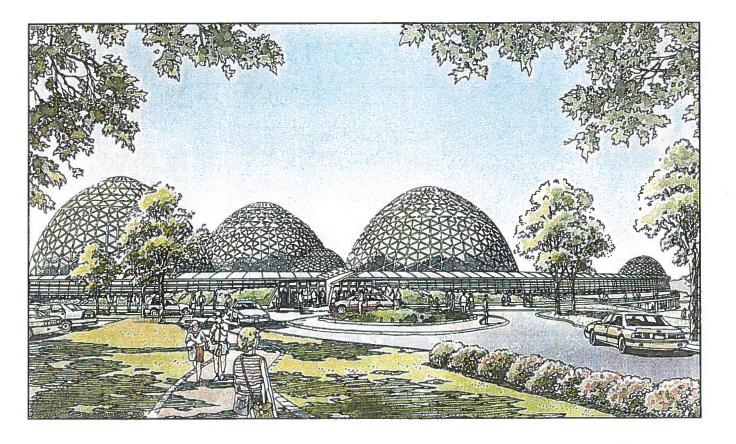
MASTER PLAN

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MITCHELL PARK & HORTICULTURAL CONSERVATORY MILWAUKEE COUNTY DEPARTMENT OF PARKS, RECREATION AND CULTURE



EngbergAnderson





November 10, 2000

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• Executive Summary

EXECUTIVE SUMMARY

This Master Plan has been developed at the request of Milwaukee County Department of Parks and the Department of Public Works to assess the assets and liabilities of this special property which has both local and regional significance. Mitchell Park serves one of the most populous neighborhoods in the City of Milwaukee with its park amenities of play fields, lagoon, amphitheater, picnic areas, and tot lot with splash pool. It also serves the region as the site of the Mitchell Park Domes, the area's most diverse botanical collection and seasonal floral display site in the State of Wisconsin.

Planning Issues

There are two separate worlds within the same parcel of land; the park and the conservatory. One of the main objectives of the Master Plan is to propose successful merging of these two activity centers. Another objective is to develop strategies and phased-in physical improvements to encourage visitors to stay longer, spend more money, and to experience the park as a whole. Currently the average stay per visitor at the Domes is a little over an hour and there is limited merchandise for them to buy in the limited space at the gift shop. Visitors are not encouraged to roam the rest of the park because there are no obvious connections between the conservatory and grounds.

On the other hand, there is little incentive for neighborhood park visitors to see the Domes as a destination because its displays and programs seldom change and they cost money.

Objectives

The Master Plan has been developed from a new program based on visitor attendance records, extensive questionnaires filled out by visitors and neighborhood residents, advice of consultants who plan or operate similar facilities, and from the staff and administration of the Parks Department and County Administration. The objectives listed below represent the key program elements dealt with in the plan:

> 1. Develop recommendations that when implemented will stabilize the existing park amenities.

> 2. Develop a strategy to enhance and merge the amenities of this unique park and the conservato ry for both the neighborhood and the region.

3. Develop additional Public and Staff spaces to ensure the long-term viability of the Community

Educational Programs, and Resources.

4. Create phased revenue-generating amenities to increase the overall use and revenue-generating potential of the facilities.

5. Design an enhanced amenities expansion plan that will successfully blend inside and outside activities at the "Domes" which encourage visitors to stay longer.

6. Plan for the eventual "self sufficiency" of the facility to propagate plant species for each dome's collection.

7. Provide a scheduled implementation strategy for deffered maintenance of the parkland and park buildings.

8. Develop an estimate of probable cost for the phased project development taking into account inflation and contingencies.

The Plan

The phased Master Plan for Mitchell Park is seen as a series of priority developments which begin with deffered maintenance issues and end with the completion of several Capital Improvements projects designed to tie the park together as a whole and make it more attractive to the many existing and potential user groups. The phased plan will take place over a seven year period with major improvements put in place in each of the years between 2001 and 2007.

Components of the Master Plan have been prioritized as follows:

1. Critical Maintenance Projects- roadways, paths, lighting, roofs, glass replacement, security issues, etc.

2. Scheduled Maintenance Projects- dome reglazing, mechanical replacements, roofs, roads and paths, parking areas, access issues, etc.

3. Required Facility Upgrade Projects- pavilion improvements, mechanical equipment replacements, additional access issues, etc.

4. Planned Additional Program Area Projects- new structures at Domes including public meeting space, research library, centralized administration, public event areas,

Part I • Executive Summary

MITCHELL PARK FINAL REPORT

larger gift shop, enhanced dining area, planned storage, propagation house, labs., etc.

5. Planned Revenue Enhancement Projects- new controlled garden adjacent to expanded Domes, completion of interior specialty areas, etc.

6. Planned Functionality Enhancement Projects- completion of all new interior spaces, Domes maintenance program, fine tuning, greenhouse implementation.

7. Planned Aesthetic Enhancement Projects- completion of gardens, tree plantings, new flower and plant material exhibits.

Please see Section 5 of this report and the accompanying drawings for more detail.

Estimate of Probable Cost

The entire Phased Development is estimated to cost approximately \$26,979,000 over the seven-year period from 2001-2007. This figure assumes contingency and escalation as part of the long-term cost. This figure does not include the cost of the long term glazing "replacement and maintenance" money for the Domes. See spread sheets in Appendix B for more detail.

Conclusion

When the plans set forth in this Master Planning document are implemented as scheduled, we believe that Mitchell Park will once more become one of the premier parks in The Milwaukee County Park System. The park will be come a more compelling regional attractions for residents and visitors alike. What is now unique and underdeveloped will become an extraordinary educational landmark for the long-term benefit of all the people for years to come.



Milwaukee County Dept. of Parks

• Overview and Study Process

- History of Conservatory and Park
- Conservatory Mission Statement

OVERVIEW/EXISTING CONDITIONS

INTRODUCTION

Overview/Existing Conditions

In 1998 the Milwaukee County Department of Parks along with the Department of Public Works awarded the Engberg Anderson Design Partnership/Buettner and Associates team a commission to develop a Master Plan for Mitchell Park and the Mitchell Park Horticultural Conservatory. Several factors were to be taken into consideration:

> 1. The main regional attraction at Mitchell Park is the group of Conservatory Buildings collectively known as The Mitchell Park Domes. Few people beyond the immediate neighborhoods are aware of the compact but potentially beautiful park amenities surrounding the immediate area of the Domes.

> 2. The majority of the park's acreage is used pri marily by the neighborhood resident population, which is largely Hispanic. This population group utilizes the several play fields, the areas around the lagoon and its pavilion, the tot play areas, and the amphitheater areas, but does not seem to be a significant part of the user base for the Domes.

> 3. Most of the visitors to the Domes come from outside the area and stay for a period of about an hour to an hour and one half. There is nothing to keep them there longer.

4. The user population of the Domes has been in steady decline since 1988. Based on admission data supplied to the Study Team, total admissions (including paid, discounted paid and free admission categories) have declined from 374,166 in 1988 to 200,242 in 1999. This decline of 173,924 admissions (46.5% over 10 years) has been relatively constant year by year over the time period, which is a 4.65% annualized average decline. There are numerous reasons for this chief among them being that the collections remain much the same year to year with the exception of the Show Dome that feature changing seasonal exhibits throughout the year. On the other hand, the other amenities in the park are coming under ever increasing pressure from the neighboring commu nity that is among the most densely populated in the City of Milwaukee.

5. Although there are private events staged at the Domes, the facilities are lacking in many of the basic amenities necessary to insure growth in use and popularity of the facility. Alternatively, the community's use of the Lagoon Pavilion is quite high even though the facilities at the Pavilion are minimal and shared with staff facilities.

6. Improvements in lighting and parking have extended the use of the park for evening events such as athletic events and community musical entertainment at the amphitheater.

7. Taken as a whole, the park's infrastructure of utilities, roadways, and buildings are substandard compared to many other Milwaukee County Park facilities that have been greatly improved over the last several years. Elements of the original plan can be found, but remain in a changed condition; the Sunken Garden (which has been filled with soil) to the south of the Domes area is a good example. Other elements of the Domes are no longer in use, including the fountains and pools at the entrance area to the Domes which are in disuse and present an undesirable image.

8. All the park's physical structures appear to be period pieces and in need of updating and physical attention. Beneath the surface of the public face of the Domes, lie serious code and infrastructural problems with basic building systems. Only the Domes themselves, among all the improvements on the site give the impression of being timeless. However, as this report will show, many improvements are mandatory if the Domes are to survive over time to provide the expected level of amenity, education, and entertainment envisioned when the original buildings were razed in the 1950s.

OVERVIEW/PROJECT GOALS

Overview/Project Goals

In general, the project goals are to establish a Master Plan which will define, schedule, and cost out a series of improvements necessary to allow Mitchell Park to reach its full potential as neighborhood and Regional amenity. The Master Plan will define the improvements, both Remedial and Capital that are required to reach the project Goals. The following project Goals are the basis for recommendations that follow in the pages of this report:

> 1. Develop recommendations that when implemented will stabilize the existing park amenities.

2. Develop a plan to enhance and make accessible the many amenities of this unique park property for both the neighborhood and the region.

3. Develop additional Public and Staff spaces to ensure the long-term viability Community Educational Programs and Resources.

4. Create new revenue-generating amenities to increase the overall use potential of the facilities.

5. Design an enhanced amenities expansion plan that will successfully blend inside and outside activities at the "Domes" creating more user options.

6. Plan for the eventual "self sufficiency" of the facility to propagate plant species for each dome's collection.

7. Provide a scheduled implementation strategy for deffered maintenance of the parkland and park buildings.

8. Develop an estimate of probable cost for the phased project development taking into account inflation and contingencies.

It is the intent of this Master Plan Study to describe in words, images, and numbers how the above goals for the project can be accomplished. In addition, this plan will provide various appendices that describe in detail portions of the data used to develop the approach, the building program, and the overall rational for this Master Plan.

This Master Plan contains recommendations for both remedial work and new capital improvements work. Both will be phased into a logical implementation strategy developed by the entire team. Recommended phased remedial work related to existing facilities is based on detailed architectural, structural, and mechanical analysis of buildings and grounds. New Capital Improvements work recommended is based an assessment of needs developed by the entire project Team of County staff and professional consultants working together to form consensus.

Study Process

The team's recommendations are based on gathering information from Parks Department staff regarding user data and maintenance, user questionnaires, neighborhood interviews, feasibility reports, engineering data, and numerous planning sessions with Parks Department staff and outside consultants, and finally several review sessions with the County Executive and members of the Milwaukee County Board of Supervisors. This process has taken place over the last year and one half, and it is expected that the work will be budgeted in phases and completed over the next seven years with completion in the year 2007.

It is proposed that Milwaukee County and private sector corporations and individuals jointly fund this project. Hence fund raising as well as community consciousness raising will be required to reach the goals for the project.

