



A Theater of Regeneration

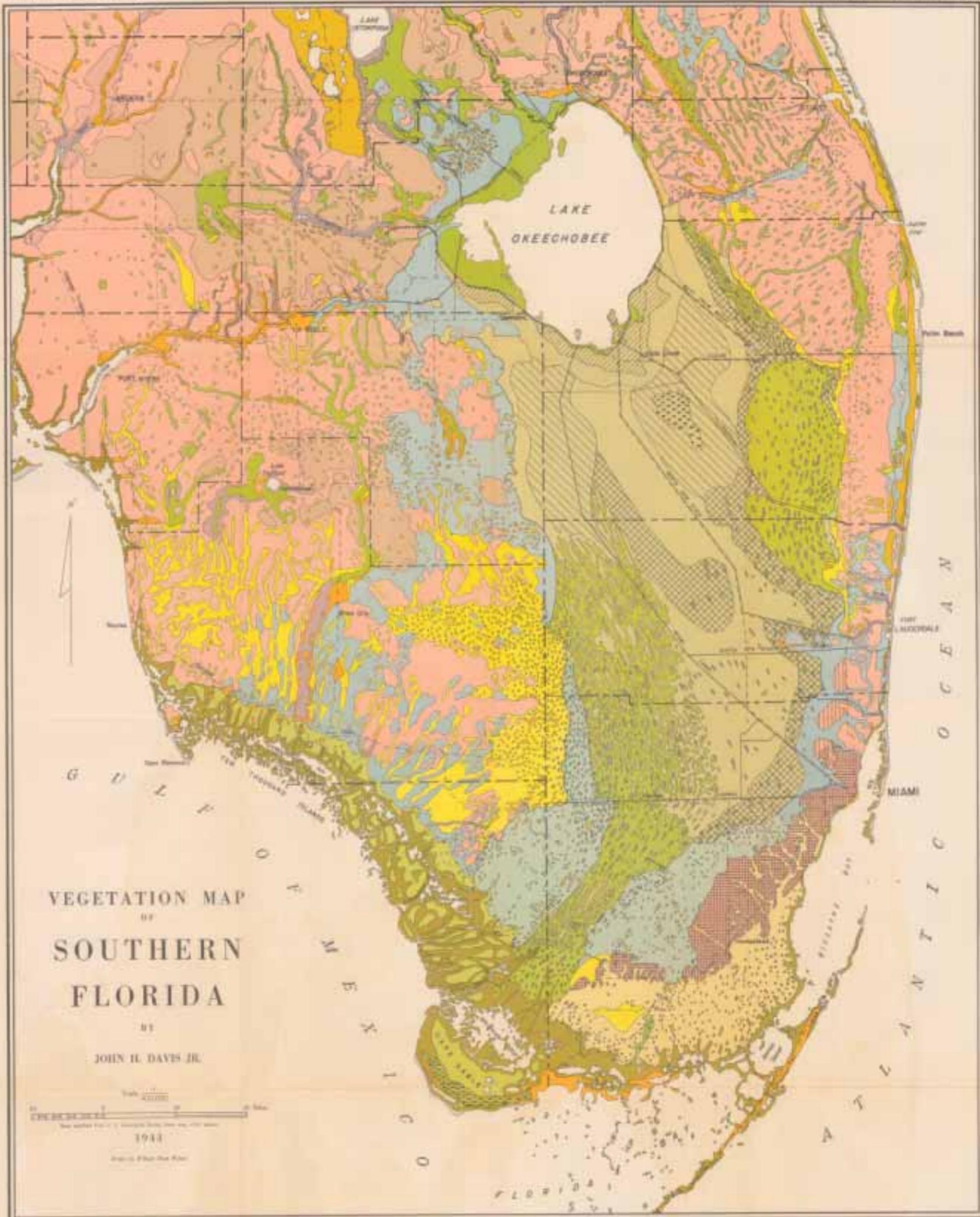
towards an aesthetic of layers, loops, and lenses

**BROWARD COUNTY
ENVIRONMENTAL ART MASTER PLAN
PARKS/LAND BOND AND BEYOND**

**LORNA JORDAN, ARTIST AND TEAM LEADER
FOR BROWARD CULTURAL DIVISION**

**THIRTY-YEAR VISION
TWO- AND TEN-YEAR PLANS
SIXTEEN PROJECTS
January 30, 2004**





VEGETATION MAP
OF
SOUTHERN
FLORIDA

BY
JOHN H. DAVIS, JR.

Scale 1:50,000
1943
Published by the Florida Geological Survey

GENERAL VEGETATION

- Sand Dunes
- Beach Forest
- No Tree Forest
- Hard Scrub
- Cypress Swamp
- Loblolly Pine
- Pine Flatland
- Tall Pine
- Pine Scrubland
- Pine Upland
- Bayonet Swamp
- Mangrove Swamp

EXPLANATION

- Sawgrass Swamp
- Wet Prairie
- Freshwater Marsh
- No Forest
- Wet Prairie
- Marshy Upland
- Upland Scrub and Pine
- Road, Canal, or Pipeline

MARSH VEGETATION

- Sawgrass Swamp
- Bayonet Swamp



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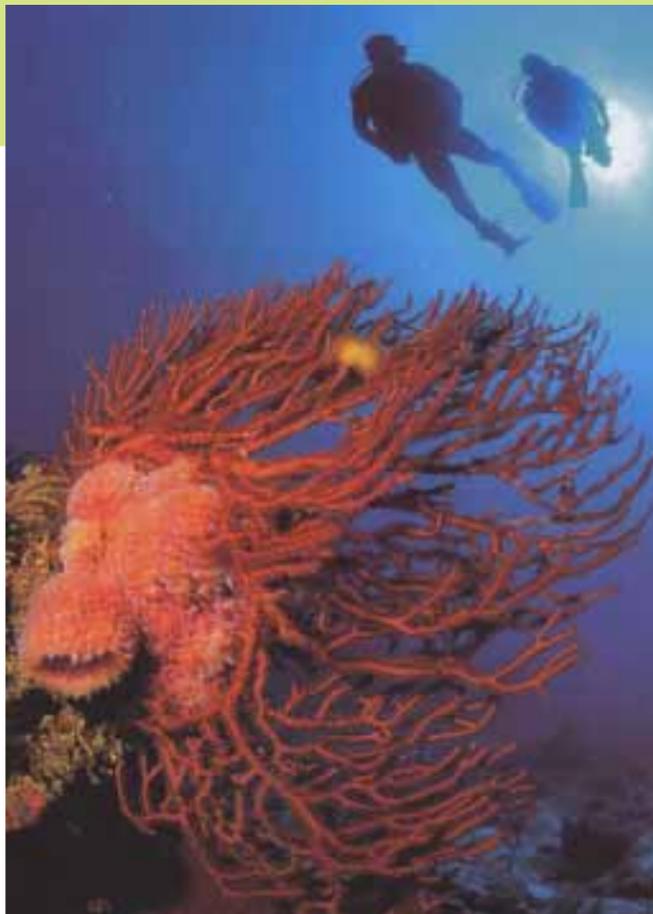
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Executive Summary

What stories does Broward County's landscape tell us about the social and ecological processes that have acted upon it? What landscape will be there in the future? What stories will it tell? What places will be memorable?

BACKGROUND

On November 7, 2000, 74 percent of Broward County voters overwhelmingly approved Broward's Safe Parks and Land Preservation Bond Referendum. Funds from this \$400 million bond are being used to:

- Preserve and reclaim approximately 1,425 acres of conservation land, green space, and open space.
- Repair and enhance an aging park system to provide safe places for children to play and parks for everyone to enjoy.

In 2002 the Broward County Cultural Division worked in partnership with the Parks and Recreation Division to develop a call for an artist-led team to develop an Art Master Plan. The plan was to be created in concert with the 2000 Broward County Safe Parks and Land Preservation Bond as well as other initiatives such as the greenways system.

The county requested proposals from individual artists experienced with large-scale environmental works, social and transactional spaces, community-oriented and functional works, ecologically based works, and other types that might be appropriate. In addition, the selected team could include individuals with expertise in public art, reclamation art, environmental science, ecology, urban planning, architecture, landscape architecture, water resource planning, engineering, and greenways development. Potential opportunities outlined in the Call to Artists included: large-scale artworks; access to and protection of natural areas; park master plans; greenways; think tanks; functional and participatory artworks; and temporary artworks. The Artist Selection Panel chose a team led by artist Lorna Jordan to produce the Environmental Art Master Plan. The county requested a Master Plan that would illustrate the selected planning team's vision for Broward's environmental future by providing "an environmentally sensitive and aesthetically beautiful comprehensive plan for Broward County."

The decision was made to create a thirty-year vision with a two-year implementation plan for art projects associated with the 2000 Broward County Safe Parks and Land Preservation Bond as well as a ten-year implementation plan for projects beyond the bond. Recommended projects in the ten-year plan expand upon those set forth in the two-year plan.

METHODOLOGY

In conducting research for the plan, the team members explored the county by foot, car, plane, and boat, uncovering the stories, processes, ecologies, and events that explain the landscape's complex mosaic. We studied or witnessed many of the region's phenomena acting upon the land, from tides, sheet flows, and rain to hurricanes, fire, and wind. We recorded our impressions, and came

away with a deep appreciation for the importance of water in shaping the South Florida region. We initiated dialogues with government agencies such as the Parks and Recreation Division, the Department of Planning and Environmental Protection, and the South Florida Water Management District. Two community meetings were held at each milestone and provided invaluable insights from Broward County's residents. At these meetings, the team heard about Broward's hidden processes and forgotten histories as well as missed and future opportunities. We also learned which outdoor experiences the residents consider important.

The *Preliminary Concept & Research Report*, the companion volume to this document, presents detailed information collected about Broward's complex mosaic of natural and built systems, and it includes a bibliography of additional resources.

OPPORTUNITY

The Broward County Environmental Art Master Plan presents an exciting opportunity to connect people to the environment through an experience of art. A key goal is to create links, both physical and emotional, to the natural systems that surround us. Art can provide metaphors and narratives for the expression and integration of diverse habitats while embracing social and ecological processes-in-motion. It can immerse people in the changing nature of the landscape by revealing the performative aspect of social and ecological processes. With this in mind, the Art Master Plan gives a framework for conceptualizing, locating, and linking art projects within the unfolding drama of Broward's landscape ecology.

To fulfill this vision, the plan builds upon and responds to important county initiatives. It applies imagination to programs and goals such as creating a sense of place, developing Naturescapes, improving parks, preserving environmentally sensitive lands, as well as providing movement corridors for people, wildlife, and natural processes. It also proposes new initiatives that engage people through aesthetic and perceptual experiences of water, eco-communities, cities, parks, and nature preserves. With the implementation of the Art Master Plan, we can employ art as idea, place, and action—to fix damaged ecosystems and to engage people with moving images of dynamic ecosystems.

One of the biggest opportunities afforded by the plan is its bioregional scope. This allows projects to be conceived and implemented comprehensively, drawing upon the strengths of the county as a whole. It also places Broward County within the context of South Florida. Not only can we connect people to the environment through an

While conducting our research, we were like detectives, trying to uncover the stories, events, ecologies, and processes that explain the landscape's complex mosaic.

experience of art but we can also restore the environment—further catalyzing action and partnering to ensure the continuation of the effort.

RECOMMENDATIONS

In this final *Theater of Regeneration* Environmental Art Master Plan, sixteen projects are linked by eight physical and conceptual loops. This Art Network of interrelated projects traces a remarkable diversity of journeys that offer encounters with the developed and the wild, the past and the present, and the imaginary and the real in Broward’s eleven eco-communities.



Lorna Jordan & Paul Sorey, Justice Garden Path

The projects are set forth in two- and ten-year implementation plans within a thirty-year period. Two projects are selected for completion in the two-year increment, and fourteen are recommended for the ten-year implementation period. There is currently \$1,350,000 to implement the projects in the two-year plan. For the ten-year plan, it is recommended that the county develop partnerships, share resources, and build constituencies as part of the Environmental Art Master Plan’s ongoing implementation. Stewardship of the plan and its resulting projects is key if the initiative is to endure and flourish over its thirty-year span and beyond.

For the Art Plan’s first two years, priority is given to projects that establish a comprehensive foundation for the future of the *Theater of Regeneration*. Site-based works at Long Key Natural Area and Central Broward Regional

Park manifest the conceptual vision behind the Art Plan, bringing both the past and the future into focus within natural and urban settings. These two “anchor” sites are located on significant loops and were chosen because of the potential to conceive of the Art Network as an emerging whole.

Fourteen ten-year projects then expand the vision, and range in size, scope, media, and complexity. The first projects within the ten-year plan move forward with systems-based works—greenways, blueways, communication projects, interactive pieces, and large-scale ecological works—that help to publicize and build support for the plan and the nascent Art Network. The layering of *site-related* projects with *system-related* projects will ramp up the implementation of the Master Plan in actuality and will form an image of the Art Network in the minds of county residents and visitors. Individual projects are explored in detail in this document.



The Environmental Art Master Plan and its implementation will position Broward County as a leader in environmental art by creating a living, evolving Art Network of idea, place, and action—a *Theater of Regeneration*. We have the opportunity to imagine what and how we—the art planning team and all the residents of and visitors to Broward County—will collectively mark the landscape over the next three decades. Will we think of ourselves as part of nature or as separate from it? Will the county maintain an exhibit of disconnected ecological remnants or develop a vital, ecological network that supports a sustainable interaction of people, water, natural processes, wildlife, habitat, infrastructure, and eco-communities? The artist and her team are ready to partner with the county and other stakeholders working towards the latter vision: to create an aesthetic, vital ecosystem that encompasses and activates the natural and built environments.

What was once assumed to be vast and inexhaustible has come to seem fragile and imperiled; what was once thought to be independent from culture — an inviolate other — has now come to be recognized as a cultural creation. Inhabited landscapes are clearly shaped by human action, but the survival of wilderness has also come to be seen as the consequence of deliberate choice.

—John Beardsley, *Earthworks and Beyond*

Environmental Art Precedents

INTRODUCTION

The Environmental Art Master Plan presents an unprecedented opportunity to forge a unique identity for the county's parks while reconnecting people to the natural and built environment. Our belief is that powerful, well-integrated public art can transform people's lives by linking their perceptions, senses, and intellects to the living systems that sustain them. Art can provide metaphors and narratives through which to express and integrate diverse habitats while embracing social and ecological processes-in-motion. Because of the diversity of ecological, biotechnical, educational, recreational, and cultural opportunities within the county, our goal is to help re-establish the intellectual and emotional connections that will ultimately draw people through the county's landscapes in a thoughtful way.

AN OVERVIEW OF ENVIRONMENTAL ART

"Environmental art was one of a number of movements, including process, minimal and conceptual art, that moved beyond the notion of art as static, isolated objects to be exhibited in an enclosed gallery space. Artists sought to break out of the confinement and isolation of their studios which physically and conceptually limited their creative possibilities. Working with unconventional materials, they elevated process itself to the status of art.

"Environmental art is a multi-directional movement that embraces many currents, including ecological art. Beginning in the late 1960s, artists explored the seemingly infinite number of ways that nature could be interpreted. No longer were their materials and media limited to canvas and paint, stone, clay and wood. These artists experimented with radically new ways of interpreting the natural world—its fragility, power, processes, textures and the essence of site. They also wanted to change perceptions of art and nature by framing and magnifying both innovatively. Some artists were interested in communicating the totality of nature's interrelationships and through ecological art, proposed solutions to environmental problems. What united all of these arts was their emergence from the studio and their direct engagement with the natural world.

"One aspect of environmental art is how it continuously changes as it responds to life's cycles and rhythms. Nature sometimes determines the form and content of a work. Once completed, the piece continues to evolve in tandem with natural processes. As a result, art and nature merge and become indistinguishable from each other. This is particularly true of artworks that interpret the processes of growth through the plantings of grasses and trees. These early investigations provide one of the foundations for ecological art, which centers on the physical revitalization of the environment. [Barbara Matilsky, *Fragile Ecologies*]

Outdoor Installation Art

Much environmental art can be considered installation art. Many artists and critics have called installation a way to express a "total work of art," because it borrows from a variety of disciplines. In contemporary art, this can be traced back to the activities of the "land art" of the 1960s, such as this piece called *Spiral Jetty* by Robert Smithson. The environment plays host to the work and often is its point of origin, giving rise to a mutually dependent relationship in which the artworks are "site specific."

Lightning Field, another fascinating outdoor installation, is by Walter de Maria. Four hundred stainless steel poles stand in a flat, semi-arid basin in New Mexico. Most of the time, the piece provides an experience in the demarcation of space. But every now and then it becomes a means to observe the awesome natural phenomenon of lightning discharging on the rods. This piece approaches the sublime as it interacts with the natural world.



Robert Smithson, *Spiral Jetty*

Theater is an important aspect of installation art. Early forms took place against the backdrop of the city, and were clearly part of the urban fabric so that life became



Walter de Maria, *Lightning Field*

art and art became life. *The Dance Steps on Broadway* by Jack Mackie are embedded into the sidewalk and encourage people to step out of their normal activities. The concept of the total artwork is further defined by experience and spectacle.

In installation, the term "looking" is superseded by the concept of participating, which assumes a higher involvement by the viewer. The work is best experienced rather than described or explained. So, it is up to the viewers to immerse themselves in the work, acting as both catalysts and receivers.

Ecoventions

“Coined in 1999, the term ecovention (ecology + invention) describes an artist-initiated project that employs an inventive strategy to physically transform a local ecology. Of course, artists don’t produce their projects on their own. They collaborate with community members, and local specialists such as architects, botanists, zoologists, ecologists, engineers, landscape architects, and urban planners to realize and evaluate their scientifically complex projects. It should be stressed that there are several different categories for art that involves nature—land art, Earthworks, environmental art, and ecological art.

“Ecovention is defined as an artist’s aesthetic invention and/or intervention within the context of an ecosystem. Its aesthetic components may be both visible and invisible, with a primary emphasis on regional site-specific projects that concern restoration, reclamation, renewal and rejuvenation of polluted and damaged wastelands.

