Avenue will necessitate widening the road up to the edge of the sidewalk, but not cutting into the park. Parallel parking along Deering Avenue is proposed to be developed by taking one travel lane from the road. A crosswalk should be developed at the northern Deering Avenue park entrance to encourage student and other crossing of the road to occur at that location, and minimize moving out between parked cars to cross to the King Middle School side of the road. A crosswalk should also be developed on Park Avenue between Mellen Street and the park entrance opposite Mellen Street.

5. Maintain two small parking nodes along Tennis Court Road (maximum six cars each) for short-term drop-off and handicap parking.

It is important that there be reasonable provision inside the park for the elderly and handicapped park visitor, as well as for those who need to drop off passengers or equipment, such as sports coaches.

6. Continue to gate the Interior Park Road, to be opened periodically for special events and for snow emergency parking. Develop alternative sites in the vicinity for additional snow emergency parking.
7. Narrow State Street to two lanes, widening to three lanes at the intersection with Park Avenue, in order to connect the rose circle with the main park section, add more green space to the park, make walking along State Street safer and more pleasant, and lessen intrusion by the vehicle into the park

environment. Develop a crosswalk across the street at the park entrance by the castle.

The long-term goal is for the section of State Street that runs through the park to be eliminated. This is not possible in the near term, because of the road's importance in the regional transportation network. However, it is the vision of the master plan that, when regional transportation issues that affect traffic moving through this area of the city are resolved, the two main sections of Deering Oaks be connected.

8. Close State Street on Sundays.

9. Maintain High Street as a two-lane road, converting the third break-down lane to green space for the rose circle area of the park.

All roadways within the park, those accessible to vehicles and those to be narrowed, are proposed to have the original cobble drainage swales restored. Swales would be two feet wide on either side of the bituminous.

10. Improve the open space connections within this larger neighborhood.

Deering Oaks sits in a neighborhood with an enormous amount of recreational resources. To the west lie Fitzpatrick Stadium, the Portland Ice Arena, the Expo Building and Hadlock Field. The park also forms the potential link between these complexes and Baxter Boulevard to the northeast.

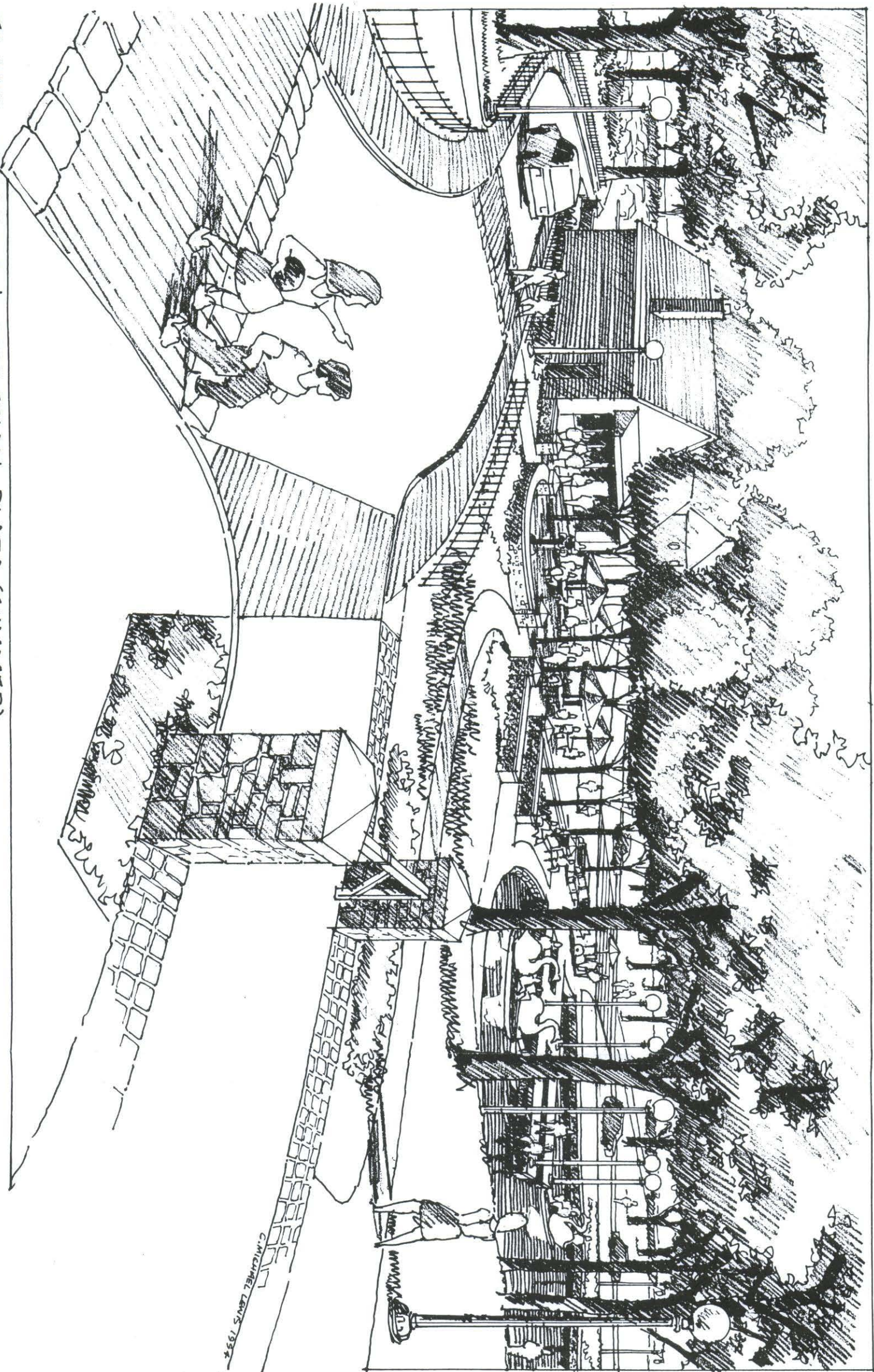
There have been attempts historically to strengthen the open-space linkages throughout the city. Now, as more facilities are developed, the Portland Trails plan is being put forward, and an environment exists that is favorable to alternative modes of transportation, every effort should be made to maximize the open spaces of the city as a system and to create circulation links between them.

E. Use of the Park for Special Events And Vendors:

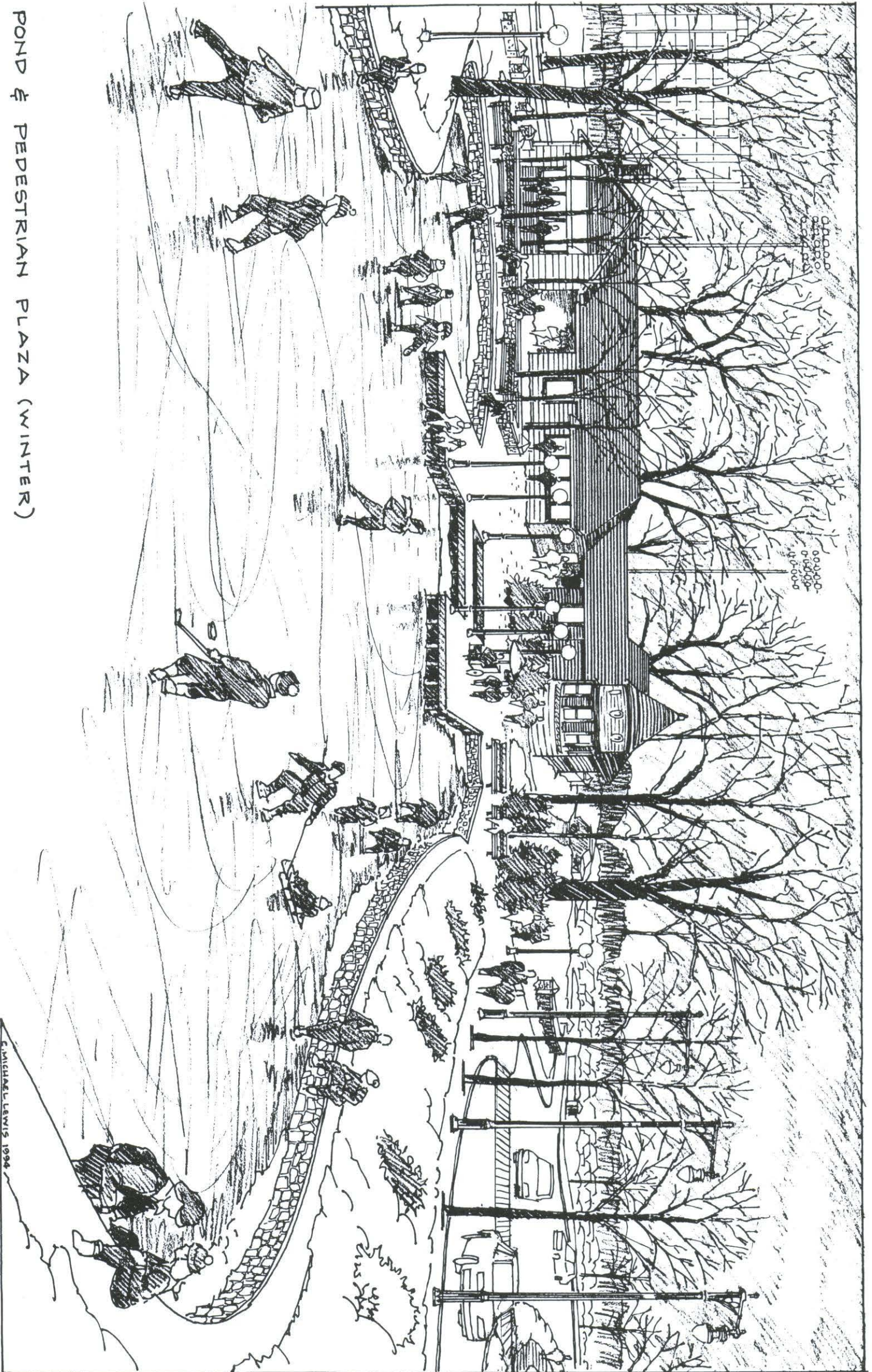
1. Implement proposed management guidelines for special events and particularly for the Family Festival to allow a limited number and duration of events while protecting the physical environment and mitigating the negative impacts of such use. See Appendices 4 and 5 for guidelines.
2. Develop a winter festival that encourages year-round use of the park and focuses on the pond as a recreational amenity.
3. Restrict vendor use of the park (i.e.. Christmas tree vendors, Farmers Market vendors) to hard surface areas only. Accommodate the accessibility

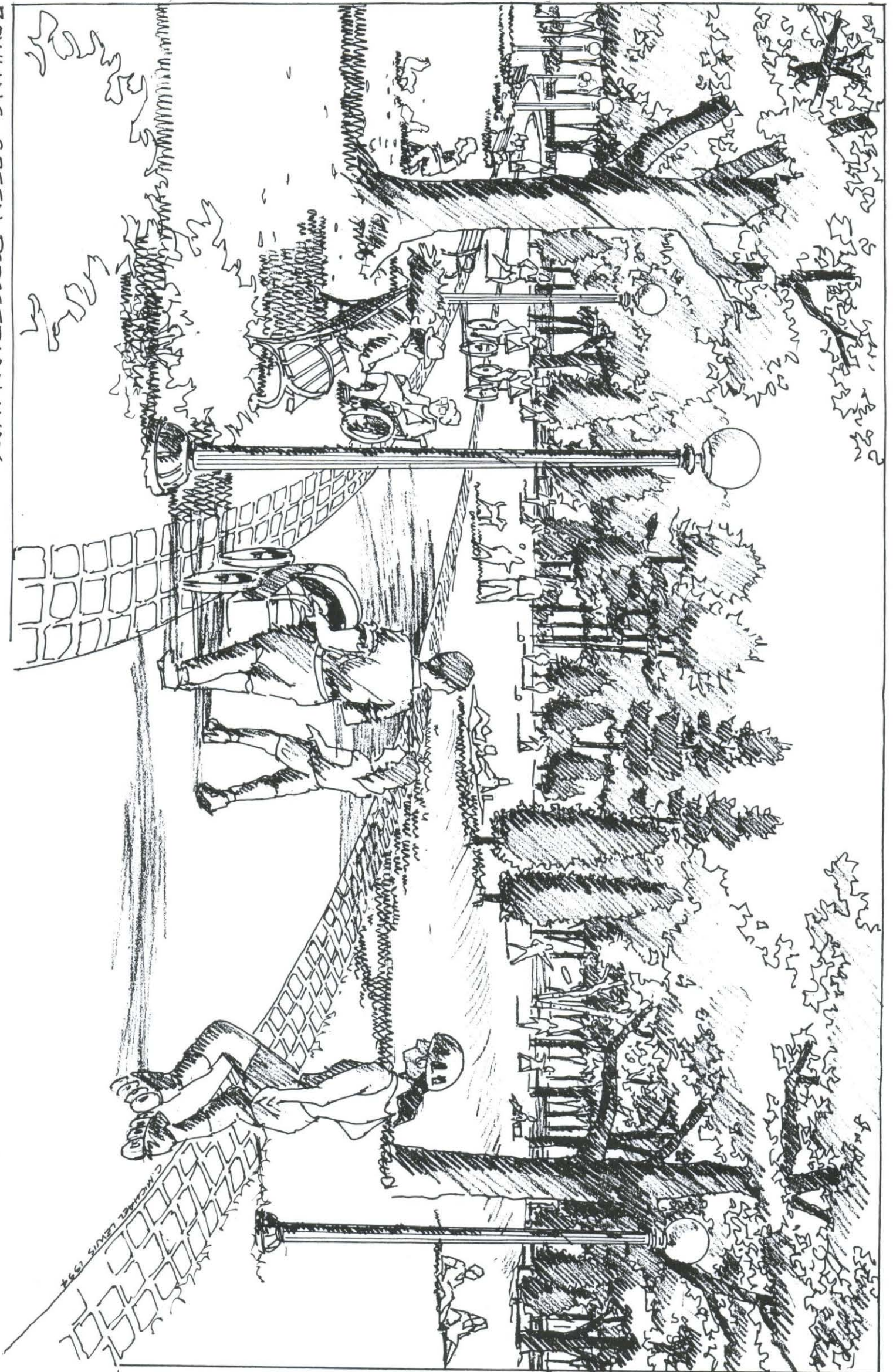
needs of the Farmers Market for the 1994 season while protecting the ecology of the park, by opening the road from the northern Deering Avenue entrance one-way to the Deering Avenue exit near Park Avenue.

TENNIS COURT ROAD & PEDESTRIAN PLAZA (SUMMER)



POND & PEDESTRIAN PLAZA (WINTER)





3. Landscape Character and Historic Design Intent

The analysis of landscape character builds on the original intent of the park's design and the guiding principles for the master plan in evaluating the current conditions of the park.

As stated in the master plan's guiding principles, the "primary founding and enduring purpose of Deering Oaks is to provide a pastoral refuge from the stresses of urban life, a place that is 'necessary for the comfort and enjoyment of our citizens' " (1893 Address of Mayor Baxter). The park was designed in the naturalistic style popular in the nineteenth century, responding to the site's landforms and features, and was intended to provide a contrast to the geometric urban grid by using a curvilinear design for the circulation system, an irregular pond edge of bays and headlands, and edge planting to screen the city from the park. A formal element of the park's design—the alignment of Marginal Way punctuated by a circle and fountain marking the entrance into the park from the north—was never constructed.

A number of park elements and spatial relationships have been identified in the guiding principles as character-defining elements of Deering Oaks:

- Vegetation, particularly the mature oaks but also other understory and entrance plantings that have been lost over time;

- The pond, a central organizing and focal feature;

- The separation between the active and passive park areas;

- The relationship of open spaces and wooded areas;

- The relationship of the park itself to the surrounding city;

- The curvilinear circulation design;

- The formal and arboretum-like character of the rose garden area, as contrast to the main park section.

Park Edges and Entrances

Originally, the main entrances into the park were at Deering Avenue (the northern entrance with the stone gates) and Forest Avenue (through gates that no longer exist, and across what is now the rose circle lot). These connected to the main thoroughfare through the park, the northern road now termed Tennis Court Road.

Deering Avenue was once a major trolley line. A boulevard was intended to connect Deering Oaks from Deering Avenue to the Western Promenade. This was not implemented, and a changing context over time has made the main Deering Avenue entrance less important than it was originally. Today, the monumental gateway into the park is confusing and appears overbuilt. The parkland inside of this entrance lacks a sense of arrival and clear destination.

The companion northeast entrance into the park from Forest Avenue was eliminated when Forest Avenue was re-aligned from its original right-angle turn into Deering Oaks to the current intersection with Marginal Way and State Street. At present, entrance into Deering Oaks from the northeast is experienced as a maze of busy roads, traffic signals and signs. The Parks and Public Works maintenance yard is inappropriately located at the park entrance and greets the park visitor with a cluttered and intrusive materials storage area. The area in front of the Castle building, perceived as the secondary park entrance from the northeast, is dominated by asphalt and fast-moving traffic that cuts the building off from the pond and creates an unfriendly pedestrian environment.

None of the park entrances is marked by ornamental treatment to announce entry into a special place. Historic documentation shows that this was done in the early years of the park. The Deering Avenue gates are the best example of formal announcement of entry into the park, but here too there is little supportive planting to match the scale of the gates. The entry into the park at the Castle is marked by a series of signs referring to the Castle in the Park, including an unattractive highway-type fluorescent sign.

The dominating presence of the automobile in Deering Oaks is exacerbated by the lack of separation from the surrounding streets. Where there were once estates and farmland, there are now multi-family dwellings and busy thoroughfares, including the very-intrusive Interstate 295 to the north. Because of the elevation of the road above the park, an evergreen planting along the park's northern edge is insufficient to screen the highway. Lack of any formal edge created by plantings or fencing has permitted views and noise of the surrounding city to invade the park. This has had a very detrimental effect on the ability of Deering Oaks to function as an oasis and relief from the stresses of urban life.

Visual Zones

There are a number of distinct visual zones in Deering Oaks:

Rose Garden: visually rich micro-environment, with impressive display of roses. Area has an arboretum character, reflective of the pastoral English parkland landscape of trees over lawn. Space is separated and isolated from rest of park.

Pond: The primary focal element of the park. An inviting space, animated by the central fountain. The presence of two focal elements in the pond—the fountain and the duckhouse—is visually competitive, and lessens the impact of each.

The pond edges follow the pre-park landform. The layout of headlands and bays gives the illusion of greater size of the pond. The proximity of the pond to the road, however, undermines its integrity as a pastoral destination point.

Goodwin proposed natural, soft edges as appropriate to the naturalistic park design. However, the retaining wall built around the easterly side of the pond was continued over time along the north and south sides of the pond, in response to increased use and erosion. Today, the pond edge consists of a combination of formal walled edging, stacked granite block edging, slope curbing, small boulders, and lawn. The mix of edge treatments needs to look as if it has been deliberately done. The concrete ramp at the south pond edge, constructed to access the pond by maintenance vehicles, is overbuilt and out of character with the landscape.

The upper pond, the ravine, has been lost, and now appears as a dry ditch with remains of a concrete dam that once allowed water to pond in the ravine. A planting plan for this area dated 1935 shows an elaborate ornamental scheme for the area and indicates the ornamental importance of this park area. At present, the area appears abandoned and its function confusing.

Two bridges cross the pond at its westerly edge, a small wooden bridge and a larger concrete bridge. The presence of two bridges appears visually conflicting, and without water in this area both bridges seem to lack a purpose.

Oak Grove. The grove of oaks in Deering Oaks is a majestic legacy of the site's history, some of which are 200 years old. They are the dominant visual element in the park, located primarily in the central section but also westward along the Deering Avenue edge and northward to the embankment above the ballfields. This beautifully extends the grandeur and maturity of the landscape to have a positive impact on the open, flat landscape of active recreation to the north.

Active Recreation Area. The northern segment of the park is a large, flat, exposed area devoted to active recreation—ballfields, courts and a playground—and separated from the rest of the park by a grade change. The northern edge is exposed to the railroad tracks and Interstate 295. A

major asset of the park, visually and functionally, is the separation of active and passive use areas.

Edge Zones. The park area along Deering Avenue is separated from the street by a grade change along part of its length. The edge along Park Avenue is very permeable, and exposed to the street. There is a concentration of ornamental trees here, which provides an element of horticultural surprise and diversity to the predominant oak tree population in the park. The eastern park edge is indistinct, with edges along the pond at State Street, along the rose garden at High Street, and along the Edwards lot at Forest Avenue. In general, this park edge is dominated by busy roads, with the northeastern space dominated by the clutter of the maintenance yard.

Bowling Green. The bowling green, once a well-used space for lawn bowling, now appears as an artificial-looking pad of grass undefined by plantings and with no apparent purpose.

Landscape Details

The loss of character in Deering Oaks has occurred incrementally, through the confused or inappropriate visual signals conveyed by site details.

Lights. Site lighting is of several types: highway-type lighting along the pond and on State and High Streets, and Colonial-type fixtures within the park. Neither is appropriate for Deering Oaks, with its period of significance in the last quarter of the nineteenth century and the early twentieth century. In particular, the cobra-head fixtures are very intrusive in the landscape and reinforce a highway rather than a parkway character for State and High Streets.

Signage. Signage is inconsistent throughout the park, and for the most part regulatory in nature. The only identification signage is for Castle in the Park, giving the first-time visitor the sense that this is the name of the park. Lack of signage creates confusion and a feeling of unwelcome at park entrances.

Site Furniture. There are very few benches in Deering Oaks, and the ones that exist are out of character with the period of significance of the park, which is turn-of-the-century. The existing wooden and concrete benches were introduced into the park in the 1930s. Trash receptacles are currently of two styles. It is not necessary that they be of an historic design, but a simple, practical receptacle of one style would be preferable. The wooden bollards controlling parking along Tennis Court Road are out of character with the park, and more in keeping with the landscapes of state or national parklands. The gates

controlling circulation on the Interior Park Road are also out of character. They were installed as a temporary trial closing of the road and need to be of a permanent, improved design reflective of and contributing to the park's character.

Path Surfacing and Alignment. All of the park's paths are surfaced with bituminous concrete, which makes them appear more as extensions of the roadway network and less as pedestrian ways. Originally laid out to conform with the topography and diverge from the road alignments, there are some park areas that have only the roadway as the defined traveling way, or have a path alignment that parallels the road. The well-traveled pedestrian route connecting the northern Deering Avenue entrance to the entrance opposite Mellen Street is in a straight alignment, not the gracious alignment originally designed into the circulation system.

Proposed changes in path alignments need to restore the original intent of the circulation system to reflect topographic variations and separate the pedestrian from the automobile as much as possible. At the same time, they cannot be so indirect that they are not followed, and worn paths or desire lines are created instead.

Architectural Elements

There are few buildings in Deering Oaks. The major one, the Castle building, has been expanded from its original size to over twice that size. The new development is not in keeping with the original structure. A major visual problem with the building is the signage covering the facade, which masks the building and is an intrusion into the park landscape.

The original park bandstand was a circular wooden gazebo-like structure, set back against the oak grove in the center area of the park. The current bandstand is larger and of a very different design than the original, and located between the Interior Park Road and the pond, within clear sight of both. It was donated to the city in 1984. The design was contracted and coordinated by the donor. The building is enjoyed by the public for special programs.

At the time, the park was not on the National Register of Historic Places, the city had not passed the Historic Preservation Ordinance, and the Historic Preservation Committee had not been created. All of these structures and safeguards would have guided the process of acceptance and design review of the building in order to ensure that its scale, character and location were in keeping with the historic character and original design intent of the park. The

quality and character of gifts to the city need to be overseen in order to have adequate control over their appropriateness for public spaces and uses.

A small structure in the park, one which is inappropriate in design for Deering Oaks, is the temporary storage locker near the softball field.

Sculpture and Monumentation

There are two pieces of sculpture in Deering Oaks. There is a Spanish War Veterans monument in the rose circle area, and a granite shaft in the Edwards lot with a bronze memorial plaque in honor of the site's namesake, World War I Major General Clarence R. Edwards. There are also nine memorial trees or groves in the main park section with plaques identifying the individual or group to whom the tree is dedicated. At one time there was a small-scale model of city hall mounted on top of a column from the old city hall, which was removed from the park at some point in its history.

Deering Oaks began as a reservation with a simple naturalistic design. As tastes changed, the landscape became more embellished. However, formal spaces appropriate for sculpture were never built into the park's structure. The rose circle is an area that would be appropriate for temporary installations of sculpture, if they were carefully reviewed for design, scale and location within that park area. The only place that could accommodate a permanent installation of sculpture would be at the proposed pedestrian plaza in front of the Castle building, where a sculptural piece at the western edge of the plaza could serve as a focal element that also helps to define and separate the area from nearby park traffic.

Landscape Character and Historic Design Intent Recommendations and Guidelines

A. Park Edges and Entrances:

1. Embellish all park entrances with plantings of trees, shrubs and groundcovers to announce the park and welcome the visitor.

A combination of plant materials used in composition will strengthen the park's entrances and mark more clearly the passage from the city into the park. Underplanting trees with shrubs and groundcovers will also create a community of plants which will be easier to maintain and better able to withstand the rigors of life in a urban environment by lessening the possibility of compaction and helping to retain soil moisture.

2. Introduce plantings of trees, shrubs and groundcovers along the park perimeter with breaks to allow periodic views in, and with variable heights

of vegetation to allow views over, in order to enhance the park landscape and to screen the city from the park.

A ratio of 2/3 closed, or planted edge to 1/3 open, or unplanted edge should be developed in implementing edge planting of the park that will achieve the goals of better separating the park from the city while offering views into the park from without and ensuring the safety of park visitors.

3. Investigate the potential to screen Interstate 295 from the park with planting along the highway right-of-way.
4. Establish entrance gates on State Street south of the railroad tracks, at the perceived entrance into the park.

Entrance gates on the north end of State Street will be a dramatic announcement of entry into this special place, such as the existing gates were when there was two-way circulation on this road. They will also serve to announce entry into the city itself from I-295, in a place where there is currently a maze of busy roads and a yard of stored maintenance materials.