MITCHELL PARK

History of Conservatory and Park

In 1889 the Board of Park Commissioners of Milwaukee was established and selected six sites in the City "so located as to afford accommodation to the greatest possible number and still adhere to the general scheme of having a chain of parks around the city connected by handsome boulevards." Mitchell Park was one of those six sites selected. The public parks movement, at the end of the nineteenth century, both in Europe and the United States gave expression to the social goals of improving health and moral values, providing free recreational opportunities for all, and demonstrating civic pride and public wealth. The commission, familiar with the concept of "lungs of the city" and its European precedents cited this as a model for Milwaukee to create its own "healthy breathing spots".

The movement also reflected the desire to provide places of recreation and shared social and cultural activities for the neighborhoods. In the past century, Mitchell Park has grown and developed into one of the most highly used recreational areas within the Milwaukee County Park System. Social interaction through concerts, festivals, ethnic events and recreation, both active and passive serve to promote neighborhood pride and unity. Mitchell Park remains one of the only significant neighborhood green spaces on Milwaukee's near south side. Its renaissance can help provide incentive for the redevelopment of the surrounding community.

In 1898 construction began on the impressive Conservatory building designed by the local architectural firm of H. C. Koch. The glass and iron Conservatory structure was built on the West Side of the park and included a formally planted sunken garden to the south of the building. This structure exhibited flowers in a "greenhouse" setting and served the public until 1955 when it was determined to be unsafe and impractical to repair.

The current glass and concrete Conservatory was designed in 1959 by Milwaukee architect Donald Grieb and built between 1959 and 1967. The conservatory or "The Domes" as it is affectionately known is comprised of three public viewing domes (The Show Dome, The Arid Dome and The Tropical Dome). Each dome has distinct climate and exhibits plants in their different naturalistic settings. The design of the domes was innovative at the time due to its unique parabolic "beehive" shaped concrete structure, which supports the individual glass pieces that comprise the domes' outside surface. Each dome is 140 feet in diameter at the base and 85 feet high and contains' 15,000 square feet of plant display. Construction began in 1959 and proceeded in stages. This allowed for the building to be paid for in yearly appropriations, thus avoiding the cost of bonding. The total cost when completed in 1967 was \$4.5 million.



CONSERVATORY MISSION STATEMENT

Conservatory Mission Statement

Within Three unique envrionments under glass, the Conservatory:

- Enables its visitors to re-connect with Nature through interactions with five changing floral shows each year and living exhibits of the Earth's tropical rainforests and deserts.
- Provides visitors and students educational opportunities with living exotic plants found nowhere else in Wisconsin.
- Provides specialized horticultural and botanical information for the public.
- Protects certain rare and endangered plant species from around the world.
- Serves as an important tourist destination for Milwaukee area visitors.
- Serves as a cultural resource through its concerts and art displays.

- Overview
- Design Process
- Conceptual Design Issues
 - Entry and Parking Diagram
 - Environmental Garden
 - Pavilion and Pond
 - Recreation Fields
 - General Grounds and Picnic Areas
 - Paths and Lighting
 - Tot Play and Water Jet Area
- Conclusion
- Projected Project Costs
- Conceptual Diagrams and Existing Conditions

MITCHELL PARK

Milwaukee County Dept. of Parks

OVERVIEW/DESIGN PROCESS

OVERVIEW

This Master Plan is a conceptual document, which illustrates a vision for the site's potential. It represents a vehicle for focusing and coordinating efforts for future growth and development. It is not a detailed design, but rather a layout of ultimately desirable elements, their linkages, and support. It has been produced to provide for the implementation of a cohesive strategy for the Park and Conservatory over time. The Master Plan should be consulted frequently to facilitate the following:

Individual Park Area Design Construction Phasing Planting Palettes Maintenance Procedures Infrastructure Change Staffing and Training Educational Programming Fundraising

DESIGN PROCESS

Two main concepts need to be maintained to guide the development of the park to avoid the pitfalls of mediocrity and of monotony:

Each distinct park area should have distinct themes, with different environmental considerations, appropriate planting palettes, recreational uses, material selection, and construction details, while maintaining an overall unity to the park.

Educational messages should be clear, concisely delivered, and distinctive for each environmental area.

The Plan should be reviewed periodically and modified whenever changing opportunities and emerging needs present themselves. As a flexible tool, the Master Plan should enable development decisions to be made with an overall vision and also to determine if short-term decisions are consistent with the long-term context.

Design and implementation planning for any project follows a logical progression of development. Listed below are a series of steps followed during this portion of the planning process:

<u>Analysis</u>: Site documentation including site photographs, adjacent land use influences, natural features, and other physical conditions were compiled to analyze the site. Together with this base information, additional property surveys, aerial photos and topographical maps were used to prepared base maps. <u>Conceptual Design</u>: A preliminary concept drawing illuminates a vision for the total design and locates program elements. The required program elements have been developed based upon input from you, the client as well as other consultants involved in the planning process.

Information Meetings: Many meetings were held to coordinate the efforts and direction of the design team and the staff.

<u>Budgets</u>: Preliminary budgets were determined based on the Master Plan drawings to help determine realistic development scenarios and phasing.

<u>Master Plan</u>: The Master Plan is <u>not</u> intended as a construction document. It is a vision of Mitchell Park's future facilities and a road map for future development potential.

<u>Phasing Strategies</u>: A master landscape plan coordinated with the conservatory building strategies can be implemented over time based on logical and cost efficient phases; infrastructure first, followed by "hardscape", woody plant materials, floral elements, and lastly, accessories.

<u>Master Plan Report</u>: This document concludes the current scope of services for the design team and is an excellent tool for all future planning, fundraising, budgeting and implementation.

MITCHELL PARK

CONCEPTUAL DESIGN ISSUES

The American Garden

This garden will feature the plants and culture of Native Americans. Squash, beans and corn, the "Three Sisters" that the Indians planted together for support and weed control will be displayed. The diet of Native Americans can be compared with modern American diets.

Potential Donors:

Native American-themed businesses, local Potawatomi tribe.

The Latin Garden

Featuring the plants and culture of Latin America, this garden's design could reflect the influence of Roberto Burle Marx. This famous landscape architect is credited with starting the bold, colorful, contemporary gardening style that celebrated the native plants of his country Brazil. Roberto was indeed a multi-cultural individual who spoke Spanish, Portuguese, German, French and English fluently. He was an accomplished, musician, painter, botanist, and landscape architect.

Featured Plants: Food plants could include corn, chili peppers, potatoes, tomatoes, squash, beans, gourds, pumpkins, etc. *Floral* plants could include nicotiana, spider flower heliotrope, creeping zinnia, nasturtium, petunias, yucca, salvia, etc.

Potential Donors: Hispanic restaurants, Southwest-themed businesses.

The African Garden

Plants of ancient African and Egyptian diets include many varieties of Amaranth, a dominant grain of early civilizations, as well as common vegetables, such as yams and okra, used in contemporary African diets would be featured. Functional plants such as papyrus, which the Egyptians used to make paper, would also be included.

Many unusual plants have been domesticated from the native African species for the floral trade and for landscape use. Agapanthus, Proteas, Plectranthus, and Gerberas, considered tender bulbs or perennials in Wisconsin, could be beautifully displayed in containers.

Featured Plants:	Grape Hyacinth, amaranth, papyrus, cockscomb, castor bean, foxglove, Egyptian onions, delphinium, pen- stemon, impatiens, ice plant, gerani- ums, gazania, gerbera daisy, etc.
Potential Donors:	Heritage seed companies, and the floral trade.

The European Garden

Featuring the *plant* traditions of Europe rather than the gardening styles, which are very diverse, the rich horticultural history of Europe is represented by plants used for both food and decoration. Again, tender perennials and annuals such as rosemary, figs, and euphorphia could be dramatically displayed in containers.

- Featured Plants: Lavender, roses, veronica, daylilies, lady's mantle, valerian, daffodils, thyme, monkshood, globe thistle, cornelian-cherry dogwood, yarrows, dill, hops, etc.
- Potential Donors: Perennial growers, nurseries, plant societies, bulb growers. Jackson & Perkins and other rose growers frequently donate roses from their current catalog offerings to botanical gardens for public display.

The Asian Garden

From ancient Persia, India and China, come unique traditions in horticulture, food preservation and cooking. The ancient Persians are credited with the domestication of cucumbers and melons. The Indians have contributed the complex blending of spices to create chutneys and curries. The Chinese and Thai have always favored preparation of extremely fresh ingredients and subtle sequences of complimentary dishes.

The herbs and spices of the Orient attracted trade with other civilizations. The healthful benefits of an oriental diet and flavorful foods continue to influence modern food preparation around the world. Many mid-westerners do not recognize the Asian herbs that can be grown in their own gardens. With the long history of cultivation some of the most prized ornamental plants come from Asia.

Featured Plants:	Food plants could include bok-choi, mung beans, cucumbers, bunching onions, perilla, snow peas, etc. Ornamental plants could include astilbes, coleus, hollyhocks, hostas, tree peonies, angelica, goat's beard, poppies, yews, forsythia, Pee-gee hydrangeas, etc.
	hydrangeas, etc.

Asian Food Restaurants, Asian Food Stores, seed companies, homeopathic professionals.



Potential Donors:

CONCEPTUAL DESIGN ISSUES

CONCEPTUAL DESIGN ISSUES

The Master Plan features naturally divide into six subject areas.

- 1) Arrival and Visitor Orientation
- 2) Building Improvements
- 3) Environmental Gardens
- 4) Water Features
- 5) Environmental Garden Support
- 6) Recreational Amenities

1) Arrival and Visitor Orientation

The visitor orientation experience is composed of many things. Upon entering the park the visitor should be filled with energy, curiosity, and anticipation. At this time they are most receptive to learning. The opportunity should not be missed to expose them to:

Park etiquette (rules and regulations). Way-finding. Special features and points of interest. Plant communities and ecology.

Park etiquette should be posted adjacent to the entry drive and repeated on the side of the public rest room building over the drinking fountain.

Signage and Graphics

The use of graphic design and signage is critical to the education of visitors who use and tour the park. Sign content is usually categorized as directional or informational. Graphic design refers to the legibility and artistic quality of the sign.

Signs should be consistent throughout the grounds and buildings with regard to:

Materials Color Size Message content Placement

The intent of signage is to convey information that may educate the visitor about biology and ecology. However, too many signs can contribute to visual clutter. Signs can also be expensive to fabricate, install and maintain. The information on the signs may also become dated over time.

There is a trend in public parks to minimize the number of signs located on-site to those necessary for safety, direction and plant identification. The educational messages about fauna, flora, ecology, etc. are best conveyed with printed-paper pieces.