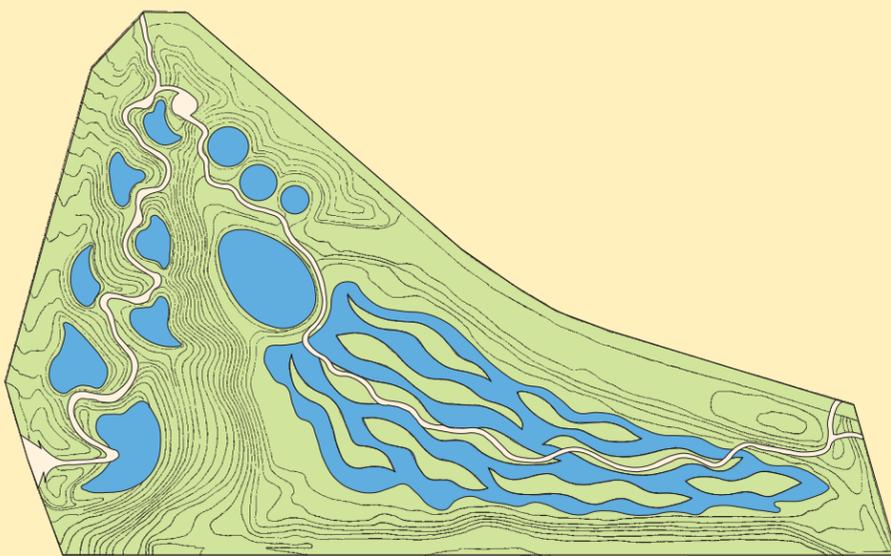
“There is a growing movement of artists who are actively at work finding ways to creatively solve ecological problems. They are breaking out of the traditional confines of what is considered art by engaging in real world issues and daring for their art to have a function — thereby calling into question the very framework within which we define art. For years now, writers such as Suzi Gablik and Lucy Lippard have been championing a social role and

function for art, rejecting the notion that aesthetics can not serve anything but itself and its own ends.

“Artists have entered into the new scientific field of restoration ecology. They are reaching out across disciplines and helping to bridge the gap between art and life by raising awareness and appreciation of our natural resources. By giving aesthetic form to restored natural areas and urban sites, these artists are engaging in a collaborative process with nature, practicing a socially relevant art. They are helping to create a new paradigm by proving that art can contribute to a society as a whole, not merely in the politically correct sense or as a social critique, but rather by participating directly in the world. By focusing on the interrelationships between the biological, cultural, political or historical aspects of ecosystems these artists are working to extend environmental principles and practices directly into the community.

“Ecoventions include 1) activism to publicize ecological issues/monitoring ecological problems, 2) valuing anew/living with brownfields, 3) biodiversity/accommodating species/studying species depletion, 4) urban infrastructure/environmental justice, and 5) reclamation and restoration aesthetics. [Sue Spaid, *Ecovention: Current Art to Transform Ecologies*]

SITE-SCALE CASE STUDY: An Environmental Art/Public Works Project *Waterworks Gardens* by Artist Lorna Jordan



(above) earth/water sculpture that treats stormwater and enhances a wetland



(above) King County's East Division Reclamation Plant in Renton, WA, before artist's design

When artist Lorna Jordan joined the design team, King County was trying to figure out how to disguise a 95-acre wastewater treatment plant that processes 100 million gallons per day. Instead of an “out of sight, out of mind” approach, the artist proposed an environmental art/public works project that invites people to observe the processes of water purification while connecting them to the cycles and mysteries of water. *Waterworks Gardens* treats stormwater by natural means, enhances a wetland, provides garden rooms, and creates eight acres of new open space for public use. Stormwater runoff is collected from the grounds of the wastewater reclamation plant and pumped into 11 ponds where contaminants and sediments are allowed to settle. The water is then released into the wetlands below, where it helps sustain plants, microorganisms, and wildlife. The stormwater treatment ponds and the wetlands form an earth/water sculpture that funnels, captures, and releases water.

With the garden as its conceptual framework, the project communicates a story about the purification of water. Landforms, plantings, bodies of water, and garden rooms are expressed abstractly as a flowering plant, symbolic of the plant’s power to cleanse water through filtering. The progression of five garden rooms engages the visitor on an intimate scale and follows the stages of the water cycle: impure, working, mysterious, beautiful, and life-sustaining.

Waterworks Gardens: Garden Rooms



Garden Rooms

The Knoll

This feature evokes the root of the plant through its use of stone and metal and its underground watercourse. Stormwater spills into a grate-covered channel that cuts through the geometry of a basalt colonnade. The columns' perspective focuses the view toward an overlook, then onto the first stormwater pond and the wetlands below. Red quartzite and pebble paving suggest a river wash and echo the flow of the grate-covered water. At the overlook, the water splashes into the open system of ponds.



The Funnel

The Funnel consists of a series of terraced leaf-shaped ponds connected by the path, which assumes the form of a stem. As the visitor travels down the hill, landforms heighten, the leaf-shaped ponds become smaller, and the plants are taller.



The Grotto

At the bottom of the hill, cleansed stormwater cascades into the Grotto, which is shaped like a seed pod. Craggy shotcrete walls, evergreen plantings, a fountain, water seeps, and pools create a dank, fertile environment. A mosaic in the form of a sprouting seed pod is inlaid on the ground plane, walls, and benches. Mahogany-red beach pebbles sprout from the sea-blue marble pod underfoot and trace rootlike tendrils up the grotto walls. Richly textured benches of multicolored marble and pebbles provide a place for repose.

The Passage

Traversing the Passage evokes a sense of calm. The path runs along a row of Lombardy poplars and past three circular ponds, which symbolize the fruit of the plant.



The Release

In the Release, cleansed water passes from the pond system to the wetlands, and from there to Springbrook Creek. The ribbonlike islands and channels are reminiscent of a flame/flower form and are reinforced by bands of native plantings. The path meanders through the wetlands and connects with regional trail systems.

SYSTEM-SCALE CASE STUDY: Multiple Environmental Art Projects Organized Under a Single Conceptual Framework
***Watershed Illuminations* by Artist Lorna Jordan**

Watershed Illuminations is an artist-initiated program that reveals and enhances watersheds. Using a strong sense of place to heighten experiences of dynamic watershed ecosystems, the initiative helps communities understand their relationship to these dramatic land forms carved by water. Each project tells a story about the social and ecological processes written on its landscape and points towards a sustainable future.

Although the water cycle is a mighty force that carves the earth into watersheds, humans further affect watersheds through their activities. System-level thinking is critical because fisheries, surface waters, groundwaters, and entire aquatic food chains are at risk. Environmental artworks within the program creatively address problems using aesthetic and functional solutions meant to regenerate the landscape, create a sense of place, raise awareness, initiate change, inspire awe, and provide pleasure. The interrelationships of human development patterns, natural processes, and habitats of other species are considered at each site. Each design solution expresses the ecology of the place—presenting a means to both understand and better position ourselves within larger watershed ecosystems.

Moving through the sequence of places within *Watershed Illuminations*, people perceive open-ended narratives about how we mark the land and influence the water cycle. People are not merely spectators but are invited to become participants in the unfolding drama of landscape ecology. Their experiences trigger the imagination, engendering emotional and perceptual connections to watersheds.



Inner City Watershed

Westlake Gardens: Urban Watershed as Urban Flow

Westlake Gardens: Urban Watershed as Urban Flow is a pilot project of the *Blue Ring*, Seattle’s open space strategy for center city. The project highlights the hybrid and changing nature of Seattle’s urban landscape while focusing on our culture of rain. Applying a new typology of the street as urban watershed, the design demonstrates both poetic and functional ways to capture, reveal, use, and treat water within buildings, gardens, promenades and gathering places. Thoroughfares and outdoor rooms act as metaphoric urban streams with flows and eddies. This infrastructure-as-place approach connects people to the watershed ecosystems that sustain them.

Westlake Avenue is currently a wide and underutilized street that cuts across the pattern of the urban street grid; it is also the low point of the area, resembling an abandoned stream bed that once drained to Lake Union. The layering of multiple urban flows yields a beautiful infrastructure of streets, water, parks, lights, and people, all spilling down to the lake, one of Seattle’s largest open spaces..



Agricultural Watershed

Justice Garden Path at the King County Regional Justice Center

Justice Garden Path is the front entry for the Regional Justice Center in Kent, Washington. It is located in a fertile floodplain where rich sediments wash down from higher elevations in the watershed, yielding soils conducive to growing crops. The project celebrates the agricultural history of the Kent Valley and consists of two intertwining paths, circular perennial gardens, trees, and a vine-covered pergola. While pathways form a braid linking the center to the downtown Kent community, golden hops climb a pergola inspired by the once ubiquitous hop poles of the White River Valley. Some say the name “Kent” came from the founders’ vision of a hops culture that would rival that of the county of Kent in England. These poles, once a common sight at farms in the Kent Valley, are a reminder of the crop’s past importance to the area’s economy.

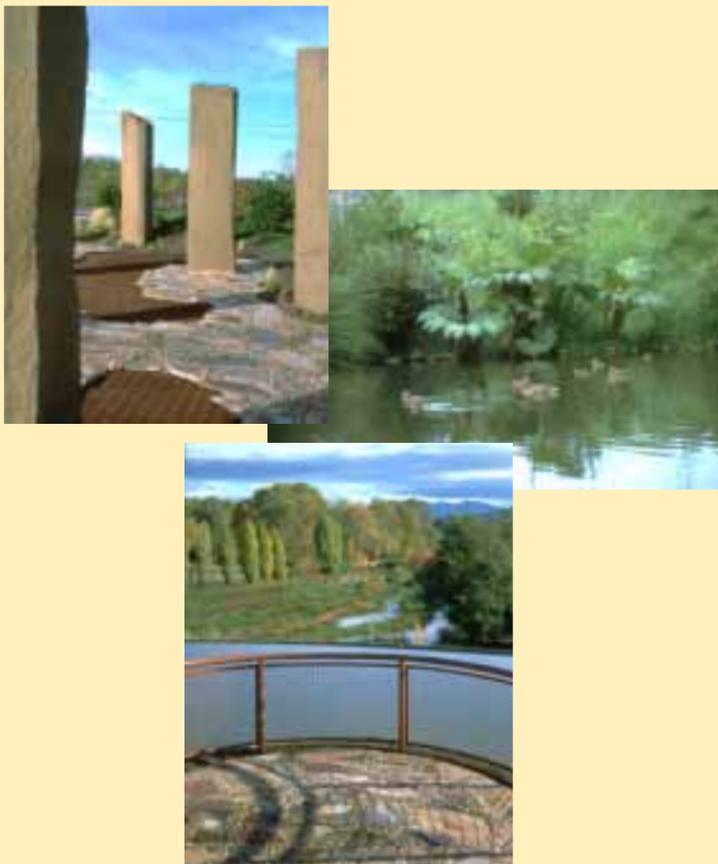
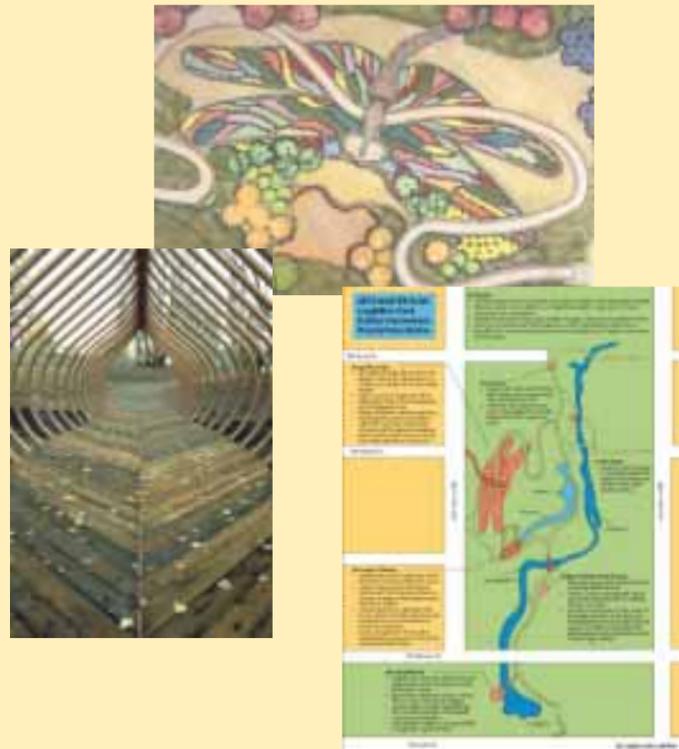
The project also considers the healing powers of garden spaces and hops are a medicinal plant traditionally used for calming. It has been recommended that inmates from the Regional Justice Center grow and care for plants in the garden. Horticulture therapy has been practiced successfully at other correctional institutions. The act of working toward a common goal can create a positive societal link, while the braided path creates a symbolic and physical link to the agricultural history of the Kent Valley and the community.

Urban Creek Watershed

Longfellow Creek Habitat Improvement Project

The *Longfellow Creek Habitat Improvement Project* is part of a large-scale effort to protect and restore Seattle's creeks as backyard natural resources. The project improves drainage, restores wildlife and fish habitat, and connects people to the environment. It also supports the Delridge Neighborhood plan to develop creekside access and trails. The restored watershed illuminates the wonders of the creek and educates people about bringing salmon back to the city, water-wise gardening, and other sustainable strategies.

The artwork provides an additional layer over the site and connects people to the place through a series of outdoor rooms. These include water-cleansing earthworks, cascades, promenades, overlooks, bridges, and a pavilion. For example, a Bridge Pavilion is adjacent to a fish spawning area and provides a terrestrial echo of the underwater habitat. The Dragonfly Garden provides a dramatic entry to the site and includes a pavilion, earthworks, and waterwise plantings. The goal of the artworks is to provide an experience of the site's ecological diversity and the creek's role in draining water into Puget Sound while also protecting its habitats.



Infrastructure Watershed

Waterworks Gardens

Waterworks Gardens is an environmental art/public works project that invites people to observe the processes of water purification while connecting them to the cycles and mysteries of water. The project uses natural systems to treat stormwater, enhances a wetland, provides five garden rooms, and creates eight acres of new open space for public use. Stormwater runoff is collected from the grounds of the wastewater reclamation plant and pumped into 11 ponds where contaminants and sediments are allowed to settle. The water is then released into the wetlands below, where it helps sustain plants, microorganisms, and wildlife. The stormwater treatment ponds and the wetlands form an earth/water sculpture that funnels, captures, and releases water.

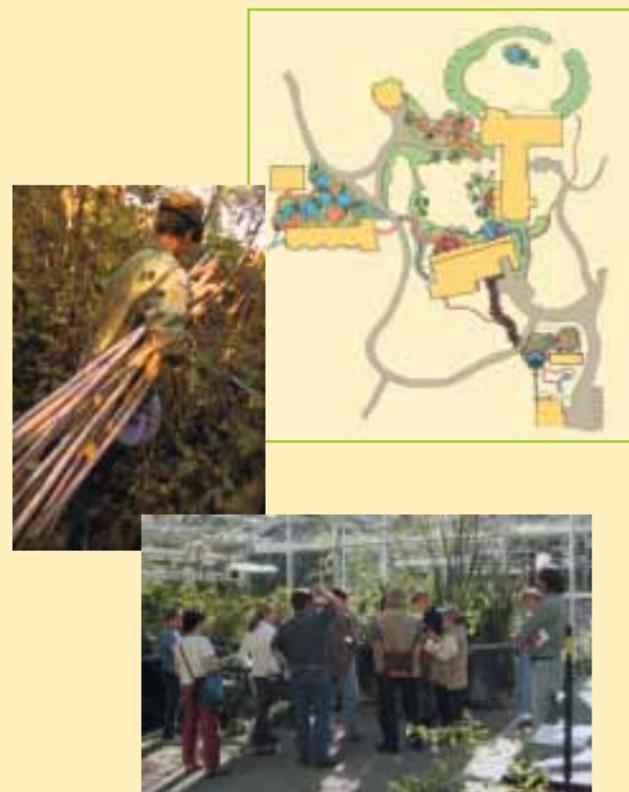
With the garden as its conceptual framework, the project communicates a story about the purification of water. Landforms, plantings, bodies of water, and garden rooms are expressed abstractly as a flowering plant, symbolic of the plant's power to cleanse water through filtering. The progression of five garden rooms engages the visitor on an intimate scale and follows the stages of the water cycle: impure, working, mysterious, beautiful, and life-sustaining.

Educational Watershed

The Art of Habitats at Islandwood

Islandwood is a non-profit residential educational facility serving students, teachers, and families in the greater Seattle area. The mission of Islandwood is to teach environmental and community stewardship by linking ecology, technology, and the arts. Located on 255-acres on Bainbridge Island, the site has a rich natural history, including: a watershed, cattail marsh, bog, second-growth forest, earthen dam, pond, and a stream with potential for salmon restoration. The school features "green" architectural elements throughout and the buildings and surrounding gardens provide a living laboratory for sustainable design.

The Art of Habitats is an environmental artwork and integrated sequence of gardens around the Educational Core, providing a magical experience of human and animal habitats. Based on the premise that people who understand their own habitat will be more likely to become stewards for habitats of other species, the gardens aim to provide a transformative experience. Inspiration for the design is taken from the ingenious methods that humans and other species have devised to secure food, shelter, water, and space. To reveal the many qualities and uses of water, several sculptural water elements are located where rainwater runs off the buildings' roofs. Water is captured and used for support of habitat, garden irrigation, power generation, and aesthetic pleasure.



A Theater of Regeneration: Towards an Aesthetic of Layers, Loops, & Lenses

CONCEPT

The landscape tells a story—through its palimpsest of layers—about the loops of processes that leave their marks over time. This theater of forces emanates from both the built and natural environments and plays upon the landscape, obscuring and revealing what has come before. At any one moment, each of us can experience this palimpsest of layers while simultaneously playing a part in the vast performance of flows being recorded on the land.

In reviewing the social and ecological history of the region, three themes emerged to conceptualize, locate, and link art projects that become both stage set and player in the unfolding drama of landscape ecology:

- 1. Layers of physical, biological, and cultural characteristics**
 - discovering the topographical, hydrological, climatological, geological, vegetative, constructed, and sociological strata that are written on the landscape of Broward County
- 2. Loops of transportation corridors and process-based connections**
 - linking parks, special places, people, wildlife, and artworks through the experience of trails, boardwalks, greenways, waterways, and world-wide-web-ways
 - setting social and ecological processes-in-motion
- 3. Lenses of jewel-like artworks, performances, and activities as well as a way of experiencing sites, systems, & events**
 - synthesizing, focusing attention on, and providing aesthetic experiences of diverse characteristics, experiences, and meanings of Broward County's past, present, and future environments
 - expressing art-as-place through ecological infrastructure, living theater, and site-integrated sculpture/architecture

The drama and dynamics set in motion by the interplay of layers, loops, and lenses will yield a *Theater of Regeneration*. Places can be memory theaters that trigger internal emotions and narratives. With the commingling of the fictive and the real, the theater of the landscape allows the community to participate in creating the story

and to decide how they wish to experience it. Our goal is to immerse people in the changing nature of the landscape by expressing the performative aspect of social and ecological processes.