4. Design small-scale entrance gateways for narrowed park entrances.

Pedestrian entrances at the east and west ends of Bowling Green Road and at the Castle need some architectural definition to give them character and to prevent vehicular access. Design for these entrance gateways should reflect the character of nearby vehicular gateways. The Deering Avenue park edge has a more rustic and woodsy character, expressed by the Deering Avenue entrance gates and the proximity of the major oak grove. The State Street edge is more urban and formal architecturally, expressed by the State Street gates and the proximity of the rose circle area.

B. Landscape Details:

1. Introduce a family of details for the park that are coordinated and reflect and reinforce the period of significance of the park, which is turn-of-the-century. (Illustrations of proposed details follow.)
 - **Lights:** Replace the existing Colonial-style pedestrian lights with lights of a design consistent with the period of significance of the park, and similar in design to the lights that were historically on the concrete bridge. Restore the lights on the concrete bridge. Replace the cobra-head fixtures on State and High Streets with lights of a design consistent with the period of significance of the park. Use pedestrian-type rather than roadway-type lights by the pond.

- Signs: Design a coordinated sign system for the historic open spaces of the city, and apply the design to a system for Deering Oaks.
 - Benches: Replace the wooden and concrete park benches with wooden and metal benches of a design consistent with the period of significance of the park. Phase in the new benches, placing them in the high visibility areas of the pond and pedestrian plaza first, the Bowling Green road next, and the playground last.
 - Access Control Gates: Replace existing gates with gates that are similar in design to the Deering Avenue entrance gates, stone pillars with double metal swing gates.
 - Trash Receptacles: Use one design for the park trash receptacles, the simple barrel design used in the city. Make the park barrels distinctive by painting them dark green and adding a logo coordinated with the sign design.
2. Restore the original lights on the State Street gates.
 3. Establish a hierarchy of path surfacing relative to distinct areas of visual character; level and type of use; and relationship to other areas:
 - brick paving at the pedestrian plazas by the Castle building, to extend from the rear plaza to the parking lot and the path north of Tennis Court Road, and from the main plaza east down State Street, and west along the Interior Park Road, along the north pond edge, and over the bridge to the park entrance opposite Mellen Street. These are high-use areas in need of hard surfacing, and will appear and serve as extensions of and connections to the plaza areas.
 - brick paving in the rose circle area, to reflect the more formal character of that park zone.
 - brick paving on the sidewalk north of Tennis Court Road, to accommodate with a hard surface the high level of use and times of the year when the ground is wet. A high visibility pathway.
 - brick paving on the Deering Avenue sidewalk to tie in with the city brick sidewalk on Park Avenue.
 - bituminous concrete paving on all closed and narrowed roads, to accommodate a range of alternative uses (bicycling, roller skating, etc.)
 - bituminous concrete paving on the ramp to Quinn Field, the steep path to the playground from Tennis Court Road, and the path by the baseball

field bleachers, a practical hard-surface solution to steep grades in areas that do not warrant special brick treatment.

- bituminous concrete paving on the path/maintenance access way from Tennis Court Road to the playground, a hard-surface treatment in response to the slope as well as the use of the road for maintenance vehicles. Development of a hammerhead turn-around area at the playground for maintenance vehicles.

- stone dust paving for the access path along the athletic facilities, beyond the limit of vehicle access west toward Quinn Field, where there is no need for a hard-surface pathway.

- stone dust paving along the paths south of the pond to reflect a more rustic character.

- stone dust paving on proposed new paths within the passive park area: to connect to the proposed relocated bandstand, and to pass through the oak grove connecting the Deering Avenue entrance to the brick path that crosses the bridge, where there is currently a desire line indicating the need for a defined path.

The handling of drainage on stone dust paths is a critical factor. Drainage should not be concentrated, but rather designed as sheet drainage with crowns on the paths.

C. Visual Zones:

1. Preserve the distinctiveness of the various visual zones throughout the park, in particular: the arboretum character of the rose circle with its award-winning display of roses; the majestic stand of red and white oaks; the separation of active and passive recreational areas; and the bowling green. Improve the visual definition of the bowling green with edge tree plantings.

D. Pond Landscape Treatment:

1. Increase planting around pond edge with trees, shrubs and groundcovers to enhance pond edge composition, control public use of the edge to minimize erosion, and reduce maintenance.
2. Conduct feasibility study to determine potential and costs of recreating the upper pond in the ravine. Plant along the ravine as a first phase treatment of the area.

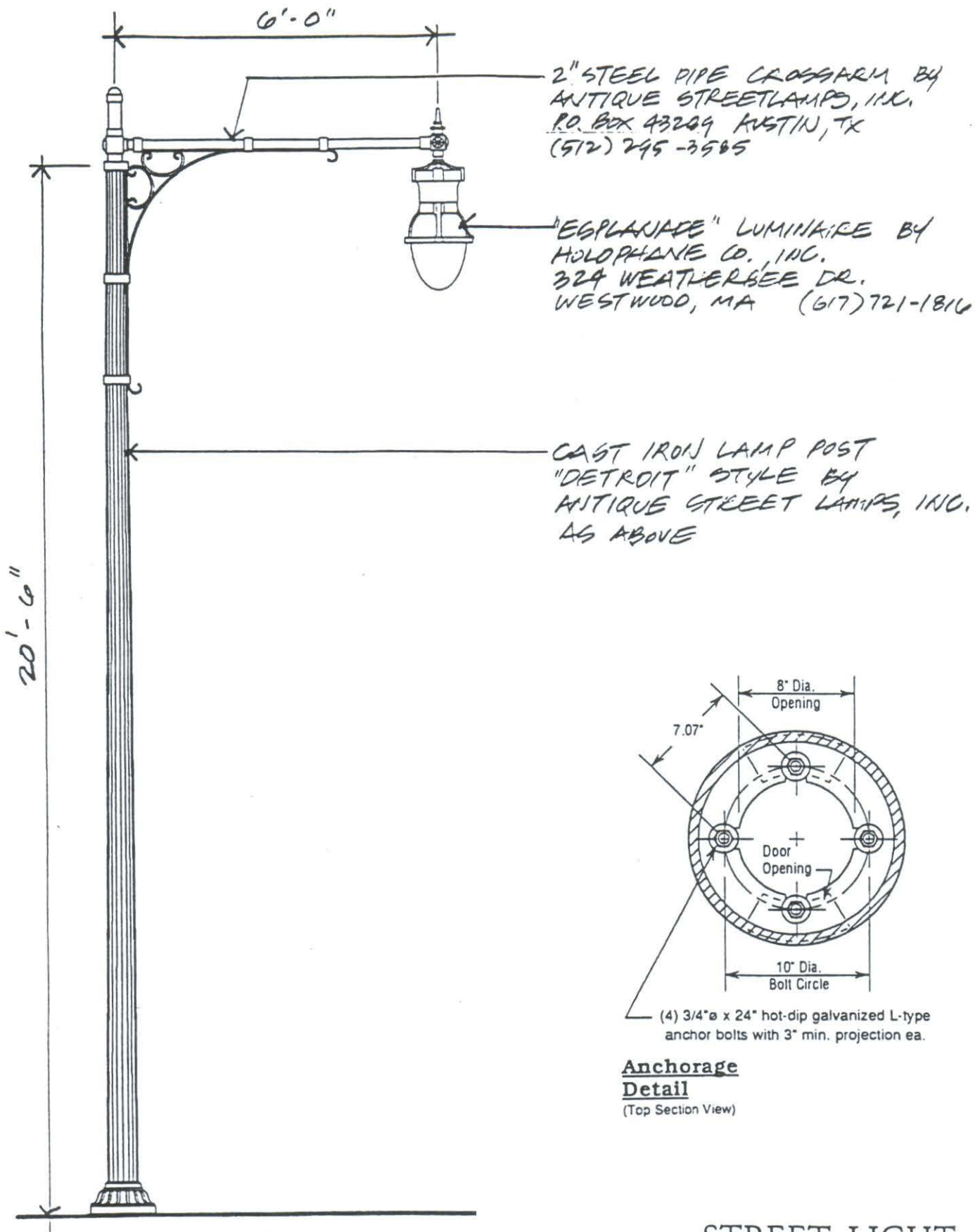
3. Eliminate the wooden bridge at the pond, maintaining the one original concrete bridge. Restore the original lights on the concrete bridge.
4. Reset, on a foundation, the granite curb edge around the pond, in order for the edge to have a consistent level. Discontinue the sloped curb edge, using only the stacked curb detail for areas not bounded by the mortared wall. Continue the edge up to the concrete bridge, reserving the ravine area for more naturalistic treatment.
5. Convert the paddle boats to be like the original swan boats.

D. Park Structures:

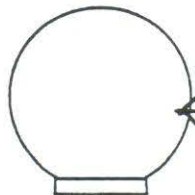
1. Scale down the ramp at the pond, redesigning the structure with cobble drainage swales on either side.
2. When major repairs to the existing bandstand are needed in the future, replace structure with a new one in the location of the original bandstand, in a design and of a scale sympathetic with the original (to be determined during design development). Consider the use of temporary staging in front of the bandstand to accommodate concerts needing more space than the building can provide.
3. Redesign the storage locker near Quinn Field more sympathetic to the character of the park.

E. Sculpture and Memorials:

1. Remove the memorial tree plaques in the park, and place those names on a plaque to be placed in the proposed visitor center. Honor all who contribute to memorial park trees in this manner.
2. Do not accept any donated sculpture or other permanent art pieces for the park. Temporary installations may be installed after review and approval by the Public Arts Committee and the Friends of the Parks Commission.
3. Design and install wire arches at the entrances to the rose circle as structures to support climbing roses, in order to make the rose display more visible from the surrounding roads.



STREET LIGHT
NOT TO SCALE

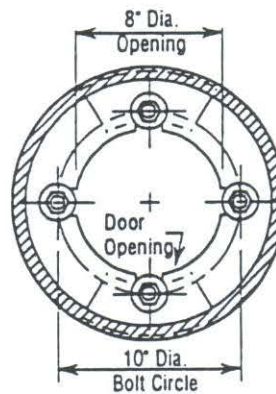


POLYCARBONATE GLOBE W/
175W METAL HALIDE LAMP



CAST IRON LAMP POST
"DETROIT" STYLE BY
ANTIQUE STREET LAMPS, INC.
P.O. BOX 43289 AUSTIN, TX
(512) 295-3585

11'-10"



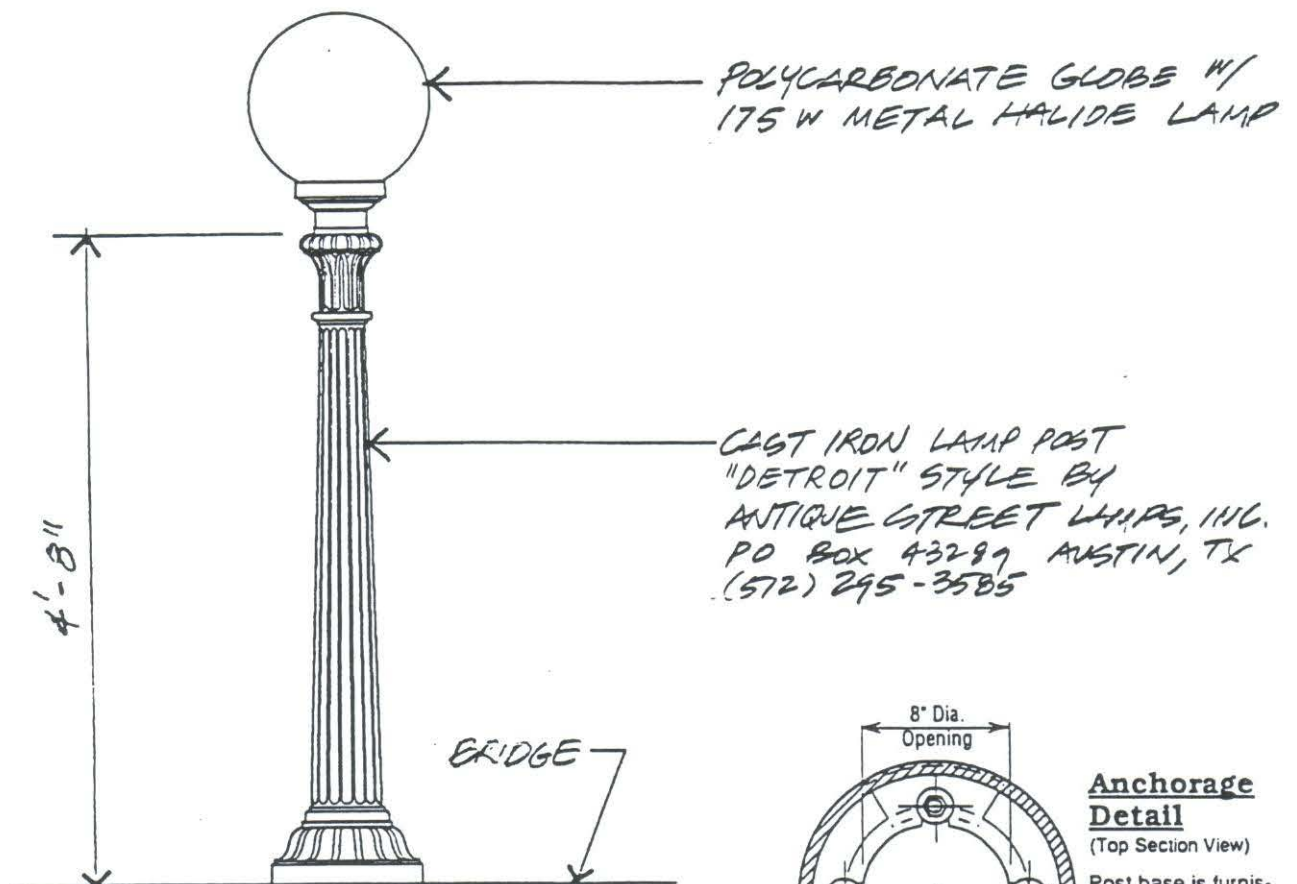
**Anchorage
Detail**

(Top Section View)

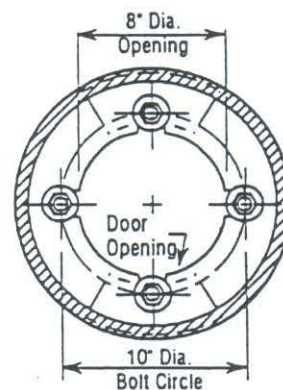
Post base is furnished with (4) 3/4" x 24" hot-dip galvanized L-type anchor bolts with 3" minimum projection each.

PEDESTRIAN PATH LIGHT
NOT TO SCALE

Catalog # D12/15-CI/PP-WS18/BK-M175/QV



Catalog # D5/15-CI/PP-WS18/BK-M175/QV

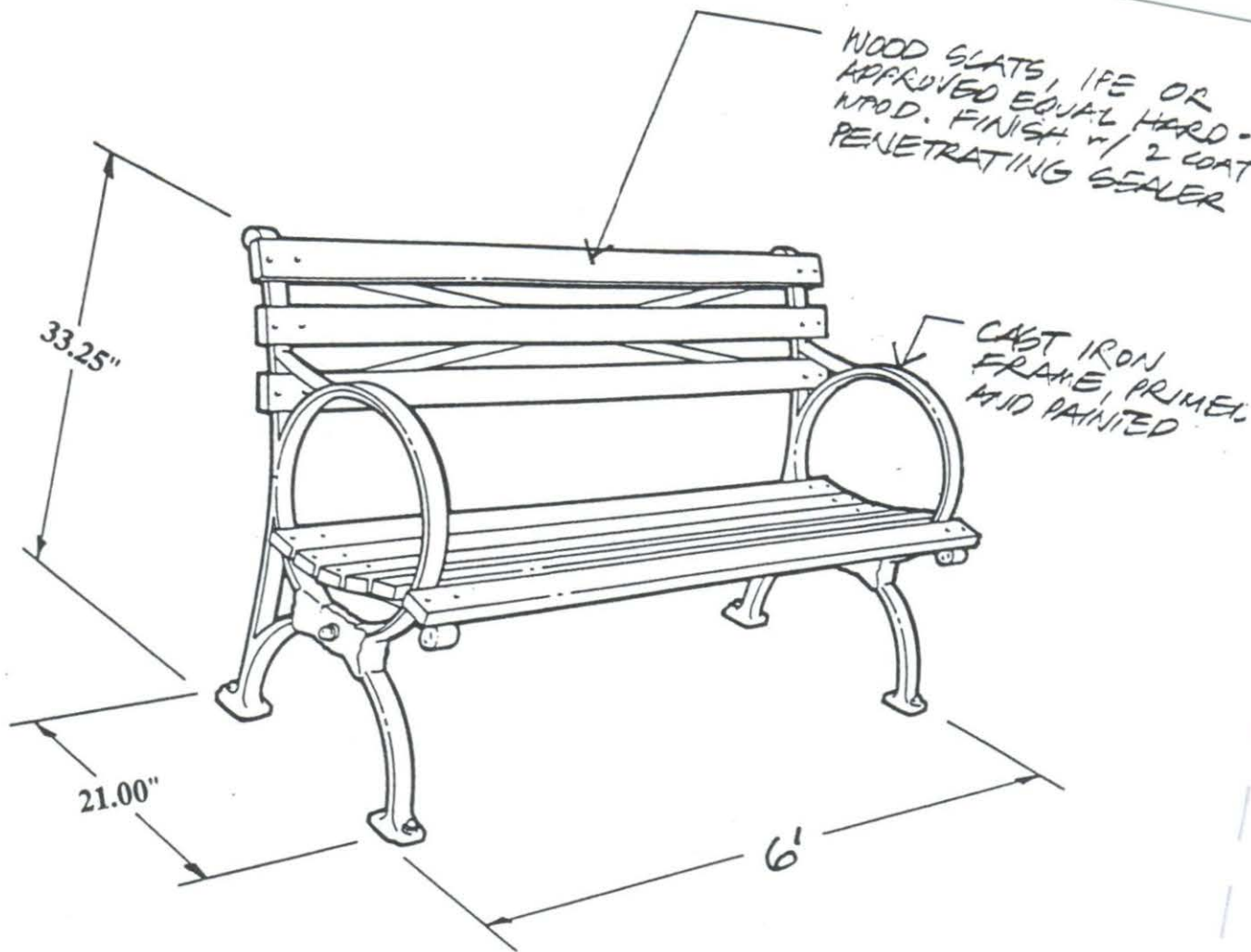


Anchorage Detail

(Top Section View)

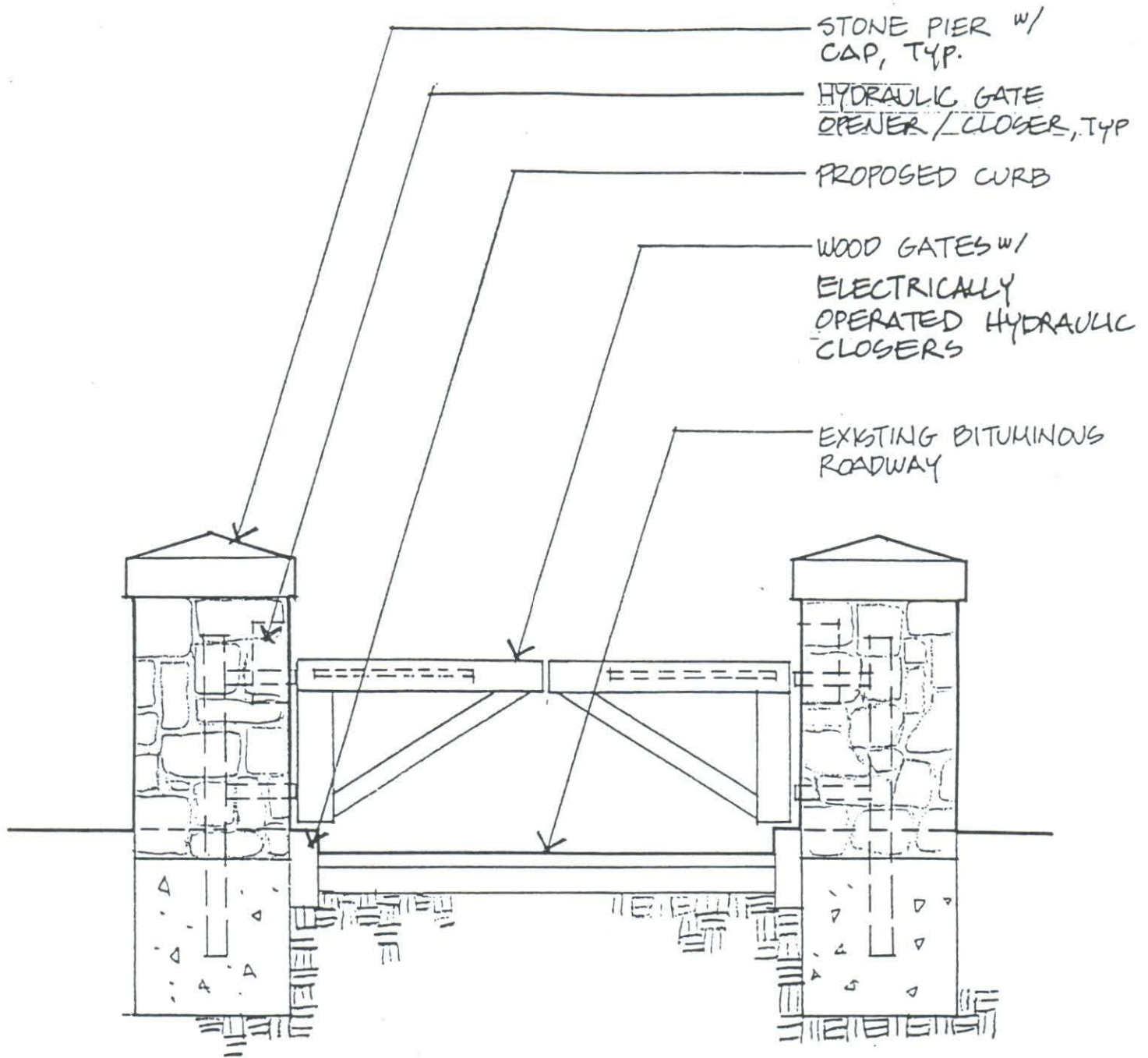
Post base is furnished with (4) 3/4" x 24" hot-dip galvanized L-type anchor bolts with 3" minimum projection each.

BRIDGE LIGHT
NOT TO SCALE



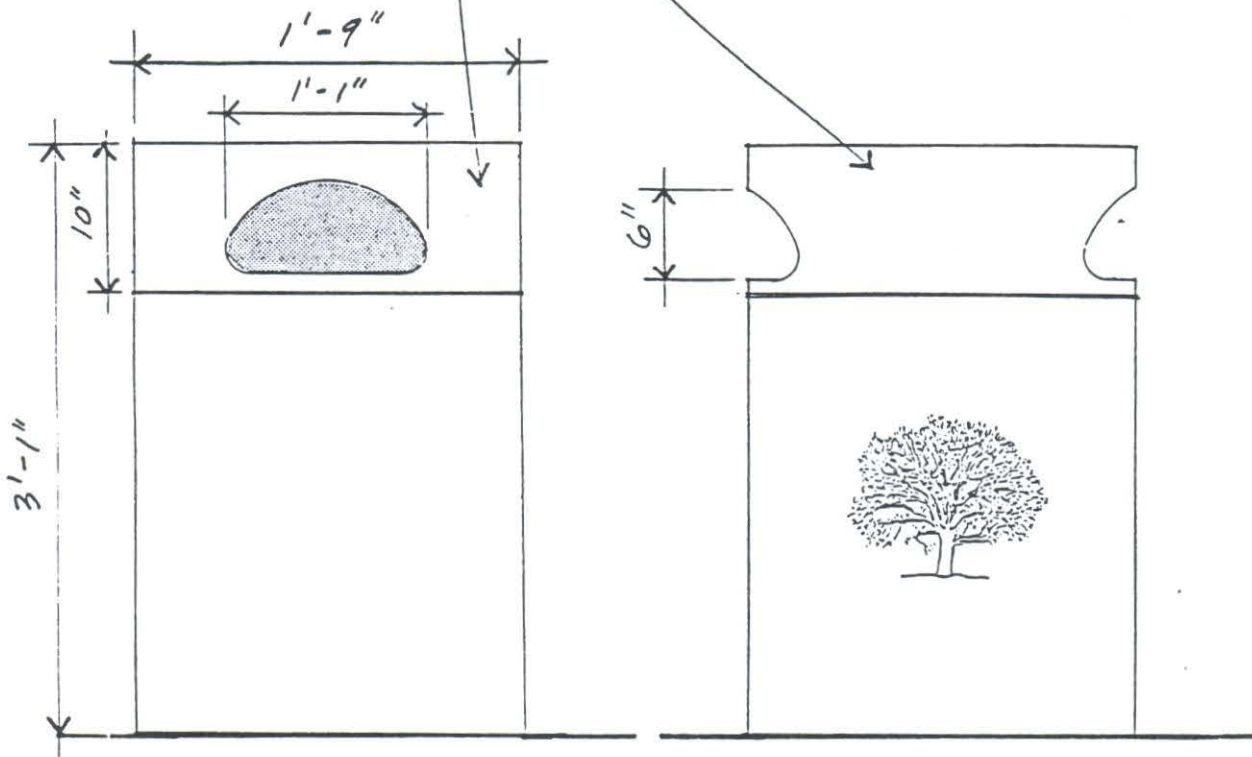
BENCH MODEL B-16 BY
BENCH MFG. CO. PO BOX 158
COLLARD, MA. 01742 (508) 371-3080

PARK BENCH
NOT TO SCALE



STONE PIERS AND WOOD GATE DETAIL
NOT TO SCALE

ROUND, PAINTED METAL
TRASH RECEPTACLE W/ PAINTED
GRAPHIC TO COORDINATE W/ PARK
SIGNAGE GRAPHICS. RECEPTACLE TO
BE REVISED CITY OF PORTLAND STANDARD

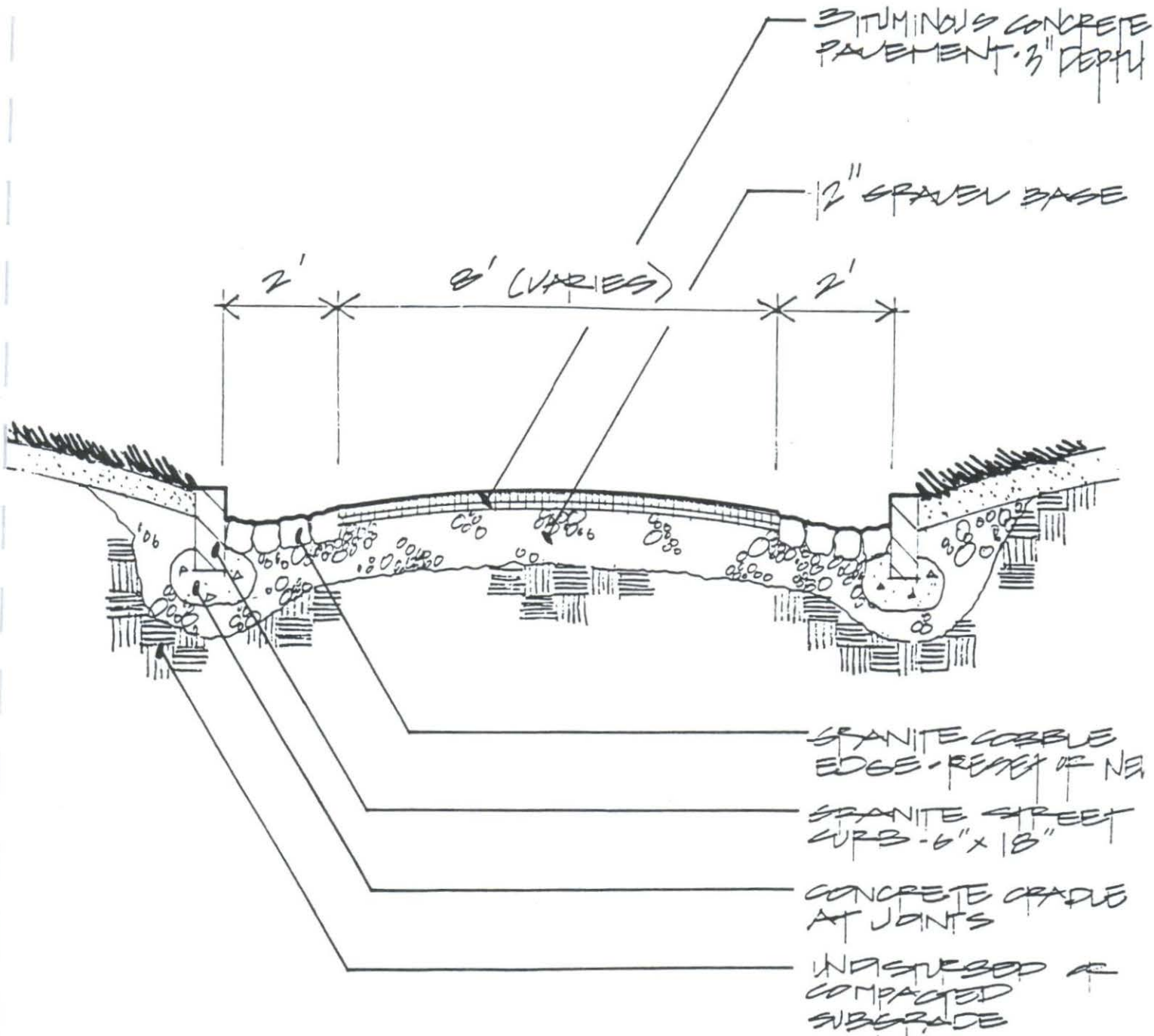


FRONT ELEVATION

SIDE ELEVATION

TRASH RECEPTACLE
NOT TO SCALE

NOTE: COBBLES
TO BE SET IN
STONE DUST.