Brochures have the advantage of:

- Lower costs
- Limited editions
- Flexibility of information changes
- Flexibility in text, color, illustration, language
- User friendliness for example, messages tailored to specific age groups
- Ready sponsorship of printing costs often corporate sponsors will take this on
- Improved public relations visitors can take infor mation with them

Site Arrival and Parking

In the redesign for the western portion of the site, the entry off South Layton Avenue has been shifted southward from its present location. This allows for an immediate axial relationship between the visitor just entering the grounds and the triad of glass domes ahead. This linear connection continues from the site entry through the building addition and terminates on the center dome. As an organizing element, the axis orients the visitor's path the instant they enter the site. This formal piece of the site design is balanced by the less formal, picturesque topography and planting of the park and gardens. The entry road is terminated by a lushly planted roundabout that disperses the visitor either to the building's porte-cochere or to one of the conservatory's three parking lots.

The parking lots to either side of the dedicated entry drive are screened by a variety of plantings which minimizes their impact on the park, gardens and building. In addition to accommodating cars, the south lot also provides for a tour bus lay over area once their passengers have been dropped-off at the front door. A small drive from West Pierce Street remains as a secondary entry to the site, which connects the conservatory with all the parking lots.

Presently truck traffic access to the Menomonee Valley and the Canadian Pacific Rail Line is through the same entry drive as that of the conservatory. This presents a potentially hazardous and unsightly situation for visitors. A service drive is proposed just south of the Layton Avenue Bridge that would allow truck access into and out of the valley, separate from visitor access to the conservatory.



CONCEPTUAL DESIGN ISSUES

2) Building Improvements

Issues regarding building improvements are covered in Section 4.

3) The Environmental Gardens

The purpose of developing the outdoor Environmental Gardens is threefold:

To compliment and reinforce the education messages conveyed to visitors in the Conservatory.

To provide additional sources of revenue support for the Conservatory.

To provide a focus for Milwaukee to celebrate the new millennium by creating a new urban garden that involves the multi-cultural communities that reflect the diversity of our people.

The educational themes are multi-faceted and include:

The importance of plant bio-diversity for the survival of the planet, its wildlife, and its diversity of human civilizations.

The importance of balancing population with resource capacity.

The importance of environmental protection and sustainability of natural resources.

The benefits of horticulture for human health and the economy.

The diversity of cultural influences on horticulture.

The importance of water for food production and survival.

These educational messages are important for Milwaukee County residents and as well as visitors.

Cultural Garden Themes

The suggested approach is to divide the garden up into cultural themes similar to the Folk Fair to celebrate diversity and the contributions of the various cultures that are the future of Milwaukee County. However, within the scope of the Master Plan, it is not possible to develop the specific educational messages and horticultural content of each area of the Environmental Gardens.

Some of the themes for the garden areas may be:

The Courtyard Gardens

Emanating from lower level windows and terraces and rising up the slope to meet the base of the existing domes, the gardens will be viewed from the entrance passage as well as lower level areas of the building where educational facilities will be located. A theme has not been assigned to these gardens, but one may evolve from the educational uses. Plant materials should emphasize foliage color and textures and provide year round visual interest, especially during the winter months.

The Ice Age Garden

Depicting the glacial history of much of Wisconsin, a path will descend along the east side of the building where white concrete retaining walls represent walls of ice. A stark landscape of boulders, ferns, and twisted conifers suggests those elements present at that time, and signage tells the story of the Ice Age. The diversity of plant material in Wisconsin will be demonstrated not only in the evolution of plants since the Ice Age, but also through the disbursement of plants by human populations as we collect, breed and transport plants around the world

Potential Donors:

Local icehouses, refrigeration or air conditioning companies, conifer nurseries & quarries.

The Millennium Garden

While this phrase was coined as a horticultural term indicating an emerging garden style, it has profound meaning in terms of representing the ethnic origins of the Milwaukee County's citizens as they enter into this century. The garden's design celebrates unique combinations of plants, creating an attractive new style and standard of beauty. The style of this garden is very free flowing, fluid, dynamic, colorful, exciting, and imaginative. The gardens celebrate the textural differences of the hardy plant combinations throughout the seasons. As the majority of plants used are native prairie plants, this style of garden is relatively low maintenance will endure from year to year.

Featured Plants: Ornamental grasses, coneflowers, black-eyed susan, gay feather, Russian sage, daylilies, butterfly weed, beebalm, sedum, asters, coreopsis, Joe-pye weed, etc. Potential Donors:

Local nurseries and perennial growers.



CONCEPTUAL DESIGN ISSUES

World Grains Garden

Through thousands of years of domestication and cultivation, three major grains have emerged that feed the world's human population. These grains include wheat, rice and corn. Other important grains include oats, barley and millet. Today more than 70% of all cultivated land is dedicated to cereal grains. Many urban dwellers have never seen these plants that produce the food they eat. The understanding that human existence depends on a limited number of plants for the majority of food is basic to understanding the need for diversification. A diversity of plants makes the food supply less vulnerable to devastation by disease and insects. A global distribution system can insure a food supply in spite of local weather conditions and natural disasters. Political and economic stability is important for the global distribution system to function.

Featured Plants: Wild rice, ornamental corn, wheat, barley, & oats.

Potential Donors:

Cereal companies or major grain processors or distributors such as Cargill, Midas, Pillsbury, Nabisco, Kellogg, etc.

The Children's Garden

The critical age for exposing children to the wonders of gardening seems to be from age four to eight. The children's garden will feature those plants with which children quickly identify on a sensory level through taste, touch, smell, texture, form or color. They enjoy flowers with whimsical shapes like pansies and balloon flowers. Children love giant plants like tall, ornamental grasses and sunflowers that can envelop them in a green "forest" & miniature plants where they become the giants.

Many children first learn about plants, insects and animals from children's literature. Familiarity with these stories can frequently begin the interest in plants that leads to exploration and greater knowledge. - Scarlet runner beans in a <u>Jack-in-the-Bean Stalk</u> garden and prairie plants in a <u>Little</u> <u>House on the Prairie</u> garden are just two examples.

Featured Plants:

Turtlehead, hollyhocks, snapdragons, lamb's ear, sensitive plants, pole structures covered with morning glories, etc.

Potential Donors:

Plant societies, play equipment manufacturers, toy companies, day care centers.

Special Features

The Environmental Gardens must have some significant features that:

Create a unique marketable identity Create a memorable experience Provide photographic opportunities

These features will fall into two categories: Water features Art features

Art Features

Garden elements that are required to provide access and comfort in a garden are often attractive as donor items. In the Environmental Garden these comfort features could include special paving, benches and arbors. Architectural elements that may distract from the strong and unique architecture of the horticultural conservatories should be avoided.

Potential Donors: Paving manufacturers, lumberyards, and garden clubs.

The Picnic Terrace

The rental garden is provided to satisfy the need for rental space within the attractive environment created by the gardens. The rental space is specifically designed not only to be colorful but also:

To be well drained

- To accommodate a 30' x 60' tent (150- 200 guests)
- To have electrical service
- To have controlled access
- To provide a seat wall

To have attractive views of the gardens

Featured Plants:	Colorful annuals and co plantings.	ntainer
Potential Donors:	Catering businesses, garden o	centers.

Walkways

The circulation system symbolizes trade, commerce, and cross-cultural influences. The various path surfaces could include cultural symbols that represent the geographic region of each garden. A universal symbol such as a ship symbol in the walkway could represent trade and migration and indicate the division of one garden into the next.

Potential Donors:

A local industry or transportation company that has business connections around the world.

CONCEPTUAL DESIGN ISSUES

Benches

Various cultures have addressed the universal human need to sit, rest and contemplate. The benches could represent the various solutions of the cultures around the world.

Potential Donors:

Ethnic restaurants, folk and community groups in conjunction with furniture manufacturers or distributors.

Arbors

Vines play an important role in all ecosystems that demonstrate how a plant form has adapted to fill an environmental niche. Vines also have economic and ornamental value. Arbors offer a quick, cost effective solution to providing shade in a garden. Well-sited arbors are also ideal locations for placing benches and for viewing the garden.

Potential Donors: Lumber firms, wine companies and distributors.

4) Water Features

The unifying elements of the design are the flow of water and the system of connecting paths that represent commerce, trade, and cross-cultural influences.

The water features will consist of the following six elements:

The Waterfalls

Water as a unifying design element will begin at the entry to the newly expanded Conservatory building flowing in a shallow stream that mirrors the arc of the building until it reaches the depression that the Environmental Garden sits in. The water from the channel turns into a waterfall at this point and starts the sequence of water features in the garden.

The Vortex

Water from the waterfall will disappear into a whirling vortex, symbolizing rain and melting snow disappearing into aquifers and becoming part of Wisconsin's extensive ground water system. Educational information will be available to explain the importance of wetlands to water purification and aquifer recharge.

The Artisan Fountain

This represents the abundant and important water resources of Milwaukee County. The quality and healthfulness of our local water is an important resource, including the underground aquifer, and must be protected.

Potential Donor:

A local brewery that is very dependent on the water quality of underlying aquifers.

The Geologic Stream

Tumbled boulders, cobbles and rock outcroppings along the Geologic Stream will depict Wisconsin's geological progression from the time of the glaciers to present day. The stream will be designed to demonstrate how action of flowing water as it sorts out stone and rock by size from large boulders to the finest silts and clay. Rocks within the garden will also feature ancient marine fossils found within the Niagara limestone bedrock that is found under much of Wisconsin.

The Pond

This represents the importance of Wisconsin's ponds and lakes for fishing. The bank improvements should provide some hard surface areas for fishing access. Sections of the pond require some bank restoration. The southeast side would primarily be planted with cattails and rushes to encourage the already present waterfowl population. The pond's west side could be planted with a more exotic floral display of water-loving perennials such as Siberian and Flag Iris.

Potential Donors: Seafood restaurants, fish hatcheries, and aquatic plant growers.

The Rill

This channel of flowing water symbolizes Milwaukee County's river systems and the concept of irrigation. Rivers are important for commerce and recreation, while irrigation is important for increasing agricultural abundance and bringing marginal lands into cultivation.

Potential Donor: A local shipping company that depends on river, harbor, and lake conditions for local commerce.

5) Environmental Garden Support Perimeter Fence Service Area

6) Recreational Amenities

Amphitheater

The existing amphitheater is one of the finest grass bowls within the entire Milwaukee County Park System. Good lines of site, natural acoustics and large seating capacity are major assets for the park. Minor grading refinements and turf restorations are the only proposed improvements.



CONCEPTUAL DESIGN ISSUES

Stage Area

The existing Amphitheater Stage Building should be demolished due to its deteriorated condition and reconstructed to meet current and projected theatrical needs. Design elements required are "universal access", provisions for sound and lighting systems, restroom and dressing room facilities for performers and general stage areas.

Pond & Water Jet

The existing pond needs to be dredged to remove organic material, increase depth, open underground springs and improve water quality. The banks also need restoration and stabilization. The bank improvements should provide for some hard surface for fishing access. Natural boulders and native semi-aquatic vegetation should encompass the majority of the shoreline to improve water quality.

A floating fountain is proposed to improve water quality, serve as a visual focal point and add the soothing sound of splashing water. The sound of the water will enhance the restful quality of the park, by masking the surrounding noises of the city.