ART NETWORK

The Master Plan calls for a Network of multidisciplinary art projects that blurs the boundaries between sculpture, ecology, architecture, planning, and theater. The projects connect communities to the environments that naturally and efficiently sustain life. Recommended projects express an aesthetic of regeneration and provide an experience that celebrates the cycles and mysteries of dynamic ecological processes and, in particular, water. Projects will vary in scale from small interventions and temporary events to large-scale projects that address whole sites as artworks.

The Network can be entered at any point, either temporally or spatially and each project can be experienced on its own or as part of the whole. In order to fulfill the promise of the Art Master Plan, artworks will be more than objects in space. They will reveal the dynamics of ecological, physical, and social processes; create a sense of place; and tap into the memories and imaginations of people who encounter them. They will also embody the integration of idea, place, and action.

The Art Network engenders a passion and curiosity for the diversity of life, exciting the soul with the comfort of what is known and the anticipation of what is to be discovered. The journey through the Network of corridors and destinations:

- captures the essence of the Florida landscape and ecological communities
- reveals the systems that sustain us
- reflects the soul of our diverse communities
- brings people out into the landscape
- attracts ecotourism
- tells the story of water

We want people to be transformed by their experience of Broward County and its Art Network.

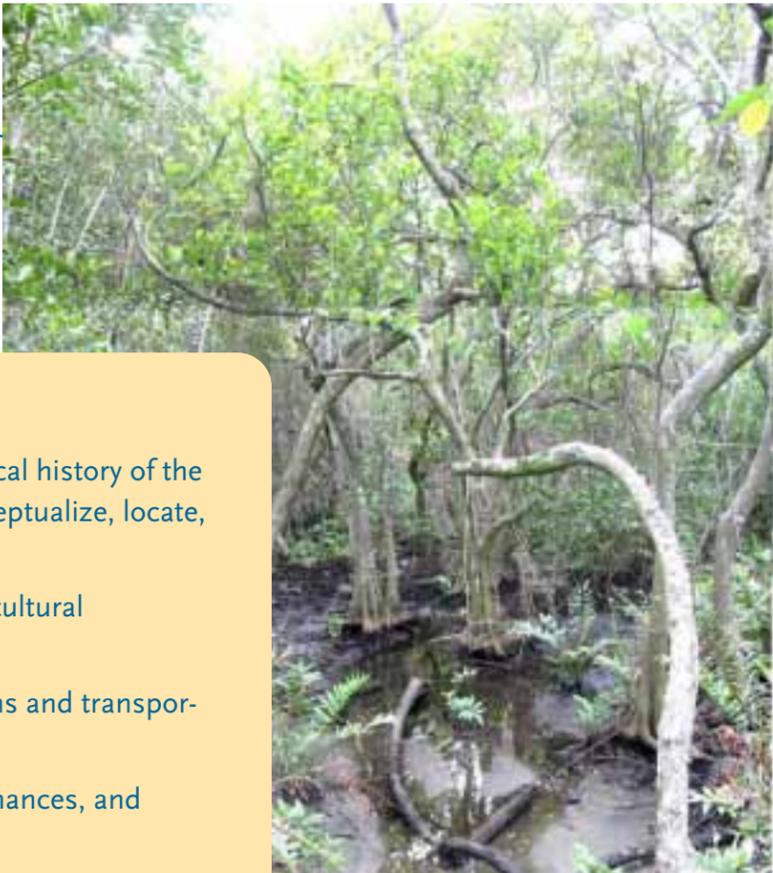
Palimpsest

- 1. A manuscript, typically of papyrus or parchment, that has been written on more than once, with the earlier writing incompletely erased and often legible.**
- 2. An object, place, or area that reflects its history: "Spaniards in the sixteenth century... saw an ocean moving south... through a palimpsest of bayous and distributary streams in forested paludal basins" (John McPhee).**

—dictionary.com

Narratives intersect with sites, accumulate as layers of history, organize sequences, and inhere in the materials and processes of the landscape. In various ways, stories "take place." Landscape not only locates or serves as a background setting for stories, but is itself a changing, eventful figure and process that engenders stories.

—Matthew Pottleiger and Jamie Purinton,
Landscape Narratives



A THEATER OF REGENERATION

While reviewing the social and ecological history of the region, three themes emerged to conceptualize, locate, and link art projects:

- **Layers** of physical, biological, and cultural characteristics
- **Loops** of process-based connections and transportation corridors
- **Lenses** of jewel-like places, performances, and activities

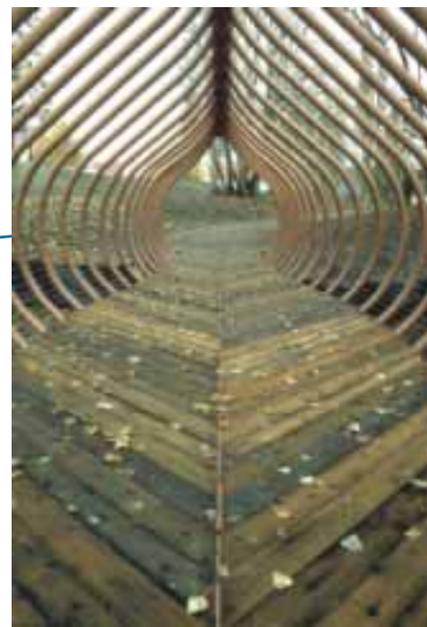


The Art Network is to have six interrelated and overlapping categories:

- Revealed and enhanced natural systems, habitats, and phenomena
- Revitalized urban ecosystems
- Sustainable agriculture, Naturescapes, and community gardens
- Marvelous structures, places, and connections
- Evocative happenings, community green mapmaking, and media
- Catalytic ideas

Imagine that the Art Network will:

- Engage people, not as spectators, but as participants in the unfolding drama of landscape ecology
- Create a microcosm that points towards the regeneration of Broward County
- Draw people through a series of poetic, sustainable, and integrated environmental art projects
- Use care and imagination to help knit together the ecosystems that support life in South Florida
- Connect people to Broward's special places while simultaneously transporting them someplace else by triggering imaginations and memories
- Elicit wonder, curiosity, contemplation, and hope



A FRAMEWORK FOR PROJECTS WITHIN THE ART NETWORK

Experience

What experiences will the artwork environments inspire?

- Curiosity
- Wonder
- Connectedness
- Safety
- Pleasure
- Adventure
- Contemplation



Community

What are the characteristics and needs of Broward's population?

- Involve local communities and hear place-based stories and needs
- Creatively accommodate public process
- Hold stakeholder meetings, workshops, and open houses
- Address issues surrounding environmental justice
- Consider access with site linkages and edges



Plan as Catalyst

How can the Public Arts Master Plan have an impact at different scales?

- Sites and connectors
- Neighborhood
- County
- State
- Nation
- Globe



Education

How do we connect people with nature?

- Involve people to inspire curiosity about Broward County's environment
- Work with communities to help enhance sites
- Provide non-didactic, aesthetic places that encourage exploration of the natural world
- Plan for intergenerational site mapping and research
- Coordinate with schools to promote environmental literacy
- Create web pages that inspire people and direct them to outdoor experiences

Habitat Restoration

What can we do to improve the habitats of the art sites?

- Discover which species dwell in these places and move through these corridors... rarely, sometimes, always
- Reconnect habitats to natural processes
- Restore habitats of the gopher tortoise, the sea turtle, the manatee
- Consider terrestrial and water habitats, such as nesting sites and coral reefs
- Help eradicate invasive species and reveal the ongoing process of "survival of the fittest" with native species
- Provide for the needs of other species both now and in the future



Resources

How do we demonstrate sustainability?

- Water treatment
- Water reuse/cisterns
- Porous paving
- Eco-roofs
- Permaculture
- Naturescape
- Recycled materials
- Local materials
- Solar energy
- Natural ventilation
- Artificial reefs
- Sustainable techniques of other species
- Green infrastructure



Planning/Design

How will the artworks address their environments?

- Plan for artworks that become both stage set and player in the unfolding drama of landscape ecology
- Design with an eye to the practical, the poetic, the delightful, and the sublime
- Provide metaphors and narratives through which to express and integrate diverse habitats
- Embrace social and ecological processes-in-motion
- Conceive of sites as "outdoor classrooms"
- Respond to natural forces and phenomena
- Reflect and enhance surrounding habitats
- Integrate art, nature, science, and technology
- Provide a focus for the water that subtly surrounds and literally flows under and around people every day



ARTWORK TYPOLOGIES & GOALS

ARTWORK TYPOLOGIES

The artworks are to be arranged in categories with permeable boundaries. The purpose of the categories is not to be restrictive but to express the range of possibilities.



Lorna Jordan, Waterworks Gardens

REVEALED & ENHANCED NATURAL SYSTEMS, HABITATS, & PHENOMENA:

Restoration of Water Systems/Landscapes, Improved Habitat for Other Species, Biological Diversity, Phenomenological Processes, and Outdoor Laboratories



REVITALIZED URBAN ECOSYSTEMS: Green Infrastructure, Outdoor Classrooms, Eco-Art Laboratories, Eco-morphic Buildings, and Brownfield Restoration

MARVELOUS STRUCTURES, PLACES, & CONNECTIONS:

Pathways, Boardwalks, Bridges, Gathering Places, Pavilions, Access to Natural/Urban Areas



Jersey Devil

SUSTAINABLE AGRICULTURE, NATURESCAPE, & COMMUNITY GARDENS:

Ethnobotany, Permaculture, Native Plant Nurseries, Naturescape Demonstrations, and Community and Schoolyard Gardens



Lorna Jordan & Paul Sorey Justice Garden Path



CATALYTIC IDEAS:

Artist Residencies, Think Tanks, & Planning



Buster Simpson, River Roloids

EVOCATIVE HAPPENINGS, COMMUNITY GREEN MAPPING, & MEDIA:

Community Actions/Celebrations, Green Mapmaking, Art Interventions/Performances, Temporary Installations, and Media Works (audio, print, sound, and web)

GOALS

1. Provide metaphors and narratives through which to express, integrate, and enhance diverse habitats
2. Embrace social and ecological processes-in-motion
3. Conceive of sites as “outdoor classrooms”
4. Respond to natural forces and phenomena
5. Integrate art, nature, science, and technology
6. Connect natural and human ecosystems
7. Tell the story of water

BROWARD COUNTY'S WATER

The history of Broward County is one of land inundated by water. The story of water and the framework of watersheds provide a filter for viewing Broward's various ecologies.



THE PRESENCE OF WATER

Water is the lifeline for both natural and urban systems here. It's a major physical presence that includes:

- crashing surf of the ocean to the east
- oozing of the canals, waterways, and storm- and wastewater systems throughout
- wetlands that hold water
- silence of the underground rivers and aquifers
- planar flow of the Everglades to the west
- storms with the splatter of rains and thunderous down-pours that fund the whole system



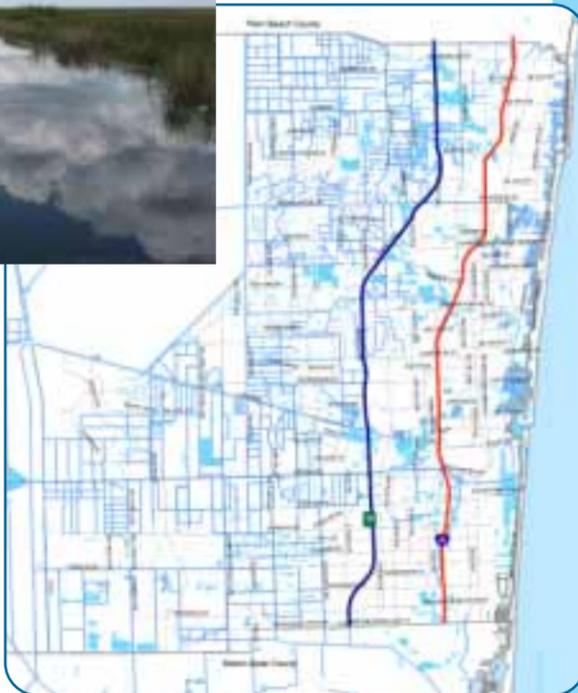
THE MYSTERY OF WATER

- Water is a poetic and mysterious substance
- It has many forms: solid, liquid, and vapor



THE USES OF WATER

- Water cleanses, irrigates, and provides habitat



THE INFRASTRUCTURE OF WATER

- As human development progressed, water was rerouted from the Everglades to the Atlantic Ocean in canals that controlled flooding, provided transportation, and supported agriculture
- Much of Broward has been drained and many of the eco-communities now need hydrologic restoration
- The natural and human-made infrastructures of water in Broward County are inextricably linked
- The canals, control structures, water treatment plants, and stormwater treatment ponds all have a profound effect on the natural hydrologic cycle

BROWARD COUNTY'S ECO-COMMUNITIES



BEACH AND DUNE COMMUNITY

This community is composed of unconsolidated sand facing the open ocean and shaped by the wind, waves, currents, and tides. Behind the beach, sand may be piled up by the wind, forming dunes. Key

to pronounced dune growth are adequate sand supplies and the existence of pioneer vegetation.



COASTAL STRAND FOREST COMMUNITY

Behind the beach and dunes, forest trees are able to grow protected from salt spray and in soils with some accumulation of organic material. Most species are of Caribbean origin, brought to our shores as seeds by tropical currents, storms, and migrating seed-eating birds. The tropical hardwood hammock is more

specifically called the coastal strand forest.

MANGROVE COMMUNITY

Mangrove swamps occur in estuaries, on sheltered coasts, and in protected bays and waterways of tropical and subtropical shallow waters. Mangroves are comprised of salt tolerant trees and shrubs which grow as far inland as the tide ranges. The term "mangrove" encompasses not only a community of plants

of several unrelated families/genera, but also the entire habitat, including animals and highly organic soils.



SCRUB COMMUNITY

Scrub is a plant community found on deep, well-drained sand deposits, almost exclusively in Florida. Due to excessive drainage and intense sunlight, Florida scrub is a harsh, desert-like environment inhabited by adapted plants and animals.



PINE FLATWOODS COMMUNITY

Pine flatwoods occur where soils are poorly to well drained and elevation is fairly uniform. Slash pine and saw palmetto predominate in this fire-adapted community. Fire eliminates dense vegetation and allows sunlight to penetrate to the understory, encouraging the growth

of pine seedlings, grasses, herbs, and shrubs.



HIGH HAMMOCK COMMUNITY

High hammock forests are among the most diverse systems in South Florida, with more than 100 species of trees and shrubs. They represent the climax community in South Florida. Widely distributed, they develop only where elevation and fire protection are favorable. Hammocks develop slowly as organic material accumulates. Temperate and tropical plant species are present, causing

diversity in high hammocks.



LOW HAMMOCK COMMUNITY

Low hammocks are areas of dense forest vegetation dominated by tree species such as laurel oak, strangler fig, and cabbage palm. Low hammocks develop on land that is of sufficient elevation to be seldom flooded, but in close proximity to water environments, and is protected from fire. They frequently occur in transitional areas between drier upland communities and lowland vegetation types, such as marsh, wet prairie, cypress swamp, or mangrove.



CYPRESS WETLAND COMMUNITY

Cypress wetlands occupy the freshwater lowlands of the Atlantic Coastal Plain from the Carolinas to Florida, and along the Gulf of Mexico west to Texas. Temperate deciduous trees dominate areas which are seasonally flooded. Flooding is necessary for the germination of cypress seeds; however, once established, young trees can grow in the absence of seasonal inundation.



EVERGLADES COMMUNITY

The Everglades is a flat expanse of freshwater wetland dominated by sawgrass and dotted with tree islands. Lake Okeechobee lies at the head of this shallow, water-filled basin. Before drainage canals were constructed, the water from the lake overflowed into the northern Everglades and, augmented by rainfall, moved slowly southward. Although this sheetflow has been manipulated by man, freshwater remains the key to the survival of the Everglades.



OCEAN/REEF COMMUNITY

The Atlantic Ocean is a vast expanse of water that extends along the east coast of Broward County. It provides habitat for many species of saltwater fish. Coral reefs occur near the shore, and provide some of the most productive habitat in the ocean. In addition to providing rich habitat, coral reefs protect coastal areas from the powerful forces generated by storms.



HUMAN COMMUNITIES

These communities include buildings, infrastructure, and cultivated lands: roads, highways, bridges, landfills, parks, natural areas, vacant lands, brownfields, marinas, agricultural fields, cities, suburbs, neighborhoods, shopping centers, canals, and levees. Humans are the dominant species and our survival depends on the understanding that our communities are a subset of larger, natural systems.