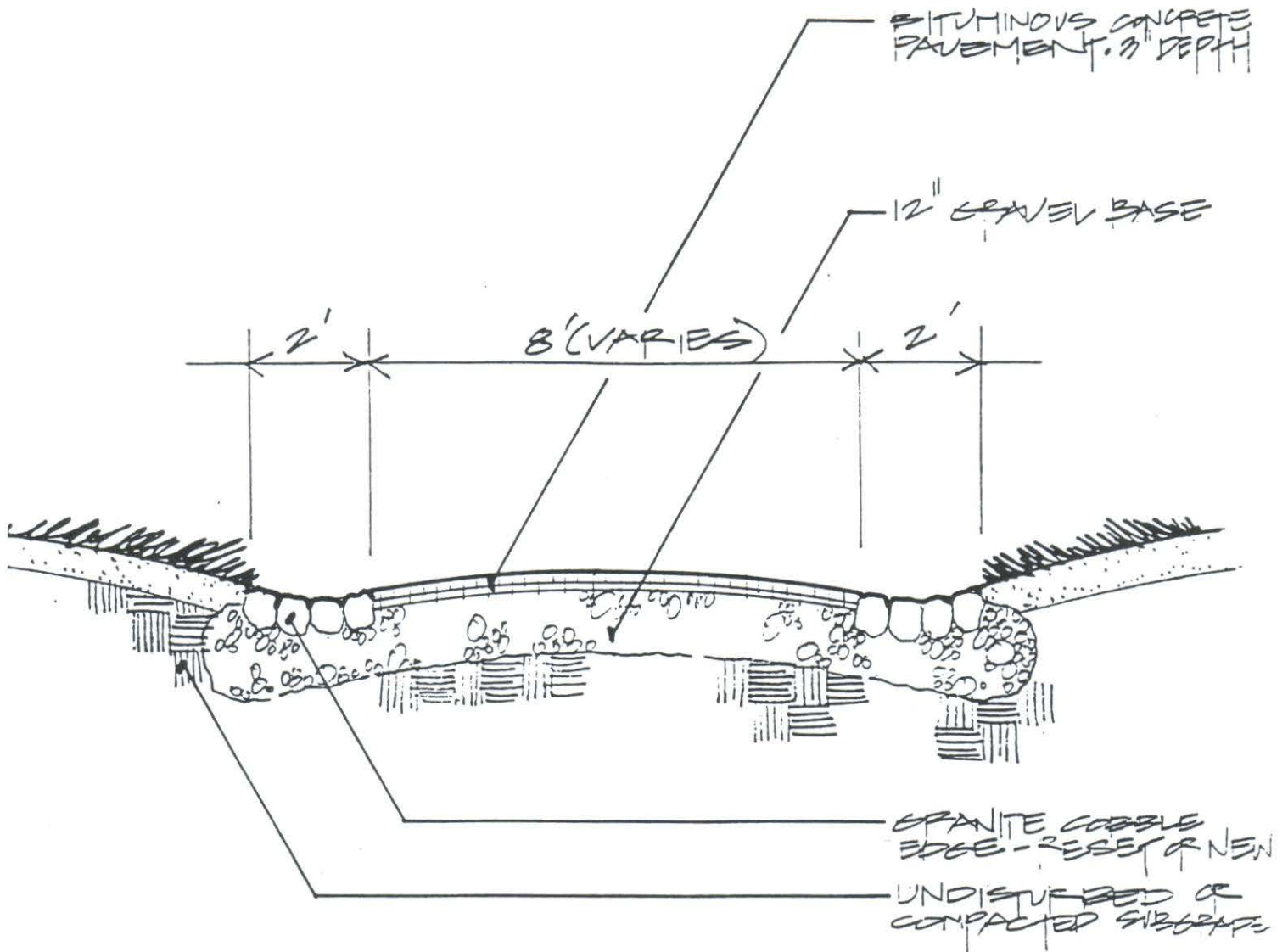
SECTION

VEHICLE ROAD DETAIL

(TENNIS COURT ROAD/INTERIOR PARK ROAD)

SCALE: 3/8" = 1'-0"

NOTE: COBBLES TO
BE SET IN GENE
DUCT.

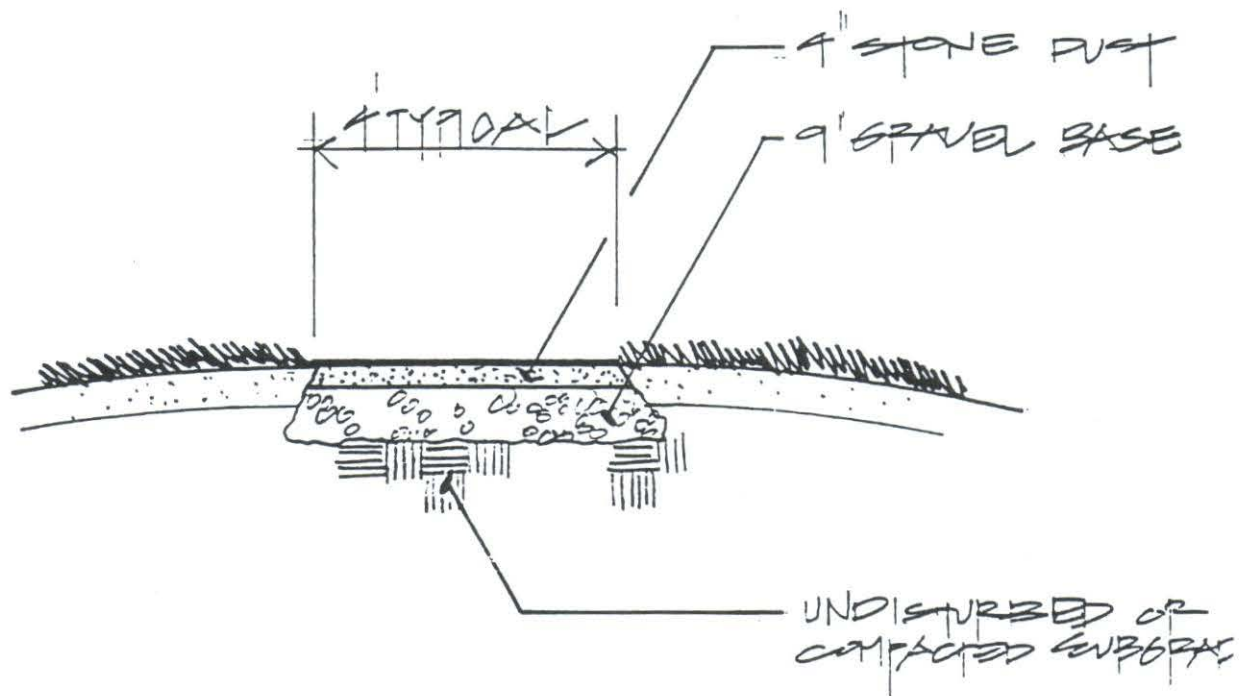


SECTION

PEDESTRIAN PATH DETAIL

(NARROWED ROADWAY)

SCALE: 3/8" = 1'-0"

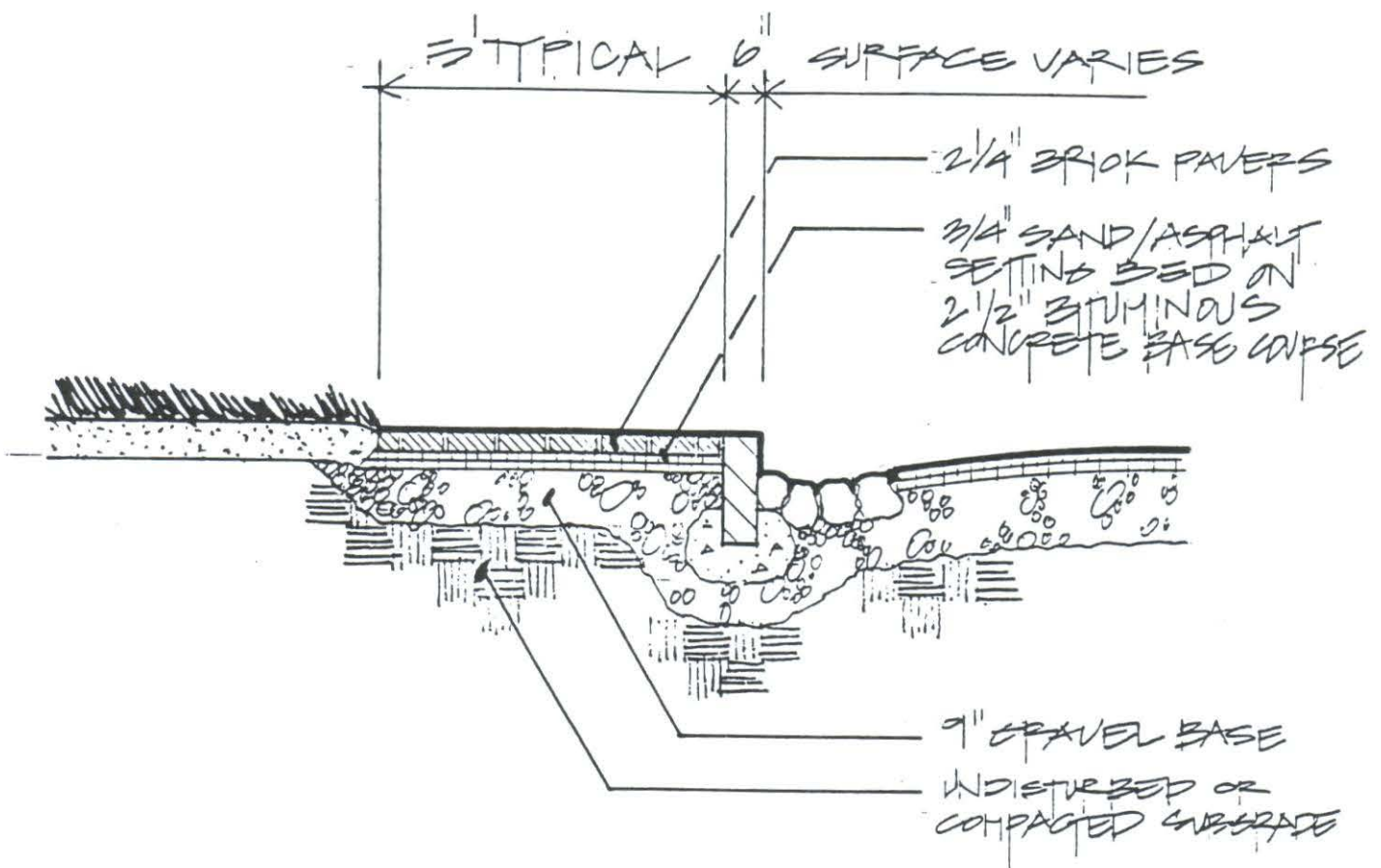


SECTION

STONE DUST PATH

SCALE: $\frac{3}{8}'' = 1'-0''$

NOTE: BRICK TO HAVE
SAND GWEPT JOINTS.

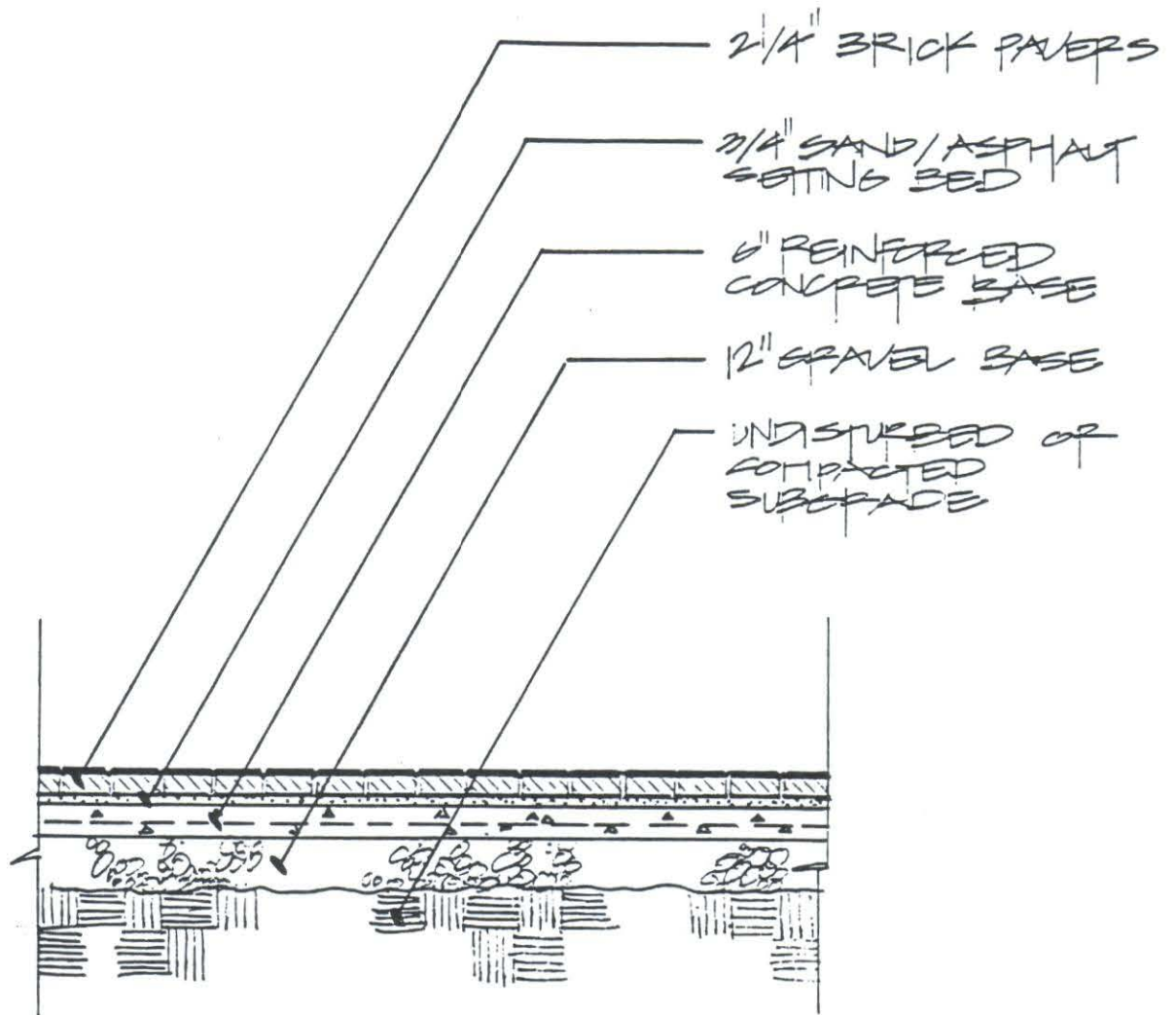


SECTION

BRICK WALK ON BITUMINOUS CONCRETE BASE

SCALE: 3/8"=1'-0"

NOTE: BRICK TO HAVE
SAND SWEEP JOINTS.

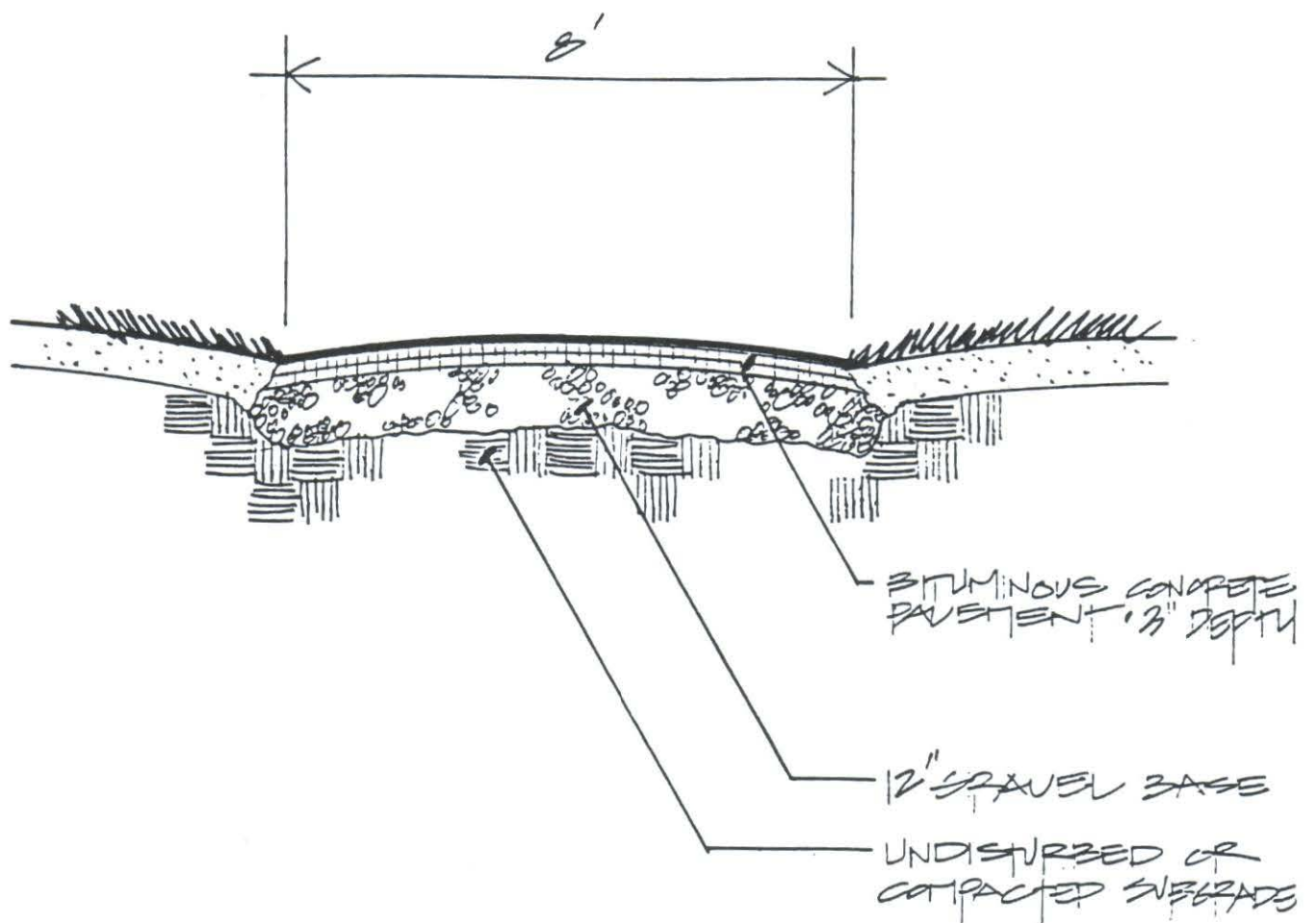


SECTION

BRICK SERVICE DRIVE

(AT CASTLE BUILDING)

SCALE: 3/8" = 1'-0"