Pavilion

The pavilion is in need of updating. The hope is that the building can celebrates its modernist (1950's) design origins rather than apply a contrary design direction. Technical updating needs to be made to the kitchens and provision should be made for a walk-up fast food window on the east end of the building. Perhaps an outside vendor could be contracted with to provide the food service upgrading with a lease of the space. An outside vendor would provide a consistent quality food service and offer the advantages of both brand recognition and national advertising.

Pergola and Café Terrace

The pergola will provide welcome shade on the south side of the pavilion and provide a welcoming environment for the pleasures of dining at an outdoor café. In conjunction with a food vendor manager, the space would be properly managed in a safe, clean and sanitary condition. The pergola would enhance the architecture of the pavilion and provide a structural and visual connection to the lagoon.

Picnic Areas

Three main picnic areas exist at the top of the hill. Each of these areas is operated on a reservation basis. Small groups can rent them individually, or a large group can rent them all including, the adjacent picnic shelter.

Picnic Shelter

A roofed shelter is proposed to accent the hill and unify the

three picnic areas. During the winter the shelter would be used during the sledding season. Its location above the athletic fields and adjacent to the amphitheater should encourage both group reservation and/or food vendor use.

Volleyball

Existing sand courts have been installed near the hilltop picnic areas and are popular with picnickers.

Spectator and Sledding Hill

The existing hill has seriously eroded along the route used by pedestrian moving between the top of the hill and the lower athletic fields. This pathway should be evenly graded and paved. Several drainage inlets should be provided to channel runoff and prevent further erosion. The northeast-facing slope is ideal for holding snow. The addition of a snowmaking machine would enhance the snow quality for sledding. The toe of the slope needs to be re-graded to provide a more gradual transition to the flat athletic fields.

Baseball and League Soccer

An abundance of seating for spectators along this bank makes Mitchell Park very popular for league, tournament and championship play. County teams prefer to host visiting teams from around the country at Mitchell Park because of the beauty of the park. The view of the Milwaukee skyline is one of the best in the city.

The intensity of use of these fields presents some maintenance problems. Some sub-drainage improvements and installation of an irrigation system would be desirable. User fees should be increased to cover improvement and field maintenance costs.

Little League

A little league field would fit nicely into the north corner of the upper fields and may be considered if the local community residents would indeed support little league teams.

Youth Soccer and Softball

Soccer is the most popular youth sport within the surrounding community.

Soccer facilities in the park need to be expanded. Soccer field space is designated on the upper fields. It is recommended that a fence be built to surround the fields and keep loose balls from escaping.

Existing Basketball/Tennis Courts

The present baskedball and tennis courts are in poor repair and need to be completely repaved and re-striped.



Part III • Master Plan for Mitchell Park

MITCHELL PARK FINAL REPORT

CONCEPTUAL DESIGN ISSUES/CONCLUSION

Tot Play Area

The existing spray pool would be remodeled for multi-purpose, multi-functional and multi-seasonal use. This area should be enlarged and designed in a wheel pattern to unify surrounding areas. Soft surface treatments are recommended in the activity cells to improve safety. Various improvements include:

A Guardian Shelter – This structure provides seating for adults as they socialize and supervise young children. The roof provides shade and protection from the elements. The shelter is situated to allow surveillance of the entrance to the play area as well as ready access to a child at any of the play stations.

Climbing Station – This existing structure is valuable for helping children to develop muscular strength, coordination, and motor skills.

Balance Station – This station appeals to younger children as they develop balance skills. This type of play environment limits risks involved with falling.

Floral Feature - Children respond to color and flowers. A large elevated pre-cast planter is suggested to elevate the flowers to both protect the flowers as well as to present the flowers at a higher level for greater visibility and fragrance. *Creativity Station* - This area should be furnished with child scaled tables and chairs for supervised craft activities. This program utilizes the unused space under the existing roof.

Tunnel Station – A pre-cast concrete pipe is buried beneath a grassy mound to provide active exploratory play.

Swing Station – This existing structure is well-designed and should incorporated the overall design.

Sand Castle Station – This area facilitates creativity and allows for both individual and multi-age activities. Each day can present a new slate on which to play.

Spray Pool – Use of this area for water play is limited to very warm weather conditions, therefore, the existing fence should be removed to allow access to this paved area on a year around basis. Plumbing should be renovated to enhance the variety of spray effects and to eliminate standing water.

Tricycle Track – This circular track encompasses the exterior of the tot play area.

Rest Rooms – Existing facilities should be upgraded and open to the public whenever a play area supervisor is on duty.

Perimeter Fence – The perimeter fence keeps children from darting out into the nearby street and provides three limited access points, which are visible to from the guardian station.

All improvement plans should be developed in conjunction with input from the Parks Planning Division.

CONCLUSION

The development of outdoor Environmental Gardens, reflecting the ethnic diversity of Milwaukee's metropolitan area, would greatly enhance the viability and economic sustainability of the Conservatory by enhancing visitor experience, increasing attendance and generating revenues. The Environmental Gardens will also generate community pride

Themes suggested for the Environmental Gardens will compliment and reinforce the Conservatory's educational messages throughout multi-cultural story lines.

Gardening is the most universal of human activities and the most popular hobby in the United States. This project presents a unique opportunity to bring various emerging ethnic groups in the Milwaukee County into a common cooperative effort that will benefit future generations.

PROJECTED PROJECT COSTS

PROJECTED PROJECT COSTS

The Projected Project costs for implementation of the Mitchell park portions of the Master Plan are presented in Appendix B "Cost Analysis". These costs are identified as Items "C. parking Lot, Pavilion and Pond", and "D. Tot Play Area, Amphitheater, Playing Fields, Park Lighting and Plant Material."

- Overview
- Market Analysis and Revenue Generation
- Building Program
- Conceptual Design Issues
- Existing facility Analysis and Implications
- Projected Project Costs
- Conceptual Diagrams
- Building Diagrams
- Entry and Parking Diagram

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 OVERVUEV/MARKET ANALYSIS AND REVENUE GENERATION With it in The study it in regrues to the Mirasiae Case of the subsectional conservational conservation	Milwaukee County Dept. of Parks		1
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Appendices A and the foodservices recommendations Appendices B.	GENERATION	nected outdoor garden MARKET ANALYSIS AND REVENUE	
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Appendices A and the foodservices recommendations Appendices B.	and the potential	Develop a strategy to increase attendance for additional revenue generation	
Appendices A and the foodservices recommendations Appendices B.		The major goals for the project are as follo Reinforce the mission of the conservat design of the built environment.	
OVERVIEW/MARKET ANALYSIS AND REVENUE GENERATIO VIEW Idy is in response to the Milwaukee County tent of Parks' request to examine the renovation tition to the existing horticultural conservatory . Through a process that included a study of the conditions, market analysis, foodservice analysis, generation analysis, staff needs assessments and matic requirements, the design team was able to vision for the conservatory that rejuvenates the ar-old structure as a vibrant Milwaukee tourist on. In addition to once again becoming a tourist on, the conservatory with its new additions would r staff to be housed in one building with collection uses, wet labs, exhibition spaces and a propagation urther reinforcing the mission of the conservatory with the structure would also include expanded and meeting facilities, which would serve as a des- for cultural evenus generation. For the e the immediate grounds and this conservatory would be designed together so that the visitor xperience a seamless transition between parks, and outside gardens. Appendices A and the foodservices recommendations provide the structure of the conservatory would be designed together so that the visitor	on and addition is n that it is a con- ure vision for the s the input of onservatory staff, ants as a way of ents to be includ-	The Master Plan for the building renovation similar to the Master Plan for the park, in ceptual document that illustrates a future Conservatory. As such, it represente Milwaukee County Park administration, of neighborhood groups and hired consulted defining for the future the essential element ed in the project.	
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MITCHELL PARK HORTICULTURAL CONSERVATORY AND PARK FACILITIES

.

MARKET ANALYSIS EXECUTIVE SUMMARY January 25, 1999

Unkel Marketing Solutions, LLC 2239 N. Terrace Avenue Milwaukee, WI 53202 (414) 298-9910

Market Analysis Process Overview

- Reviewed local situation relative to:
 - Population,
 - Tourism,
 - Crime,
 - Philanthropy,
 - Food Service Options
 - Compared operation with other local attractions:
 - Zoo,

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- Betty Brinn Children's Museum
- Looked at benchmark facilities:
 - New York Botanic Gardens,
 - Brooklyn Botanic Gardens,
 - Olbrich Botanic Gardens,
 - Como Park Conservatory (St. Paul),
 - Foellinger-Freimann Conservatory (Ft. Wayne)
- Assessed performance to-date:
 - Attendance
 - Revenue
 - Gathered visitor and community feedback:
 - Surveyed Domes visitors and neighborhood residents
- Met with stake holders:
 - Staff
 - Friends
 - County Management
 - Community Residents
- Developed recommendations to-date based on data analysis.

SUMMARY

- Population, tourism, per capita income (overall) are increasing in Metro Milwaukee area.
- Near Southside demographics are changing. Youth population has increased by 16%. Anglo share of the population fell from 62% to 39% -- Hispanic share grew from 26% to 43%. MPS school statistics from 1992 1998.
- Crime activity in census blocks 158 159 is higher than city rate. Crime in the Park and in the Menomonee River Valley is very low compared to city.
- Philanthropic support for local organizations is high and growing.
- Revenue from rental sources can be significantly increased by providing adequate facilities (size and placement).
- Other institutions achieve attendance/revenue goals through:
 - -investments in marketing (budgets, staff, marketing alliances),
 - -strong involvement of Friends organizations,
 - -support from private, corporate and state/national funding sources

DOMES SURVEY RESULTS

- Domes visitor segments represented by locals and tourists break into various subsegments of these categories -- appropriate target marketing is required.
- Survey results indicate areas of opportunity in:
 - -improvement of comfort of surroundings,
 - -opportunity to learn about plants,
 - -improvement of food service offerings,
 - -improvement of handicap facilities and
 - -improvement of gift shop.
- Domes attendance and visitor feedback does not indicate potential success of table or cafeteria food service, however snack bar appears to be a viable option.

- Survey results indicate high level of *importance* of:
 - audio/visual learnings,
 - gardening/botany classes and
 - gift shop.
- Domes survey results indicate high level of *interest* in:
 - outdoor water features,
 - outdoor changing floral shows,
 - walking paths,
 - outdoor horticultural displays, and
 - outdoor areas where children can have fun and learn about plants.