BROWARD COUNTY'S GREENWAYS



Map Index*	Name	Approx. Length Miles	Location	Type	Map Index*	Name	Approx. Length Miles	Location	Type
1	C-14 Canal / Cypress Creek Greenway	**12.9	C-14 Canal	Multipurpose Path	23	Sunrise/Plantation Trail	5.0	Canal	Multipurpose Path
2	Riverside Dr. Canal Trail	1.5	Riverside Dr. Canal	Multipurpose Path	24	Middle River Trail	9.2	Water Trail	Water Trail
3	N. Lauderdale South Trail	2.8	Canal	Multipurpose Path	25	C-12 Canal Trail	6.5	C-12 Canal	Multipurpose Path
4	Snook Creek	3.0	Snook Creek Canal	Water Trail	26	5th Ave. Trail	2.9	Canal	Multipurpose Path
5	Cypress Creek	3.0	Cypress Creek Canal	Multipurpose Path	27	New River Loop	25.0	Water Trail	Water Trail
6	Conservation Levee	48.4	Levee	Multipurpose Path	28	Nob Hill Trail	3.0	Nob Hill R.O.W.	Multipurpose Path
7	New River/SR 84 Greenway	11.7	SR 84/New River R.O.W.	Multipurpose Path	29	Griffin/Orange Dr. Greenway	13.6	C-11 Canal	Multipurpose Path
8	Hiatus Rd. C-42 Canal Trail	5.3	C-42 Canal	Multipurpose Path	30	Davie Trails		City-wide	M. Path, B. Lnes, Swalks
9	Flamingo Road Trail	10.9	Flamingo Rd. R.O.W.	Multipurpose Path	31	West Trail FPL R.O.W.	4.0	Power Easement	Multipurpose Path
10	Dixie Highway/FEC Trail	28.6	Dixie Hwy./FEC R.O.W.	M. Path, B. Lnes, Swalks	32	Central Trail FPL R.O.W.	14.3	Power Easement	Multipurpose Path
11	Hillsboro Canal Greenway	12.7	Hillsboro Canal	Multipurpose Path	33	Rock Creek FPL R.O.W.	3.0	Power Easement	Multipurpose Path
12	Parkland Trail	1.7	Canal	Multipurpose Path	34	C-9 Canal Trail	9.6	C-9 Canal	Multipurpose Path
13	Creek/Springs FPL R.O.W. Trail	7.6	Power Easement	Multipurpose Path	35	C-10 Canal Trail	3.2	C-10 Canal	Multipurpose Path
14	Rock Island Road FPL R.O.W. Trail	11.1	Power Easement	Multipurpose Path	36	The CSX Trail	5.5	CSX R.O.W.	Multipurpose Path
15	Coconut Creek Trails		City-wide	M. Path, B. Lnes, Swalks	37	Pembroke Pines / Hollywood Trail	13.6	Pines Blvd. R.O.W.	M. Path, B. Lnes, Swalks
16	Turnpike Greenway	17.1	Turnpike R.O.W.	Multipurpose Path	38	172nd Ave. Trail	5.7	172 Ave. R.O.W.	M. Path, B. Lnes, Swalks
17	Pompano Air Park	4.4	Existing Path	Multipurpose Path	39	Miramar Parkway Trail	9.0	Miramar Parkway R.O.W.	M. Path, B. Lnes, Swalks
18	NE 15 Ave/SE 2 Ave Trail	2.5	NE 15th/SE 2 Ave. R.O.W.	Multipurpose Path	40	Southwest Ranches Equestrian Trails			Equestrian Trails
19	NE 26 Ave. Trail	1.5	NE 26 Ave. R.O.W.	Multipurpose Path	41	Parkland Trails		City-wide	M. Path, B. Lnes, Swalks
20	Intracoastal Waterway	19.7	Water Trail	Water Trail					
21	SR A1A Trail	25.7	A1A R.O.W.	M. Path, B. Lnes, Swalks					
22	C-13 Canal Trail	8.1	C-13 Canal	Multipurpose Path					

* Map Index for reference only. Numbers do not indicate priority ranking.
 ** 10.6 miles are along the C-14 Canal
 Phase One Greenway Corridors

Broward County Board of County Commissioners:

Josephus Eggleton Jr. Ben Graber Sue Gunzburger Kristin D. Jacobs Ilene Lieberman Lori Nance Parrish John E. Rodstrom Jr. Jim Scott Diana Wasserman-Rubin

BROWARD COUNTY'S PARKS & LANDSCAPES

Parks, Natural Areas, Preservation Lands, Open Spaces, Corridors, Agricultural Lands, & Plazas



CORRIDORS



RECLAIMED LANDFILLS



HABITAT FOR OTHER SPECIES



CONTEMPLATIVE PLACES



STORMWATER RETENTION



OUTDOOR CLASSROOM & LABORATORY



ACCESS TO NATURAL AREAS



AGRICULTURAL HERITAGE PRESERVE



CONNECTION TO WATER



GATHERING PLACES



RECREATION AREAS

PARTNERSHIP OPPORTUNITIES



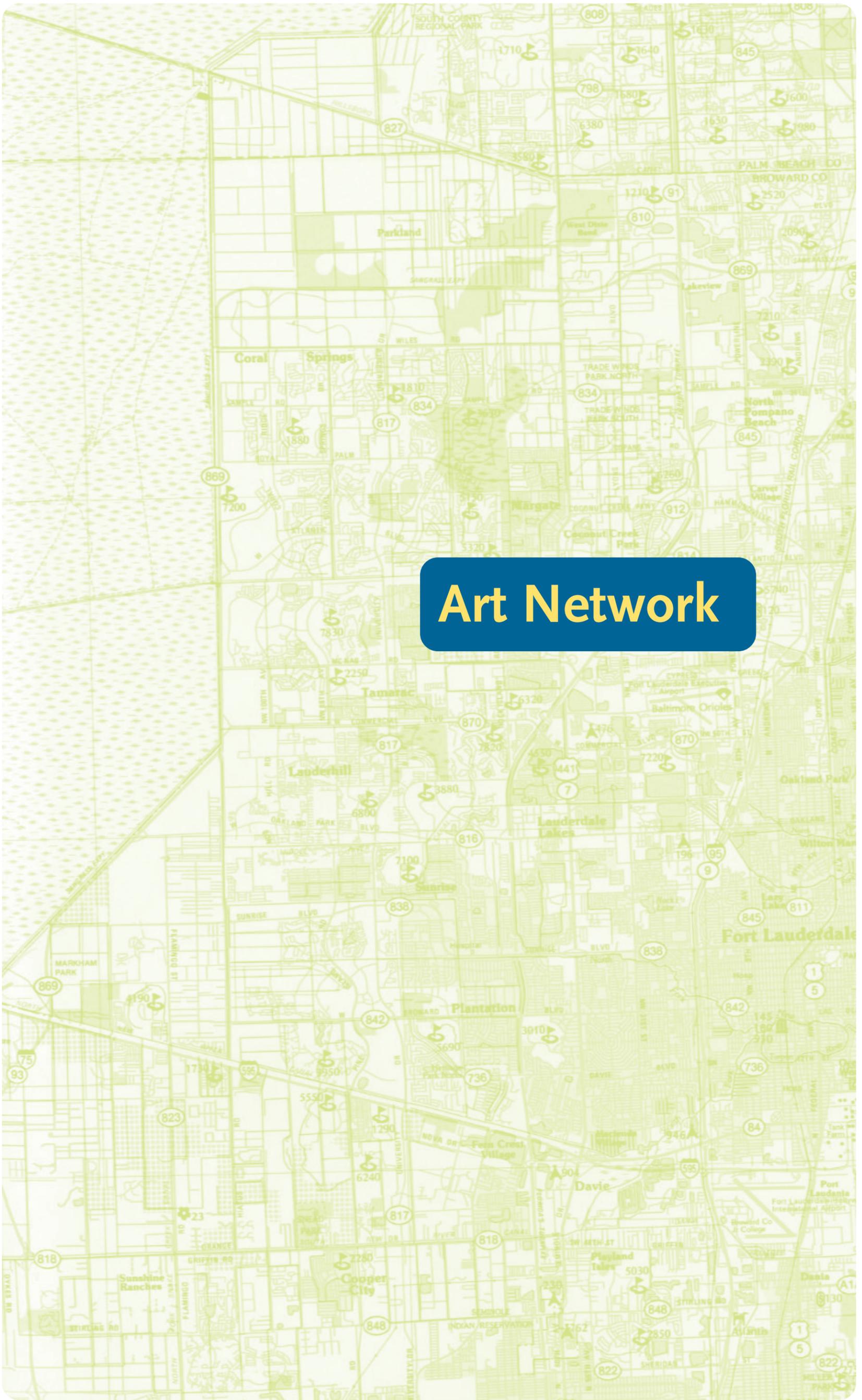
BROWARD COUNTY:

Parks and Recreation Division
Department of Environmental Planning and Protection (DPEP)
Agricultural Extension Service
Department of Public Works

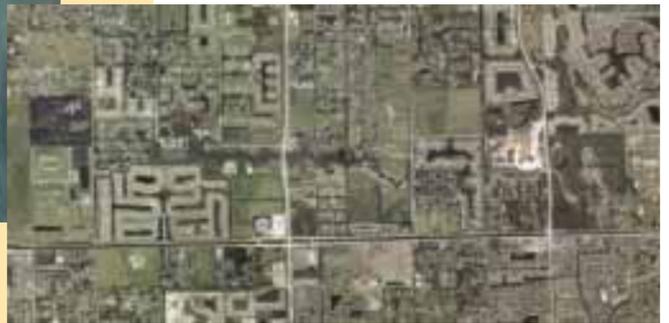
OTHERS:

Broward Urban and River Trails (BURT)
Environmental Groups
Native Plant Society
Nature Conservancy
Neighborhood Associations
Landfills
Private Developers
Schools K-12
Sierra Club
South Florida Regional Planning Council
South Florida Water Management District (SFWMD)
State of Florida
Trust for Public Lands
U.S. Government (including Army Corps of Engineers)
Universities
 Florida Atlantic University
 Nova University
 Others





Art Network



Art Network Description

The *Theater of Regeneration* provides for an Art Network of systems, sites, and events that connect people to the environment through an experience of art. The community will respond to and affect the stories, ecologies, and processes that create the landscape's complex mosaic. The Network traces a remarkable diversity of journeys that offers encounters with the developed and the wild; the past and the present; and the imaginary and the real.

The Art Network is a system of loops and lenses revealing the ecological, social, cultural, natural, phenomenological, geographical context and historical layers of Broward County within South Florida. These loops and lenses encompass a full range of environments, including: eco-communities, tree islands, landfills, permaculture and Naturescape demonstration gardens, parks and natural areas, urban river trails, cities, industrial areas, beaches, and underwater gardens.

The eight *loops* are either physical routes that lead residents and visitors to selected sites or they are conceptual connections that heighten perception and awareness of the vast theater of forces that play upon the landscape of Broward County and South Florida. The Greenways Loop, the Broward County/South Florida Loop, and the Eco-communities Loop create physical regional frameworks. The Urban Loop, Blueways Loop, Remnant Island Loop, Everglades Loop, and Coastal Loop each focus on specific landscape types. They allow people to experience the layering of forces, lands uses, activities, and phenomena within these environmental contexts.

The *lenses* can be focused on sites along the systems of loops to reveal the specific qualities of a place: ecosystems, layers of history, interactions between species, and natural processes on a grand scale. Events and celebrations are another way the concept of lenses can focus attention on our interaction with and dependence on the

natural environment. These happenings allow people to engage, participate, mark, envision, and connect to the systems that sustain life.

We are now imagining what and how we—the art planning team and all the residents of and visitors to Broward County—will collectively mark the landscape over the next thirty years. Will we think of ourselves as part of nature or as separate from it? Will the county maintain an exhibit of disconnected ecological remnants or develop a vital, ecological network that supports a sustainable interaction of people, water, natural processes, wildlife, habitat, infrastructure, and eco-communities? Thirty years from now, how will people read the landscape's layers to understand what has happened to shape it over the past three decades?

The answers to these questions will be integral to the development of the Art Network. The true measure of its success will be the degree to which people and the environment are transformed by the *Theater of Regeneration*.

The projects recommended in this plan are the result of extensive research and conversations with county staff, community members, and other interested parties. In order to realize the vision and to make an impact county-wide, key county staff members agreed to consider an approach that anticipates multiple funding sources. Many of the recommendations and project choices outlined in the following pages are based on these discussions as well as on their fit, function, and location within the Art Network. During consultations with Parks and Recreation staff, art project possibilities associated with the 2000 Parks/Land Bond are in the two-year implementation plan and are considered in terms of the impact and appropriateness of the proposal to its site; Parks and Recreation Division's schedule, scope, and budget; and the potential to share resources. Projects within the ten-year plan anticipate a broad base of support.

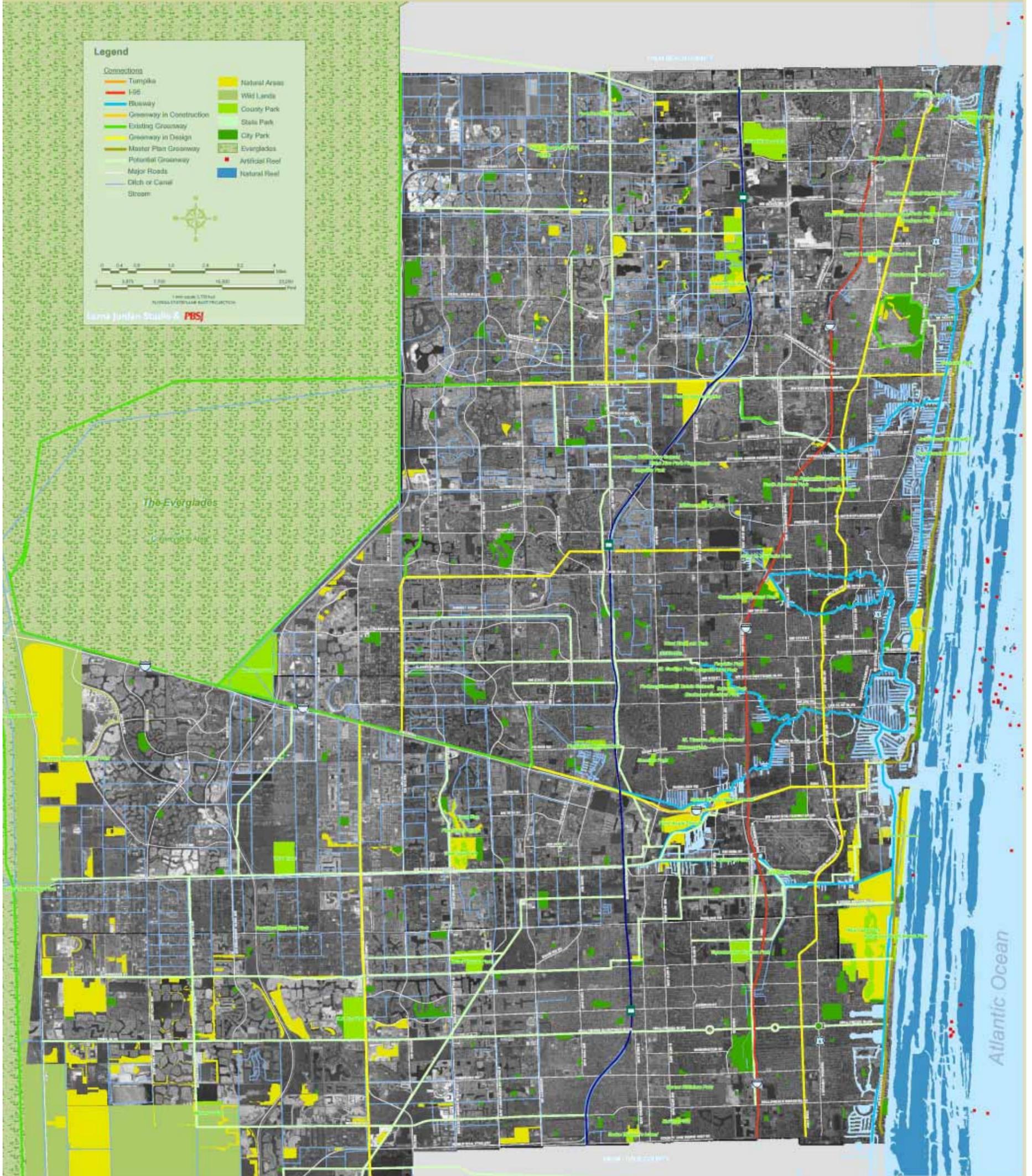
Through ecological artworks, artists try to mitigate environmental problems often by revitalizing an ecosystem and the human interaction with nature. They attempt to transform damaged habitats or sterile urban sites into life-generating places. Many of these artists propose or create ecological art for areas where nature's balance has been breached by human interference. Expanding upon early environmental art, these works represent a more socially oriented approach to integrating art and nature. Ecological art does not isolate and interpret aspects of nature but integrates them into a total network of relationships.

—Barbara Matilsky, *Fragile Ecologies*

South Florida is in trouble. The once lush, subtropical wetlands and coastal reefs are dying, while the vibrant tourist meccas are marred with “brownfields” and urban sprawl. The entire ecosystem is in jeopardy. But there is good news. Massive efforts to cleanse and restore the natural flow of water through the region—the key to the health of the entire system—are underway. Similarly, innovative measures for improving the quality of life in urban centers and reining in urban sprawl are being explored and implemented. Increasingly, a shared understanding and a common goal are taking root among politicians, government officials, tribes, farmers, ranchers, business leaders, and private citizens. We must make South Florida sustainable. We must do it now. And we must do it together.

—South Florida Ecosystem Restoration Task Force

BROWARD COUNTY PARKS, PRESERVATION LANDS, & GREENWAYS/BLEUEWAYS



**Broward County
Environmental
Art Master Plan**

1.30.04

Lorna Jordan
Artist & Team Leader

**The Broward County/
South Florida Loop**

This loop is regionally focused and provides opportunities to create and strengthen both conceptual and physical connections throughout Broward County, South Florida, and beyond.

The Eco-communities Loop

Containing ecological gems like Fern Forest, active civic places like Central Broward Regional Park, and remote remnant islands like Snake Warrior, this loop visits all of the county's eco-communities. It is directly connected to all of the loops, forming an immense network of activity.

The Everglades Loop

Complementary to the more active water forces that impact the Coastal Loop, the slow and oozing processes in the Everglades Loop offer opportunities to be immersed in the more subtle powers of nature.

The Urban Loop

Located at the heart of the county, this loop focuses on sustainable urban systems, strengthening community, and inspiring participation by all in restoring Broward's ecosystems.

The Remnant Island Loop

This loop connects parks along an historic ridge of islands in southwestern Broward County. With stunning oak hammock uplands, a decommissioned landfill, agricultural remnants, and a variety of wetlands, canals, and ponds, the loop exhibits the highest elevations in the county and offers the opportunity to compare the nature of geologically- and human-made landforms.

The Greenways Loop

The Greenways Loop forms a county-wide physical network of planted corridors connecting parks, neighborhoods and fragmented habitats. This framework can also help to tell Broward's stories, making conceptual connections between loops.

Blueways Loop: New River

This New River portion of the Blueways Loop covers 14 miles of navigable waters, providing a shift in perspective from the water to the shore. Here, the focus is on water: its various forms, inherent qualities, and ecological functions.

The Coastal Loop

This loop focuses on the ocean to land cross-section, the magnitude of forces in the ocean/Gulf Stream, coastal eco-communities and geology.

Broward County Environmental Art Master Plan

1.30.04

Lorna Jordan
Artist & Team Leader

Broward County/ South Florida Loop

This regional loop is manifested throughout the county and presents opportunities to connect to South Florida ecosystems and beyond.

Eco-communities Loop

Containing each of the eleven eco-communities found in Broward County, this loop extends across the entire county from north to south, and from the Everglades to the coast.

Everglades Loop

The 28-mile Everglades Loop is located along the Conservation Levee and Buffer Strip, traveling along Conservation Levee L-35B, the Sawgrass Expressway, State Route 84, and Markham Park.