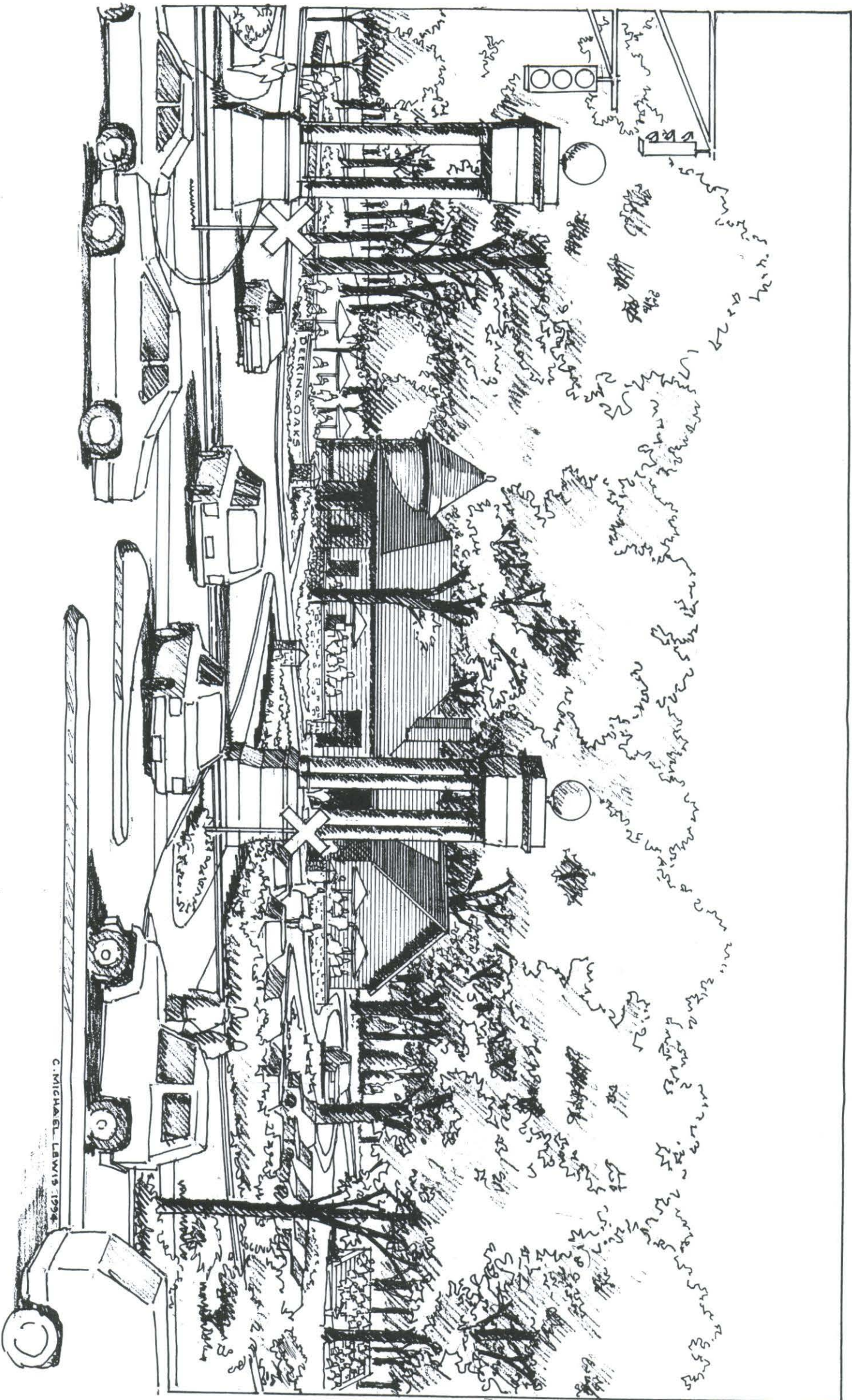


SECTION

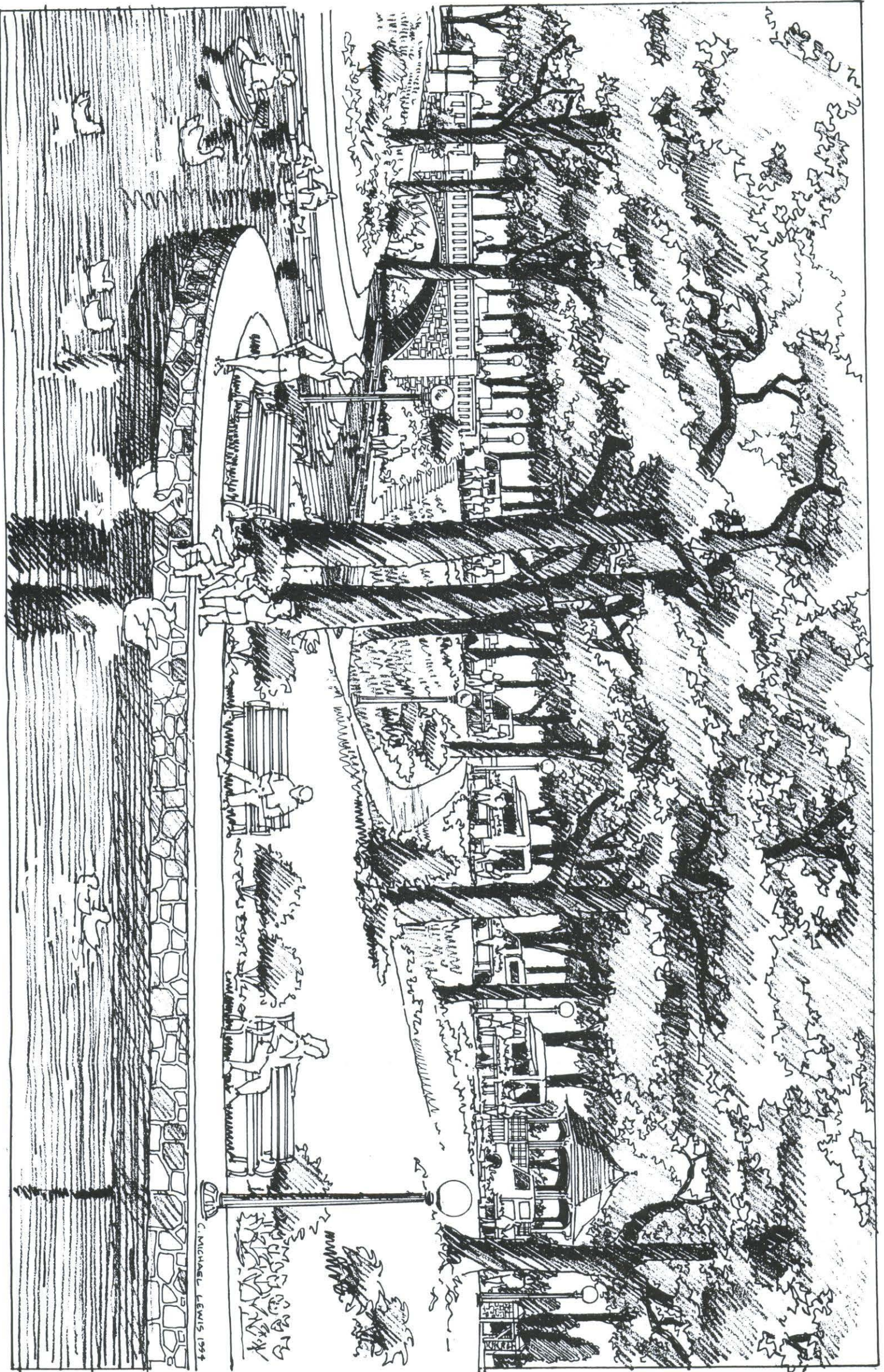
BITUMINOUS CONCRETE MAINTENANCE ACCESS WAY

SCALE: $\frac{3}{8}'' = 1'-0''$

ENTRANCE AT FOREST AVENUE AND STATE STREET



C. MICHAEL LEWIS 1994



C. MICHAEL LEWIS 1994

4. Horticulture and Ecology

An evaluation of the condition of the horticulture at Deering Oaks was made by Paul Rogers, consulting horticulturist to The Halvorson Company. This evaluation was based on interviews with city maintenance and management staff, review of budget material and other pertinent documentation, and one site visit in October, 1993. As part of his site visit, Mr. Rogers met with members of the project committee in order to report and demonstrate his findings.

Further input was provided by a group of consulting arborists who were in Portland for an urban forestry conference and were invited to the park by Mr. Jeffrey Tarling, the City of Portland Arborist.

An evaluation of the hydrology and water quality of the pond at Deering Oaks was made by Stephen Kelley, Senior Environmental Geologist at Haley & Aldrich, Geotechnical Engineers and Environmental Consultants. This evaluation was based on review of available historical material, interviews with city maintenance, management and planning staff, review of the results of chemical testing of the pond water by city staff, and one site visit in October, 1993.

Evaluation of the horticulture follows, after which is an evaluation of the park's hydrology and water quality.

Horticulture: Historical Perspective

Many references can be found in the historic documentation for Deering Oaks to on-going, proactive maintenance and capital improvements. For example, in 1902 the report of the Parks Commission cited much work done on the park's shrub and flower beds. In 1904 it was noted that the park was thoroughly cleaned, borders of walks cut, dead trees removed, lawn repaired, shrubs and trees pruned, and walks and drives repaired. Between 1910 and 1921 1000 oak trees were planted or replaced. Much of the filling that was done in the early twentieth century in the northwest and at State Street was done with donated materials and labor. In 1910 a cottage with a greenhouse was constructed on Park Avenue for a park superintendent. In 1917 \$300 worth of "fancy" evergreens were planted, 36 flower beds were planted with plants grown in the greenhouse, 168 weeping willows were planted around the pond, manure and leaf mold were spread under the oak trees, all trees and shrubs were pruned, and one bed was cited to have been planted with 300 shrubs.

This is an impressive legacy of care for the park, both by the city and by the public. It is a legacy that must be reinstituted to ensure the health and future of Deering Oaks.

Trees

There are approximately 1000 trees in Deering Oaks. The predominant species in the park is oak, white and red oak, some specimens being the 200 year-old survivors of the pre-park life of the site. Seventeenth century plans of the site show that the location of the major oak stand in the central park area has been constant for at least three centuries, a remarkable legacy for an urban park. There have been additions of other species over the years, most particularly in the southern quadrant of the main park section and in the rose circle area, developed after that property was purchased in 1906.

Ornamental species found along the Park Avenue edge were planted in the early twentieth century, an expression of the popular taste of the time for exotic or non-native species. Examples of species are catalpa and horse chestnut. There is also greater variety and ornamental character to the tree population of the rose circle area, which has been planted to display individual specimens. An appropriate species mix for Deering Oaks would be 2/3 oaks, 1/3 other species.

There are evergreens in the park, including Austrian pines, red pines, arborvitae and spruce. The evergreens are primarily located in the southern and southwestern park areas.

Deering Oaks is typical of urban woodland conditions, which are subject to the stresses of pollution, intensive park use, competition, and lack of an understory plant layer which helps to retain soil moisture, regulate soil temperature, and control compaction. In order to ensure the future of a signature oak stand for Deering Oaks, a program of replacement tree planting and maintenance is essential. New trees have been planted in recent years, but overall, the tree population is even-aged and nearing the end of its life cycle. Oaks need sunlight to grow, and without selective tree thinning to open up more light replacement oak tree plantings would have difficulty surviving amidst the mature oak stand of the park. At present, the density of trees is too high. There is a need for a thinning and planting plan to replace old dying trees and plant the next generation. Private donations have been given to the city for tree planting in Deering Oaks, and they should be encouraged in the future. The planting plan should create clear open spaces and canopied spaces in order to restore, where appropriate, the historic intent of tree masses and open lawns.

The city crew does all cabling and other maintenance work on the trees. Remedial pruning is done in the winter, and planting in the summer. For the first time, the city has developed a plan of tree location, type and size, which will provide a good basis for an upgraded maintenance and tree replacement

program that includes a regime for tree pruning and replacement as well as for turf and soil improvements that are essential for healthy tree growth.

Tree roots are normally located in the top 16" of the soil, with most being in the top 9". Soil tests in Deering Oaks have indicated that the soil profile consists primarily of heavy clay soils with less than 1" of organic matter at the surface. In this clay soil condition, all plant roots are surface roots. The positive characteristic of clay soils are that they have a good ability to hold nutrients, however they do limit the infiltration of water down through the soil horizons. They also have an unfortunate tendency to pack together, being easy to compact and therefore needing regular aeration to counteract this tendency.

It was estimated that 10% of the park's trees, or 100 trees, are in poor condition and should be removed immediately, and that 40%-50% need immediate care. This magnitude of tree removal will change the character of the park temporarily, but is necessary to address the severity of the problem and allow for an intensive replanting program.

There is a significant presence throughout the main park section of browning and die-out at the tops of trees. Many tree trunks are also hollow, rotted out from the middle with thin, highly unstable outer rings of trunk wood supporting massive tree canopies.

Many trees have also lost their central leader. Their remaining side branches have formed crotches, which are structurally extremely weak. A tree with a crotch angle of 0-19 degrees has a 100% probability of splitting. Many trees have already lost one side, with all their growth on the remaining side. This unbalanced mass distribution is another very unstable condition and needs attention.

There is ample evidence of girdled tree roots, a situation in which roots are wrapped around the tree base and are strangling one another. This condition is often due to compacted soils which prevent normal root growth. A healthy tree is buttressed at the bottom, with its trunk flaring out as it meets the ground. The trees in the rose circle, where there is less usage and soil compaction, are substantially healthier and show this buttressed condition. In the main park section, many trees can be found with little or no buttressing at the base or a flat trunk on one side, indicating girdling roots caused by soil compaction. A progression of dying limbs up the tree is a further symptom of this problem, which is leading to the irreversible decline of significant numbers of the park's trees.

The two-needle pines in the park have diplodia, a disease that has spread throughout New England over the last 10-15 years. Holes drilled by sapsuckers can be seen in the trunks of infected trees. This indicates the

presence of insects which are feeding on the infected, weakened wood and are in turn being eaten by the birds. There are infected trees throughout the park.

Grass

There is no regular grass maintenance at Deering Oaks other than mowing and trimming. There is insufficient money and crew to perform regular and necessary liming, fertilizing, aerating, topdressing or overseeding of turf areas. Remedial work is done only in response to certain specific uses, in particular the Family Festival, and insufficient funds received from use-intensive activities such as the festival mean that insufficient repair work is done. With the present budget, the city could not keep up with the mowing requirements if these maintenance techniques were instituted to improve the turf.

The quality of the turf in the park varies according to the location within the park: the sports fields, especially the baseball field, receive specialized care and have relatively little use and consequently are in the best condition; the turf in the rose garden area benefits from its isolation and relatively small use and thus is in relatively good condition; the remainder of the park and especially in the areas of high use, heavily tree-covered areas, and road edges is badly worn, in some cases barren, and in some eroded.

Because of the severe soil compaction present in the park, in some places, fescue—a type of hardy grass—is the only grass growing. Many places exhibit poor grass growth and the presence of weeds. In some places, such as under the major stand of pines along the Deering Avenue park edge, the grass is mildewed because of intense shade. Soil tests under these evergreens showed that there were less microorganisms than there should be: a result of the nutrients being taken by the grass. This is a case in which a mulch layer around all the evergreens in the stand would be more beneficial than attempting to maintain grass. Round Up is used to a limited extent around tree bases to control grass growth.

Soil Compaction

A soil probe was used to determine the amount of soil compaction in the park. A probe should be able to be pushed down through one foot of soil. Tests throughout the park showed such a severe level of compaction that in places the probe could not penetrate the soil surface at all, and in no case could it be penetrate further than three inches. This means that no oxygen and little moisture is getting into the soil, both of which are essential for plant survival. A cubic foot of good quality soil typically consists of 45% mineral matter, 5% organic matter, 25% water, and 25% air. When the air content of soil is below 18%, plant roots suffer. When it is below 9%, they die. The carbon dioxide given off by plant roots in the normal process of respiration

becomes toxic if compacted soil causes it to build up in high concentrations. This is most likely occurring in Deering Oaks.

One of the major causes of soil compaction and stress to the trees adjacent to park roads is uncontrolled parking, particularly along the southern park road, commonly referred to as Bowling Green Road. That road is used for regular overnight parking with a capacity of 100 cars, and the lack of curbing has allowed cars to move beyond the paved surface and onto turf areas. Those areas are now barren, compacted and eroded, an invitation for continued parking and further degradation of the physical environment. Testing of trees along the pond side of that road by visiting arborist Alex Shigo indicated that the trees are suffering severely from the stress of soil compaction by cars that each weigh thousands of pounds. A clear indication of the source of the stress was the fact that the sides of the trees facing the pond were in much better condition than the sides facing the road. If this situation is not alleviated, all the trees along the side of the road will be lost. There are bituminous curbs along the Tennis Court Road, and although they are scarcely high enough to do a good job of vehicular control, the trees near this curbing are in better condition than those where there are no curbs.

There are a number of concentrated, long-term uses that have a particularly heavy impact on the park's environment. The Deering Oaks Family Festival takes place during one week in July, and draws upwards of 150,000 people. There has been an attempt in recent years to minimize damage through the location of festival structures. Nevertheless, the combination of tents, carnival rides and attendees causes tremendous soil compaction throughout the park. The fees paid by the Chamber of Commerce, sponsor of the event, are insufficient to address the real damage. In addition, they are not dedicated for park maintenance, but rather go to the Recreation Division general fund.

Christmas tree sales occur at seven locations throughout the park from Thanksgiving to Christmas. Only one location, at the Castle building, is on a hard surface. Vendors set up trailers and large numbers of trees. The turf at this time of year is in a dormant state, and not able to repair itself from such heavy usage over so extended a time period. This is clearly a significant damaging use of the park.

The Farmers Market occurs on Saturdays from May to November, and vendors park their trucks along the Interior Park Road. At the height of the season, 20 trucks can be present, 10 on each side of the road. They park off the paved surface onto the turf areas and contribute to damage to the turf and nearby trees through soil compaction. It is important to the health of the park environment that this use be accommodated on paved areas only.

Athletic Fields

Deering Oaks has almost 11 acres of athletic fields. The outfield of Quinn Field is also used for football, lacrosse and field hockey. Because this intense level of use causes severe decline in the condition of the turf, it is replaced every spring. It also has an irrigation system. It appears that the ballfield crew is well equipped to maintain these facilities.

Leaves and Mulching

In the fall, leaves are blown into piles, collected with a vac unit, and removed. The result of this leaf pick-up is that, over the long term, the natural source of organic material in the soil is lost to the park. The value of this material was recognized in the early twentieth century when there are records of humus being applied throughout the park as a way to improve the soil quality.

Next to soil compaction, damage by weed wackers and other maintenance equipment poses the greatest danger to the health of the park's trees, particularly the small trees trying to get established. The city is beginning to use wood chips as mulch around the base of trees. The use of mulch helps to retain soil moisture and nutrients and reduce the danger of soil compaction near the trees. It also regulates the proximity of maintenance vehicles and equipment to tree trunks. Trees should be mulched at least 4'-5' beyond the tree trunk. Groves of trees in the park should be mulched together as a community of plants.

The city is planning to recycle its leaves this year at Portland's landfill. It is experimenting to find the proper mix of leaves and wood chips for mulch.

Wooded and Open Areas

An important determinant of visual character, one that also affects park use and should be considered in a vegetation management plan, is the relationship between areas of tree cover and open areas. The 1879 plan of Goodwin clearly shows wooded areas, partially wooded areas and open areas. The 1870 plan of Portland shows wooded and open areas in the parkland that closely align with Goodwin's proposal, and that in most respects correspond with the current condition. There have been modest changes over time, but an area that has changed most markedly is the land to the northwest of the pond, where the bandstand is currently located, and behind it, the eastern third of the central park section. This was open space in Goodwin's plan, at the edge of which he located the bandstand, with the oak grove behind it and looking out over the pond. Today this is a wooded area, most likely the result of planting that was recorded over time. The lack of understanding about the importance of open spaces as contrast to the woods, and as opportunities for a

different type of use, has caused a blurring of the edges between open and closed park areas.

Hydrology: Historical Perspective

Until the late 1800s the pond was part of a tidal estuary that was continuous with Back Cove. Since that time the estuary has been filled, and the pond is no longer tidal or connected to Back Cove. The edge of the pond was defined by a combination of dry-laid stone and mortar, and stone walls beginning in 1882. The fountain was added in 1885 and the duckhouse in 1887.

The edge of the pond in Deering Oaks has been significantly modified in two areas, at the Castle building and along the pond's southwestern edge. In the early years of the park, a tributary channel of the pond extended from behind the building under the current entry road and connecting to the main pond across the road. A small bridge brought the visitor into the park from the Forest Avenue entrance. Another inlet and bridge existed at the southern pond edge, which was later filled in and the bridge removed. The southwestern edge of the pond was also modified with another bay filled in. The western edge of the pond, where there once was a dam and an upper pond, is now a dry inlet with remains of the concrete dam structure along the edges of the ravine. It appears that the dam did not have a spillway, but rather, held back water to create an upper pool. An original wooden bridge here was replaced by a concrete and granite bridge in 1911. The bridge was reconstructed in the early 1970s. Another smaller bridge was constructed just east of the main bridge about 20 years ago.

According to park records, water quality has been a problem from the beginning, due to lack of water flow and depth of the pond. There are many references to algae and grasses being cleaned from the pond. The pond bottom was dredged and lined with gravel in the early 1970s.

Water Sources and Water Quality

The pond, which is approximately four feet deep, is filled with municipal water. It also receives inflow from stormwater through catchbasins in the park. Overland sheetflow also reaches the pond during and after large storms.

Outflow from the pond is controlled by an outlet structure on the eastern pond edge. It is closed except when the pond is drained in the fall.

Chemical water tests indicated that the pond is highly eutrophic. Eutrophication is the process that a water body undergoes as it moves towards unhealthy conditions, resulting in excessive plant or algae growth and unpleasant odors. Plant growth is caused by the excessive addition of inorganic nutrients, organic matter or silt which causes increased biological

production and decreased water volume. The shallow depth of the pond allows sunlight to reach the bottom and promote weed growth. It is also relatively stagnant, with minimal flow-through except in times of high runoff. A water body is considered to be highly eutrophic if phosphorous concentrations are above 50 parts-per-billion (ppb). Samples collected in the pond ranged from 54 ppb at the ramp at the southern edge to over 200 ppb at the footbridge.

The high phosphorous levels reflect the numerous nutrient sources in the area such as bird droppings, incoming sediment, and surface runoff. Because there is no regular outflow these nutrients and contaminants accumulate until the pond is drained in the fall. Even then, some nutrients and contaminants are likely absorbed by the soils, are present in the vegetation, or remain on the floor of the pond to affect the water quality when the pond is filled again.

The water quality of the pond would be improved by eliminating or reducing the potential sources of contamination. It would also be improved by introducing mechanical aeration and water circulation measures. However, nutrients and contaminants will still accumulate and eventually result in similar conditions unless a system is introduced to allow water to flow through and drain from the pond continuously or be mechanically treated. At present the only major recharge is metered water from the Portland Water District. Recharging the pond from this source could cost the city a significant amount of money. The use of stormwater for recharge is problematic because of the potential accumulation of toxic concentrations of contaminants as well as the undependable nature of summer rainfall. The development of wells for recharge appears to be viable as a reliable, inexpensive source of water, assuming that the potentially brackish water is not a problem.

Other actions that should be considered are controlling the waterfowl population and dredging to deepen the pond. Deepening the pond will cause the water temperature to lower somewhat and reduce the sunlight sustaining bottom vegetation, making conditions that support weed growth less desirable. A greater volume of water would also increase the amount of nutrients and contaminants that the pond could accept without significantly affecting water quality. Saltwater intrusion is likely with the use of well water and the deepening of the pond. However, the current uses of the pond should not be greatly impacted by it.

The Ravine

The ravine in the western edge of the pond was evaluated for the potential to create a viable water body. It appears that an inflow stream and waterfall can be created only by mechanical recycling or pumping. A small spring in the upper reaches of the ravine appears to reach the old dam location only

occasionally. If wells and a flow-through system were introduced, the water could be pumped to and discharged in the ravine to flow naturally towards the pond. Based on the configuration of the ravine, a substantial amount of water would be necessary to create a steady flow across the bottom of the ravine. However, the current created by this water flow would provide the added benefits of supplying additional oxygen to the water, discouraging the settling of contaminants and thereby improving water quality.

Horticulture and Ecology Recommendations and Guidelines

A. Vegetation Maintenance and Improvements:

1. Develop and implement a vegetation management plan with the following goals and components:
 - selectively thin the current tree population and interplant the next generation of trees, giving highest priority to the oak groves.
 - maintain a mix of red and white oak in the oak groves of the park.
 - maintain a ratio of 2/3 native species, including oaks and evergreens, and 1/3 introduced species such as catalpa, horse chestnut, tree lilac, yellowwood, crabapple.
 - concentrate the exotic species in the area south of Bowling Green Road and in the rose circle area, using some flowering or other ornamental species at park entrances.
 - develop a clearer division of wooded and open spaces, using the historic Goodwin plan as a guide (see master plan map for delineation of areas).
 - conduct a tree-by-tree condition assessment to serve as a baseline and to form the basis for a removal and replanting program.
 - set up a computerized record-keeping system that can allow record-keeping of vegetation condition on an individual plant basis, facilitate planning, and allow tracking of operations in order to learn what works best in terms of maintenance and management and make adjustments over time. This should include new plant material in order to track the feeding, pruning and survival of the replanting program.
2. Institute a regular program of fertilization and pruning for the site's trees to improve tree condition:
 - fertilize and prune trees on a cycle of 20% a year to start, 33% a year once program is established. Fertilize with organic fertilizer, and add lime first in order to not lose the benefits of the fertilizer.
 - anticipate increased growth and maintenance needs in response to fertilization, to be supported by increased budget support for tree maintenance.

3. Implement a regular, higher intensity program of turf maintenance and soil improvements to improve turf condition, relieve damage due to compaction and add nutrients to the soil:

- apply ground limestone at the rate of fifty pounds per one thousand square feet.
- apply 12-8-20 fertilizer in the fall at the rate of ten pounds per one thousand square feet.
- core aerate the ground in the fall, using four passes with a core aerator, minimum 3" deep penetration.
- overseed with a fescue grass mix at the rate of three pounds per one thousand square feet.
- anticipate increased growth and maintenance needs in response to fertilization, to be supported by increased budget support for turf maintenance.

These recommendations are based on current research which shows fall to be the ideal time to fertilize turf. Feeding at this time makes grass more cold resistant; reduces disease and winter injury; keeps the grass growing later in the fall, thus shortening its dormant season; provides a residue of nutrients for spring green-up of the grass; and suppresses weed growth by promoting grass health.

4. Introduce shrub and groundcover plantings in particular areas (identified under Landscape Character and Historic Design Intent) to embellish the landscape, reduce maintenance, and establish communities of plants to cross-support one another.

5. Institute a regular program of fertilization and pruning of existing and new shrub and groundcover plantings:

- fertilize and prune shrubs on a cycle of 20% a year to start, 33% a year once program is established. Fertilize with organic fertilizer, and add lime first in order to not lose the benefits of the fertilizer.
- anticipate increased maintenance needs in response to new plantings, to be supported by increased budget support for maintenance.
- commit to the increased maintenance necessary to culture new groundcover plantings and establish ground coverage for two to three years: weeding, watering, mulching.

6. Develop staff training sessions in preparation for high-intensity maintenance and implementation of vegetation management plan.

7. Compost and re-use leaves as mulch on site, concentrating particularly on new shrub and groundcover plantings to help them become established. Mulch to a five foot radius around the trees, mulching some groves of trees

together and eliminating grass as an understory. Mulch plants in the fall no deeper than 3" coverage. Maintain mulch in a loose consistency, cultivating any mulch that has compacted around plants.

8. Discontinue the use of herbicides in the park. Substitute Integrated Plant Management (IPM) which utilizes alternatives to chemicals for pest control and establishes a monitoring system for early detection.

B. Pond Water Quality:

1. Conduct further study to determine the best method of increasing flow-through of water in the pond and thereby improving water quality.
2. Investigate the possibility of trapping and removing a certain number of ducks to maintain an appropriate population. Seal the openings in the duckhouse to discourage the duck population. Sell cracked corn for the public to use for duck feed instead of bread which becomes suspended in the water.

5. Maintenance and Management

Management, Personnel and Budget

The city has instituted umbrella management, a cooperative arrangement under which various crews and equipment from the Department of Parks and Public Works are available to one another, thereby increasing efficiency. What this means for Deering Oaks is that there are roving crews to maintain the park, rather than dedicated caretakers.

The following divisions and crews have jurisdiction in Deering Oaks:

- Parks: mowing, trimming, litter pick-up
- Recreation
- Ballfield
- Forestry
- Horticultural: flower beds
- DPW: roads and sidewalks
- Wastewater and Sewer
- Traffic: lights and signs
- Buildings and Trades: maintenance of the "castle"
- Engineering: plans for upgrade of roads, etc.
- Parks Division, 3-person crew: benches, fences, gates, and bleachers
- Cross between 3-person crew and Buildings and Trades: fountain

The presence of this many crews and divisions presents coordination challenges, if not coordination problems for maintenance of the park. In addition, there are no plans or schedules for regular maintenance tasks such as tree pruning or grass aeration.