PARK SURVEY RESULTS

- Community survey results indicate the top five current uses of Mitchell Park include walking/jogging, relaxation, picnics, musical events and duck watching.
- There is significant ethnic divergence of the <u>likelihood to utilize</u> various park concepts. Top five concepts by ethnicity:

of HH's indicating frequent or quent likelihood to utilize.	Hispanic N = 90	
49.2%	Picnics	73.5%
48.4%	Playgrounds	68.4%
43.6%	Scenery	66.3%
41.2%	Safe Biking/Jogging	65.1%
41.2%	Ice Cream/Snack Vendors	58.0%
	Native American n=3	
76.9%	Picnics	100.0%
75.0%	Scenery	100.0%
72.7%	Safe Biking/Jogging	100.0%
66.7%	Restaurant in Park	100.0%
66.6%	Basketball	100.0%
	quent likelihood to utilize. 49.2% 48.4% 43.6% 41.2% 41.2% 76.9% 75.0% 72.7% 66.7%	quent likelihood to utilize. $N = 90$ 49.2%Picnics48.4%Playgrounds43.6%Scenery41.2%Safe Biking/Jogging41.2%Ice Cream/Snack Vendors76.9%Picnics75.0%Scenery72.7%Safe Biking/Jogging66.7%Restaurant in Park

MITCHELL PARK FINAL REPORT Park III • Master Plan for Mitchell Park	
MITCHELL PARK Milwaukee County Dept. of Parks	

metal roof. These elements combine to entice the visitor ments; planted berm, glass clerestory and lightly structured out from the Domes to greet the visitor with a glassed porte-cochere, which leads into the public lobby. The arc dome structures, utilizing a segment of a circle to organize The functions within this addition are divided into three gardens and terraces for the visitor center. center addition is carved out to allow light to the lower allowing for a less obscured view of the glass domes. The one by depressing the building one level into the ground, The building is also reduced in height, from two stories to with their mix of solid earthliness, transparency and light. visually provides a base for the grouping of domes much-needed amenities and orientation. The architecture turally significant addition that provides the visitor with to the west and the public plant propagation house and colstructure that will serve future as well as existing needs. There are three separate additions proposed to the existing Section 7 Referenced Documents, sally accessible. These studies can be found in their entirethe necessary ramifications of making this building univerdetermine the amount of effort and funding needed to stadone both prior to this report and for this report to help space between the existing domes structure and the visitor new. The arc is comprised of three simple architectural elewhich to sit and unifies the composition of the old and the the functional elements of the program. This arc extends of the addition is as geometrically rigorous as the existing **Building Additions** ty in Section 6 Appendices or in the studies mentioned in A study of ADA issues was also completed to understand systems level of the addition as well as to provide private sunken The new visitor center is a minimally invasive, architec-Visitor and Staff Center lection greenhouses to the east. The additions include the two-story visitor and staff center bilize and update the mechanical, electrical and structural In-depth studies of the building's existing conditions were **Existing Building Modifications** CONCEPTUAL DESIGN ISSUES on halls. truck access and servicing. and the exterior environmental gardens. **Public Plant Propagation House Collection Greenhouses** room and public restrooms and lockers **CONCEPTUAL DESIGN ISSUES**

library are combined for greater efficiency with a private Offices, open work areas, artist workshop, storage and a ern segments; the staff, the public and the banquet. The northstaff courtyard garden, helping to reinforce the educational mission of the institution. portion houses the staff functions on both levels.

> and wayfinding cues between the public floors. The lower looks to the floor below allowing visual communication entry level leading to the three domes. There are large overspace and a café are all located along the center spine on the stairs, elevators, admission's desk, restrooms, exhibition staff, or banquet goers, the lobby space needs to be of a center portion acts to dispense various groups of patrons, lic functions and entry to the Conservatory. Because this The center portion of the addition is dedicated to the publevel contains the educational center with wet labs, the A/Vgrand scale and clearly defined. Public amenities such as

MITCHELL PARK FINAL REPORT

Part IV • Master Plan for Conservatory and Immediate Grounds

efficient, behind the scene food service to the two banquet another unique space in the complex. Two catering prep end of the arc overlooks and opens up to the terrace in the areas connected via a corridor to the service entry allow for between the addition and the south dome allowing for Environmental Garden. The pre-function space for the banquet facilities. The main banquet room at the southern The southern portion houses the gift shop and meeting and main banquet room opens to a private courtyard garden

ronmental garden and as such will be designed as the transelves the different techniques of growing and caring tor domes and intended as a public amenity to help engage the sition point between the interior worlds under the domes allowing the visitor the opportunity to discover for them-The plant propagation house is located to the east of the plants. It will also serve as the controlled entry to the envivatory. This glass house will be a hands on environment public in the educational mission put forth by the conser-

and north of the plant propagation house helps facilitate in a more utilitarian manner, with the emphasis placed on arrangement of the greenhouses to the east of the domes function and cost. While maintaining a low profile, the The collection greenhouses are anticipated to be designed

Milwaukee County Dept. of Parks

PROJECTED PROJECT COSTS The Targend Physic ross for implementation of the Cusevariary and Immediate Council Appendix B. "Cara Analysis" The costs are distinged as them 4. Through Data Structures and Associated Buildings", and "B. Fature Cost for the "Painary Data Structure" includes Interfatient in the ISI payments. B. "Caraing Fature Interfation and the Painary Data Structure". Includes Identified in the Management and Caracitad Structure, "Includes Identified in the Structure". Conservation of the Caraing Fature Interfation in the ISI payments. Caraing Fature Interfation and Inter	MITCHELL PARK Milwaukee County Dept. of Parks
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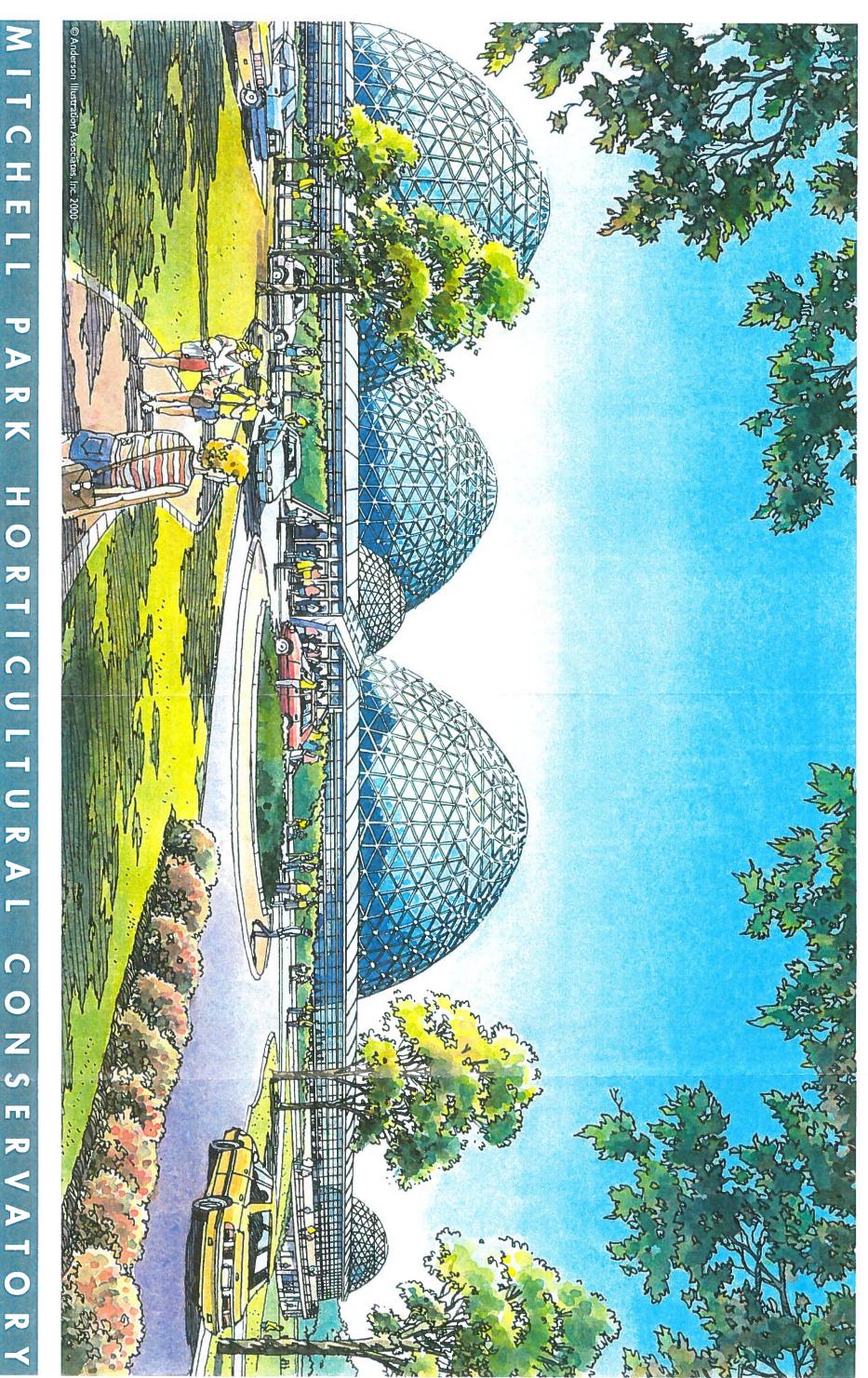
Mitchell Park Horticultural Conservatory

	191	Witchell Park Horitcultura		
Program Requirements	R.F.P. SQ. FT.	EADP SQ. FT.	EADP Area SQ. FT.	EADP Total SQ. FT.
Educational Programming				
Coat Room/locker		290		
Restroom (in proximity to Banquet #2)		690		
Bag Lunch Area		400		
Wet Lab /Greenhouse Teaching		1,320		
Interpretive Ed. Office	200	150		
A/V Needs (66 persons @ 10sf/person)	0.000	660	3,510	
TOTAL AREA SQ. FT.	2,000		3,010	-
Facility Rental Space		4 8 6 8		
Banquet Area #1 (400 seats @ 12 sf/per.)		4,800		
Banquet Area #2 (135 seats @ 12 sf/per.)		1,620 60		
Banquet #2 Storage		3,100		
Meeting/Exhibition Space (1st Floor) Prefunction Space for Banquet #1		2,960		
Lobby/Prefunction Space for Banquet #2		1,310		
Restrooms		600		
Coat Room		360		
Storage (tables, chairs, etc)		600		
Elevator		100		
TOTAL AREA SQ. FT.	12,050		15,510	-
Catering/ Food Area				
Catering Set-Up/Prep/Serving/Banquet #1.		930		
Catering Set-Up/Prep/Serving/Banquet #2.		750		
Café/Vending Area		900		
Storage		430		
		·····	3,010	-
Horticultural Staff				
Open Office Space	750	750		
Wook Space w/ Wet Lab		300		
Library w/ Copier	2,000	1,920		
Additional Open Office Space		420		
Propagation House (w/ micro -environ) TOTAL AREA SQ. FT.	2,400 5,150	2,400	5,790	_
	3			
Administrative Office Activities	500*			
Storage (fax, copier, A/V)	*			
Closet	*			
Open Work Space (copier, storage etc.)	*	475		
Director's Office	400	300		
Conference Room	*	320		
Office	200	150		
Friends Office		150		
Develp./Marketing Coordinator		150		
Horticulturist II Office	200	150		
Storage (small props., supplies)	1 000	200		
Park Artists	1,000	1,200	3,095	_
Gift Shop Gift Shop		1,000		
Storage		350		
	<u></u>		1,350	_
Visitor Amenities				
Porte-cochere				
Air Lock @ Front Entry		175		
-		450		
Admissions (storage/2 staff w/ cash res.)	200	490		
Visitor Orientation	200	125		
First Aid Room Telephones (located within lobby spaces)		0		
Water Fountain (located in lobbies)		0		
New Grand Stair		300		
Elevator (s)		250		
***Stroller Rental (EADP Added)		40		
			1,340	_
Additional Building Facilities				
Mechanical		1,400		
Loading Dock		910		
Storage		480		
Maintaince Closets		50	10	
			2,840	36 445