Urban Loop

At the core of the county's civic realm, this 15-mile loop extends from Broward County Central Regional Park to Fort Lauderdale, Plantation Heritage Park, the River Walk, and Secret Woods.

Blueways Loop: New River

This 14-mile stretch of navigable water includes the North and South Forks of the New River as well as portions of the intracoastal waterway and the Dania Cut-Off Canal.

Remnant Island Loop

The Remnant Island Loop is a 10-mile loop around the historic island ridge near Griffin Road/Orange Drive in southwestern Broward County.

Coastal Loop

This 7-mile loop extends from Anne Kolb Nature Center, Westlake Park, and Hollywood North Beach Park to the intracoastal inlet north of John U. Lloyd Park.

Greenways Loop

This loop extends throughout Broward County to its borders and is sited along selected canals, highways, and other public rights-of-way.

Broward County Environmental Art Master Plan

1.30.04

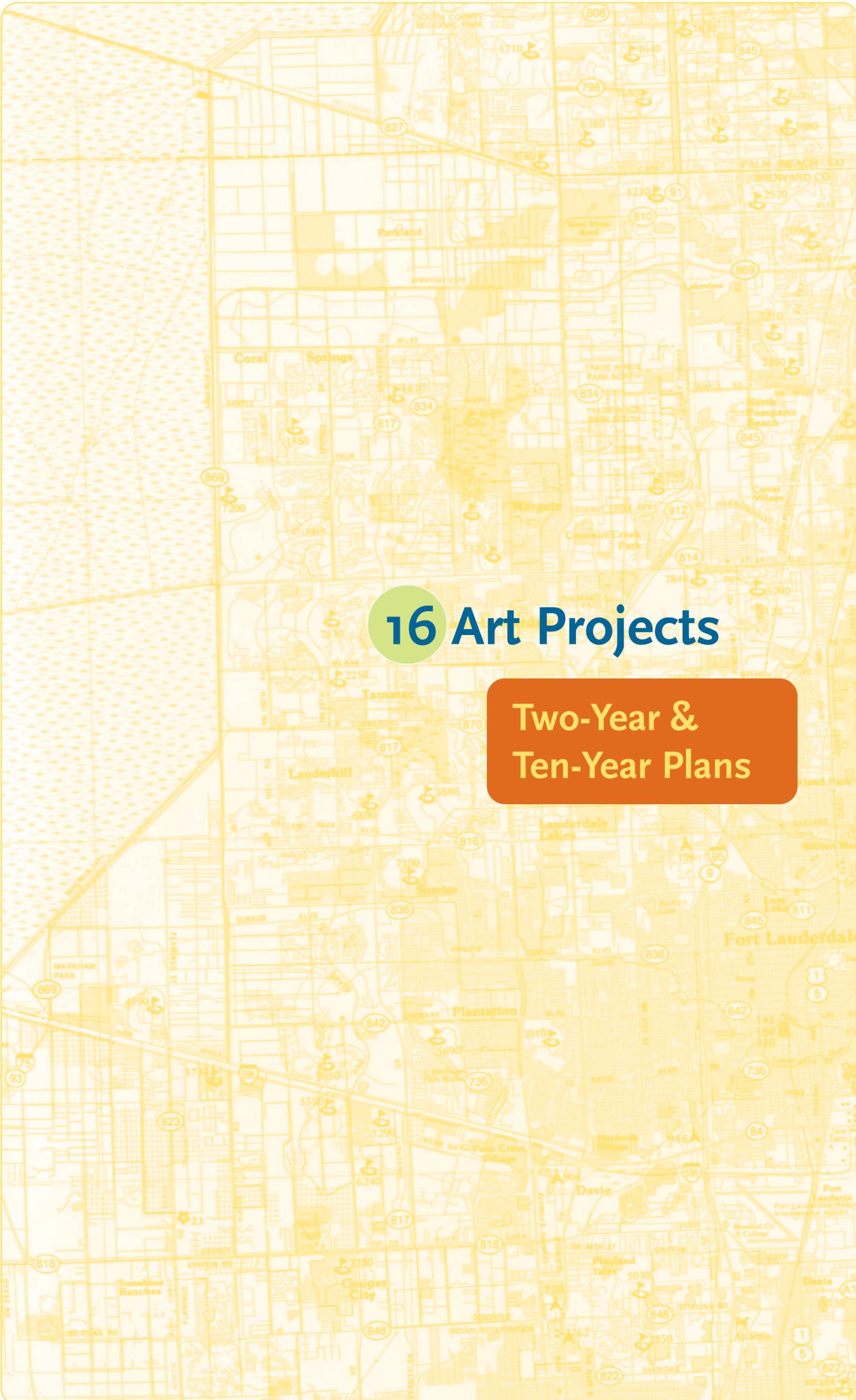
Lorna Jordan
Artist & Team Leader

Selected Sites Along the Loop Network



**Broward County
Environmental
Art Master Plan**
1.30.04
Lorna Jordan
Artist & Team Leader





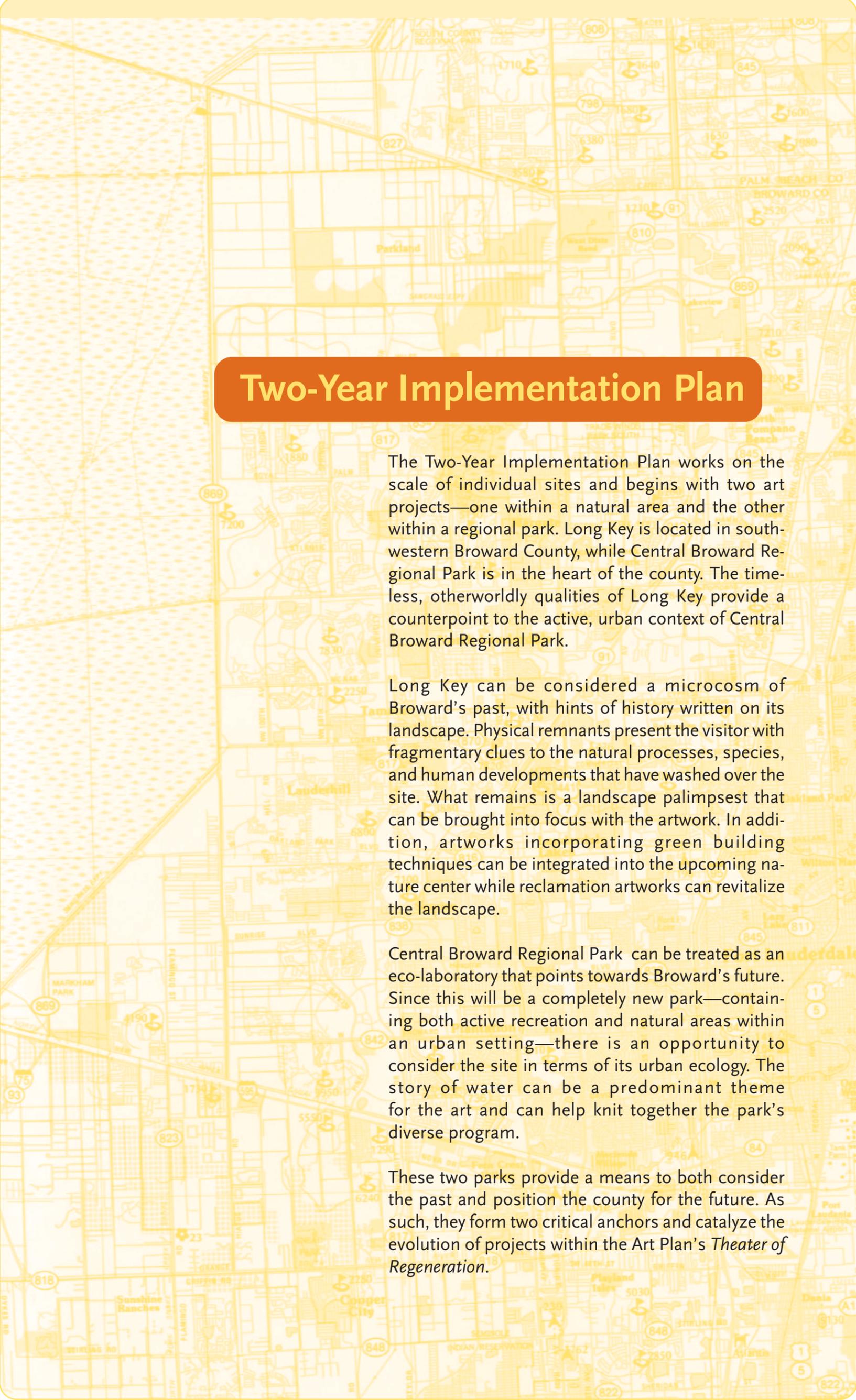
16 Art Projects

Two-Year & Ten-Year Plans

Theater of Regeneration

16 Projects for Art Network

		ARTWORK TYPES						
Project No. & Name	Loop Name	Catalytic Ideas	Revealed and Enhanced Natural Systems, Habitats, and Phenomena	Revitalized Urban Ecosystems	Sustainable Agriculture, Naturescape, & Community Gardens	Marvelous Structures, Places, & Connections	Evocative Happenings, Community Green Mapmaking & Media	
TWO YEAR	1. Long Key	Remnant Island Loop	■	■		■	■	■
	2. Central Broward Regional Park	Urban Loop	■	■	■	■	■	■
TEN YEAR	3. Dreams & Panoramas: Eco-loops	Multiple Loops	■	■	■	■	■	■
	4. Dreams & Panoramas: Water as Lens	Multiple Loops	■	■	■	■	■	■
	5. Greenways Phase 1: Repeatable Furnishings/Artworks	Greenways Loop	■		■		■	
	6. Vista View	Remnant Island Loop		■			■	■
	7. Plantation Heritage	Urban Loop		■	■	■		■
	8. Snake Warrior's Island	Eco-Communities Loop		■			■	
	9. Landscape as Laboratory: The Art of Green Infrastructure	Multiple Loops	■	■	■		■	
	10. Building as Laboratory: The Art of Green Building	Multiple Loops	■	■	■		■	
	11. Community Green Mapping	Broward County/ South Florida Loop	■					■
	12. Residency & Traveling Art Exhibit	Broward County/ South Florida Loop	■	■			■	■
	13. Ephemeral & Performance Art: Species & Habitats	Eco-communities Loop		■			■	■
	14. Phenomenological Art: Natural Processes & Phenomena	Coastal Loop		■			■	■
	15. Sound Artwork—Eco-communities	Coastal Loop	■	■	■		■	■
	16. Internet/Radio Project	Eco-communities Loop	■					■



Two-Year Implementation Plan

The Two-Year Implementation Plan works on the scale of individual sites and begins with two art projects—one within a natural area and the other within a regional park. Long Key is located in southwestern Broward County, while Central Broward Regional Park is in the heart of the county. The timeless, otherworldly qualities of Long Key provide a counterpoint to the active, urban context of Central Broward Regional Park.

Long Key can be considered a microcosm of Broward's past, with hints of history written on its landscape. Physical remnants present the visitor with fragmentary clues to the natural processes, species, and human developments that have washed over the site. What remains is a landscape palimpsest that can be brought into focus with the artwork. In addition, artworks incorporating green building techniques can be integrated into the upcoming nature center while reclamation artworks can revitalize the landscape.

Central Broward Regional Park can be treated as an eco-laboratory that points towards Broward's future. Since this will be a completely new park—containing both active recreation and natural areas within an urban setting—there is an opportunity to consider the site in terms of its urban ecology. The story of water can be a predominant theme for the art and can help knit together the park's diverse program.

These two parks provide a means to both consider the past and position the county for the future. As such, they form two critical anchors and catalyze the evolution of projects within the Art Plan's *Theater of Regeneration*.

Long Key

NATURAL AREA DESCRIPTION

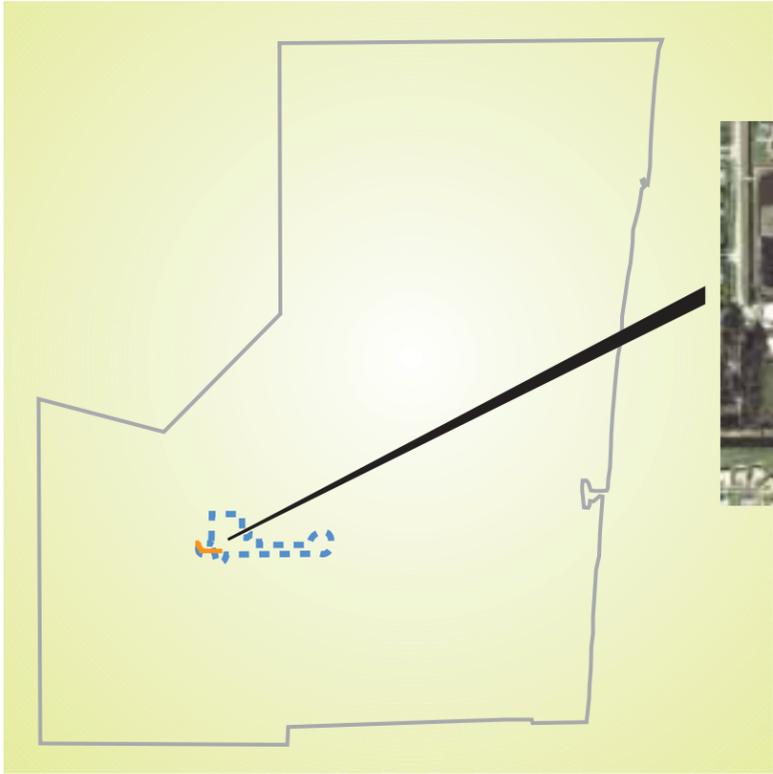
Long Key is an approximately 157-acre natural area located in southwestern Broward County within the town of Davie, extending from Flamingo Road westward to SW 136th Avenue. As recently as 100 years ago, this elevated oak hammock was part of a series of islands surrounded by Everglades marshes. Long Key encompasses some of the most significant archaeological, historical, and ecological resources in Broward County, and is one of the largest of the natural areas managed by the Parks and Recreation Division.

The site encompasses the western portion of Long Key, an area rich in natural beauty and history. Typical trees in the hardwood forest include live oak, red bay, paradise tree, strangler fig, and the occasional cabbage palm and gumbo limbo. The site also contains a 14-acre orange grove (a remnant of a once-active citrus industry), approximately 34 acres of restored wetlands that have become a haven for a variety of waterbirds, and several human-made ponds and canals.

An elevated ridge runs east-west across the site, rising to over 20 feet above sea level. When it was an island in the Everglades, it served as a habitation for the ancient Tequesta Indians and more modern Seminole Indians. Seven archaeological sites have been registered with the Florida Division of Historical Resources. Additional sites relating to the commercial and cultural history of the area have also been documented. The site was the home of two large tourist attractions, Pioneer City in the 1960s and The Kapok Tree Restaurant in the 1970s. Although all structures have been removed, asphalt and concrete still remain.

The Long Key site was opened to the public on an interim basis in March 1995 prior to master planning. An equestrian trail runs east and west through the site in areas known not to be sensitive. Pedestrians are encouraged to use a concrete nature trail in the hammock installed by owners of the restaurant.

A master plan for the site was approved by the Broward County Commission on April 24, 2001. Now in the design phase, the site will undergo a substantial transformation with the addition of a multimillion-dollar nature center, created wetlands, equestrian trails, nature trails, and other amenities.



Key County Initiatives

- EDUCATION
- WILDLIFE HABITAT
- SENSE OF PLACE
- WATER QUALITY

INSPIRATION

1. Traces of multiple histories and uses over time: palimpsest of layers
 - a) Everglades natural history
 - b) Historic safe haven for Native Americans
 - c) Former theme park and restaurant
 - d) Remnant fountains and columns
 - e) Remnant paving
 - f) Remnant utilities
 - g) Archaeological sites
2. Seven Hills of Sam Jones (historically significant, both culturally and ecologically)
3. Stunningly beautiful, existing oak stands: compelling and memorable image
4. Habitats, wetlands, & natural processes
5. Microcosm of Broward County's past

OPPORTUNITIES

1. Enhance the experience of this microcosm of Broward County's ecosystems/agricultural heritage/cultural history. Highlight physical remnants that act as fragmentary clues to the natural processes, species, and human developments that have washed over the site and bring the landscape palimpsest into focus.
2. Developing creative ways to consider the following:
 - a) Landscape restoration
 - b) Wetland rewatering
 - c) Educational exhibits and programs
 - d) Sustainable building technologies
 - e) Exotic plant removal
 - f) Battle between exotic and native species
 - g) Revelation of plant succession
 - h) Overall experience of the place
3. Connect to other parks with historic islands and human-made hills (landfills)
4. Potential Partnerships: SFWMD

PROJECT

Lorna Jordan Studio provides: (a) an art plan overlay for the county's current master plan of the 157-acre site; (b) text and/or drawings for the design/build criteria that will be used by three shortlisted design/build firms in their proposals, as appropriate; (c) a strategy for interacting with the selected design/build team during design and construction; and (d) specific environmental art elements outside Parks design/build process, as appropriate.

These efforts can address:

1. Improved habitats & hydrologic systems around entire site
2. Pavilions, bridges, towers, pathways, and environmental art elements around site to heighten legibility of its palimpsest of layers and to connect the building's exhibits to the changing landscape
3. Created wetlands, gardens, and art elements for landscape around new building
4. Reconsideration of fountains and procession to building
5. Demonstration of "the art of green building"
6. Ethnobotanical gardens
7. Celebrations pertaining to food and to species/habitats
8. Electronic/media work



Central Broward Regional Park (old AT&T Site)

PARK DESCRIPTION

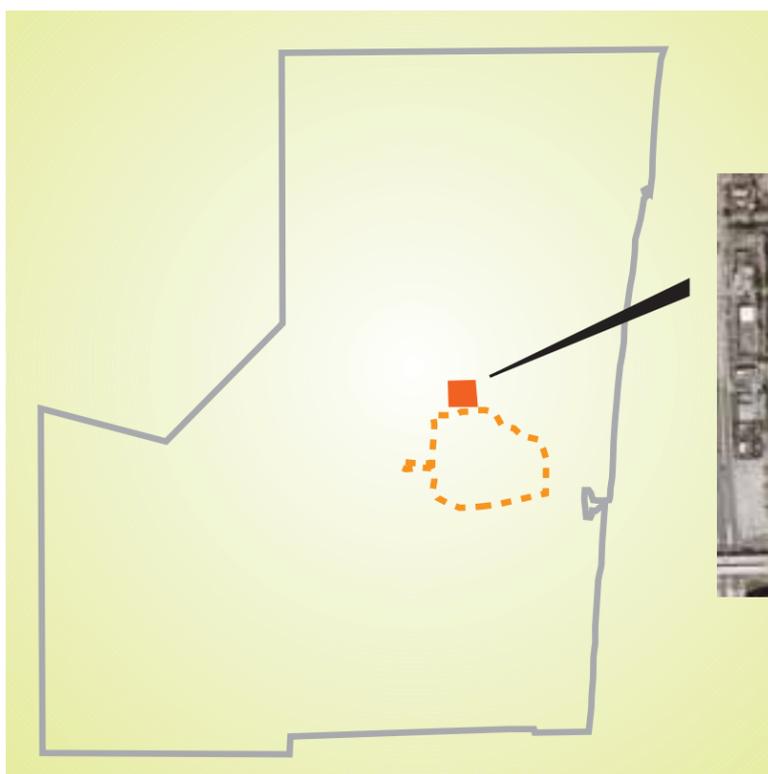
Central Broward Regional Park is located in the heart of Broward County. Located west of Fort Lauderdale and east of Plantation, the site is situated in the southeastern portion of the City of Lauderdale. A recent addition to the Broward County park system, this new regional park will provide open space and facilities for both active and passive recreation, as well as trailheads that will link both city and county systems of greenways and trails. The park is also strategically located to serve as a trailside facility for the C-12 Canal Canoe Trail. Areas of the site will be restored and conserved as native scrub and wetland communities.