The Recreation Division at one time was part of Parks Division. The two are now separated under the Department of Health and Human Services and the Department of Parks and Public Works, respectively. It is critical that there be good coordination and agreement on common goals for the park between these two divisions. While Parks maintains and repairs Deering Oaks, Recreation issues permits and receives money from users such as the Chamber of Commerce, which goes into the general revenue rather than being dedicated for maintenance and repair of Deering Oaks. There is no set-aside funding for maintenance or for planting, while at the same time the intensive use that the park gets demands that equally intensive maintenance be provided to counteract the impact.

The lack of a detailed maintenance and management plan, the challenges of maintenance coordination, and the lack of adequate funding for capital improvements and maintenance, are among the largest and most serious issues the park must face.

Maintenance of Structures

The structures in Deering Oaks were evaluated by visual assessment, and a summary of their physical condition follows. Park structures need to be repaired as well as regularly maintained in order to forestall accelerated deterioration.

Entrance Gates, Pillars. In good condition, with some minor repointing necessary in places.

Castle Building. Recent work has been done to the structure. Roof work is needed. The building's interior should be assessed in terms of retrofitting to satisfy proposed use for a visitor center and ranger station, as well as possible sports equipment storage, etc.

Paths. Bituminous concrete in good condition. No formal edging of paths, which are crumbling in places.

Roads. Bituminous concrete in good condition, with some cracked pavement in places. Roads have been over-paved over time, with the loss of the original cobble drainageways and adequate curb height.

Stairs, Dams at Ravine. Stairs in poor condition, remains of dams along ravine.

Walls at Pond. Overall good condition, with significant mortar loss in places, particularly on the northern shore where some sedimentation has occurred. Freezing of water for winter skating will cause degradation of stonework.

Lights. Most of lenses in park lights broken.

Drainage Structures. Appear to be operating well, although a number are filled with debris.

Park Concession

Deering Oaks is fortunate to have a food concession at the Castle building. It is a function that was considered by early park planners to be very important for a public space, a gregarious place where people could gather, have refreshments, and casually see and meet one another. It also provides a place for orientation and information.

The concessionaires at the Castle operate year-round, providing refreshments during the temperate months of the year, selling Christmas trees in late fall,

and renting skates, serving hot chocolate and working with the city to maintain the ice on the pond during the winter.

It is in the city's and the park's best interests that the agreements between the city and the concessionaires allow for the stability of the concessionaires and the ability for them to deliver a quality product for park visitors. The agreements should be reviewed in order to ensure an equitable partnership that defines relative responsibilities for maintenance costs and capital expenditures for the physical plant and the services provided.

It is also very important that the city have control over certain design, management and use issues, i.e.: the character of signage and boats; the multiple uses of the building for the concession, a warming house in the winter, and future year-round visitor center; and the warehousing of seasonal equipment.

Public/Private Partnership

It is essential that Deering Oaks have private friends as well as public servants. Friends who are organized and dedicated to the future health, well-being and appropriate use of this special place in Portland. Friends groups for parks across the country have, in partnership with cities, accomplished a tremendous amount on behalf of their parks, most notably in garnering private donations to support the on-going efforts of park maintenance and capital improvements and to augment the limited funding of city budgets.

A Friends group for Deering Oaks should also serve the important role of watchdog for the park, advocating for policies, practices and budgets that help to improve the quality of the park's physical environment and make it an inviting place for the visitor.

A Friends group will be critical for Deering Oaks as master plan recommendations are considered for implementation, and the competing interests of city departments and needs are weighed for priorities and funding.

Maintenance and Management Recommendations and Guidelines

A. Park Management:

1. Improve coordination and cooperation between the several departments with maintenance and management responsibilities in the park, particularly between the Recreation and Parks Divisions.
2. Implement mechanisms that can improve communication and accountability, such as written work schedules and job sheets.
3. Establish a budget with dedicated line items in order to plan, manage effectively, quantify the budget need and effectively advocate for increased funding.
4. Develop job descriptions for park staff.
5. Implement management guidelines and policies for special park events including the Family Festival (see Appendices 4 and 5). Incorporate a system of fees dedicated to park maintenance.

B. Private Advocacy and Support:

1. Encourage the establishment of the Friends of Deering Oaks group to spearhead fund-raising efforts and serve as a public watchdog and advocate for the park.

C. Maintenance of and Improvements to Structures:

1. Make necessary repairs to park structures and infrastructure.
2. Retrofit Castle building to accommodate proposed additional uses.

D. Park Regulations:

1. Post and enforce park regulations.

E. Park Concession:

1. Review the agreement between the city and the vendors of the Castle. Make any necessary changes that ensure vendor stability and the ability to deliver a quality product, while giving the city the necessary control over design and management issues (i.e. design of signage; type of boats used in pond; use of Castle building space for other park-related functions).

	HIGH PRIORITY PROJECTS	MODERATE PRIORITY PROJECTS	LONG-TERM PRIORITY PROJECTS
Use: Access, Circulation and Parking	- Tennis Court Road: narrowing of road and installation of granite curbs; closing of park entrance in front of Castle; developing of access road and associated sidewalk behind Castle - Parking Lot: development of 50-car parking lot at site of current maintenance yard - Bowling Green Road: narrowing of road to pedestrian scale; redesign of southern park entrances at Deering Avenue and State Street to pedestrian scale - Park Avenue/Deering Avenue Parking: development of parallel parking along Park and Deering Avenues - Pathways: Brick—Deering Avenue: construction of brick pathway along Deering Avenue park edge	- State Street: narrowing of State Street; planting along pond edge; development of brick pathway; installation of new lights of historic parkway character - Interior Park Road: redesign of access control gates; narrowing of access road between Tennis Court Road and Interior Park Road; installation of granite curbs	High Street: narrowing of High Street; installation of new lights of historic parkway character
Use: Facilities	- Pedestrian Plazas at Castle: development of front and rear pedestrian plazas at building - Planting at the Playground - Site Improvements: Picnic Tables: two additional tables in oak grove - Site Improvements: Removal of existing horseshoe pits and relocation of new pits behind the tennis courts to clear space for development of volleyball courts - Site Improvements: Volleyball Courts: construction of two courts - Site Improvements: Tennis Court Restoration - Site Improvements: Basketball Court Reconstruction	Castle Renovation: making necessary repairs to structure; development of a visitor center/ranger station at the Castle	
Landscape Character: Structures		- Pond: removal of wooden bridge; repairs to mortared wall; resetting of stacked curbing; continuation of stacked curbing to the concrete bridge - Structures: Deering Avenue Gates/Wall Restoration: repairs to gates and walls at Deering Avenue entrance - Structures: Pond Access Drive: redesign of ramp at south pond edge	- Structures: Concrete Bridge Restoration: repairs to bridge; restoration of lights on bridge - Structures: State Street Gates Restoration: repairs to gates; restoration of lights on top of gates - Structures: Bandstand: redesign and relocation
Landscape Character: Details and Planting	Site Improvements: Benches of appropriate historic character at the pond, Bowling Green Road, and playground (can be phased according to visibility and function of areas)	- Park Lighting: installation of new lights of appropriate historic character - Signage System: design and installation of coordinated signage system of appropriate historic character - Pathways: Brick S. of Interior Road: development of brick pathways from pedestrian plaza west along Interior Park Road, along north pond edge, over bridge and to park entrance opposite Mellen Street - Pathways: Stone Dust-surfacing of paths south of pond, through middle park section, and between playground and Quinn Field with stone dust - Planting: Entrances—Bowling Green Road: special entrance planting at the two narrowed park entrances accessing Bowling Green Road - Planting: Entrances—Deering Avenue: special entrance planting at proposed main park vehicular entrance - Site Improvements: Trash Receptacles: placement of receptacles of coordinated design in selected park areas	- Pathways: Brick—Rose Circle: resurfacing of paths in rose circle with brick - Planting: Edges—Rose Garden/Edwards Lot: planting of edges to embellish landscape and better separate park from city - Planting: Edges—Park Avenue/Deering Avenue: planting of edges to embellish landscape and better separate park from city - Planting: Edges—I-295: planting to screen I-295 to greatest extent possible - Planting: Pond Edges: planting to embellish pond landscape, control erosion and facilitate maintenance - Planting: Ravine: restoration planting in upper pond area with reference to 1935 planting plan - Site Improvements: Rose Arbors: installation of wire arches at rose circle entrances as structures for climbing roses
Horticulture and Ecology: Plans and Feasibility Studies		- Study of Pond Water Quality - Feasibility Study: Upper Pond in Ravine: study to determine feasibility, costs and methods of reinstating water in ravine - Vegetation Management Plan	
Maintenance and Management: Structures	Pathways: Brick—Park Avenue: reconstruction of brick pathways along Park Avenue		Bituminous Concrete Pathway: improvements to pathway to active recreational area

Phased Plan for Implementation

High Priority Projects are those which are most critical for satisfying the needs of the park and supporting the plan's goals, in terms of park use, character and functioning. High priority projects are proposed to be implemented within the next five years.

Moderate Priority Projects are projects that, although not an immediate need, are desirable to be implemented in the near term. They are significant for the long-term success and impact of the master plan and incrementally achieve the plan's goals. Some projects are continuations of work begun in high priority projects, such as the implementation of circulation recommendations. Moderate priority projects are proposed to be implemented within the next five to ten years.

Long-Range Priority Projects can only be implemented over the long term, can be done as funds become available, or are low priority relative to other park needs. Most long-term priority projects are proposed to be implemented after ten years. In some cases, however, particularly the edge planting projects, it is desirable that they be initiated in the short-term—sooner than ten years—but completed over the long term. Although they are extremely important for the character and use of the park, they appear in this category because of their scale.

Projects have been broken down in terms of construction projects although some projects are closely related and would most likely be done in tandem, such as the narrowing of Tennis Court Road, the development of an access road behind the Castle, and construction of the parking lot at the site of the current maintenance yard. Some projects are large and can be further subdivided, such as installation of park lighting in phases or the construction of new entry gates at State Street at a later date after narrowing of the road.

The master plan is intended to provide a blueprint for phased rehabilitation of Deering Oaks and to stimulate further public and private investment in the park. It is essential that the process of investment in the park be long-term and on-going. The plan as well as implementation of the first projects recommended therein will set the direction and provide the inspiration for that investment.

Deering Oaks Master Plan	
Portland, Maine	
Project & Materials List	
Project/Item	
A. Tennis Court Road	D. Bowing Green Road
Bituminous Concrete Pavement Removal	Bituminous Concrete Pavement and Base Removal
Bituminous Concrete Pavement and Base Removal	Bituminous Concrete Pavement on Existing Base
Unclassified Excavation	Granite Cobbles
Clear and Grub for Roadway and Brick Pavement	Brick Pavement on Bituminous Base at Entrances
Strip and Stockpile Loam	New Loam
Bituminous Concrete Pavement and Gravel Base	Seeded Lawn
Bituminous Concrete Pavement on Existing Base	Stone Entry Gates (6'Ht x 3'Square)
Granite Curbing	Granite Bollard
Granite Cobbles	Drainage
Brick Pavement on Bituminous Base	
Recondition and Spread Loam	
New Loam	E. Pedestrian Plazas @ "Castle"
Seeded Lawn	Bituminous Concrete Pavement Removal
Drainage	Bituminous Concrete Pavement and Base Removal
	Unclassified Excavation
	Clear and Grub
B. Parking Lot	Strip and Stockpile Loam
Bituminous Concrete Pavement and Base Removal	Brick Pavement on Bituminous Base
Unclassified Excavation	Brick Pavement on Concrete Base
Clear and Grub for Roadway and Brick Pavement	Stone Walls (2'Ht x 2' Wide)
Strip and Stockpile Loam	Benches
Bituminous Concrete Pavement and Gravel Base	Recondition and Spread Loam
Granite Curbing	New Loam
Brick Pavement on Bituminous Base	Seeded Lawn
Recondition and Spread Loam	Deciduous Tree Planting: 2-1/2"-3" Caliper
New Loam	Ornamental Tree Planting: 2-1/2"-3" Caliper
Seeded Lawn	Shrub Planting
Deciduous Tree Planting: 2-1/2"-3" Caliper	Groundcover Planting
Deciduous Ornamental Trees: 2-1/2"-3" Caliper	Pedestrian Lighting
Shrub Planting	Drainage
Lighting	
Guardrail	
Line Painting	F. State Street
Drainage	Bituminous Concrete Pavement and Base Removal
	Remove and Reset Ex. Granite Curb / Bit. Conc. Patch
	New Granite Curb
C. Interior Park Road	Brick Pavement on Bituminous Conc. Base
Bituminous Concrete Pavement and Base Removal	New Loam
Bituminous Concrete Pavement and Gravel Base	Seeded Lawn
Granite Curbing	Entrance Pillers at Forest Avenue Intersection
Granite Cobbles	Deciduous Tree Planting: 2-1/2"-3" Caliper
New Loam	Shrub Planting
Seeded Lawn	Parkway Lighting
Access Gates	Drainage
Drainage	

G. High Street	P. Planting: Edges-Park Ave/Deering Ave
Bituminous Concrete Pavement and Base Removal	Deciduous Shade Tree Planting: 1"-1-1/2" Caliper
Remove and Reset Ex. Granite Curb / Bit. Conc. Patch	Deciduous Ornamental Trees: 2-1/2-3" Caliper
New Loam	Shrub Planting
Seeded Lawn	
Parkway Lighting	
Removal and Relocate Signage	Q. Planting: Edges-I-295
Drainage	Deciduous Shade Tree Planting: 1"-1-1/2" Caliper
	Evergreen Tree Planting: 6'-8' Ht.
H. Park Ave/Deering Ave Parking	
Bituminous Concrete Pavement and Base Removal	R. Planting: Entrances-Bowling Green Road (2)
Remove and Reset Ex. Granite Curb / Bit. Conc. Patch	Deciduous Ornamental Trees: 2-1/2-3" Caliper
Unclassified Excavation	Shrub Planting
New Granite Curb	
Bituminous Concrete Pavement and Gravel Base	
Removal and Relocate Signage	S. Planting: Entrances-Deering Ave
Line Painting	Deciduous Ornamental Trees: 2-1/2-3" Caliper
Drainage	Shrub Planting
I. Pathways: Brick-S of Interior Rd (Not State St)	T. Planting: Pond Edges
Bituminous Concrete Pavement and Base Removal	Deciduous Shade Tree Planting: 2-1/2"-3" Caliper
Brick Pavement on Bituminous Base	Deciduous Ornamental Trees: 2-1/2-3" Caliper
Loam	Shrub, Groundcover, Perennial Planting
Seeded Lawn	
	U. Planting: Ravine
J. Pathways: Brick-Park Ave	Deciduous Ornamental Trees: 2-1/2-3" Caliper
Bituminous Concrete Pavement and Base Removal	Shrub, Groundcover, Perennial Planting
Brick Pavement on Bituminous Base	
	V. Planting: @Active Recreation/Totlot Area
K. Pathways: Brick-Deering Ave	Deciduous Shade Tree Planting: 2-1/2"-3" Caliper
Bituminous Concrete Pavement and Base Removal	
Unclassified Excavation	
Clear and Grub	W. Park Lighting:
Brick Pavement on Bituminous Base	Pedestrian Lighting
L. Pathways: Brick-Rose Circle	X. Pond
Bituminous Concrete Pavement and Base Removal	Restoration of existing Edge Wall
Unclassified Excavation	Curb Edging on Gravel Base
Brick Pavement on Bituminous Base	Demolition & Removal of Wood Bridge
	Dam above Conc. Bridge
M. Bituminous Concrete Pathway	
Bituminous Concrete Pavement and Base Removal	Y. Site Improvements
Unclassified Excavation	Benches
Clear and Grub	Picnic Tables
Bituminous Concrete Pavement and Gravel Base	Removal of Ex. Horseshoe Pits
	New Horseshoe Pits
	Volleyball Courts
	Trash Receptacles
N. Stone Dust Pathway	Rose Arbors
Bituminous Concrete Pavement and Base Removal	Tennis Court Rehabilitation
Unclassified Excavation	Basketball Court Reconstruction
Clear and Grub	Tennis Court Conversion to Basketball Court
Stone Dust Pavement and Gravel Base	
Recondition and Spread Loam	
New Loam	
Seeded Lawn	Z. Signage System
	Signs
O. Planting: Edges-Rose Garden/Edwards Lot	
Deciduous Shade Tree Planting: 2-1/2"-3" Caliper	
Deciduous Ornamental Trees: 2-1/2-3" Caliper	
Shrub Planting	

AA. Structures: Castle Restoration	EE. Structures: Pond Access Drive
Restoration Work	Bituminous Concrete Pavement and Base Removal
	Bituminous Concrete Pavement and Gravel Base
	Granite Cobbles
BB. Structures: State Street Gates Restoration	New Loam
Gate Restoration	Seeded Lawn
New Lights	
CC. Structures: Concrete Bridge Restoration	FF. Structures: Bandstand
Bridge Restoration	Demolition of Existing Bandstand
New Lights	New Bandstand
	Temporary Staging
DD. Structures: Deering Ave Gates/Wall Restoration	GG. Feasibility Studies: Upper Pond in Ravine
Gate Restoration	Upper Pond in Ravine Feasibility Study:
Wall Restoration	
HH. Feasibility Studies: Pond Water Quality	II. Vegetation Maintenance/Management Plan
Pond Water Quality Feasibility Study	Maintenance/Management Document

**Appendix 1:
Landscape Chronology**

- 1678 Brackett family returned to their farm after the Indian wars.
- 1689 Major Benjamin Church defeated the Indians in Brackett's orchard. The following spring Falmouth was annihilated.
- 1690 Plan of Falmouth Neck shows Oaks area heavily wooded.
- 1700s Portland grew rapidly once Indian threat was eliminated.
- 1775 Portland bombarded and burned by the British.
- 1820 Maine became a state. Portland population: 8,581.
- 1856 City offer to purchase Deering Oaks refused.
- 1872 - 92 William Goodwin appointed city civil engineer.
- 1876 Bird's eye view of Portland shows Deering Oaks as forested -- largest open space near city.
- 1878 Calvert Vaux visited Portland, may have influenced Goodwin.
- 1879 City acquired 44.62 acres at Deering Oaks. Goodwin prepared plan.
- 1879-80 Initial improvements included trunk sewer and dam. Goodwin stressed tree preservation.
- 1881-2 Driveway created along dam embankment, footbridges built, additional roads cut through woods, some trees planted.
- 1883-4 Bandstand built, driveways improved, stone wall built at northeast corner of pond.
- 1885 Board of Commissioners appointed, walks and lawns extended.
- 1887-8 Gondola used in pond, waterfowl house built, shrubbery planted, pond wall extended, wooden three-arched bridge built.
- 1889 Deering Oaks appropriation \$3,150, over half of parks budget, stone dam built in ravine, swan boat and row boats purchased.
- c 1889 Railroad spur built along north edge of Oaks despite objections.

- 1891 Creek north of Oaks deemed a huge cesspool.
- 1893 James Phinney Baxter elected mayor, strong interest in parks. City purchased a few acres between creek and railroad.
- 1894 City purchased portion of Larrabee land north of Portland Street. Waiting room built, Frederick Tompson, architect.
- 1895 Driveway around southern edge of pond built.
- 1897 Additional land bought north of Portland Street.
- 1900 New deer paddock completed, old deer paddock graded, stone wall extended 185' around pond.
- 1901 New shrubbery planted, 25 benches added, wall extended on north side of pond.
- 1902 First playground built with \$500 appropriation.
- 1903 Granite columns at State Street entrance completed, John Charles Olmsted advised on landscape. Filling of cove at head of Mellen Street begun. Playground in active use.
- 1904 Ornamental lights installed on State Street columns, landscape work begun. Stone wall rebuilt around pond on main driveway. Cove filled, rustic bridge eliminated. Pond drained and cleaned.
- 1905 Baxter/Olmsted plan completed. Filling underway at northwest corner, State Street entrance and Larrabee lot.
- 1906 Larrabee lot graded, fence constructed, 400 shrubs planted.
- 1907 Filling along Portland Street. Playground equipment added.
- 1908 Algae once again a problem. Toilet room added at concession building. Improvements continued near State Street entrance. W. O. Thompson employed to lay out park improvements.
- 1909 Filling continued at northwest corner. Part of almshouse lot acquired by Parks Department.
- 1911 Concrete bridge built at ravine.

- 1912 Water supply provided at ravine to resolve algae problem, adjacent slopes planted. Lots of roadwork undertaken. Wooden bridge near Mellen Street replaced by rustic bridge, slopes graded and planted. Filling of northwest corner nearly completed. 523 trees trimmed, 29 dead trees removed.
- 1915 Deering Oaks totalled 51.22 acres, budget \$3,955.31. Trees received careful attention with 100 oaks, 150 weeping willows, 35 flower beds, 600 shrubs planted. Extensive grading, turfing and seeding done. Gully above pond partly filled and graded. Roadways repaired. 300 loads of cinders put on sidewalks. Pond cleaned.
- 1917 40 oak trees, 168 weeping willows, \$300 worth of "fancy evergreens", 300 shrubs, 24 rhododendrons, 18 kalmias and 36 flower beds planted. Walks repaired, driveways oiled. Six geese and 40 ducks put in pond. Ten dead trees removed, other trees and shrubs pruned. Gasoline lawn mower purchased. Band concerts given to large, appreciative audience.
- 1918 Wall around northeast end of pond rebuilt, fence repaired. Ashes used on walks. Main drive resurfaced, gas lights installed from Forest Avenue to Park Avenue.
- 1920 150 oak trees planted, 50 Lombardy poplars set out to hide tannery fence. Iris and ferns planted in upper pond.
- 1921 Shrubbery in ravines had to be cut twice. Pruning, tree replacement, painting and other repairs continued. 150 oaks planted.
- 1922 Casco Tannery land purchased. Dead wood removed, replacement trees and shrubs planted. Need for connection between State Street and Forest Avenue reiterated.
- 1923 25 young oaks transplanted, new pipe system laid to fountain.
- 1924 Portland switched to council manager form of government.
- 1927 Landscape improvements made on new land in southeast corner. Deering Oaks acreage: 53.70 acres.
- 1928 Girls hockey field constructed.
- 1929 Further improvements in southeast corner. Area near Mellen Street also improved. 25 young white oaks planted.
- 1930-1 50 oaks planted. Improvements continued at southeast corner.

- 1932 Road near tennis courts straightened and widened. Entrance at Deering and Park Aves improved.
- 1933 Pond floor dredged to reduce marine growth.
- 1935 Soccer field constructed.
- 1980 UPARR Plan identified \$4 million needed city-wide to upgrade parks and recreation facilities, Deering Oaks was high priority.
- 1981 \$143,000 allocated for Deering Oaks Phase I rehabilitation, pond wall restoration.
- 1983 \$333,000 requested for improvements to Deering Oaks.
- 1989 Deering Oaks nominated to National Register of Historic Places.

Appendix 2: Analysis of Questionnaire on Public Use

Introduction

A survey was conducted in the fall of 1993 in association with the development of a master plan for rehabilitation of Deering Oaks. The purpose of the survey was to gather information about public perception and use of the park, as a supplemental aid to the planning process. A questionnaire consisting of 17 questions was sent to 4000 households throughout Portland — 2500 to the neighborhoods within an approximately 5-mile radius of the park, and 1500 distributed throughout the rest of the city. (See Appendix for the survey instrument.) 701 questionnaires were returned, which is an impressive 18% return. The Open Space Opinion Survey conducted by Portland in 1990 received an 11% return, and anything more than 5% is considered to be an excellent response to a mail-back questionnaire.

In terms of the distribution of responses, 52% came from the neighborhood, 46% came from the larger city, and 2% came from project committee members. The latter was considered both as insight into the perceptions of committee members as well as input from residents concerned about their park.

Breakdown of Responses

Responses to each question were reviewed to determine if there were any significant distinctions between perceptions of neighborhood residents and those of city-wide residents. It was found that responses and patterns of use were remarkably similar between the two groups of users. There were some expected differences, and some unexpected ones as well. For example, as expected a greater percentage of neighborhood visitors stay in the park for short visits, under one hour, while a larger number of visitors from greater Portland stay for longer periods of time. Also, results showed a greater percentage of neighborhood visitors who came to Deering Oaks to walk as well as who arrived by walking, which was also expected. However, 26% of the city-wide respondents came to use the playground as opposed to 16% of the neighborhood respondents. Demographics and city-wide distribution of playground facilities may play a part in this finding.

The analysis that follows is based on the combined responses of neighborhood and city-wide residents. More detailed analysis can be conducted of the data gathered from this survey if more information is needed about household location and responses to particular questions. This analysis is sufficient for the needs of the current master planning effort.

A note about percentages. For several questions, percentages do not total 100 because not everyone answered them.

Summary of Major Findings

The results of the survey yielded some important information, and clarified as well as confirmed a number of critical issues for the future well-being of Deering Oaks. It is not intended that definitive conclusions be drawn on the basis of this survey. Rather, these findings should provide a basis for further discussions with the community, analysis of the park, and master plan recommendations that protect what is most valuable about Deering Oaks while making the changes necessary to improve the park landscape and physical environment, and the public's enjoyment of it.

The interests, concerns and patterns of use expressed by the survey respondents can be summarized in the following findings, which should be reflected in the master plan recommendations:

1. The community is very fond of, and concerned for, Deering Oaks, indicated by the immediate and large volume of response to the questionnaire and by the amount of comments and suggestions offered. Continued communication with the public about the planning process and rehabilitation plans for Deering Oaks, as well as the organization of a public advocacy group on behalf of the park, will be very important. Portland residents as well as Deering Oaks will reap the benefits.
2. A major priority in the master plan should be directed toward supporting and strengthening the park environment for passive activities and for its use as a quiet haven, particularly the identification of those park uses and elements which undermine its ability to satisfy these needs. Passive and unstructured uses are by far the most common ones of the park. This finding is shared by research in urban naturalistic parks in many other cities, including Boston, New York, Hartford and Worcester.
3. Active recreation and use of the park for special events are important and should also be accommodated, particularly when considering circulation changes. There is interest in more organized events, particularly family events.
4. The public has a very positive image of the city's maintenance of Deering Oaks. This is unusual for something that is normally the object of public criticism of urban parks. Most likely this reflects a combination of accurate perception of some aspects of park maintenance and lack of awareness of the condition of the park's natural elements.