GROSS TOTAL w/ GREENHOUSES			64,201
**** Crop Growing Greenhouse	30,000		
**** not included in building design unless oth	nerwise directed		
Collections Greenhouse 2@ 50x150		15,000	
Optional Greenhouses			
GROSS TOTAL SQ. FOOTAGE			49,201
Assume 35% Circulation			12,756
NET TOTAL SQUARE FOOTAGE			36,445



T C T P A RK HORTICULTURAL 0 0 2





41 40 39 ω 8 37 36 35 34 ω_{3} 32 22 42 ω_1 24 23 00 5 30 26 25 20 19 16 14 29 28 27 21 17 3 12 0 Mitchell Park & Horticultural Conservatory Master Plan • October 1998 Milwaukee County Department of Parks, Recreation and Culture **Existing Roof Deck Existing Transition House** Service Yard and Service Drive Collection Greenhouses (15,000 sf ea.) Entry to Feature Garden Propagation House (2000 sf) Existing Air Lock **Existing Tropical Dome Existing Arid Dome** Existing Show Dome Artist Storage **Administrative Office Open Office Area** Walkway w/ Stair to Library Below Entry to Administrative Area Sunken Garden Planted Berm Banquet Hall Below (4400 sf) **Open to Pre-function** Pre-function Space Gift Shop Storage **Gift Shop** Artist Workroom **Director's Office Open to Library Below** Water Channel **Exterior Terrace** Admission's Desk and 2 Person Office First Aid Room Conference Area Coat Room Open to Below Unisex Restroom Restrooms w/Grand Stair Space Below **Entry Level Plan** • 31 27 5 5 0 Y w 59

Existing Lobby Space Exhibition Hall / Visitor Orientation Grand Stair (down)

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Elevators

Building Entry & Lobby

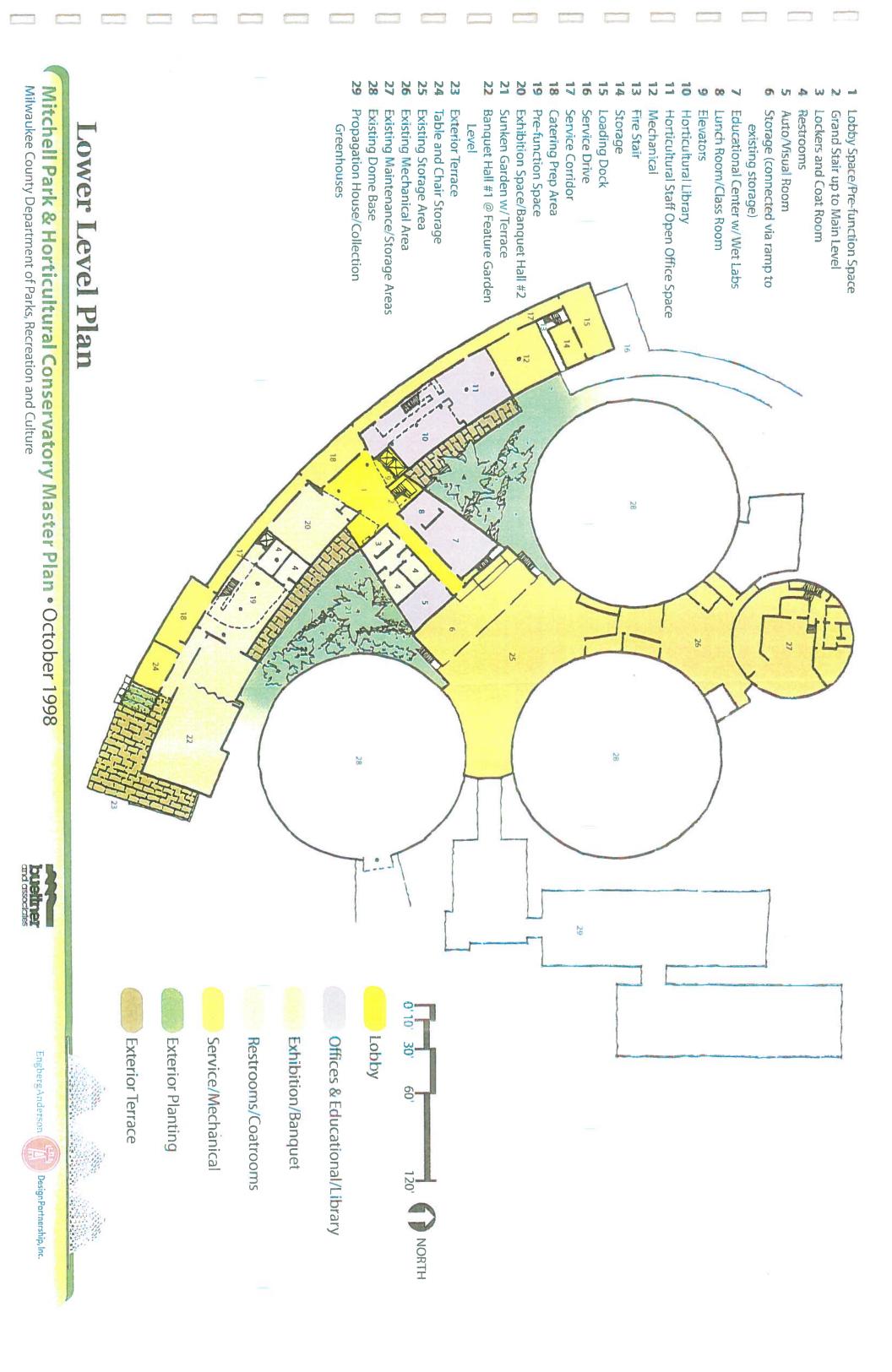
Vehicular Drop-off Canopy

Pedestrian Plaza

Café

		Water	Exterior Planting	Double height space - open to below	Service/Mechanical	Restrooms/Coatrooms	Exhibition/Banquet	Cafe/Gift Shop & Storage	Offices & Educational/Library	Interior Planting	Lobby	10' 30' 60' 120' NORTH	
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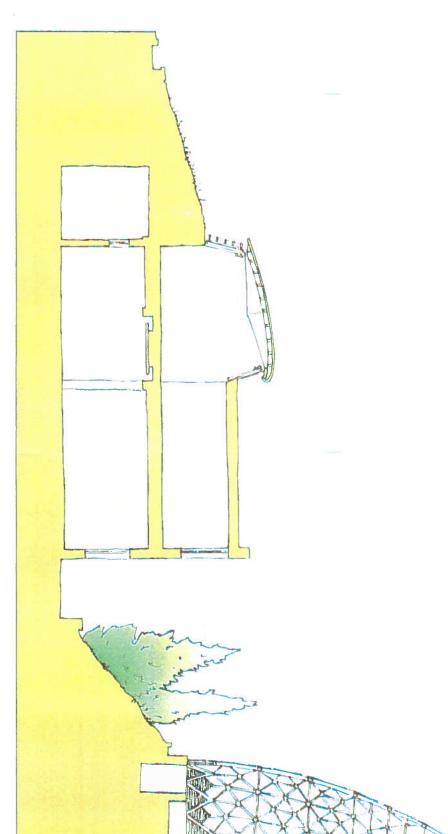




Mitchell Park & Horticultural Conservatory Master Plan • October 1998 Milwaukee County Department of Parks, Recreation and Culture

Sections

Building Section Through Addition and Dome





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MASTER PLAN PHASED IMPLEMENTA-TION STRATEGY

Due to the scope of the Mitchell Park Master Plan, implementation will require the proactive and cooperative efforts of the Public and Private Sectors. This Master Plan includes required maintenance projects to all existing facilities, amenity and functional upgrades to Mitchell Park in general, as well as functional and programmatic enhancements to the Mitchell Park Horticultural Conservatory. The recommended strategy of implementation for the overall Master Plan is a phased process to occur over the course of seven years. This phased process allows for immediate implementation of Critical and Scheduled Maintenance Items while Design/Engineering Planning and Fundraising efforts are in progress for the overall Master Plan. Each of the Master Plan Components has been prioritized based on the following criteria:

Critical Maintenance Projects Scheduled Maintenance Projects Required Facility Upgrade Projects Planned Additional Program Area Projects Planned Revenue Enhancement Projects Planned Functionality Enhancement Projects Planned Aesthetic Enhancement Projects

Recommended implementation strategy:

Overall Master Plan Design and Engineering 2001 Complete final design and engineering for implementation of the entire Mitchell Park Master Plan. After completion of design and engineering, the various Master Plan Components can be Bid as distinct Projects as funding becomes available.

Upgrades to Existing Buildings 2001 - 2004 Continue scheduled maintenance projects throughout Mitchell Park and implement the maintenance projects described in Referenced Document "A" "Structural Condition Study of the Mitchell Park Domes" and Appendix "C" Existing Facilities Analysis. Implementation of these Projects will prevent further deterioration of the Park Infrastructure.

<u>Upgrades to Lighting and Paths</u>	<u>2002</u>
<u>Upgrades to Plant Materials</u>	2002
<u>Upgrades to Playing Fields</u>	2002

Upgrades to North Parking Lot

2002 Completion of these Projects will provide the base for the future Master Plan Components by upgrading the general Park Environment and Functionality of Recreational Facilities.

Upgrades to Pavilion and Terrace

2003

Upgrades to Pond 2003 Completion of these Projects will provide the First of a Series of Revenue Generating Improvements to Mitchell Park. These Areas are in need of an image and infrastructure upgrade to enhance the potential revenue stream.

New Building Addition and Propagation House	0004
Upgrades to Central Parking Lot	<u>2004</u>
Ungrades to Central Latking Lot	2005
Upgrades to South Parking Lot	2005
New Feature Garden	
	<u>2005</u>
These Projects are the center of the Mitchell Park	
master rian and are required to ensure the future	
of the Mitchell Park Horticultural Conservatory.	
Completion of the Day	
Completion of these Projects will enhance the	
image of Mitchell Park and provide the necess	
Revenue Generating Imanu	sary
Revenue Generating Improvements to the	
Mitchell Park Horticultural Conservatory.	