Historically, the property contained four vegetative community types, including marsh/swamp (possibly containing cypress), wetland prairie, sand dunes, and a xeric hammock. The site now contains remnant stands of vegetation, including live oaks, laurel oaks, and wild pine, and wetland vegetation. Until recently, the site was home to radio towers and was the location of AT&T facilities.

The current master plan includes athletic fields (international cricket, soccer, football, ball courts); a swimming pool complex; parking areas; boardwalks, boating, and fishing facilities; nature center; natural areas; hiking facilities; trailhead facilities; stormwater facilities; a created wetland; playgrounds and picnic facilities, water play areas; a market, and a new cultural center and library.

Broward County will re-landscape several passive and natural areas of the property with native vegetation using the Broward County NatureScape guidelines. Approximately 4 acres of native landscaping will be placed around the edges of the playing fields, courts, and various facilities. Xeriscape design will be used where appropriate, and a diversity of native plant materials will be utilized.

Five separate areas totaling 23.7 acres will be heavily planted. These areas are currently called "Northwest Passive Park Area," "East Passive Park Area," "Natural Area," "Vegetation Restoration," and "Wetland Community." Information about the park's soils, topography, climate, vegetative communities, animal species, water bodies, and environmental evolution will be provided through a variety of classes, programs, and displays.



Key County Initiatives

- SENSE OF PLACE
- WATER QUALITY
- EDUCATION
- SAFE PLACES TO PLAY

INSPIRATION

1. A place of action and interaction as well as contemplation
2. A multitude of human activities, events, and celebrations
3. Regional attendance, blending of human cultures, economic means, shared values and individual beliefs
4. Co-existence of civic and natural realms
5. Multiple expressions of water

OPPORTUNITIES

1. Consider the site an eco-laboratory that points to Broward's sustainable future
1. Reveal, use, re-use, and interpret water in terms of its poetry and its uses; bring county-wide scope to this site
2. Connect to the nearby Blueway at the terminus of the New River's North Fork as well as the C-12 Canal Canoe Trail
3. Potential Partnerships: DPEP, SFWMD, and Caribbean market

POTENTIAL PROJECTS

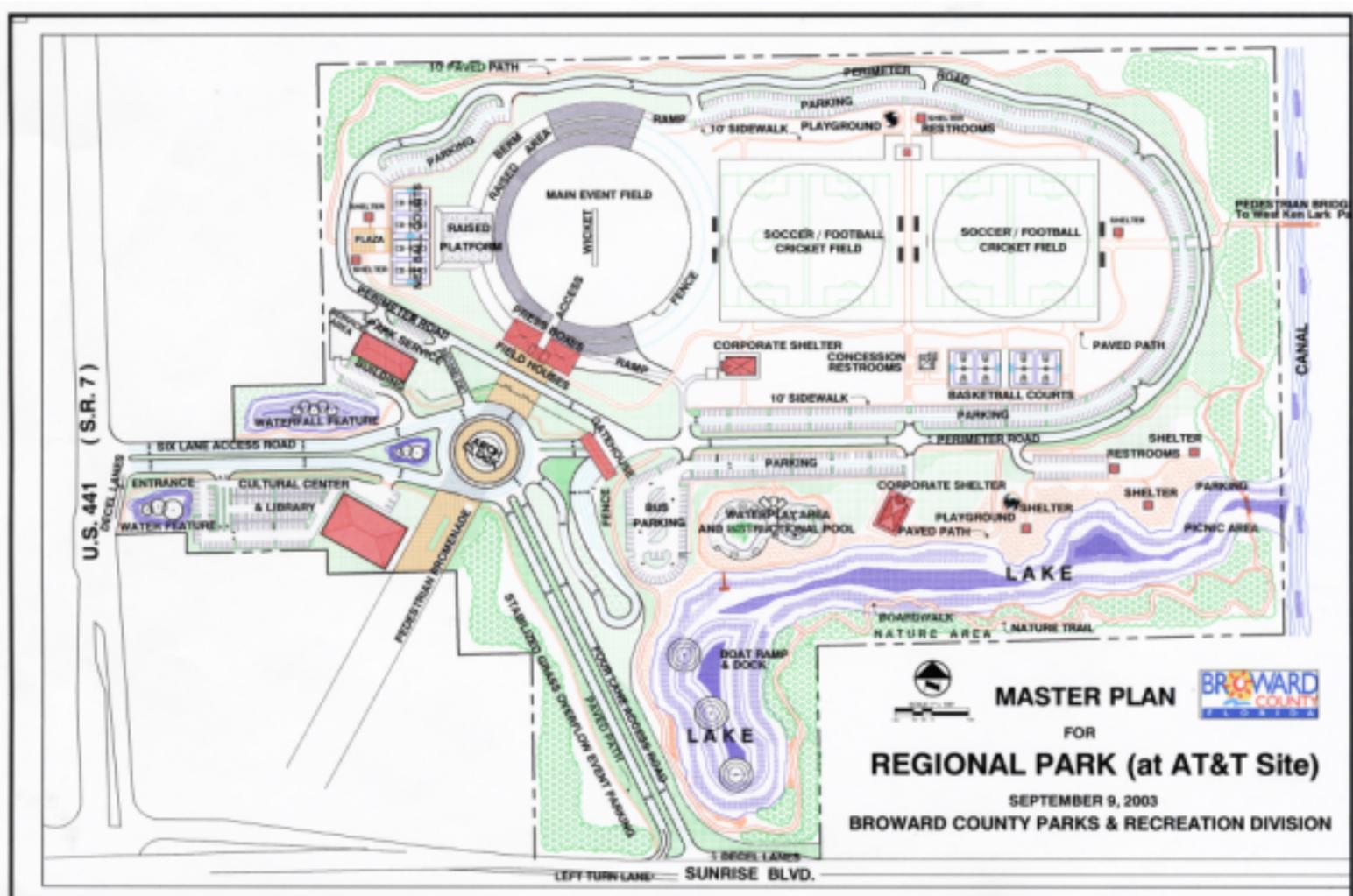
Lorna Jordan Studio & her subconsultants develop an art overlay on Park's Master Plan. One system-wide approach is to develop an "art of water" program that considers myriad forms and uses of water as a connective theme. A narrative sequence of "water stations" and features are located throughout the park. Aesthetic expression of elements can include:

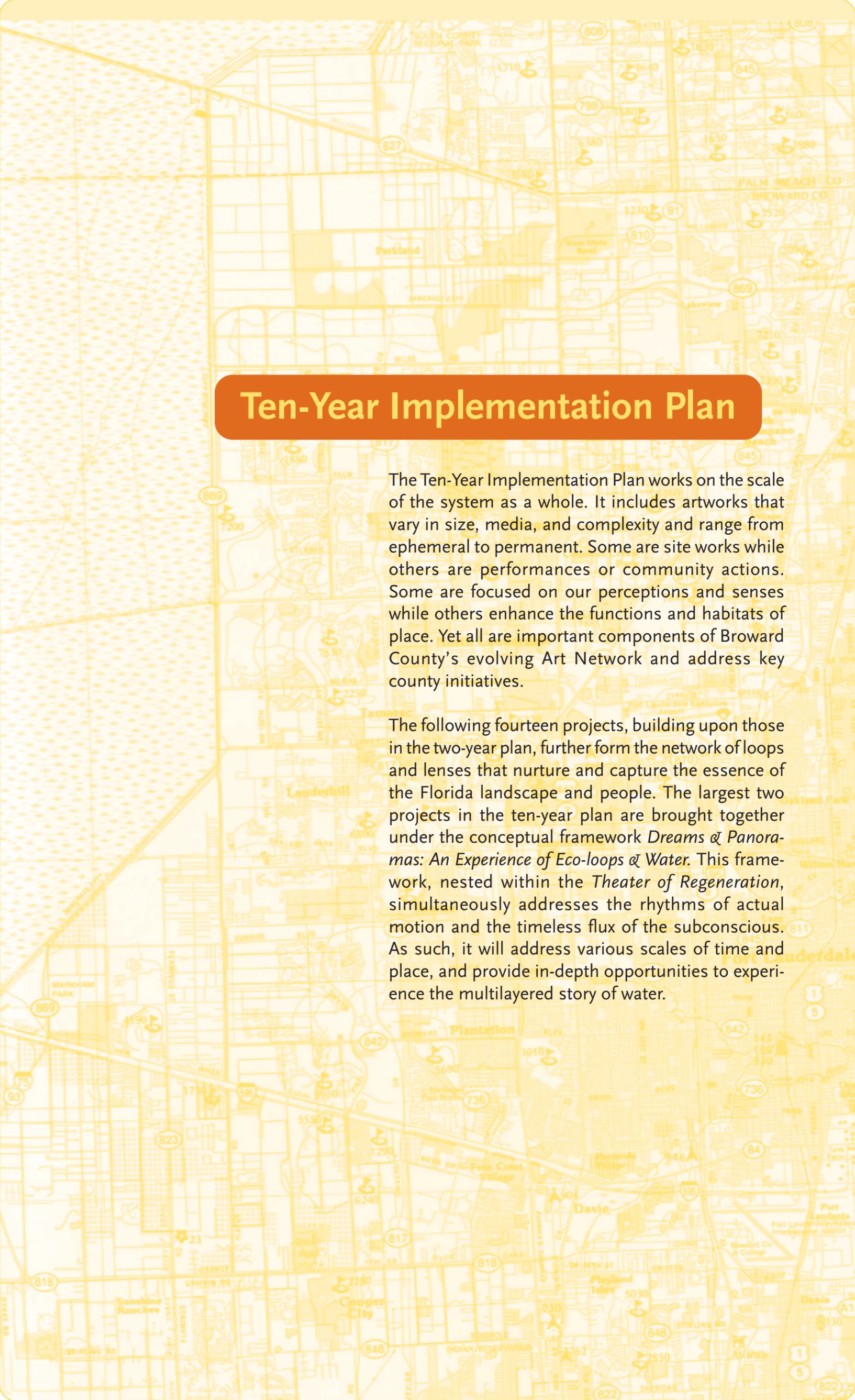
1. Entry pools & fountains
2. Wetlands
3. Stormwater ponds
4. Waterplay area & swimming pool
5. Water's uses for drinking, cleansing, & irrigation
6. Water management, i.e. flow, collection, & infiltration
7. Phenomenology of water

Potential Projects (continued)

Other potential projects include:

1. Structures such as bridges, towers, boardwalks, overlooks, & pavilions
2. Pathways and Processions
3. Gathering Places
4. Phenomenological Artworks
5. Green Infrastructure & Building Projects
6. Community Gardens & Naturescape Demonstration Projects
7. Outdoor Laboratories & Classrooms
8. Temporary Installations & Performances
9. Media Works
10. Celebrations





Ten-Year Implementation Plan

The Ten-Year Implementation Plan works on the scale of the system as a whole. It includes artworks that vary in size, media, and complexity and range from ephemeral to permanent. Some are site works while others are performances or community actions. Some are focused on our perceptions and senses while others enhance the functions and habitats of place. Yet all are important components of Broward County's evolving Art Network and address key county initiatives.

The following fourteen projects, building upon those in the two-year plan, further form the network of loops and lenses that nurture and capture the essence of the Florida landscape and people. The largest two projects in the ten-year plan are brought together under the conceptual framework *Dreams & Panoramas: An Experience of Eco-loops & Water*. This framework, nested within the *Theater of Regeneration*, simultaneously addresses the rhythms of actual motion and the timeless flux of the subconscious. As such, it will address various scales of time and place, and provide in-depth opportunities to experience the multilayered story of water.

4 Dreams & Panoramas: An Experience of Eco-loops & Water

PROGRAM OVERVIEW

The first two projects in the ten-year implementation plan are composed of elements conceived under a conceptual framework entitled *Dreams & Panoramas: An Experience of Eco-loops & Water*. Nested within the *Theater of Regeneration*, this framework is designed to allow for projects that integrate county-wide systems, and which can indeed be county-wide in presentation and scale. These projects provide an opportunity to regenerate the county's ecological processes, migration/transportation patterns, habitats, water, and places. When moving through the projects' landscape sequences, people can draw upon their dreams, memories, and imaginations while perceiving panoramas of the county's ever-evolving palimpsest of layers. People are transported through time and place with experiences that range from the mythic and archetypal to the scientific and observable; they can also comprehend and participate in the story of how we mark the land.

The initiative encompasses a range of elements, processes, and environments; these include: greenways, landfills, gardens, parks, natural areas, cities, beaches, oceans, swamps, rivers, the Everglades, stormwater treatment ponds, irrigation water, urban runoff, and underwater gardens. Specifically, the projects explore the interconnections of Broward's natural and human-made infrastructures of water. Not only can we link people to Broward's water through an experience of art, but we can use the art of water as a means to restore and integrate the county's eleven eco-communities.

This approach presents Cultural Division and the master-planning artist with an opportunity to implement a large-scale bioregional initiative based on the Art Network. It allows for an evolution of projects, opportunities, and partnerships within a broad framework. It also provides the flexibility to continue to develop the relationship of art projects to county initiatives as they evolve. Elements within the initiative can be conceived and implemented individually yet comprehensively, drawing upon the strengths of the county as a whole.

Dreams & Panoramas helps ensure stewardship of the plan and its resulting projects, enabling the Art Plan to endure and flourish over its thirty-year span and beyond. It can serve as a model for catalyzing action and developing partnerships in the county and South Florida region. Potential Partnerships include SFWMD, county agencies, Broward Urban and River Trails, the Trust for Public Lands, the Nature Conservancy, environmental organizations, community groups, universities, developers, historians, archeologists, scientists, consultants, and a wide variety of other entities.

While the boundaries between the two projects—eco-loops and water—are permeable, the elements within each present unique narratives that become part of the whole. When the initiative is complete, *Dreams & Panoramas: An Experience of Eco-loops & Water* will communicate a story not only about the environment but also about Broward's commitment to projects that are regenerative, innovative, educational, integrated, intriguing, dramatic, aesthetic, and legible. This helps set the *Theater of Regeneration* Art Plan apart from others.



PANORAMA

1. An unbroken view of an entire surrounding area
2. A comprehensive presentation; a survey: a panorama of American literature
3. A picture or series of pictures representing a continuous scene, often exhibited a part at a time by being unrolled and passed before the spectator
4. A mental vision of a series of events

—dictionary.com

DREAM

1. A series of images, ideas, emotions, and sensations occurring involuntarily in the mind
2. A daydream; a reverie
3. A state of abstraction; a trance
4. A wild fancy or hope
5. A condition or achievement that is longed for; an aspiration
6. One that is exceptionally gratifying, excellent, or beautiful

—dictionary.com

MULTIPLE LOOPS

3

Dreams & Panoramas: Eco-loops

Key County Initiatives

- CONNECTIVITY
- SMART GROWTH
- WATER QUALITY
- WILDLIFE HABITAT
- EDUCATION

PROJECT OVERVIEW

Loops of transportation corridors and process-based connections

- linking parks, special places, people, wildlife, and artworks through the experience of trails, boardwalks, greenways, waterways, and world-wide-web-ways
- setting social and ecological processes-in-motion

Three of the loops within the Art Network are included in *Dreams & Panoramas*. These are treated as dynamic ecological systems and become a means by which to connect people, sites, habitats, and natural processes. The movement through the eco-loops is cinematic and changing in nature. As such, the project allows people to experience the forces and migrations that affect the layers of land uses, activities, species, and phenomena within Broward's environments. By creating loops that evoke stories and dreams, conditions are created where an individual's fluid imagination can play upon the aqueous qualities and characteristics of Broward's landscape.