5. Most urban parks share the problem of public concern for safety and security. The problem is both real and perceived at Deering Oaks as well as in other similar urban parks. Perceptions change slowly, once they are ingrained. High visibility efforts must be made to address the issues of greatest public concern, allay fears, and encourage those who do not use the park to visit it.

Illegal or nuisance activities in the park are a major issue for the public. In particular, many people feel that the degree of solicitation that occurs in Deering Oaks renders whole areas of the park uncomfortable to be in and unusable for the general public.

There is a widely-shared fear of the park after dark, and a range of suggestions for alleviating the problem, from more lighting to closing the park after dark. This is also a problem that has been grappled with elsewhere, and needs to be resolved for Deering Oaks.

The third most-expressed concern for safety centers on the dominance of the car in the park. The amount and speed of traffic and the danger of crossing streets in the park (including State Street), are all major issues for respondents.

The use of Deering Oaks as an oasis in the city for active and passive use will be greatly enhanced by tackling these issues, and by relieving the pressures brought about by the real as well as perceived threats to safety and security in the park.

Survey Results

The survey questions cover the following:

- frequency and duration of visits, mode of travel, and entrances most often used;
- what people do in the park;
- their response to several planning issues;
- what people like best about the park;
- what their concerns are about the park;
- their opinion of park maintenance;
- demographics

Frequency of Visitation

People were asked how often they visit Deering Oaks. The greatest number, 42%, visit four times per year. 11% come once a year, 2% come less than once a year, those who visit monthly number 22% of respondents, while 19% come weekly and 4% come daily.

Of those respondents who haven't visited the park, the greatest number, 6%, cited their reason as concern about safety.

How Do Park Visitors Travel to Deering Oaks?

In order to understand more about circulation and parking patterns and needs, respondents were asked about their mode of transportation to and from the park, and whether they used particular modes "Occasionally" or "More Frequently". The two most often cited modes of travel were driving a car and walking, and they were cited with equal frequency but, interestingly enough, in reverse order — 36% of visitors occasionally drive their car to the park while 64% do so more frequently, in contrast with 64% of visitors who occasionally walk to the park and 36% who do so more frequently. Clearly, visitors who drive as well as walk to Deering Oaks need to be accommodated.

Bicycling was also cited often, with 71% of respondents who occasionally bicycle to the park and 24% of respondents who do so more frequently. 56% of respondents cited public transportation as an occasional mode of transportation, with only 6% citing this as a more frequently used mode. Recommendations for circulation changes should facilitate the use of alternative modes of travel to and throughout the park.

Where Do Visitors Enter the Park?

A map was included in the questionnaire in order to gain an understanding of where visitors enter Deering Oaks. The answers are important in developing access and circulation recommendations that respond to visitor needs. They also give insight into people's perceptions of where one enters Deering Oaks.

24% of respondents, the largest number, marked the entrance they used most frequently as the point along State Street where the city's maintenance yard is located, in fact the point at which the park land begins. This is not where the park entrance is presently marked. 21% of respondents identified the park road at the "Castle" building to be their most frequently used entrance. 18% identified the Deering Avenue entrance at the stone entrance gates, while 18% identified the Deering Avenue entrance near Park Avenue as the one they most frequently used. Other entrance points were identified — along the Park Avenue edge; up State Street from the city; up High Street; across Forest Avenue — but these answers were not given in statistically significant numbers.

In summary, 45% of park visitors enter Deering Oaks from the northeast or along State Street, while 36% of park visitors enter from the west or along Deering Avenue. These are the two most popular access points into the park.

What Do People Do in Deering Oaks?

People were asked to identify the reasons for which they visit the park, choosing activities from a long list of passive and active ones. Of all the activities listed, attending festivals was identified the most, with 60% of the respondents checking that as a reason to visit the park. The next most-identified activity was visiting the farmer's market — 49% of respondents. Buying a Christmas Tree and Walking were each listed by 36% of respondents, while 32% listed Sitting and Relaxing as a reason to visit.

However, in order to get an overall picture of the type and frequency of activities enjoyed by park users, the activities listed in the survey were combined into passive uses, active uses, special events and parking a car or driving through the park (including on State Street). When this breakdown was analyzed, it was seen that a variety of passive uses was cited most often, 1169 times; a variety of special events (including going to the refreshment stand) next at 1078 times; a variety of active uses about half as often as passive uses, 616 times; and parking a car or driving through 343 times.

People were also asked whether they go to the same area or visit different areas of the park. 37% said they go to the same area, while 63% visit different areas of the park.

Planning Issues and Responses

There are four issues that have been identified as primary concerns for the master plan to address, and therefore important issues about which to solicit public opinion. They were posed in the form of statements of opinion, in order to provoke an answer of agreement or disagreement. People were also given the option of choosing "Don't Care" as a response:

1. Some people think that there are too many cars parked in Deering Oaks, and that there should be some restrictions on parking. 46% of respondents agreed with this statement, 32% disagreed, and the rest answered Don't Care.
2. Some people are concerned about the amount and speed of traffic moving through the park, and think there should be some restrictions on use of park roads. Of all four questions, this one received the greatest majority of agreement, with 64% of respondents agreeing with this statement, 22% disagreeing, and the rest answering Don't Care.
3. The traffic on State Street is perceived by some people to negatively impact the park, and they think that ways to alleviate that impact should be found. As opposed to the two statements above concerning vehicular

circulation and parking, more people disagreed with this statement, with 31% agreeing, 51% disagreeing, and the rest answering Don't Care. Because State Street is a major city and regional arterial, it is not perceived by everyone as a park road, but rather as a road that passes Deering Oaks and offers motorists a pleasant view of park scenery. This may be a factor in the breakdown of responses to this statement.

4. Some people think that the intensity of use caused by large festivals is damaging to the park environment, and such use should be limited. The response to this question was close to evenly split, with 47% agreeing, 50% disagreeing, and the rest answering Don't Care. This question implied an understanding about the relationship between festival use and park damage, and may have provoked concern about limiting popular festivals more than a concern for the park environment.

What Do People Like Best About Deering Oaks?

People were asked to list what they like best about Deering Oaks, either physical elements or experiences. The natural landscape of the park — open space, pond, wildlife, trees, flowers, etc.— was cited 560 times, by far the greatest majority of reasons listed. The second most-cited reason, related to the first, was the quality of the park landscape — the cleanliness of the park; the peacefulness of the space as an oasis in the city; the beauty of the landscape. These reasons were cited 273 times. By contrast, opportunities for active recreation were cited 168 times, and events (including festivals, the farmer's market, and refreshments) were cited only 63 times.

Clearly, although many people come to Deering Oaks for special events and active recreation, what they value most is the beauty and peacefulness of this naturalistic park in the city.

What are People's Concerns About Deering Oaks?

A number of questions sought to hear people's concerns about the park. One question asked whether respondents perceived any safety issues in the park. The greatest percentage of respondents, 39%, cited a variety of illegal or nuisance park uses that posed safety issues: drinking; sexual solicitation; violence; drug dealing; gang activity. 10% of the respondents said there were no safety issues in Deering Oaks. 6% cited dangerous street crossing and traffic moving too fast. A number of respondents recommended corrective measures in answer to this question, including better police patrolling, better lighting and enforcing a ban on park use from sunset to sunrise. A number of respondents did not cite personal experience, but said that they heard from news reports that the park was unsafe.

Respondents were asked whether there were things they would like to see changed in the park. The highest numbers of respondents, 15%, identified better security and more police patrolling. 5% of respondents cited closing roads and reducing or removing vehicular traffic from the park. 4% of respondents identified more landscaping, and 3% cited the need to clean the pond water more often and maintain the pond ice better in the winter. 3% wanted to see the park closed after dark. More picnic tables and benches, better maintenance, and more organized events were each cited by 3% of respondents. 2% of respondents said that the park was beautiful the way it was. A broad range of answers was given to this question, from decreasing the waterfowl to increasing the number and maintenance of bathrooms.

A third question sought to understand the public's concerns and issues about Deering Oaks, by asking respondents to complete the sentence, "I would use Deering Oaks more if..." The highest response, from 12% of those who answered this question, was, if it was safer. 6% of respondents said they would use the park more if they had more time. 5% said they would use it more if there were more organized activities, while 4% said they would use it more if they lived closer. As in the previous question, there was a broad range of answers to this one, from if there were better traffic controls and more police patrolling to if the park was cleaner.

Park Maintenance

Respondents were asked to rate park maintenance. Overall, park maintenance was given high marks, with 87% rating it as sufficient or better. 16% rated maintenance as excellent; 49% rated it as very good; 22% rated it as sufficient; 11% said that it needs improvement; and 2% said that it is poor. This may realistically reflect the care of the grounds, but may also indicate a lack of sophistication about the condition of many park elements, such as the trees and water.

Other Comments

The last survey question asked for respondents to give final comments about Deering Oaks. The greatest number of respondents answered with praise and thanks: the park looks great and is a beautiful asset to the city; the city is doing a great job; thank you for asking. Issues that were noted by a significant number of people were: concern about safety and the need for better police patrolling; concern about soliciting in the park; and the need for better traffic and parking controls.

Demographics

The average age of respondents to the survey was 47.2 years old. 56% of respondents were female and 44% of respondents were male. There were an average of two adults and 1.9 children in the households of respondents.

DEERING OAKS MASTER PLAN
Summary of Questionnaire on Public Use:
Answers to Quantifiable Questions

Respondent Type	2% Staff	52% Neighborhood	46% City
1. Have you ever visited Deering Oaks?	99% Yes	0% No	1% Drive through only
2. When you visit, how long do you stay?	37% <1 hr. 1% >4 hrs.	52% 1-2 hrs.	10% 2-4 hrs.
3. If you haven't visited, why not?	2% Not convenient 2% Don't use parks 1% Other	7% Concerned about safety 1% Not interested	
4. How frequently do you visit?	3% Daily 42% 4 Times a year 2% Less than Once a Year	19% Weekly	20% Monthly 14% Once a Year
5. For which reasons do you visit?	18% Picnic 32% Sit and relax 1% Play Horseshoes 4% Park a Car 29% Feed the ducks 10% Boat ride 14% Play Tennis 36% Buy Christmas tree 14% People Watch 25% Ice Skate 10% Buy refreshments 2% Play baseball/softball	6% Bicycle 49% Farmer's Market 28% Rose Circle 36% Walk 3% Sled/Cross Country Ski 20% Playground 60% Festivals 22% Short cut through 21% Special Events 1% Rollerblade/skateboard 17% Baseball/softball (watch) 23% Drive State Street	
6. Which areas do you usually use?	37% Same	63% Different	
7. What mode of transport?	Car Public Transportation Bicycle Walk Other	36% Occassionally 56% Occassionally 71% Occassionally 64% Occassionally 25% Occassionally	64% More frequently 6% More frequently 24% More frequently 36% More frequently 25% More frequently
11a. Parking should be restricted	46% Agree	32% Disagree	Rest - Don't Care
11b. Restrict use of roads	67% Agree	22% Disagree	Rest - Don't Care
11c. Alleviate State Street traffic	32% Agree	50% Disagree	Rest - Don't Care
11d. Limit festival use	47% Agree	50% Disagree	Rest - Don't Care
13. How do you rate maintenance?	16% Excellent 11% Needs Improvement	49% Very Good	22% Sufficient 1% Poor
Demographics of Respondents:			
Male 44% Female 56%	Average Age 47.2 Years		
Avg. # Adults in Household 2.0	Avgi. # Children in Household 1.9		

APPENDIX B

Deering Oak Park Master Plan Public Use Questionnaire

1. Have you ever visited Deering Oaks? ☐ Yes ☐ No ☐ Drive through only
2. When you visit, how long do you usually stay?
☐ less than 1 hour ☐ 1-2 hours ☐ 2-4 hours ☐ more than 4 hours
3. If you haven't visited, why not?
☐ Not convenient geographically ☐ Don't use park facilities ☐ Not interested
☐ Concern about public safety ☐ Other (please specify)
4. If yes, how frequently do you visit the park?
☐ Daily ☐ Weekly ☐ Monthly ☐ 4x per year ☐ Once per year ☐ Other
5. For which of these reasons do you go to Deering Oaks?

☐ to picnic	☐ to sit and relax	☐ to play horseshoes
☐ to park a car	☐ to feed the ducks	☐ to take a boat ride
☐ to play tennis	☐ to buy a Christmas tree	☐ to people watch
☐ to ice skate	☐ to buy refreshments	☐ to play basketball
☐ to bicycle	☐ to attend Farmer's Market	☐ to look at Rose Circle
☐ to walk	☐ to sled/cross country ski	☐ to use the playground
☐ to go to festivals (please specify)	☐ to go to special events (please specify)	
☐ to take a short cut drive through the park	☐ to roller board/blade skate	
☐ to play or watch baseball/softball	☐ to drive through park along State Street	
6. Do you usually ☐ go to the same area of the park? (please specify)
☐ wander around to many areas of the park?
7. How many miles is your residence from Deering Oaks? (Please indicate your street.)
8. What mode of transportation do you use to get to Deering Oaks?

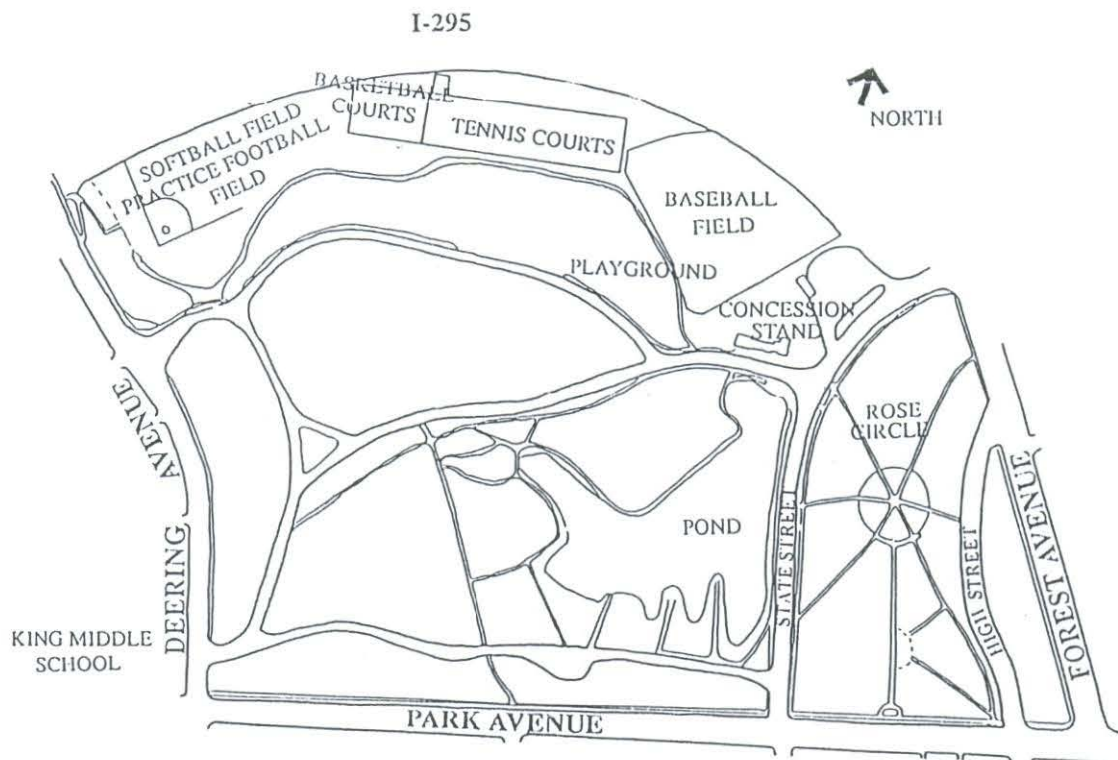
	Use occasionally	Use more frequently
Car	☐	☐
Public transportation	☐	☐
Bicycle	☐	☐
Walk	☐	☐
Other	☐	☐
9. Where do you most often enter the park? (please place arrow on the map on the back of this survey.)

The City of Portland is interested in people's opinions and experiences in Deering Oaks.

10. What do you like best about Deering Oaks?
11. We have a list of possible issues and priorities that are being considered in planning decisions about the park. Could you tell us whether you Agree, Disagree or Don't Care about each of these? Please offer any further comments you may have.
 - a. Some people think that there are too many cars parked in Deering Oaks, and that there should be some restrictions on parking. ☐ Agree ☐ Disagree ☐ Don't Care
 - b. Some people are concerned about the amount and speed of traffic moving through the park, and think there should be some restrictions on use of park roads.
☐ Agree ☐ Disagree ☐ Don't Care

- c. The traffic on State Street is perceived by some people to negatively impact the park, and they think that ways to alleviate that impact should be found. ☐ Agree ☐ Disagree ☐ Don't Care
- d. Some people think that the intensity of use caused by large festivals is damaging to the park environment, and such use should be limited. ☐ Agree ☐ Disagree ☐ Don't Care
12. Do you perceive any safety issues in Deering Oaks? If so, what and where?
13. How do you rate the overall maintenance of the park?
☐ excellent ☐ very good ☐ sufficient ☐ needs improvement ☐ poor
14. Are there things you would like to see change in Deering Oaks that would make it a better park?
15. I would use Deering Oaks more if
16. Further Information: ☐ Male ☐ Female ☐ Age ☐ # Adults in household
☐ # Children in household
17. Other Comments:

Thank you very much for helping us. Your participation is invaluable in creating a master plan that truly reflects our city and its needs.



Appendix 3: Master Plan Alternatives

Introduction

During the planning process, a range of alternative solutions to the issues facing the park was developed and explored. This Appendix summarizes those alternatives, as well as the components that were considered to be common to any alternative master plan proposal.

The component of the Deering Oaks landscape that has had the greatest impact on the use and character of the park, and the one that had the potential for the greatest range of alternative design treatments, is the circulation system. That range was explored, and a preferred alternative agreed upon by the Project Committee. This is the major design decision that had to be made during Alternatives, and the structure of that solution also defined the parameters of a number of other issues, particularly issues related to park use.

In reviewing the various physical components, use issues, and maintenance and management needs of the park, it was determined that there was a broad range of recommendations that should be basic to any alternative plan for park rehabilitation. Those components are defined below, after which the issues that were subject to possible alternative resolution are identified.

Common Components

1. Vegetation Maintenance and Improvements

Woodland management to selectively thin the current tree population and interplant the next generation of trees (to maintain a mix of red and white oak, and a ratio of 2/3 native trees to 1/3 introduced trees in the park); higher intensity turf and tree maintenance; a regular program of soil improvements to relieve damage due to compaction and add nutrients to the soil; increase of pond-side vegetation to stabilize banks in places, enhance planting composition, and reduce maintenance; clarification of wooded and open park areas.

2. Circulation System Changes

Development of perimeter parking scheme including major parking lot at present maintenance yard and parallel parking along Park and Deering Avenues; limiting of motorized vehicular circulation to one way along Tennis Court Road, with access at Deering Avenue and egress behind Castle building and through proposed parking lot; closure of road in front of Castle and development of pedestrian plazas in front and rear of

8. *Park Visitor Center*

Development of a visitor center in "Castle" building for information, tours, and as a potential station for park rangers; possible combination of building use as a center with use for equipment storage.

9. *Amenities for Passive Use*

Increase of benches and picnic tables in selected places.

10. *Sculpture and Memorials*

Development of a centralized place; i.e. within the proposed visitor center, to honor those who have contributed to memorial park trees; development of guidelines for any further memorialization/sculpture in the park, using the policy for accepting donated items developed by the City Arts Subcommittee of the Friends of the Parks.

Alternative Components

Alternative treatments were recommended for the following components of the park landscape and park use.

1. *The Pond*

Alt. A: Plant along the ravine, add signage to interpret the history of the site;

maintain present fountain and duckhouse; maintain paddle boats.

Alt. B: Rebuild the dam or dams, and recreate the upper pond with a mechanical water pumping system; plant along the ravine; restore the original fountain and scale down the duckhouse; re-introduce swan boats.

2. *The Path System*

Alt. A: Maintain the current path system, selectively paving those path segments that have become worn dirt paths ("desire lines"), and using closed roads as paths.

Alt. B: Pave path segments where necessary and use closed roads as paths; reconfigure some paths consistent with historic design intent to work with topography and move away from road alignments.

3. *Park Lighting and Nighttime Use*

Alt. A: Replace park lights with fixtures of appropriate turn-of-the-century design, including lights along State and High Streets; turn park lights out at 10 p.m.; maintain open vehicular entrances; continue to enforce 10 p.m. curfew.

Alt. B: Remove interior park lights, except around pond and at "Castle" for winter skating; replace lights along State and High Streets with appropriate turn-of-the-century design; close vehicular entrances with gates after dark; continue to enforce 10 p.m. curfew.

4. *Deering Oaks Family Festival*

Alt. A: Keep the same scale of event; limit structures to areas accessible by roads open to vehicles; require appropriate compensation.

Alt. B: Scale down the event, eliminating carnival rides; limit structures to areas accessible by roads open to vehicles; require appropriate compensation.

Alt. C: Remove the event from the park.

5. *Farmers Market*

Alt. A: Scale down the number of trucks within the park to fit within a curbed Interior Park Road. (To discuss: locating Farmers Market in new parking lot.)

Alt. B: Relocate Saturday Farmers Market to downtown.

6. *Bowling Green*

Alt. A: Encourage currently popular uses, i.e. croquet, bocce; provide equipment.

Alt. B: Reconfigure area: regrade with natural contours for general passive recreational use.

Appendix 4: Guidelines for Special Event Use

The following guidelines define specific areas and special event uses of Deering Oaks. Uses such as walks or runs are not included here because they are diffused throughout the park and of short-term duration.

The underlying principle that governs the following guidelines is that any activity beyond the ordinary park activity will have a negative affect on the park's physical environment. Some activities can be allowed in particular locations, provided mitigation measures are conducted and paid for by the sponsoring agency. If the city is sponsoring the event, it is responsible for mitigation measures. Mitigation measures have been spelled out below, under the section addressing the Family Festival. A subcommittee of the Friends of the Parks Commission should be established to determine the extent of intensive and diffuse use areas after special event use of the park.

For horticultural as well as visual reasons, there are very few turf areas in Deering Oaks available for events involving structures. With the exception of the athletic fields, there are tree roots throughout the lawn areas of the park.

The Bandstand and the grass area in front of the bandstand to be used for public speaking or live entertainment. It is assumed that the bandstand is restored to its original location, and the area southeast of it is gradually opened up with less trees and more lawn. It is also proposed that the bandstand will be of a character and scale in keeping with the original structure, and that temporary staging be considered to accommodate larger performances. The exact size and design of the structure will be determined during design development of the project.

A maximum of 15 events during the three-month summer season is permitted, given the currently poor condition of the grass. Chairs shall not be provided by the city or the sponsoring agency.

Half-way through the three-month period, there should be a rest period of at least four days during which the area should be aerated with four passes of an aerator, minimum 3" deep penetration.

In the fall, the area shall be treated with the specifications developed for mitigation of intensive use of soft-surface areas. Those specifications are outlined below, under the Deering Oaks Family Festival.

The Athletic Fields to be primarily used for sports play, as well as for occasional special events. After festival use, it is optimum that there be a recovery period of five and one half weeks for the grass to be re-seeded,

germinate, mowed once, and mowed a second time for turf to be ready for play. If that is not possible, three to four weeks is the minimum rest period necessary for the field to be ready for play.

The Bowling Green to be used for croquet, bocce, lawn bowling, etc., games not requiring permanent structures. The space is also to be used for passive activities such as sun bathing. No special events involving tents, platforms or other staging to be allowed for horticultural reasons, and because the 8' way is proposed to be closed to vehicles.

The Pedestrian Plazas in front of and behind the Castle building appropriate for small one-day events or vendor use of a scale appropriate to the space, to be negotiated by the city.

The Rose Circle area to be used for short-term events such as weddings, as well as other passive recreational uses such as sun bathing and visiting the garden. For visual reasons, no events to be located here that require tents, platforms or other staging.

The Deering Oaks Family Festival sponsored by the Chamber of Commerce of Greater Portland is the only multiple-day event involving placement of structures on soft-surface areas allowed in Deering Oaks. All other events involving tents are to be located in another park or at Marginal Way. The guidelines for use of the park by the Family Festival are as follows:

1. Restrict any animal, vehicle, or other item that weighs more than 500 pounds to hard surface areas or athletic fields only.
2. After the 1994 Festival, restrict Festival structures to paved areas accessible by Tennis Court Road or the Interior Park Road, keeping park areas along the southern roads proposed to be closed to visitor vehicular traffic and narrowed free of structures.
3. Distribute the concentration of people and events by moving some aspects of the event to the athletic fields, some to the festival grounds on Marginal Way or to Fitzpatrick Stadium, and some to road surfaces only. Allow only the minimum pedestrian traffic to take place on the grass.
4. Use temporary fencing to control pedestrian circulation and minimize foot traffic over certain identified areas, to protect trees and prevent degradation of slopes. Place barriers, station police, or utilize a combination of both means to prevent people from parking on the rose garden lot.
5. Treat the turf areas immediately after the Festival with lime, gypsum, fertilizer, aeration and overseeding according to the following specifications:

A. Primary areas receiving the most intensive use:

- 60 pounds per 1000 square feet (SF) of gypsum
- 50 pounds per 1000 SF of ground limestone
- 20 pounds per 1000 SF of 10/10/10 fertilizer
- 4 passes with an aerator, minimum 3" deep penetration
- Overseeding with a fescue grass mix spread at the rate of 6 pounds per 1000 SF

B. Secondary areas receiving diffuse use:

- 50 pounds per 1000SF of gypsum
- 50 pounds per 1000 SF of ground limestone
- 10 pounds per 1000 SF of 10/10/10 fertilizer
- 2 passes with an aerator, minimum 3" deep penetration
- Overseeding with a fescue grass mix at the rate of 3 pounds per 1000 SF

6. Conduct compaction tests in selected areas throughout the park before the event, after the event and after mitigation measures to determine the extent of compaction and the effectiveness of mitigation.