New Collection Greenhouses

2006

Completion of the Collection Greenhouses will enhance the functionality of the Mitchell Park Horticultural Conservatory and potentially reduce operating costs by relocating and improving this facility from its existing location on the County Grounds.

Upgrades to Tot Play Area

2007 Completion of these Projects will enhance the general Park Environment and Functionality of Recreational Facilities allowing for increased use by the surrounding neighborhood.

Replace Amphitheater

2007

Completion of the Amphitheater Project will enhance the general Park Environment and provide the opportunity to improve a currently under utilized recreational venue.

- A) Market Analysis
- B) Foodservice Recommendations
- C) Cost Analysis
- D) Existing Facilities Analysis

MITCHELL PARK FINAL REPORT

Accomplishment the Mitchell Park Master Plan, will require the cooperative efforts of the Public and Private Sectors in the following areas:

- Improving the Image of Mitchell Park •
- Improving the Recreational Facilities of • Mitchell Park
- Improving the Mitchell Park Horticultural • Conservatory Infrastructure
- Improving the Mitchell Park Horticultural . Conservatory Marketing Program
- Improving the Mitchell Park Horticultural • Conservatory Revenue

MITCHELL PARK

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• A) Market Analysis

Milwaukee County Dept. of Parks



MITCHELL PARK AND HORTICULTURAL CONSERVATORY MASTER PLAN

MARKET ANALYSIS October 21, 1998

Unkel Marketing Solutions, LLC 2239 N. Terrace Avenue Milwaukee, WI 53202 (414) 298-9910

REQUEST FOR PROPOSAL 1/29/98	• "To hire a consultant to develop a master plan for the Mitchell Park Horticultural Conservatory which includes needed capital improvements, programming and market analysis. The master plan shall ensure (be geared to) increased facility utilization and functionality, while generating ancillary revenue sources and enhancing existing revenue sources. In addition, the consultant will perform research, conduct interviews, develop plans and compile a fiscally sound plan."	The plan should, at a minimum consider and address the following:	• The overall condition of the conservatory and any needed or recommended changes	• Space needs for public service, revenue generation, operational considerations and support functions.	 Program analysis, including both current programming and proposed programming. 	 Revenue generating proposals (such as restaurants and catering, marketing strategies including advertising programs and target groups, new or expanded activities such as art fairs or interactive electronics, space rentals, etc.) 	 Market analysis of revenue generating proposals. 	• Preliminary design work for revisions needed to accomplish the recommendations of the master plan	 Utilization of exterior space, including the reflecting pool and the old sunken gardens area and, if appropriate, other areas of Mitchell Park 	Cost and revenue analysis for all recommendations	• Funding sources for all the various recommendations, including but not limited to grants,

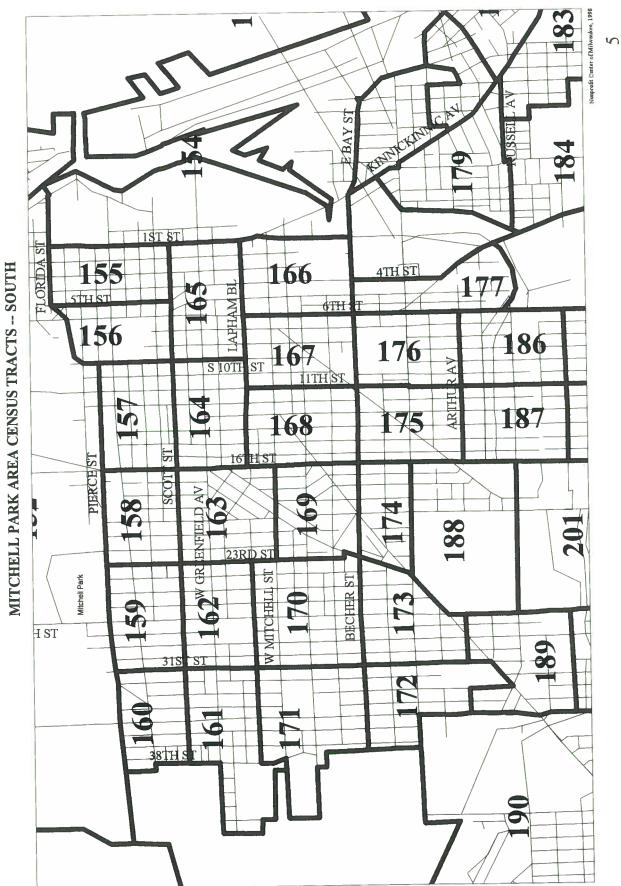
- •
- Funding sources for all the various recommendations, including but not limited to grants, sponsors, joint ventures and self supporting activities.

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OVERVIEW OF ANALYSIS PROCESS

- potential. This is what will drive programming, pricing, Start with analysis of visitor base, both current and communication and fund-raising opportunities.
 - Consider relevant market trends.
- Follow with "competitive overview"
- Establish baseline measures.
- Determine priorities based on opportunity
- Then establish strategic objectives which will direct programming and revenue streams.

MARKET ANALYSIS: Table of Contents	Market AnalysisRelevant Trends: Metro Milwaukee Population/Tourism/Crime/ Philanthropy/Food Service	 Market Analysis Comparison with other local attractions: Milwaukee County Zoo, Betty Brun Children's Museum Market Analysis Benchmark Facilities: New York Botanic Gardens, Brooklyn Botanic Gardens, Olbrich Botanic Gardens, Como Park Conservatory, Foellinger-Freimann Conservatory 	 MITCHELL PARK HORTICULTURAL CONSERVATORY SITUATION ANALYSIS Performance to Date Key Internal Measures: Attendance 	 Revenue Market Analysis Visitor Segments » Segment Feedback Mitchell Park Horticultural Conservatory Comparative Review 	 MARKET ANALYSIS MITCHELL PARK Community Survey Results KEY RECOMMENDATIONS AND IMPLICATIONS FOR PARK DESIGN KEY RECOMMENDATIONS AND IMPLICATIONS FOR PARK DESIGN EXHIBITS: Domes Survey, Community Survey, www printouts, Foundations Listings, Como Park Conservatory Brochure, Community Survey Photos



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Demographic Trends

Demographic Trends: Metro-Milwaukee area: Metropolitan Milwaukee Association of Commerce

- Population is growing. Four-county area has nearly 1.5 million people. This represents a 4% increase from 1990 to 1997
- Total per capita personal income (1995) is nearly 12% higher than the US average. The average weekly earnings of the area is \$610.24 (May, 1998)
- The highest representation of age is in the 25 34 year old category (1990 census data) In year 2000 we will see a strong representation of 15-24 year olds.
 - Projections of effective buying income indicate a 16.6% increase between the years 1996 2001. 1997 Sales & Marketing Management Magazine.
- Near Southside Area Demographic Trends: "A District Plan for Milwaukee's Near Southside" Applied Planning Workshop at UWM Dept. of Urban Planning, April 1995
 - Approximately one-ninth of City's total population (71,332 people) lives in Near Southside.
- Children from 0 to 19 make up 36% of District's population (compared to 30.4% city-wide)
- Percentage of 25 year olds with high school diplomas or above is 56.6% compared to City rate of
 - Hispanic population represents 30.6% of population compared to metro-Milwaukee rate of 4%. 19.8% of Hispanic population do not speak English; 51.4% of Asians do not speak English
 - 28.1% of families live below the poverty level (compared to City-wide rate of 18.1%)
- important to reverse this trend in order to promote economic growth." A District Plan for Milwaukee's Key Issues: "Education policies and programs are needed for the Near Southside. With a high school graduation rate just over 50%, and in some portions of the District less than 40%, it is Near Southside Ibid

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Neighborhood Demographics

- near southside community. These statistics just released in July, 1998 indicate school statistics from 1992 - 1998 indicate considerable ethnic change in the The last household data available is from the 1990 census, however MPS the overall youth population has grown by 16%.
 - "On the central part of the city's south side -- the area roughly from Lapham St. to Layton Ave., 6th St. to 35th St. -- an influx of Hispanics, and to a less degree blacks and Asians, has countered the outflow of white children."
 - "In the central south side, the white share of the population fell from 62% to 39% while the Hispanic share grew from 26% to 43%. Overall youth population was up 16%." Milwaukee Journal Sentinel 8/23/98
 - A comparison of 1990 Census data on children in tracts 158-159 with 1997 MPS data indicates the following ethnic changes:

	Hispanic	Anglo	African	Asian	Indian
1990 Census/Children 158-159	37.0%	47.7%	4.2%	5.8%	5.3%
1997 MPS Survey	52.2%	21.4%	12.1%	4.8%	9.5%

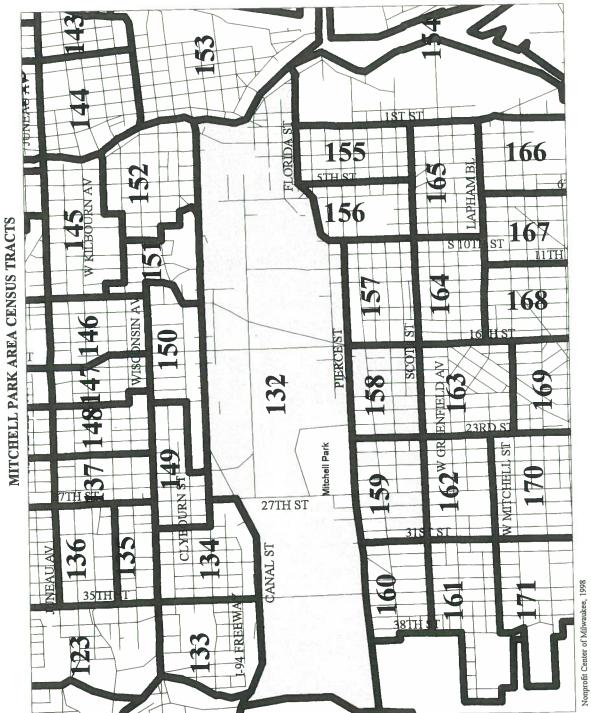
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CRIME TRENDS NEAR SOUTHSIDE

Southside District. In 1993, the percentage rose to 9.5% The highest increase was in the Clarke Square/27th Street area (95% increase). A District Plan for Milwaukee's Near Southside, April 1995. 1997 statistics for the Clark Square area Crime Trends Near Southside: In 1987 7.7% of all crimes against persons in the City were committed in the Near (census tracts 158-159)show a continued upward trend in crimes against persons -- property crimes, however, are

Crime Trends Within The Menomonee River Valley (Census tract 132): Incidence of crime within the Menomonee River Valley is relatively low. A total of 32 violent crimes were reported in 1997 including 1 homicide, 6 rapes, 14 trending downward.

shrubbery near the railroad tracks to the North. He also recommends involving a city or county specialist certified in gang activity in the park. There are occasional incidents of drunkenness and prostitution, but the presence of patrol Crime in Mitchell Park: Sixth District Crime Prevention Officer Roger Cortez reports there is very little crime or cars in the park has done alot to remedy the problem. Officer Cortez does recommend selective trimming of the crime prevention through park planning. (Officer Cortez holds this certification.) assaults and 11 robberies. Overall, crime trends in the Valley are declining.