Greenways Loop

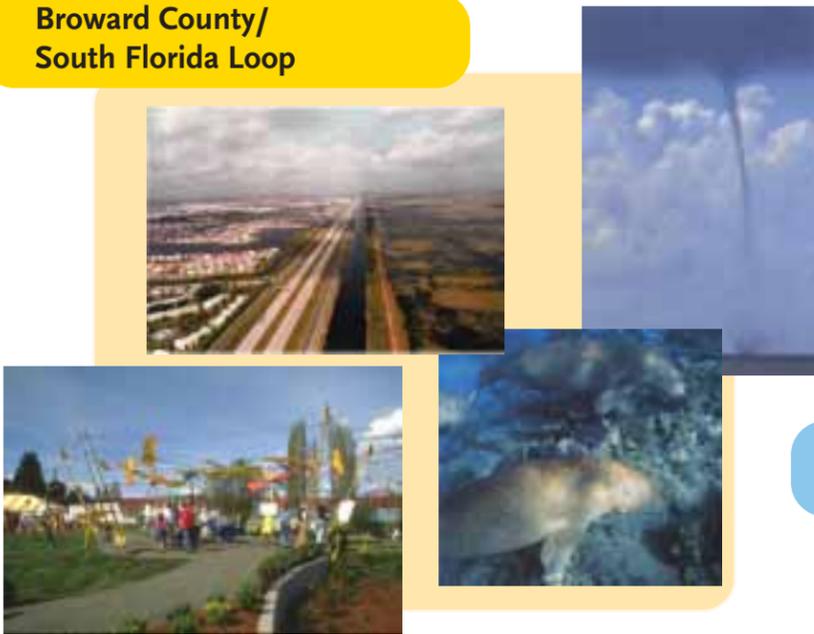


Greenways Loop

Example Project Elements:

1. Park and destination connections along the Griffin/Orange Drive Greenway
2. Long Key connections along the Flamingo – Hiatus Road Greenway
3. A1A connections at Hollywood North – Hollywood Beach Park
4. Fern Forest connections to C14 Canal
5. Conservation Levee
6. Florida Turnpike, such as a bridge to landfill and eco-community "marker" gateways along Turnpike throughout the county
7. Other phases of Greenways beyond Phase 1
8. Parades or temporary events along greenways

Broward County/ South Florida Loop



Broward County/South Florida Loop

Example Project Elements:

1. Wildlife corridors & backyard habitats
2. Habitat restoration of fauna such as sea turtles, manatees, gopher tortoises, bobcats, skinks, alligators, birds, and butterflies
3. Phenomenological artworks that reveal tides, dune migration, wind, climate, fire, sun, hurricanes, & storms
4. Aesthetic expression of ongoing landscape processes such as erosion, deposition, dissolution of limestone, salt-water intrusion, & the relationship between geology, water, and vegetation; trace water's journey through hydrologic cycle
5. Aesthetic expression of urban processes and infrastructure
6. Emotional Atlas Print/Drawing project
7. Web project
8. Seed bank/biodiversity project

Blueways Loop



Blueways Loop

Example Project Elements:

1. Aesthetic access points to blueways
2. Earth/water sculptures and art interventions that improve water quality
3. Habitat improvement artworks
4. Green infrastructure demonstration artwork
5. Phenomenological artworks that reveal saltwater intrusion (or projects that reveal salinity creeping up the river)
6. Temporary projects along River Walk
7. Floating Parade

Dreams & Panoramas: Water as Lens

PROJECT OVERVIEW

Lenses of jewel-like artworks, performances, and activities as well as a way of experiencing sites, systems, & events

- synthesizing, focusing attention on, and providing aesthetic experiences of diverse characteristics, experiences, and meanings of Broward County’s past, present, and future environments
- expressing art-as-place through ecological infrastructure, living theater, and site-integrated sculpture/architecture

The Art Plan outlines a series of sites that are located along the network of loops. Within these sites, there are lenses of artworks, performances, and activities that focus attention on Broward’s environments through ecological infrastructure, living theater, and site-integrated sculpture/architecture. In *Dreams & Panoramas*, water becomes the central theme for the concept of lenses. The story of water provides a filter for viewing Broward’s various ecologies—the county’s eleven eco-communities.

Within the concept of lenses, we can reveal and enhance natural systems, habitats, and phenomena. We can stage events and celebrations to engage people in our interactions with and dependence on the environment. For the county’s landscapes, we can construct marvelous structures, gardens, earth/water sculptures, site reclamations, Naturescapes, and outdoor rooms. In cities, we can create urban ecosystems of green buildings, green infrastructure, parks, gardens, and plazas.

Places can be memory theaters that trigger internal emotions and narratives. By creating places that evoke stories and dreams, conditions are created where an individual’s fluid imagination can play upon the aqueous qualities and characteristics of Broward’s landscape. Since people are part of Broward’s water regime, we can highlight the fact that our bodies are mostly made of water and the recognition that water is a poetic, mysterious substance with various forms— solid, liquid, and vapor. Finally, people traveling to these places within the Art Network can recognize that the water cycle is the grandest force on the planet and sculpts the world into watersheds.

Water and Exotic Species



Water and Exotic Species

Example Project Element : Everglades Buffer Strip

1. Theater garden with an aesthetic interpretation of the battle between native and exotic vegetation (water as key element).

Stormwater/Wastewater



Stormwater/Wastewater

Example Project Elements: Vista View or Waldrup Dairy

1. Demonstration project and community water garden for recreation and stormwater treatment

Urban/Industrial/Residential Water



Urban/Industrial/Residential Water

Example Project Element: Downtown Government Center

1. Aesthetic green building and landscape elements that focus on sustainability and water
 - (a) reveal, use, and re-use water and interpret it in terms of its poetry and its uses;
 - (b) express urban ecology in infrastructure, buildings, and landscape; and
 - (c) work with client and team to consider the site within the context of Broward County’s complex mosaic of ecosystems and its natural and human-made infrastructure

Example Project Element: Central Broward Regional Park

1. Environmental artworks that reveal water’s functions and aesthetic qualities

Example Project Element: Brownfield Reclamation

1. Brownfield reclamation that becomes community gathering space & demonstration project, with a focus on treating water

Key County Initiatives

- EDUCATION
- WATER QUALITY
- SENSE OF PLACE
- WILDLIFE HABITAT

Ocean, Beach, and Mangroves



Ocean, Beach, and Mangroves

Example Project Element: Coastal Gradient (cross-section through ocean, dunes, coastal strand, and mangrove eco-communities)

1. Artificial reef – underwater theater, habitat, living sculpture
2. Boardwalk crossings at dunes
3. “Beach Breaks” participatory art pieces along the boardwalk
4. Gatehouse on east side of Hollywood North Beach Park
5. Revitalization of peninsula on the west portion of Hollywood North Beach Park within the Intercoastal Waterway
6. Manatee habitat restoration

Irrigation Water



Irrigation Water

Example Project Element: Community Garden

1. Community gathering place that features the collection and re-use of stormwater for irrigation

Example Project Element: Tradewinds Park

1. Demonstration water garden that focuses on water re-use and capturing stormwater for irrigation.

Everglades

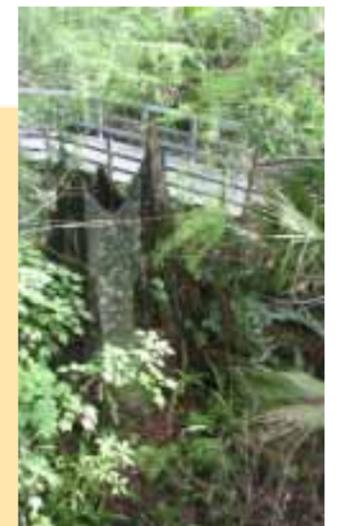


Everglades

Example Project Element: Markham Park and Boardwalk to Everglades

1. Naturescape demonstration garden in Markham Park that provides a procession to Everglades Boardwalk
2. Boardwalk in Everglades at the end of the procession through Naturescape Demonstration Garden in Markham Park

Wetlands



Wetlands

Example Project Element: Fern Forest

2. Contemplative overlook immersed in the landscape
4. Outdoor laboratories with marl geology, vegetation, and water
5. Revelation of historic Cypress Creek as part of restoration project
6. Communication about the fragility of the ecosystems
7. Markers that reveal topographic and water regime changes
8. Aesthetic interpretation of the battle between native and exotic vegetation

Greenways Phase 1—Repeatable Site Furnishings & Artworks for System

Key County Initiatives

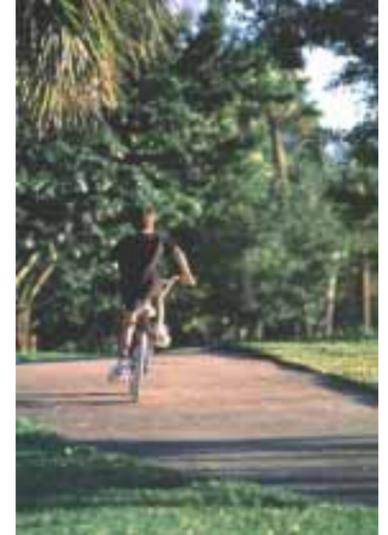
- CONNECTIVITY
- EDUCATION
- SENSE OF PLACE

GREENWAYS DESCRIPTION

Broward County’s Greenways System will be a fully funded, countywide network of safe, clean, bicycle and equestrian paths, nature trails, and waterways. The vision for the system is to provide connections to nature, neighborhoods, and places of meaning.

Recognizing the need to improve the quality of life in our urban environment, the Broward County Board of County Commissioners have identified the creation of a countywide system of greenways and trails as a priority goal. A broad-based coalition of agencies and communities has identified a network of greenways that will connect each neighborhood to the Everglades, the Atlantic Ocean, conservation lands, parks and recreation facilities, cultural and historic sites, schools, and business areas. The system will provide opportunities for recreation, restoration and enhancement of native vegetation and wildlife habitat, and alternative modes of transportation.

There are over 370 miles of regional greenways, land trails, and water trails delineated on the Conceptual Master Plan. The regional network of greenways depicted is essentially the regional backbone which may supplement, augment or serve as a foundation for the local trail networks, such as the trails of Davie, Plantation, Parkland, and Southwest Ranches. Corridors are being developed using easements, canals, vacant lands, and existing facilities. Destinations along the way will include signs, restrooms, picnic pavilions, exhibits/trail maps, parking lots, storm drainage/retention areas, landscaping/buffers, walks, playgrounds, bike parking, bus stops, and site furnishings.



OPPORTUNITIES

1. Develop identities for greenways that enhance the *Theater of Regeneration*
2. Engage communities in understanding the character of the Art Network Loops
3. Potential Partnerships: SFWMD, Florida DOT, and cities

PROJECT

1. Artist works with the Greenways Design Team during the first phase of the Greenways project (marked in yellow on the map) to incorporate repeatable art elements into the contract documents: paving, bridges, benches, bicycle racks, and lighting
2. Exclusions include Markham Park/ Everglades connection; elements along the Griffin/Orange Drive Greenway; Fern Forest connections; Long Key Connections along the Flamingo - Hiatus Road Greenway; A1A connections at Hollywood North Beach Park; and future phases of greenways including Blueways and the Florida Turnpike



Vista View

Key County Initiatives

- SENSE OF PLACE
- EDUCATION
- CONNECTIVITY

PARK DESCRIPTION

Vista View Park, officially opened on July 12, 2003, sits on 160 acres of the now closed Davie Landfill. The new park features horse trails, two medium-size shelters, restrooms, a fishing pier (catch and release only), and lots of room for kite flying, bicycling, rollerblading, and skateboarding.

The Davie Landfill, monitored by the Office of Integrated Waste Management (OIWM) has been closed since 1987. After clean up and restoration of the natural habitat area, it was decided that this property could serve as a public park.

OIWM provided the initial funds to develop the site for public use and continues to monitor another 50 acres to the north, as required by the Florida Department of Environmental Protection (FDEP), which are not designated for public use.

Broward County recently purchased an additional 61 acres to add to the south end of Vista View Park. Located at the bottom of the hill adjacent to a canal and road, this area is to be used for picnicking and other activities.

OPPORTUNITIES

1. Enhance the experience of the rare views in Broward County at this site, the county's highest point

PROJECT

Artworks that provide:

1. A car-scale experience for the adjacent freeway
2. A means of observing celestial phenomena

Exclusions

1. Elements for this site as described in *Dreams & Panoramas*



Plantation Heritage

Key County Initiatives

- NATURESCAPE
- EDUCATION
- SENSE OF PLACE
- WATER QUALITY

PARK DESCRIPTION

Formerly a University of Florida agricultural experimentation farm, this 90-acre park retains a strong agricultural/horticultural theme. There are tropical flowering trees and palms throughout, along with displays of local landscape plants, and the Broward County Audubon Society's Anne Kolb Memorial Trail winds through re-created representative plant communities. A rare fruit area is maintained by park staff and the Rare Fruit and Vegetable Council.

The park, which opened in 1984, also offers picnic areas, playgrounds, nature trails, a biking/jogging path, volleyball, horseshoes, and a fitness trail. The 2,000-square-foot Fountain Room can be reserved for meetings and other activities, and there are three picnic shelters with 70+ capacity, and nine with 50+ capacity. Eight of these have electricity, eleven are with water, and all have grills and tables.

Bikes, boats, and other sporting equipment are available for rental, and fishing is permitted from the shore of the park's lake. In the park's extension on the south side of Peters Road, a historic gazebo overlooks a duck pond with waterfall.

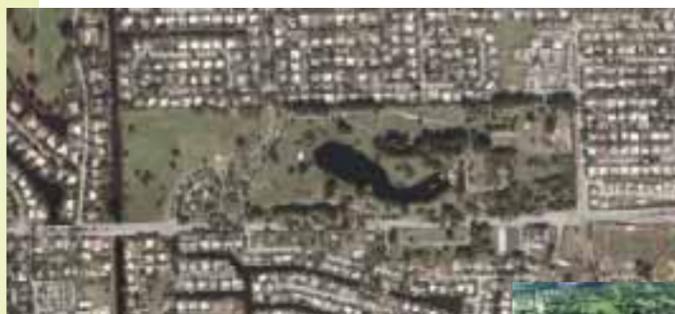


OPPORTUNITIES

1. Create a Naturescape demonstration garden in an area where exotic species are being removed
2. Link the community to the demonstration garden with a backyard wildlife habitat (this is one of the few regional parks within a neighborhood to which people walk)
3. Potential Partnerships: City of Plantation, SFWMD, Broward County Agriculture and Education Extension Division

PROJECT

1. Naturescape demonstration garden
2. Community backyard wildlife habitat program that links this park with others



Snake Warrior's Island

NATURAL AREA DESCRIPTION

Snake Warrior's Island Natural Area contains approximately 53.3 acres and is located within the city of Miramar. It lies north of County Line Road between SW 62nd Avenue and SW 64th Avenue. The site was purchased through the State of Florida Emergency Archeological Property Acquisition Fund in 1992.

Snake Warrior's Island encompasses two archeological sites, representing prehistoric and Seminole artifacts. These cultural remains impart significance to this site. This site was once located within the Snake Creek tributary system and surrounding Everglades marshes; with the onset of drainage, it was transformed into pastureland.

The overall management priority will be protection, enhancement, and interpretation as an archaeological preserve. Secondly, the site will be managed as a passive recreational, educational, wildlife, groundwater recharge, and stormwater management area.

The natural area will be managed as a multiple-use park. Compatible uses for the site include nature trails, observation areas, environmental, archeological, and historical programming, interpretative displays, and other passive activities. Fishing will be allowed in the isolated lake and retention pond.

To date, Snake Warrior's Island has had debris removed, has been fenced, and a perimeter/maintenance road has been installed. The initial exotic plant removal program has been completed. Eight wetland compartments have been created and native trees have been planted along the edge of the concrete trail as well as the hammock edges. A parking facility, concrete path, and boardwalk have recently been installed.

Key County Initiatives

- WILDLIFE HABITAT
- WATER QUALITY
- EDUCATION
- SENSE OF PLACE

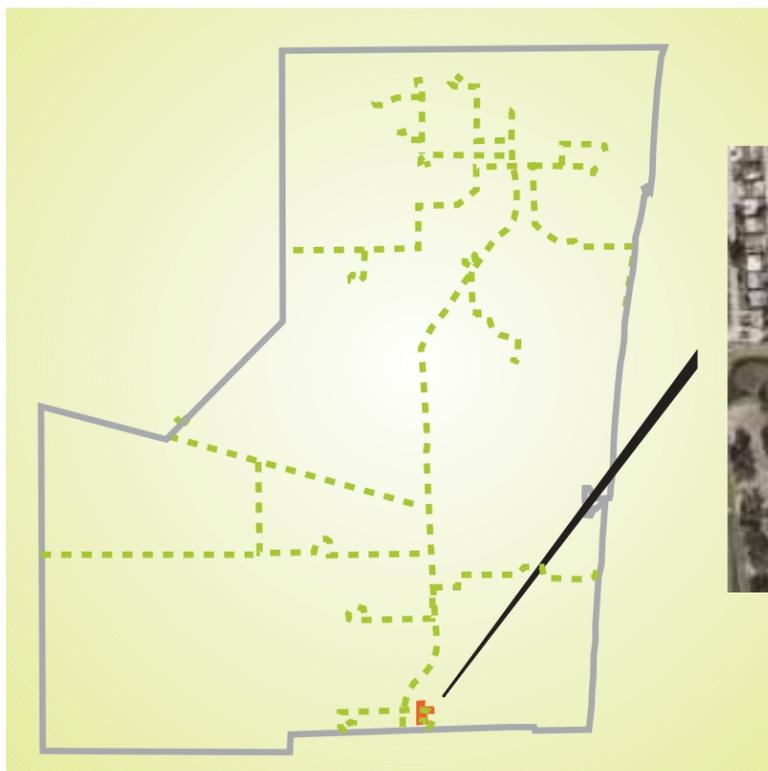


OPPORTUNITIES

1. Further improve the habitat of wading birds, ducks, reptiles, and amphibians that have been attracted to the site's new wetlands (added as part of the site's restoration to pre-drainage conditions)
2. Improve the habitat of species found in upland areas such as the limestone "islands" and the 1.5-acre portion of the Atlantic Coastal Ridge

PROJECT

Artworks that address the habitats for other species in both wetland and upland environments



Landscape as Laboratory— The Art of Green Infrastructure

Key County Initiatives

- CONNECTIVITY
- SMART GROWTH
- WATER QUALITY
- SENSE OF PLACE
- EDUCATION

PROJECT DESCRIPTION

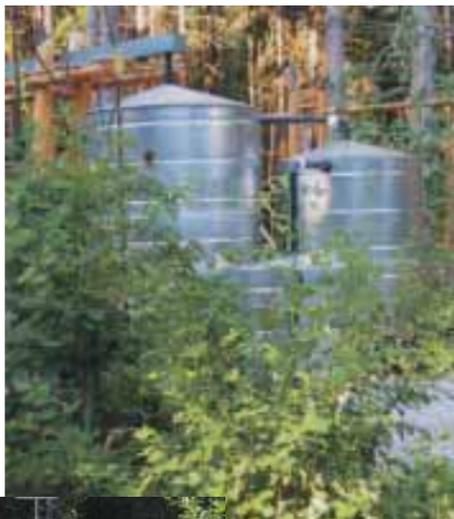
Supporting an interconnected network of natural areas, working lands, and open space, a green approach to infrastructure allows stronger links between land use and land preservation, thereby benefiting people, wildlife and the economy. By revealing the workings of nature’s own infrastructure and by using nature as a model, environmental works can be self-sustaining and can offer the potential for experiences of the sublime. This project calls for a “landscape as laboratory” approach with several dimensions. First, the work explores the aesthetics and practice of sustainability while making ecological processes visible. The project has an integrated aesthetic that addresses on-site stormwater management, water harvesting and conservation, native plantings, pervious paving, and best soil practices. This can function to provide habitat, help to recharge the aquifer, and maintain nutrients on-site. The project is implemented as a public/private partnership where each party brings knowledge and expertise to enrich and sustain the artwork.