If mitigation does not return the park to pre-event conditions, there needs to be an assessment of the Festival and a determination of additional measures necessary to protect the park, i.e.: scaling down of the Festival; removal or relocation of Festival structures or components that concentrate foot traffic and are shown from compaction tests to degrade particular areas; further removal of heavy structures from soft surfaces.

7. The cost of mitigation shall be paid for by the sponsor of the Festival. The city has the option of allowing the sponsor to bring in its own contractor to complete work according to specifications set forth by the city. Work shall be completed to the satisfaction of the city staff.

8. After the 1994 Family Festival, the duration of the event shall be limited to four days including setup and breakdown time.

If the Family Festival ceases to be in the park, the following guidelines for use of the park for multiple-day events involving tents shall apply:

1. A total of two multiple-day events shall be allowed.
2. There shall be a rest period between events of no less than five weeks.
3. There are two locations appropriate for tents: Quinn Field and the lawn area where the bandstand is currently located. Any item that weighs more than 500 pounds shall be restricted to hard surface areas, athletic fields or the

site of the current bandstand only, with the exception of necessary maintenance, service or emergency vehicles.

4. Tents shall remain erected for a total of four days including setup and breakdown time.
5. Coverage of turf areas by tents shall be restricted to 20% of the turf area.
6. The turf areas shall be treated as detailed above in the Family Festival guidelines.

Because Quinn Field is used from mid-August for high school football practice, festival use of the field cannot occur less than three to four weeks, and preferably five and one half weeks prior to the beginning of practice, in order to allow the field to be re-seeded and the turf ready for play.

Appendix 5: Deering Oaks Family Festival Management and Policy

Overview

The development of a master plan for Deering Oaks has become an opportunity to bring to the citizens of Portland a renewed awareness of the value of parkland, a realization that plants are living, responsive organic entities that can be injured, even killed, by inappropriate actions, and the need to seek a dynamic balance between current uses of the land and a long-term responsibility to maintain this property for the future.

The function of the park is to be available for all of the people of Portland to use and enjoy in a variety of ways, from use by individuals to use by small groups. It is also legitimate for the park to serve periodically as a place for larger, publicly-sponsored special events, of which the Family Festival is one.

The following is an excerpt from Analysis and Recommendations, above. Italics highlight important passages:

From a horticultural point of view, turf should be tough enough to withstand the type of use represented by the Festival and to provide adequate protection for trees, if it is in a healthy condition and given regular maintenance, particularly adequate repair after such an event including aeration, overseeding, fertilizing of turf and trees, and tree fertilizing and pruning. The funds received from the Festival are inadequate to pay for the necessary mitigation of the damage to the park.

"The Family Festival is a publicly sponsored event and a public service. It is also an event which animates the park, invites use by many who would otherwise not use Deering Oaks, and represents an important part of the Maine recreational culture which enjoys outdoor activities during the relatively short warm months of the year. Deering Oaks, as Portland's major park, is an appropriate place in which to host such large public gatherings.

However, an event of such large proportions, occurring over so extended a time, does considerable damage to the park's environment. The clay soils of Deering Oaks are heavy and more prone to compaction than sandy soils. Tree roots in heavy clay soils are usually in the top zone of the soil, from 0"-9" in depth, and easily susceptible to damage. From a horticultural point of view, turf should be tough enough to withstand the type of use represented by the Festival and to provide adequate protection for trees, if it is in a healthy condition and given regular maintenance, particularly an adequate level of repair after such an event including aeration, overseeding, fertilizing of turf, and fertilizing and pruning of the trees. The funds received from the Festival are inadequate to pay for the necessary mitigation of the damage to the park.

The city, however, bears the major responsibility for the deteriorated condition of the park, and needs to take its fair share of the responsibility for horticultural restoration and maintenance. This responsibility includes policies that have allowed events such as the Family Festival to occur without adequate guidelines to control use, require follow-up mitigation measures and direct funds to park maintenance. The city must enforce guidelines that speak for the ecological voice of the park as well as the recreational voice. Adequate funding that is dedicated for park maintenance is necessary if the Festival is to continue. "

The appropriateness of Deering Oaks as host to the Family Festival must be measured against the ability of the park, in its present condition, to withstand such intensive use and not suffer increasing decline, which will ultimately put the future of the park as a green space at risk.

Issues

1. Maintenance and Extraordinary Use. Regular maintenance of the park is necessary to allow each individual element, and the dynamic system as a whole, to function properly and be in optimum health. Such maintenance is necessary for the healthy functioning of the organic system of an urban park, and an adequate response to ordinary park use.

It should be stressed that Deering Oaks, unfortunately, is not receiving adequate maintenance because of inadequate budgets. This means that the park's horticulture has over the years been subject to accelerated decline and less able to withstand the yearly damage caused by the Family Festival. The statement made in the site analysis summary above should be reiterated, that "adequate funding [on the part of the city] that is dedicated for park maintenance is necessary if the festival is to continue" in its present form.

Extraordinary park use—that which goes far beyond the ordinary degree or measure of use—should not be within the province of ordinary city maintenance, but be the responsibility of the sponsoring agency. Adequate compensation needs to be determined for such use.

2. Scale of Family Festival and Size of Deering Oaks. The duration of the Family Festival is one week, and it draws approximately 150,000 people. There are tents on all three promontories overlooking the athletic fields, and tents on the eastern third of the park area bounded by the Interior Park Road and Tennis Court Road. Booths line the road from the southern Deering Avenue entrance northeast to the eastern intersection of the Interior Park Road and Tennis Court Road. Carnival rides are located in the southern half of the western park edge and along Deering Avenue. A petting zoo is located on the promontory above Quinn Field closest to Deering Avenue. It features such

animals as goats, lambs, pigs (pig races were conducted last year), and an elephant.

An event of this magnitude, occurring over a week's time, does significant damage to the turf and trees of Deering Oaks. The park's 53-acre size is too small to allow for redistribution of the event from year to year, giving soft-surface areas adequate time to rest and recover. Of that 53 acres, only a small percentage is hard surface, which allows very little opportunity to locate heavy and damaging festival elements on paved areas and to protect horticultural areas.

If Deering Oaks is used yearly for the Family Festival, in its current configuration and duration, it is questionable whether the park can recover from the damage inflicted.

In addition, the attempt to mitigate damage of the park by locating carnival rides on Deering Avenue has created conflicts with the neighborhood. The close proximity of the rides to residences has brought complaints from several residents.

Guidelines from Other Urban Parks

1. The Common, Boston (48 acres). The following are excerpts from the Boston Common Management Plan:

"Carty Parade Ground (northwestern edge of Common, area without trees) is the only area of the Common where tents are permitted, provided that their location and staking method prevent damage to the roof of the underground garage. No tent should remain erected for longer than 72 hours including setup and breakdown time."

"Vehicles over 5 tons gvw (gross vehicle weight) for any program or event are not permitted."

2. Prospect Park (525 acres)

Prospect Park almost exclusively hosts one-day events only. They are held in different locations throughout the park to distribute the damage. Currently they are held on ballfields, and they are held on asphalt whenever possible. A substantial fee is charged for one-day events—\$200,000—for security, maintenance and park restoration. If there are unforeseen circumstances, such as considerable damage beyond the expected, or rain, there is an additional charge. This spring there will be a week-long event—The Big Apple Circus—which will be only allowed on asphalt. Events are never allowed in the Long Meadow, the park's premier open space, and there are no exceptions.

Proposed Management Guidelines for Extraordinary Use of Deering Oaks by the Family Festival

In an effort to stem the deterioration of the horticulture of Deering Oaks and to accommodate park use by the Family Festival, the following guidelines are proposed for discussion.

1. Restrict any animal, vehicle, or other item that weighs more than 500 pounds to hard surface areas or athletic fields only.
2. After the 1994 Festival, restrict Festival structures to paved areas able to be accessed by Tennis Court Road or the Interior Park Road, keeping park areas along the southern roads proposed to be closed to visitor vehicular traffic and narrowed free of structures.
3. Distribute the concentration of people and events by moving some aspects of the event to the athletic fields, some to the festival grounds on Marginal Way or to Fitzpatrick Stadium, and some to road surfaces only. Allow only the minimum pedestrian traffic to take place on the grass.
4. Use fencing to control pedestrian circulation and minimize foot traffic over certain identified areas, to protect trees and prevent degradation of slopes. Place barriers, station police, or utilize a combination of both means to prevent people from parking on the rose garden lot.
5. Treat the turf areas immediately after the Festival with lime, gypsum, fertilizer, aeration and overseeding according to the following specifications:

A. Primary areas receiving the most intensive use:

60 pounds per 1000 square feet (SF) of gypsum
50 pounds per 1000 SF of ground limestone
20 pounds per 1000 SF of 10/10/10 fertilizer
4 passes with an aerator, minimum 3" deep penetration
Overseeding with a fescue grass mix spread at the rate of 6 pounds per 1000 SF

B. Secondary areas receiving diffuse use:

50 pounds per 1000SF of gypsum
50 pounds per 1000 SF of ground limestone
10 pounds per 1000 SF of 10/10/10 fertilizer
2 passes with an aerator, minimum 3" deep penetration
Overseeding with a fescue grass mix at the rate of 3 pounds per 1000 SF

6. Conduct compaction tests in selected areas throughout the park before the event, after the event and after mitigation measures to determine the extent of compaction and the effectiveness of mitigation.

If mitigation does not return the park to pre-event conditions, there needs to be an assessment of the Festival and a determination of additional measures necessary to protect the park, i.e.: scaling down of the Festival; removal or relocation of Festival structures or components that concentrate foot traffic and are shown from compaction tests to degrade particular areas; further removal of heavy structures from soft surfaces.

7. The cost of mitigation shall be paid for by the sponsor of the Festival. The city has the option of allowing the sponsor to bring in its own contractor to complete work according to specifications set forth by the city. Work shall be completed to the satisfaction of city staff.

8. After the 1994 Festival, limit the duration of the event to four days including setup and breakdown time.

March 13, 2023

Chair O'Brien and members of the Historic Preservation Board:

Founded in 1964, Greater Portland Landmarks is a non-profit advocacy organization that works toward the preservation and revitalization of greater Portland's built environment. Our goal is to save greater Portland's historic places through preservation and adaptive use while promoting creative new architecture that enhances historic neighborhoods. We appreciate the opportunity to comment on projects that impact the historic character of the city.

We are writing to support the proposed pair of custom light features atop the ornamental granite piers that flank State Street at the edge of Deering Oaks Park. Not only would the park be enhanced by having light fixtures in these locations, but the proposed design appropriately evokes the form of original fixtures without appearing historic so as to confuse the viewer. We understand the proposal is for temporary lights for a few years to allow for fundraising for permanent installations that are faithful recreations of the historic lights. We feel these proposed lights are an appropriate, contemporary interim design that showcases the value of raising funds for faithful reconstructions while also proving compatible with the existing granite columns. For all these reasons, we encourage the board to send this proposal to a public hearing.

Sincerely,



C. Ian Stevenson, PhD
Director of Advocacy

HP Public Comment - Deering Oaks Master Plan Desperately Needs Updating

0 views



George Rheault <george.rheault@gmail.com>

12:00 PM (29 minutes ago)

to HHistoric Preservation, Evan Schueckler, rwi...@portlandmaine.gov, j...@portlandmaine.gov, Abigail Reed

I oppose the Pandora LaCasse make-work proposal principally because the City of Portland deserves to have an updated Deering Oaks Master Plan that reflects Portland in the 2020s rather than Portland in the early 1990s.

The 1994 Master Plan (pre-world-wide-web) is full of gaps, omissions and in many cases just wrong history. The timeline appendix is woefully inadequate (skipping from 1935 to 1980 as if nothing important happened in between). And the HP staff often repeat erroneous information and wrongly depict the park's history as a consequence of relying upon the Master Plan.

The fact that "Indians" is used repeatedly to refer to the original Native American inhabitants is reason enough to hold it at arms' length.

Rather than allowing a small group of insiders to continue to use Deering Oaks as their plaything for their pet projects (giant pinecones, wayward bird honoria and lighting project subsidies), the rest of Portland should be allowed into the conversation to both understand and examine the history of Deering Oaks as well as conceptualize new ways to integrate it into the life of the community today (including leaving behind much of its 19th origins if desired).

The Master Plan is itself a piece of history of what Portland elites were doing in the early 1990s. Unfortunately, it is badly situated to guide us forward and needs a community-wide engagement to update it and expand upon it.

**STAFF MEMORANDUM
HISTORIC PRESERVATION PROGRAM
PLANNING AND URBAN DEVELOPMENT**



TO: Chair O'Brien and Members of the Historic Preservation Board
FROM: Rob Wiener, Historic Preservation Compliance Coordinator
DATE: July 14, 2023
RE: 215 Commercial Street – PUBLIC HEARING – Amended Plans for Reapproval of an Expired Certificate of Appropriateness for Exterior Alterations
PROJECT ID: HPBR-002551-2023
MEETING: July 19, 2023

Owner: Scott Lindsay, Granite Face LLC
Architect: Mark Mueller Architects, Matt Provencal Presenting

A sign announcing the Historic Preservation Board's meeting on 6/19/2023 was posted at the property on 7/6/23. A legal ad was published in the Portland Press Herald on 7/7/23 and 7/8/23, and 31 notices were sent to neighboring property owners within 100 feet of the subject property.

PROJECT SCOPE

This application is for the reapproval of a modified scope of exterior alterations, including an inverted dormer, added windows and balconies, and changes to mechanical systems that include exterior units on secondary roofs. A more ambitious program of improvements was presented to the Board in 2019; most of those proposals were approved on December 18, 2019, but that approval has expired while pandemic-inspired economic uncertainty and construction delays postponed, and caused a reshaping of the project.

Scott Lindsay, the longtime owner, now proposes to change the use of the upper floors from offices to hotel; a change-of-use application will be submitted once Historic Preservation approval is assured. Proposed for the Board's review on July 19 are:

(Note: For clarity, staff will use "south" to describe the front façade facing Commercial Street.)

- A previously approved, inverted roof dormer on the sixth floor of the front gambrel roof; in this iteration the existing roof parapet at the masonry demising wall will be retained at the inset dormer, dividing the outdoor space in half.
- As in the 2019 approval, additional windows are to be added to the east end wall, facing Dana Street, but with a layout that has slightly changed.
- A south-facing deck with a guardrail, to be accessed from a new fifth floor door in the west wall, was approved in 2019 and is once again proposed. Also, a new window to be added at the Mezzanine level west wall is again proposed for reapproval.
- On the rear of the modern connecting section between the Granite Block and 217 Commercial Street, newly proposed, black metal balconies are shown at the second, third,

fourth floors, and the fifth floor will get a small deck on the existing roof. These new amenities were not part of the package approved in 2019.

- Several new skylights are proposed, to augment existing ones, on secondary roofs with limited or no visibility.

Several elements approved in 2019 are omitted from the current, scaled-back package:

- A rear dormer was approved to be added for the sixth floor, above the existing fifth floor dormers; the sixth-floor dormer is now eliminated, and existing fifth floor dormers will remain.
- The modern connector on the west end of the Granite Block was approved to be extended to the sixth floor, for elevator and stair access. This extension has now been cut, with internal stairs serving the units.
- Final mechanical plans are to be determined, but they will be simpler, smaller, and less visible than previously, with the large existing rooftop unit visible from Commercial Street slated for removal.

Material Specifications:

Siding	Rear of “Connector”: Grey, vertical seam, composite – Nichiha or similar
Trim	Dark metal
Roofing	Match existing
Windows	Match existing, dark metal-framed windows
Doors	Match existing, dark metal windows and doors

SUMMARY OF HISTORIC CONTEXT

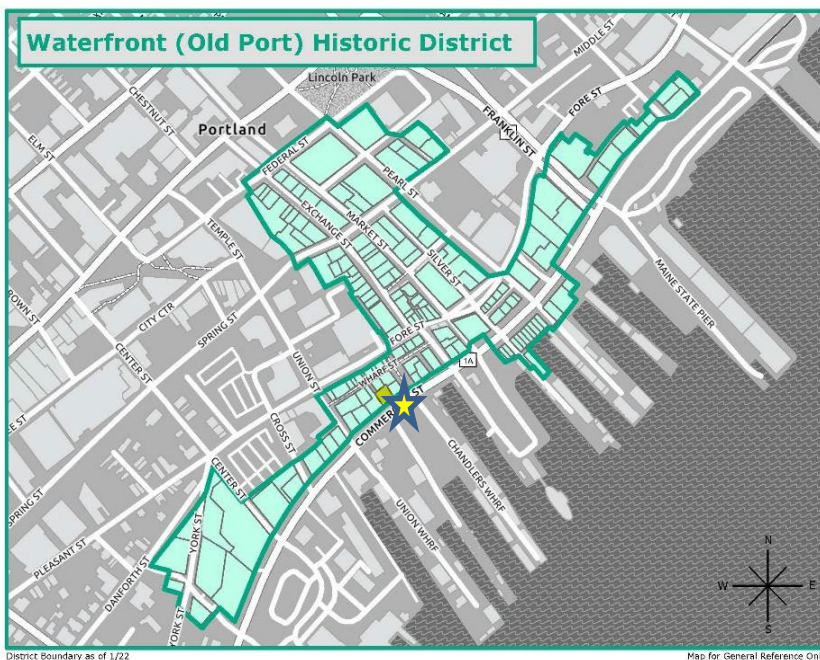


Figure 1: Map of Waterfront Historic District showing location of 215 Commercial Street



Figure # 2: Recent photo of 215 Commercial Street

The Ross and Lynch Block at 215 Commercial Street, erected in 1854, not long after the construction of the street, was known during the 19th Century as the Granite Block because of the distinctive, all granite front façade. The only other building on Commercial Street with granite as the primary exterior facing is the Workingmen’s Club at 19 Commercial. The broad gambrel roof on the Granite Block is typical of a number of commercial warehouses on the inland side of the street.

An 1866 illustration shows that four pedimented dormers were either original, or very early additions. The dormers were still present in 1924, but were removed some decades later. When Mr. Lindsay purchased the property in the early 1990’s, as the waterfront was beginning to be revitalized, it had been boarded up for several years. As revealed in the 1990 photo below, Plum Street had already been blocked by the late 20th Century addition at 215 Commercial Street. According to the 1990 building survey, this addition, sometimes referred to in this report as the “connector,” or “modern circulation core,” was inserted in the passage prior to 1963.



Figure # 3: 1924 photo of 209-211 Commercial Street



Figure # 4: 1990 photo of 209-215 Commercial Street

PREVIOUS REVIEW BY HISTORIC PRESERVATION BOARD

In 1994, Mr. Lindsay received approval from the Historic Preservation Board for a comprehensive exterior rehabilitation, including recreation of the four front dormers, two dustpan dormers on the rear roof, the addition of skylights on upper roofs, expansion of the circulation addition at 215 Commercial, and addition of windows in the brick eastern end, which was formerly solid.

More Recent Reviews:

2017: Two Board workshops, on May 3, and June 7, explored the possibilities for adding light, air, and useable floor space to the fifth and sixth floors by connecting the narrow, gabled front dormers. At that time the Board and staff agreed that the broad gambrel roof and gabled front dormers were important, character-defining features. Various alternative infill scenarios to connect the front dormers were proposed and discussed, but a majority of the Board remained skeptical that the infill could be achieved without undue interference with the roof and the dormers.

2019: Workshops on September 18, 2019 and October 16, 2019 again explored the possibility of infill between the front dormers, to benefit the fifth floor. The proposed scope also included adding a sixth-floor dormer on the rear roof, extending the circulation core in the modern section at 215 Commercial to the sixth floor, and cutting an inverted dormer into the front roof to add light to a new sixth floor.

December 4, 2019: Public Hearing (deliberation continued to the **December 18, 2019 Public Hearing**.) The Board voted to approve most of the exterior alterations proposed when the final revisions were presented on December 18, 2019:

- An inset or inverted dormer to be cut into the front roof, with the layout avoiding interference with the pitch change on the gambrel roof
- Additional windows on the east and west faces, and additional skylights on secondary roof planes
- A door in the west face leading to a small roof deck on the south side
- Extension of the modern connector (west of the original Granite Block) to the sixth floor, for elevator and stair access
- A sixth-floor dormer addition on the rear roof

With each of the four 2019 meetings, the Board discussed various scenarios for connecting the front dormers. Revisions designed to render the infill as recessive as possible and maintain the forms of the existing dormers ultimately did not convince a majority of the Board that connecting the dormers would meet the Standards for Review, particularly Standards 1, 2, and 5, and a separate vote denied the front dormer infill proposal. As noted above, the inverted dormer on the south roof was approved in 2019, as it did not interfere with either the gabled dormers or the gambrel pitch change.

STAFF COMMENTS

The package of alterations proposed for review at the hearing on July 19, 2023 is a reduced version of the scope approved in 2019, with slight modifications to layouts, and the addition of three rear balconies and one rear roof deck on the back of the modern addition. These new rear amenities will be visible through a break in the buildings on Wharf Street (Plum Street,) but given the location and the limited visibility they should be considered acceptable interventions.

Staff believes the elimination of the rear, sixth-floor dormer; elimination of the extension of the modern circulation connector to the sixth floor; and the removal of a large, highly visible mechanical unit all lessen the interference of the proposed work with the appearance and character of the historic resource. The Historic Preservation Board has considered alterations to the Granite Block at a number of meetings over the past six years, working with the owner and designers to arrive at sensitive additions that would not inordinately alter the historic character and meet the Standards for Review of Alterations, while enabling compatible modern uses. For the proposals to be presented on July 19, most of which have been previously approved, staff is comfortable recommending approval.

ANALYSIS OF APPLICABLE REVIEW STANDARDS

Standards for Review of Alterations, 17.8.2:

Standard 1	
Every reasonable effort shall be made to provide a compatible use for a property which requires minimal alteration to the character defining features of the structure, object, or site and its environment or to use a property for its originally intended purpose.	
Standard Met?	Staff Comments
Yes	Considerable effort has gone into finding economically viable modern uses, and providing the desired amenities with minimal impact on the historic form of the building. The inverted dormer will be somewhat visible on the south roof, but the visibility and disruption are an acceptable outcome.

Standard 2	
The distinguishing original qualities or character of a structure, object, or site and its environment shall not be destroyed. The removal or alteration of any historic material or distinctive architectural features should be avoided when possible.	
Standard Met?	Staff Comments
Yes	In 2019 the Board insisted that the inverted dormer should be configured so that the line of the gambrel pitch change would be left untouched. Otherwise, the proposed work should not dramatically affect existing historic fabric.

Standard 3	
All sites, structures, and objects shall be recognized as products of their own time, place, and use. Alterations that have no historical basis or create a false sense of historical development, such as adding conjectural features or elements from other properties, shall be discouraged.	
Standard Met?	Staff Comments
Yes	Visible additions are to use contemporary components, and will be clearly of modern origin.

Standard 5	
Distinctive features, finishes, and construction techniques or examples of skilled craftsmanship which characterize a structure, object, or site shall be treated with sensitivity.	
Standard Met?	Staff Comments
Yes, with condition	Masonry work being subjected to staff review is a recommended condition of approval.

Standard 9	
Contemporary design for alterations and additions to existing properties shall not be discouraged when such alterations and additions do not destroy significant cultural, historical, architectural, or archaeological materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the size, scale, color, material, and character of the property, neighborhood or environment.	
Standard Met?	Staff Comments
Yes	New interventions using modern materials will be compatible and recessive, and recognizable as contemporary, not pseudo-historic.

Standard 10	
Wherever possible, new additions or alterations to structures and objects shall be undertaken in such a manner that, if such additions or alterations were to be removed in the future, the essential form and integrity of the historic property would be unimpaired.	
Standard Met?	Staff Comments
Yes	New windows, door, inverted dormer, and balconies could be reversed.

MOTION FOR CONSIDERATION

I move to CONDITIONALLY APPROVE application HPBR-002551-2023 for exterior alterations at 215 Commercial Street on the basis of submitted documentation, plans, and specifications; information provided in the staff memo; and findings by the Historic Preservation Board that the project meets Standards for Review of Alterations 17.8.2-# 1, 2, 3, 5, 9, and 10, with the following condition:

- 1) Prior to start of masonry work, information about methods and materials to be used will be submitted to HP staff for review and approval. Site review of mortar and brick may be required.

ATTACHMENTS

1. Architect's cover letter and project description
2. Drawings, photos, and renderings

Date: May 30, 2023

Project Narrative

RE: The Granite Block
215 Commercial Street
Portland, Maine

Dear Chair and Board Members,

The intent of the project submitted to your board today is to renew the previously approved application from January of 2020 with minor updates. Since the approval, the project has been on a temporary hold given the recent pandemic and economy. The owner is now in a position, with a revised project of converting the existing office spaces into hotel units, to continue to move forward with renovations and building upgrades within this re-application.

The Granite Block with its entire granite façade, atypical for Commercial Street, has strong vertical column elements and mercantile fenestration at the base and sidewalk. The punched double hung windows above are symmetrical about the lower level, four gable dormers on the roof complete the façade. Of note, the dormers referred to were replaced-in-kind by the current owner around 1994 based on historic tax photos during a full building restoration. Originally the building was a mercantile store and warehouse owned by Percival P. Baxter, Governor and founder of Baxter State Park. The building has been known as the Ross Lynch Block and was built in 1854.

The project outline and modifications are as follows:

- Sixth floor inverted roof dormer remains (previously approved), with the existing masonry center demising wall to remain (removed in previous application).
- The previously designed fifth floor Nantucket dormers have been removed (not approved).
- The sixth-floor stair and elevator extension has been removed (previously approved).
- Rear sixth floor dormer addition has been removed (previously approved).
- Additional windows remain at the Mezzanine level along the Dana Street elevation; however, we propose a slight adjustment on the composition since the previous approval.
- New mechanical systems and their relocation has yet to be designed, but will be a part of the project and significantly less of an impact than the existing units (previously approved).
- Fifth floor deck and guardrail atop the existing roof to remain (previously approved).
- Custom deck & guardrail systems at second, third and fourth floors at the rear elevation of the 'connector' portion of the building (newly proposed).



- South Elevation (facing building connector): New door onto existing 5th floor roof deck and new window at Mezzanine level remain proposed (previously approved).