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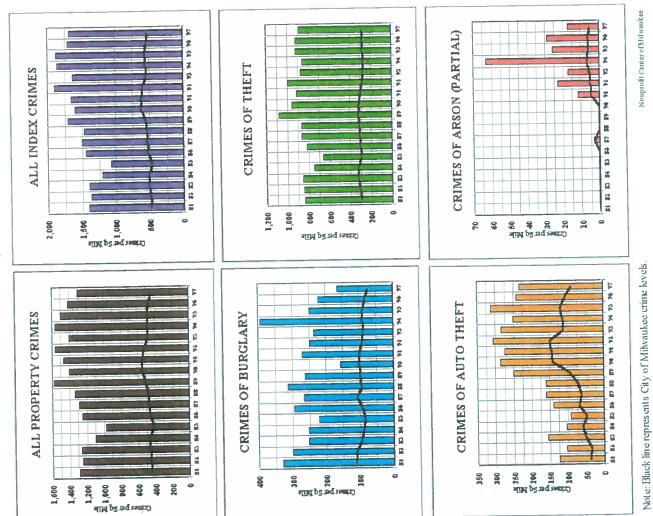
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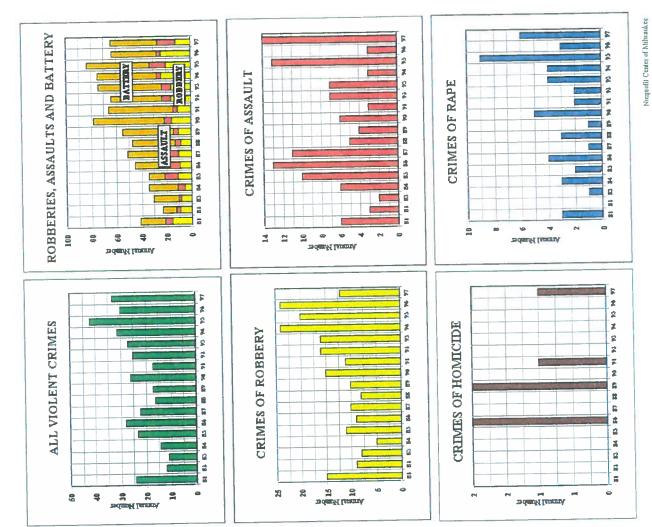


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VIOLENT CRIME SUMMARY 1981-1997 MENOMONEE RIVER VALLEY



Market Analysis -- General Trends

- "As public gardens increasingly shift to private funding sources, attendance and economic expectations become the criteria for successful operation. To increase attendance and broaden their appeal, gardens are responding to increasing demand of active entertainment programming." Public Garden Magazine, July 1996.
- Leisure Trends in General: The 1991 Dieringer Research Associates Report commissioned by the Milwaukee County Dept of Parks, Culture and Recreation revealed that the general Milwaukee area population ranks leisure time needs in the following order of importance. Fun, Relaxation and Entertainment.
 - Metro-Milwaukee area anticipates a general growth in tourism, particularly as a result of an increase in expected convention activity. The "Domes" is one of the top ten Milwaukee area tourist destinations. Greater Milwaukee Convention and Visitors Bureau **Tourism Trends:**

Philanthropic Trends

- increase higher than any other category of giving including education, health, religion, social services and the arts. " "Support for gardens and other environmental institutions is at its highest point in history. According to the June estimated \$3.5 billion dollars in 1994. This represents an increase of 11 percent from the previous year and an 1995 issue of The Chronicle of Philanthropy, charitable donations to environmental organizations rose to an Public Garden Magazine, July 1996.
 - "The number one reason wealthy people make charitable contributions is to enhance the quality of life in their own communities." 1994 survey of major donors -- Price and Associates, Connecticut
 - inflation rate of 12.4 percent over the same period." Report Card on Charitable Giving -- Milwaukee Foundation, bellwethers reported receiving \$151,606,051 in gifts for 1996 -- 34.9 percent more than in 1992, compared to an Giving Trends in Milwaukee: "Overall, the state of philanthropy is very healthy in the Milwaukee area. November 1997

"Regardless of the system, garden administrators across the country express a general discontent with food service arrangements Constant investment required Crisis level at which kitchens operate Contractual provisions made to attract a good contractor overly generous". Public Garden Magazine, October 1990
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Snack bar up to \$1 per person Table/cafeteria service 50 cents to \$3.50 per person Trend toward contractual or concessional management rather than self-operated. Issues to consider: nature of facilities inventory and replacement insurance and licensing standards policies exclusivity cost accounting codependence and supervision "Regardless of the system, garden administrators across the country express a general discontent with food service arrangements Constant investment required Crisis level at which kitchens operate Contractual provisions made to attract a good contractor overly generous"? Public Garden Magazine, October 1990
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 anrvey to AABGA member organizations - 125 responding facilities Less than half manage regular food sales (including contract and concession) Of those that do, half include table or cafeteria service, a quarter offer snack bar and the other quarter have vending machines only. Adjusted for Inflation 1990 - 1997 Sales per visitor: Sales visitor: Sales per visitor: Sales visitor: Sale
PUBLIC GARDEN FOOD SERVICE STATISTICS arvey to AABGA member organizations - 125 responding facilities Less than half manage regular food sales (including contract and concession) Less than half manage regular food sales (including contract and concession) Less than half manage regular food sales (including contract and concession) Notes that do, half include table or cafeteria service, a quarter offer snack bar and the other quarter of from grading machines only. Sales per visitor: Adjusted for Inflation 1990 - 1997 Nending machine - 5 to 15 cents per person 6 to 19 cents per person Snack bar - up to 51, per person 0.2.5 cents to 53.50 per person Trend toward contractual or concessional management rather than self-operated. 1.25 per person Issues to consider: 0.2.5 cents to 54.38 per person nature of facilities 0.2.5 cents to 54.38 per person inventory and replacement 0.2.5 cents to 54.38 per person inventory and replacement 0.2.5 cents to 54.38 per person inventory and replacement 0.2.5 cents to 54.38 per person inventory and replacement 0.0.5.5 cents to 54.38 per person inventory and replacement inventory and replacement inventory and replacement inventory and replacement inventory and replacement
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SNACK BAR ECONOMIC VIABILITY

no cooking/grilling involved in snack bar operation.) (Definition snack bar versus concession --

Assumptions:

bagels, muffins, hot dogs, bottled water, popcorn, chips, soup. Daily sales assumptions Menu -- sodas, candy, ice cream, coffee, chocolate, juices, gourmet coffee, cookies, Total Cost Cost Duino based on 300 people/day. •

	Item	Price	Ext.	Cost	I otal Cost	
•	25 waters	\$1	\$25	.35	\$8.75	
•	75 sodas	\$1	\$75	.10	7.50	
•	50 coffees	\$1	\$50	.15	7.50	
•	15 hot dogs	\$1.50	\$22.50	.53	7,95	
•	15 ice creams	\$1	\$15	.35	5,25	
٠	30 popcorns	\$1	\$30	.23	6.90	
•	15 chips	.75	\$11.24	.42	6.30	
•	10 pretzels	\$1.50	\$15	.33	3.30	
•	50 candies	.75	\$37.50	.34	17.00	
•	TOTAL		\$281.25		\$70.45	25% gross
•	2 people (<i>a</i>) \$6.50/hr x 8 hrs.				\$104.00	37% gross
•	TOTAL COST				\$174.45/day	lay
٠	TOTAL GROSS PROFIT		\$106.80/	day x 360	\$106.80/day x 360 days/year =	\$38,448

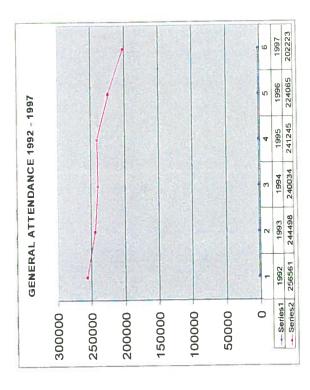
(With appreciation to Gary Lindsey, Executive Director, Uihlein Soccer Park)

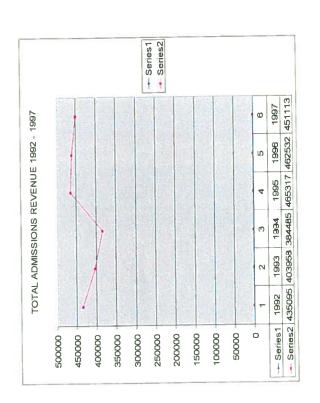
Market Analysis -- Horticultural Conservatory

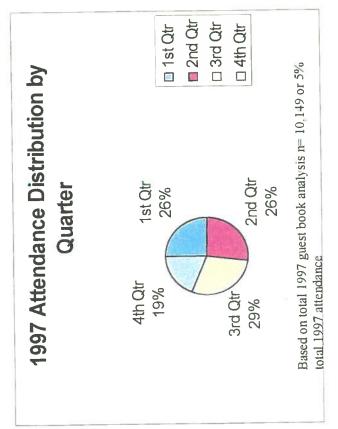
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1998 revenue goals are tracking higher than 1997 Total admissions revenue YTD: \$326,618

"Making new friends while keeping the old" **Visitor Segments**

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LOCAL SEGMENTS:

- Greater Milwaukee area residents
- Residents of surrounding neighborhood
- Illinois residents
- Other Wisconsin communities

TOURIST SEGMENTS:

- Out-of-state (other than Illinois)
- International

TOURIST SUBSEGMENTS:

- Convention visitors
- Motor coach segment
- Families
- Tourists visiting local friends/family

(Segmentation based on need for differentiation in marketing strategies)



NOTE: This data is derived from guest book analysis. As a result, the frequent Wisconsin visitor is most likely under-represented. Implications are that the Wisconsin segment is probably greater than these graphs indicate.

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QUARTERLY ATTENDANCE TRENDS SUMMARY

- Wisconsin and Illinois represent heaviest attendance segments in 1Q (local 85%, tourist 15%)
- Tourist segment begins to build 2Q (local 67%, tourist 33%)
- Trend grows 3Q (local 45%, tourist 55%)
- Evolves back to local 4Q (local 77%, tourist 23%)

IMPLICATIONS

Advertising and promotion should be targeted accordingly:

- 1Q -- benefits to local (Wisconsin/Illinois) citizens to enjoy the Domes.
- 2Q -- begin to introduce communications to tourism channels.
- 3Q -- heavy emphasis on appeal to tourists as well as message to locals to bring their out-of-town guests to the Domes. (50% of tourists stay with Milwaukee family/friends)
- 4Q -- segue back to local appeal (include some part of marketing mix towards international tourism)