OPPORTUNITIES

1. Work with a developer to on a site that is important to the context of Broward County’s complex mosaic of ecosystems and its natural and human-made infrastructure
2. Establish the county as a leader in the use of green site work practices

PROJECT

1. Environmental artwork that treats the landscape as laboratory and that reveals natural processes
2. Collaboration and synergistic partnership of the artist, the county, and a private entity



Mithun Architects & 2020 Engineering, Living Machine



Buster Simpson, Aquaduct

Green infrastructure is our nation’s natural life support system - an interconnected network of protected land and water that supports native species, maintains natural ecological processes, sustains air and water resources and contributes to the health and quality of life for America’s communities and people.

—GreenInfrastructure.net

Building as Laboratory— The Art of Green Building

Key County Initiatives

- SMART GROWTH
- WATER QUALITY
- EDUCATION
- WILDLIFE HABITAT
- NATURESCAPE

PROJECT DESCRIPTION

Artists and architects can promote healthier ecosystems by constructing human habitats that are part of larger urban ecosystems. This project calls for an artist to participate as a design team member for a building that creatively reveals its functions and that uses resources wisely. Green buildings often incorporate: shading devices; natural ventilation and lighting; siting that limits sun exposure; green roofs and vertical green walls that provide habitat and insulation; graywater systems that conserve water; local and recycled materials; pervious surfaces; and on-site stormwater storage and subsequent infiltration in the surrounding landscape.

The building of shelters consumes one-sixth of the world's fresh water supply, one quarter of its wood harvest, and two-fifths of its fossil fuels and manufactured materials. Solutions can be reached through heightened awareness about the relationships between construction and environment, an exploration of new sources of form and content, and a confirmation that the building arts are in the nascent stage of a revolutionary transformation that will ultimately change the way we live.

—James Wines, *Green Architecture*

OPPORTUNITIES

1. Express the aesthetics of green building principles
2. Create a building that reveals its function and processes in a sustainable way
3. Establish the county as a supporter of and leader in the use of sustainable building solutions. Incorporate U.S. Green Building Council LEED™ sustainability ratings and awards

PROJECTS

1. Artist as design team member for a building whose program includes green building practices. Reveal the building's function and its ties to natural processes and larger urban ecosystems



T.R. Hamzah & Yeang,
Max Tower



Ned Kahn, *Wind Veil*



Renzo Piano, Jean-Marie
Tjibaou Cultural Center



Ned Kahn, *Greenhouse Project*



Jersey Devil

Community Green Mapmaking

Key County Initiatives

- CONNECTIVITY
- EDUCATION
- SENSE OF PLACE

PROJECT DESCRIPTION

Colorful, free Green Maps™ will help youth and families make greener, more eco-smart choices as they explore a diversity of natural and cultural sites around the county's neighborhoods, parks, and waterways. The process can involve a diversity of communities. For a youth-authored map, nominations for participants can be drawn from dozens of classrooms and out-of-school clubs. A professionally designed map features youth's thoughtful site descriptions, drawings, and wish list, spiced with weblinks and lively globally designed Green Map™ icons.

Community green mapping can provide a fresh perspective that encourages discovery and personal involvement, cultural understanding and healthier daily choices by both residents and visitors. Users will become more aware and appreciative of the county's vibrant, complex environment through this exciting on-line and handy printed folding Green Map™.

Green Map System can provide the local project leader in Broward County with a 50-page how-to guide with step-by-step advice including: in-class briefing sessions that set sustainability in the local context prior to site-spotting field trips; tips for map composition; and creation of a Green Map™ public launch event.



Wendy Brawer,
Green Map System



Wendy Brawer, Green Map System

OPPORTUNITIES

1. Help community members of all ages and professions to learn in depth about their environs, thereby strengthening their sense of place
2. Link community green mapping to other ongoing efforts within the county
3. Highlight multiple themes: water, eco-tourism, species, daily life needs, sensory interest points, natural resources

POTENTIAL PROJECTS

1. Youth-authored Green Map™ of a portion or all of Broward County
2. Progress snapshot mapping process that showcases the progress of projects over the next 2, 10, and 30 years
3. LoopMap: Green Map™ of a specific loop or in association with a loop-wide or regional community project



Wendy Brawer, Green Map System



- EDUCATION
- SENSE OF PLACE

Residency & Travelling Art Exhibit

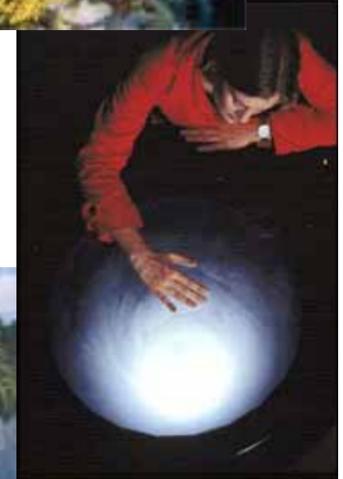
PROJECT DESCRIPTION

An artist is in residence within the Parks and Recreation Division, creating works relating to parks and natural areas. The resulting artworks can travel from park to park as part of a temporary or ongoing initiative.

An artist can also partner with a local science museum to create artworks based on the Everglades restoration. A precedent for this kind of partnership is The Exploratorium in San Francisco which is a museum of science, art, and human perception that invites visitors, artists, scientists, educators, and exhibit developers to explore the natural world in new ways.

Art is included, not just to make things pretty, although it often does so, but primarily because artists make different kinds of discoveries about nature than do physicists or geologists. They also rely on a different basis for decision-making while creating their exhibits. But both artists and scientists help us notice and appreciate things in nature that we had learned to ignore or had never been taught to see. Both art and science are needed to fully understand nature and its effects on people.

—Exploratorium website



Ned Kahn, Infalling Cloud

OPPORTUNITIES

1. Develop new insights and understandings by incorporating the artistic process with other investigative processes
3. Initiate internal and public discourse about the relationships among art, science, human activities, and topics related to multidisciplinary activities

PROJECTS

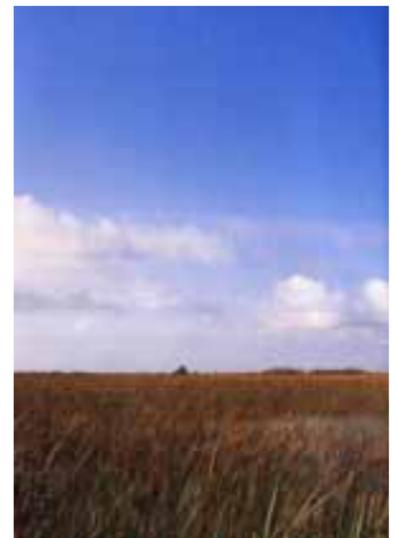
1. Artist-in-Residence within the Parks and Recreation Division and/or at a local science museum with an art exhibition as the outcome



Ned Kahn, Invisible Whirlwinds



Andrej Zdravic, Water Waves



Ephemeral & Performance Art— Species & Habitats

Key County Initiatives

- CONNECTIVITY
- EDUCATION
- WILDLIFE HABITAT

PROJECT DESCRIPTION

These works are either events created and performed by an artist or an artwork that interacts with its environment over time. In either case, the artist uses a site as a stage set that connects people to species and habitats. The work itself can heal or improve habitats. This kind of artwork acknowledges the power of the individual to effect change or to improve a given quality or condition.

The work is sited along the Coastal Loop, the rich and diverse ocean edge of the county. It draws upon the forces of the land/water interaction and the species that inhabit this loop.



Catherine Chalmers, Food Chain



Nils-Udo, The Nest



Andy Goldsworthy

OPPORTUNITIES

1. Bring attention to and improve condition of endangered or other species
2. Draw upon coastal gradient and forces
3. Address sea turtle life cycles and habitats. Address the importance of minimizing light during nesting season
4. Trace bird migration patterns and create bird habitat
5. Create Parade of Species on the Hollywood Boardwalk
6. Address mangrove habitat

POTENTIAL PROJECTS

1. Performance art piece
2. Habitat revelation and/or improvement artwork



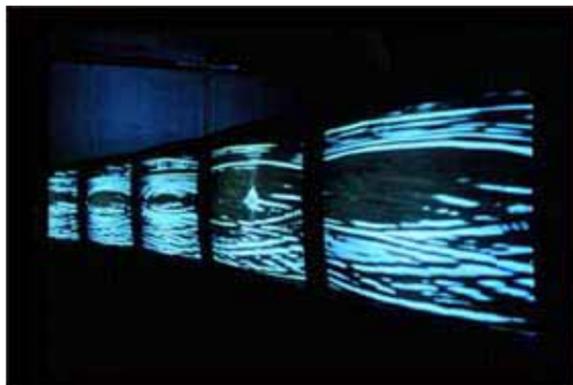
Phenomenological Art— Natural Processes and Phenomena

Key County Initiatives

- SENSE OF PLACE
- EDUCATION
- WILDLIFE HABITAT

PROJECT DESCRIPTION

These site-based projects offer sensory experiences that heighten our awareness of natural processes and phenomenological elements that are unique to the region. The phenomena can range from the subtle to the sublime, revealing characteristics and qualities of sky, fire, wind, sun, thunderstorms, and water (including the movements of the immense Gulf Stream).



Andrej Zdravic, *Water Waves*



Ned Kahn, *Breathing Sky*



Doug Hollis, *Aeolian Harp*



Ned Kahn, *Circling Wave Umbrella*

OPPORTUNITIES

1. Draw upon wide range of phenomena that are unique to Florida and its ecosystems
2. Create awareness of forgotten or invisible aspects of the Broward environment



Nils-Udo, *Water House*

POTENTIAL PROJECTS

1. Vegetation management artwork (fire)
2. Dune migration artwork
3. Water transformation artwork: liquid to vapor
4. Aeolian harp (sound created by wind action)
5. Wave action artwork



Sound Sculpture—Eco-communities

Key County Initiatives

- CONNECTIVITY
- EDUCATION
- SENSE OF PLACE

SOUND ARTWORKS

Sound sculptures can use the human and/or natural environment to create an assemblage of designed sound events. For example, sound artist Bill Fontana creates “musical information networks” as public artworks. He assumes that at any given moment there will be something meaningful to hear and that music is a natural process that is going on constantly. These information systems are designed by selecting sound locations within either an urban or natural environment, placing live microphones or hydrophones at these locations, and simultaneously transmitting the sounds to a central listening point (sound sculpture location).

Sound can be used as a medium to express the simultaneity of life in a way that is not possible with visual media, since it is possible to hear multiple sound events from different parts of the county at the same time. At any given moment, someone in a city, for example, can be transported to other parts of Broward County in an acoustic journey of the imagination.

—*The Environment as a Musical Resource*
by Bill Fontana was used as a reference



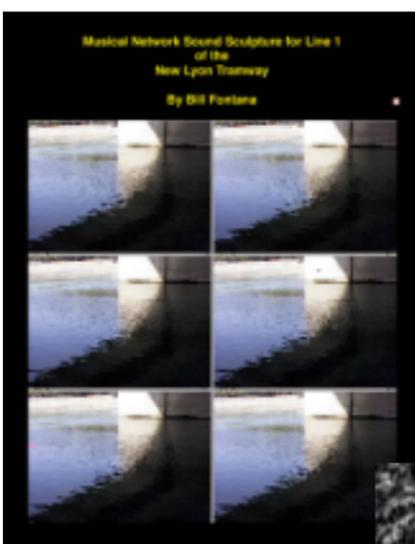
Bill Fontana, *Sound Island*

OPPORTUNITIES

1. Link communities to the habitats and natural processes of places through sound
2. Create acoustic journeys of imagination and memory
3. Express the simultaneity of natural and urban environments

POTENTIAL PROJECTS

1. Create a permanent but changing musical information network that expresses the sonic qualities of the eleven eco-communities of Broward County



Bill Fontana, *Musical Network*



Bill Fontana, *Musical Network*

Radio/Web Projects

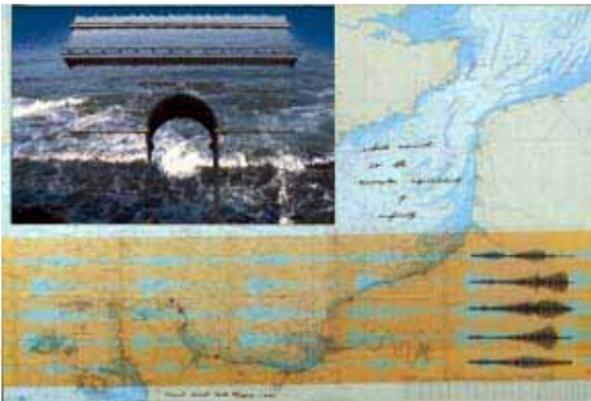
Key County Initiatives

- CONNECTIVITY
- EDUCATION
- SENSE OF PLACE
- NATURESCAPE

Radio/Web Projects

A series of radio and internet projects feature artworks that exhibit a creative use of sound, graphics, stories, and information based on the *Theater of Regeneration*.

Within sites, cost effective low-power AM broadcasts can tell the story of the artwork and can include found sound, interviews, and interpretive stories. Listeners can be invited to visit the other art sites throughout the county. Cleveland Metroparks uses low-power AM for parks interpretation. See their site at http://www.issinfosite.com/the_source_case_study_cleveland.htm.



Bill Fontana, Sound Island



OPPORTUNITIES

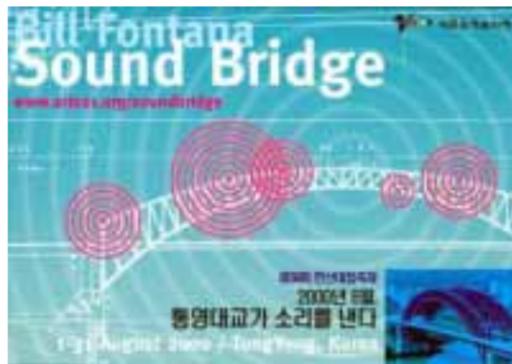
1. Use the radio and web as a means to encourage people to experience and learn about their environment
2. Highlight multiple themes and approaches to radio and internet media

POTENTIAL PROJECTS

1. A series of artworks, stories, and information for the radio and internet based on the *Theater of Regeneration*
2. Broadcast a changing sound artwork that addresses the eleven eco-communities of Broward County
3. Create a changing visual web artwork that addresses the water of Broward County



Bill Fontana, Time Fountain



Bill Fontana, Sound Bridge



Theater of Regeneration Implementation Matrix

January 30, 2004

		Project Priority	Project Number, Name, & Page Number of Full Description	Budget Allocation	Start Schedule	Artist
TWO YEAR	I.		1. Long Key pp.34–35	\$1,080,000	2004	Lorna Jordan
	II.		2. Central Broward Regional Park pp.36–37	\$ 270,000	2004	Lorna Jordan
TEN YEAR	III. (with IV.)		3. Dreams & Panoramas: Eco-Loops pp.40–41 <ul style="list-style-type: none"> ■ Broward County/South Florida Loop ■ Greenways Loop ■ Blueways Loop: New River 	*For Each Project Element: <ul style="list-style-type: none"> ■ Design: \$35,000–\$150,000 ■ Implementation: TBD (depends on partnerships, grants, & future funding) 	2005	Lorna Jordan
	IV. (with III.)		4. Dreams & Panoramas: Water as Lens pp.40,42–43 <ul style="list-style-type: none"> ■ Ocean Example: Coastal Gradient ■ Everglades Example: Markham Park/Everglades ■ Swamp Example: Fern Forest ■ Irrigation Water Examples: Tradewinds & Community Gardens ■ Water & Exotic Species Example: Everglades Buffer Strip ■ Stormwater Ponds Examples: Vista View & Waldrup Dairy ■ Urban Water Example: Government Center & Central Broward Regional Park 	*For Each Project Element: <ul style="list-style-type: none"> ■ Design: \$35,000–\$150,000 ■ Implementation: TBD (depends on partnerships, grants, & future funding) <p>*NOTE: For Dreams & Panoramas, budgets vary depending on the scale of project elements, the opportunities, and how design and implementation are structured. One example is a partnership with a government agency or private entity in which the artist participates as a design team member, with designs incorporated into construction documents. A second example is an artist-led design team. A third example is a project in which the artist designs and produces the artwork.</p>	2005	Lorna Jordan
	V.		5. Greenways Phase I: Repeatable Site Furnishings & Artworks for System p.44	<ul style="list-style-type: none"> ■ Design: \$60,000 ■ Implementation: TBD as part of Implementation Program of Greenways 	2004	Jim Adamson & Steve Badanes
	VI.		16. Radio/Web Projects p.55 <ul style="list-style-type: none"> ■ Restoration Radio ■ Sound Art Project ■ Interactive Web Art Project 	<ul style="list-style-type: none"> Design & Implementation: \$40,000 Design & Implementation: \$50,000 Design & Implementation: \$65,000–\$100,000 	2005 2005 2005	Steve Moddemeyer TBD TBD
	VII.		13. Ephemeral & Performance Art—Species & Habitats p.52	Design & Implementation: \$60,000	2005	TBD
	VIII.		11. Community Green Mapmaking p.50	Design & Implementation: \$30,000	2005	Wendy Brawer
	IX.		8. Snake Warrior’s Island p.47	Design & Implementation: \$80,000 –\$100,000	2008	TBD
	X.		7. Plantation Heritage Park p.46	Design & Implementation: \$150,000–\$200,000	2008	TBD
	XI.		12. Residency & Travelling Art Exhibit p.51	<ul style="list-style-type: none"> ■ Residency/Design: \$50,000 ■ Implementation: TBD (depends on partnerships, grants, & future funding) 	2008	TBD
	XII.		9. Landscape as Laboratory: The Art of Green Infrastructure p.48	<ul style="list-style-type: none"> ■ Design: \$60,000 ■ Implementation: TBD 	2010	TBD
	XIII.		10. Building as Laboratory: The Art of Green Building p.49	<ul style="list-style-type: none"> ■ Design: \$60,000 ■ Implementation: TBD 	2009	TBD
	XIV.		6. Vista View (Artwork located on top of hill) p.45	Design & Implementation: \$200,000	2011	TBD
	XV.		15. Sound Sculpture—Eco-communities p.54 (permanent installation)	<ul style="list-style-type: none"> ■ Design: \$60,000 ■ Implementation: TBD 	2007	TBD
	XVI.		14. Phenomenological Art: Natural Processes and Phenomena p.53	Design & Implementation: \$80,000	2012	TBD