Our application provides a new building use that preserves the history and architectural character of Commercial Street.

Thank you for your review and consideration.

Sincerely,

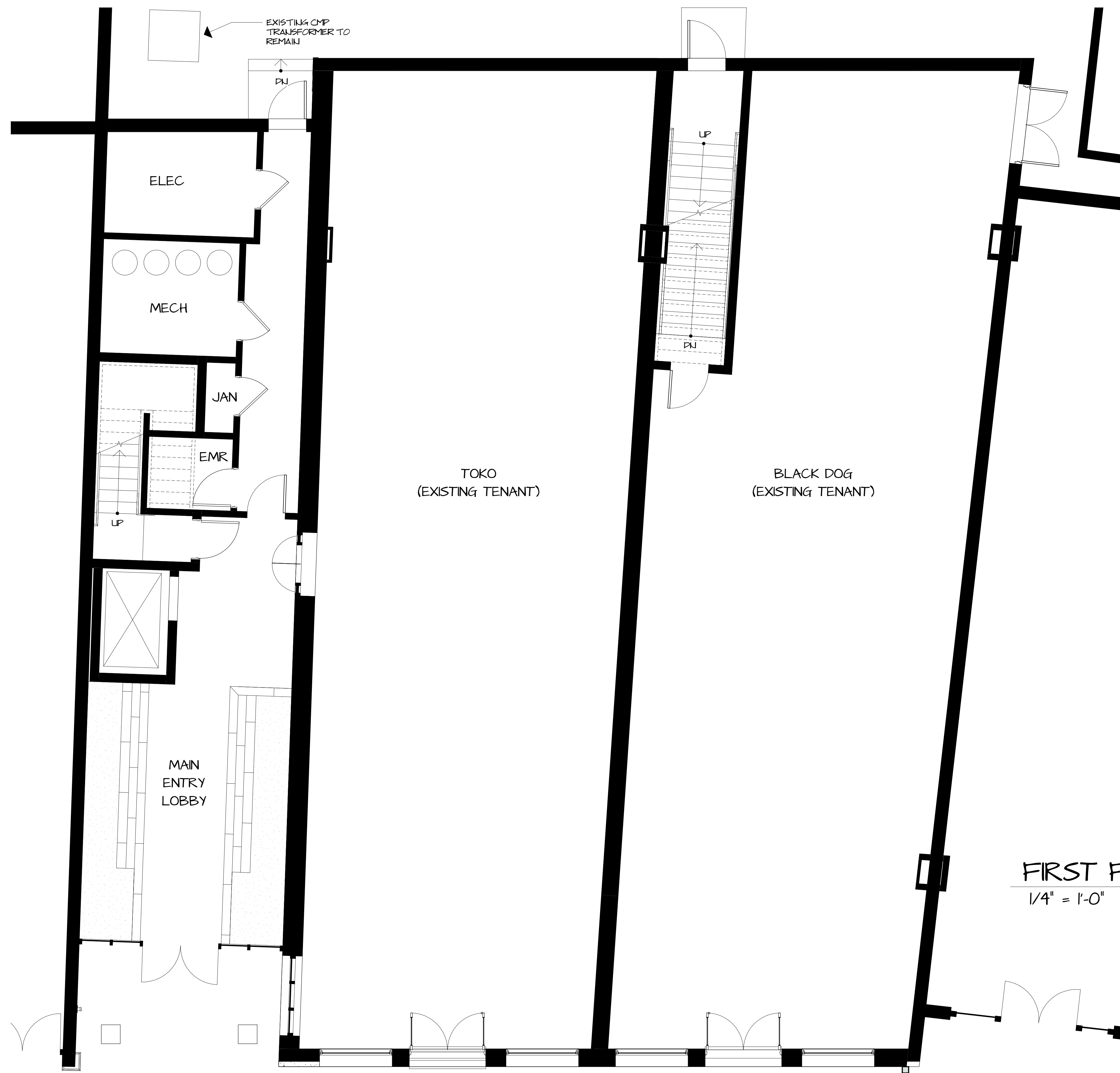
Matt Provencal, Assoc. AIA
Architectural Designer
Mark Mueller Architects



THE ROSS LYNCH HOTEL AT GRANITE BLOCK



T-0



FIRST FLOOR

1/4" = 1'-0"

HP-1.0

NEW PREFABRICATED DECK
SYSTEM, TYP. FASTEN
THROUGH NEW FACADE
INTO EXISTING CMU WALL

EXISTING DUCT TO REMAIN
FROM 217 COMMERCIAL

NEW SLIDING DOOR
SYSTEM, TYP.

EXISTING STAIR TO REMAIN

EXISTING ELEVATOR TO
REMAIN



(4) NEW
HOTEL UNITS
THIS FLOOR

SECOND FLOOR
1/4" = 1'-0"

HP-1.1

05/30/23

HISTORICAL PRESERVATION RE-APPLICATION

THE GRANITE BLOCK

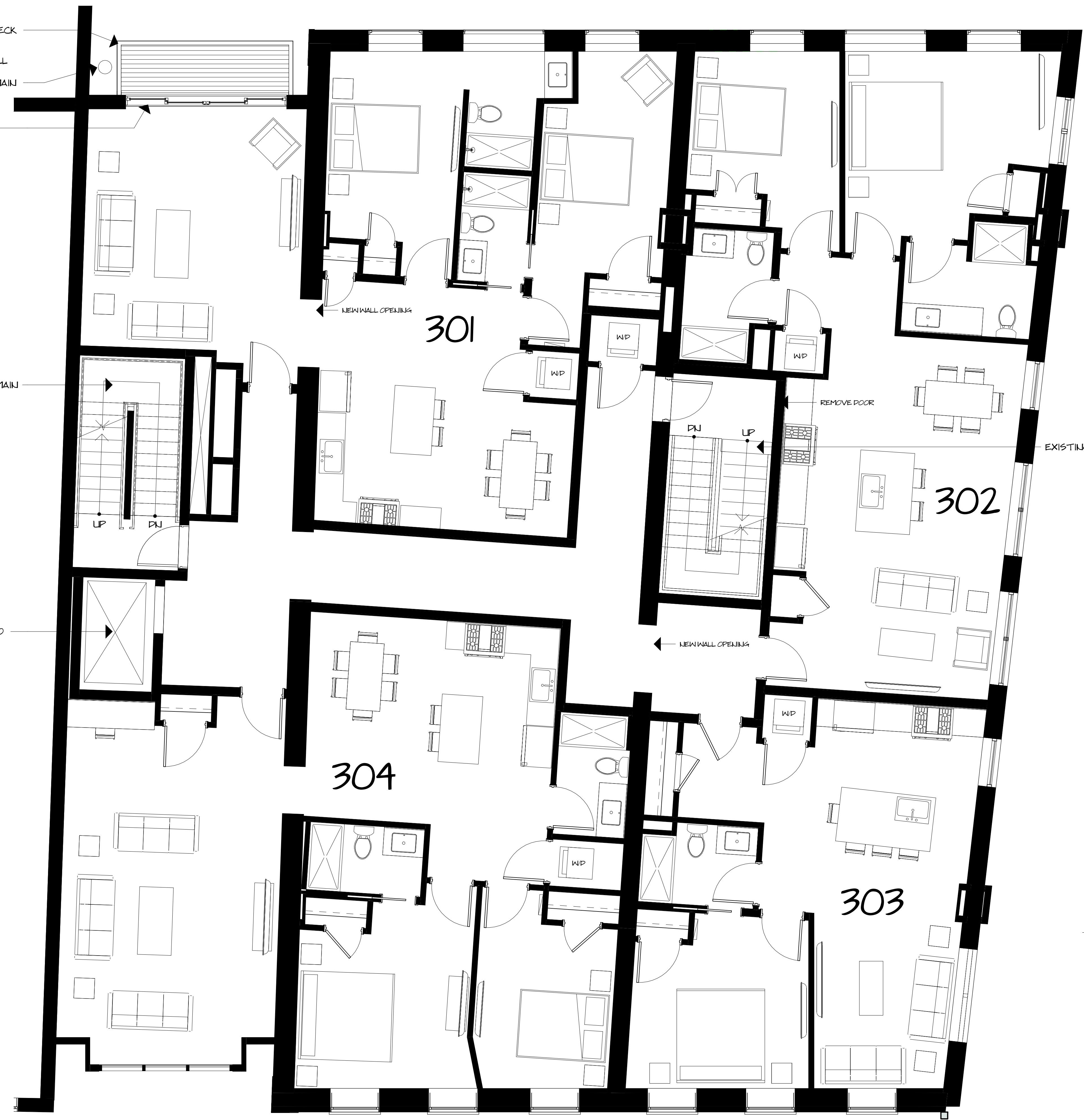
NEW PREFABRICATED DECK
SYSTEM, TYP. FASTEN
THROUGH NEW FACADE
INTO EXISTING CMU WALL

EXISTING DUCT TO REMAIN
FROM 217 COMMERCIAL

NEW SLIDING DOOR
SYSTEM, TYP.

EXISTING STAIR TO REMAIN

EXISTING ELEVATOR TO
REMAIN



(4) NEW
HOTEL UNITS
THIS FLOOR

THIRD FLOOR
1/4" = 1'-0"

HP-1.2

05/30/23

HISTORICAL PRESERVATION RE-APPLICATION

THE GRANITE BLOCK



NEW PREFABRICATED DECK
SYSTEM, TYP. FASTEN
THROUGH NEW FACADE
INTO EXISTING CMU WALL

EXISTING DUCT TO REMAIN
FROM 217 COMMERCIAL

NEW SLIDING DOOR
SYSTEM, TYP.

EXISTING STAIR TO REMAIN

EXISTING ELEVATOR TO
REMAIN

EXISTING DECK TO REMAIN



(4) NEW
HOTEL UNITS
THIS FLOOR

FOURTH FLOOR
1/4" = 1'-0"

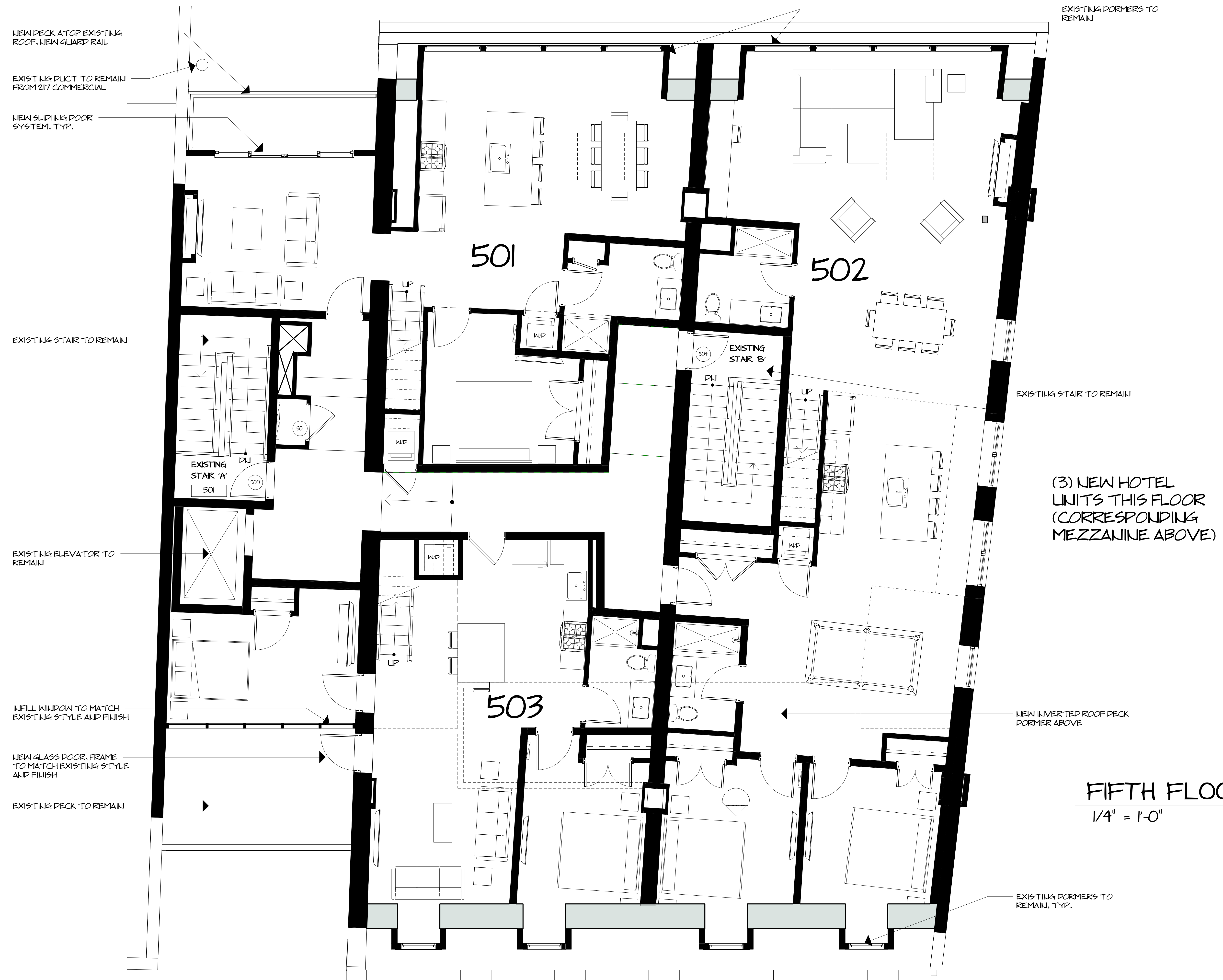
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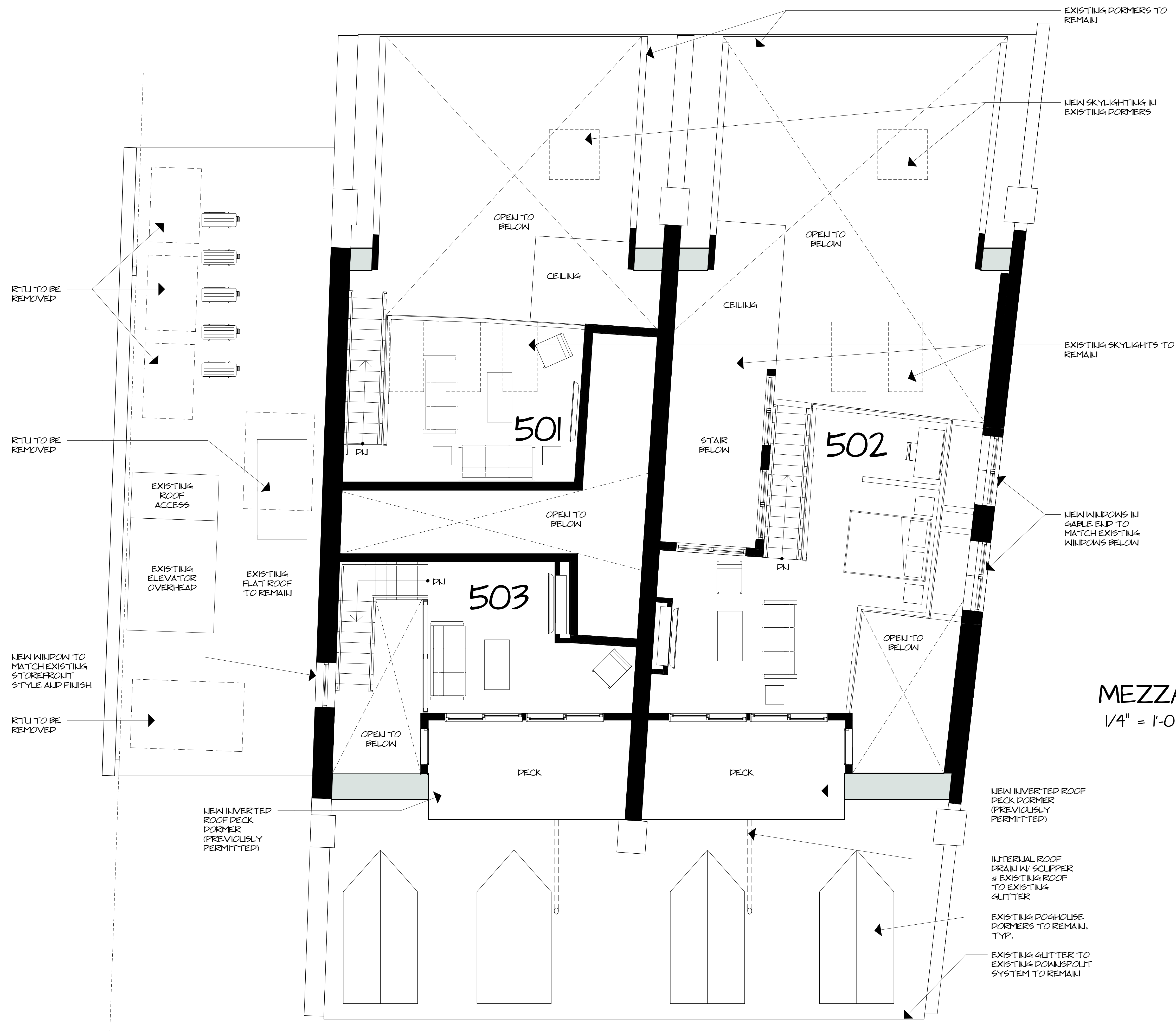
05/30/23

HISTORICAL PRESERVATION RE-APPLICATION

THE GRANITE BLOCK







MEZZANINE
1/4" = 1'-0"

HP-1.5

05/30/23



HISTORICAL PRESERVATION RE-APPLICATION

THE GRANITE BLOCK



ROOF PLAN

1/4" = 1'-0"



COMMERCIAL ST ELEVATION

1/4" = 1'-0"

HP-2.0

05/30/23

HISTORICAL PRESERVATION RE-APPLICATION

THE GRANITE BLOCK



DANA ST ELEVATION
1/4" = 1'-0"

HP-2.1

05/30/23



WHARF ST ELEVATION

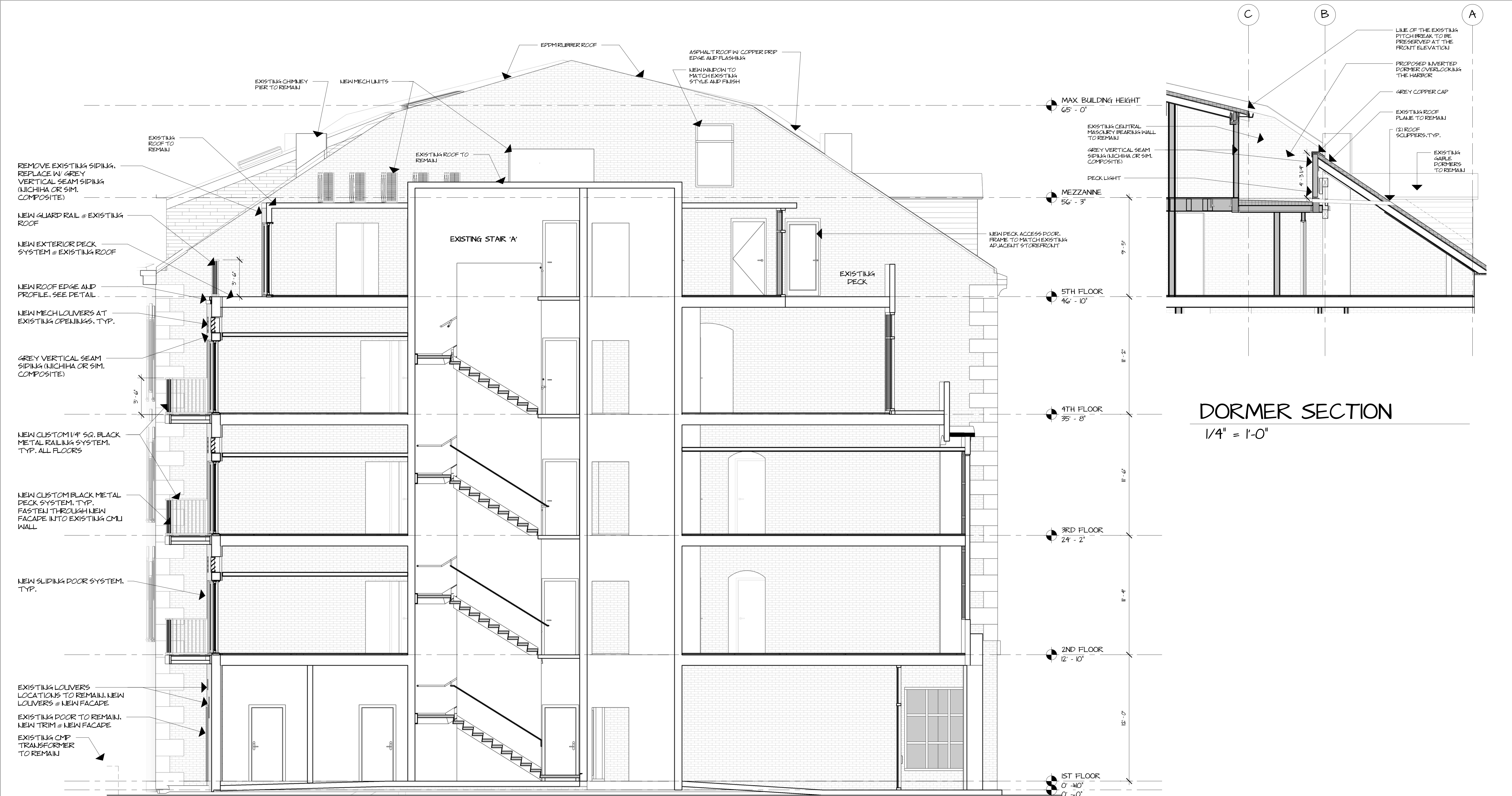
1/4" = 1'-0"

HP-2.2

05/30/23

HISTORICAL PRESERVATION RE-APPLICATION

THE GRANITE BLOCK



BUILDING SECTION @ 215 COMMERCIAL ST. CONNECTOR
1/4" = 1'-0"

DORMER SECTION
1/4" = 1'-0"

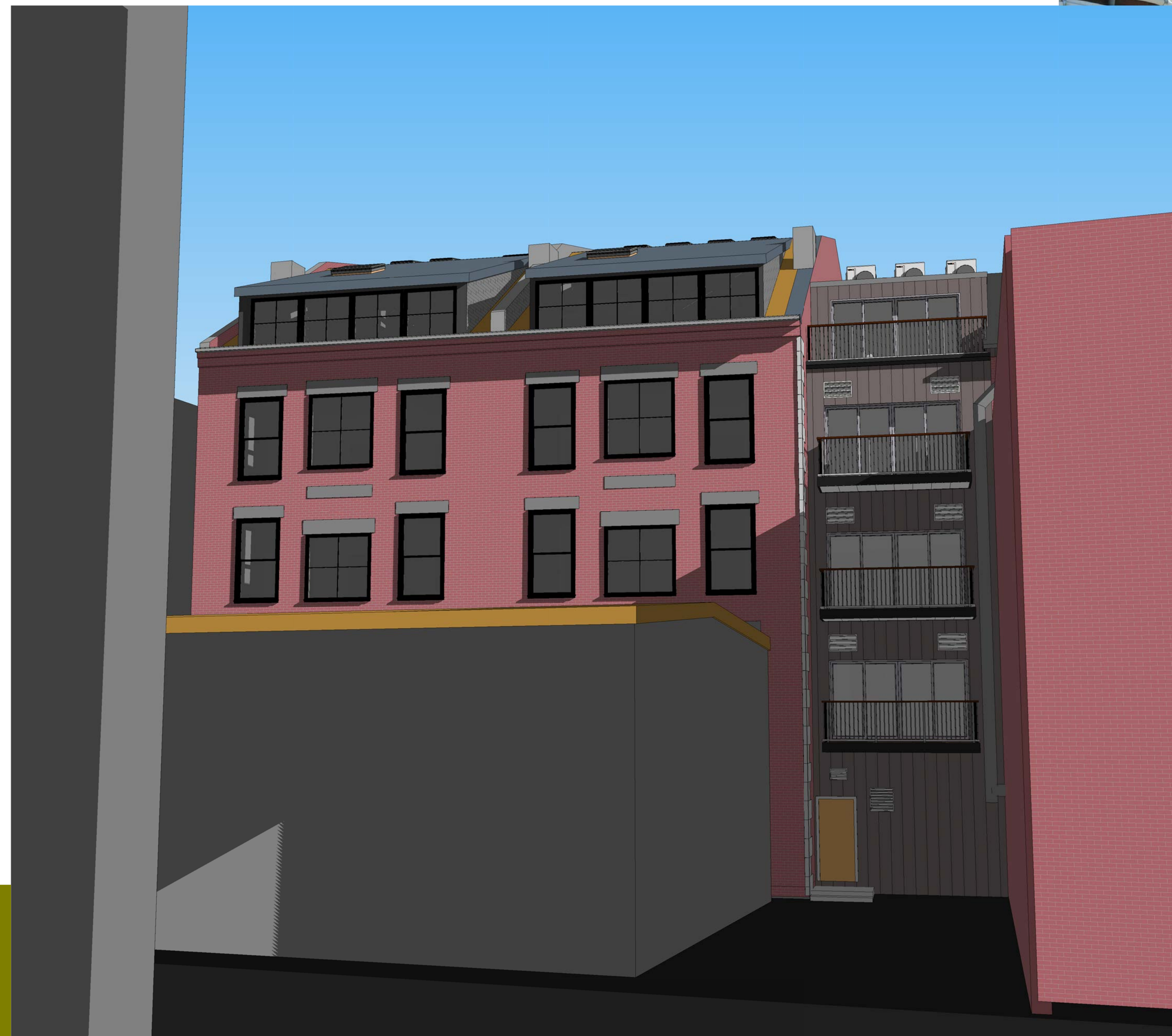














215

217





NO PARKING
ANY TIME
PAY TO PARK
1 HOUR - \$5
2 HOURS - \$10
7115

SHIPWRECK & CARGO
MARINE GIFTS & Nautical Decor

SHIPWRECK & CARGO
MARINE GIFTS & Nautical Decor

ELEVATION

100% ORGANIC

