

Centre for Training and Innovation

Lucayan Farms: Revitalizing a Vibrant, Healthy Future

Eleuthera, The Bahamas

P R O J E C T O V E R V I E W

OVER THE COURSE OF THE SEMESTER, MY STUDIO AND I HAVE BEEN WORKING WITH THE ONE ELEUTHERA FOUNDATION AND THE MEMBERS OF THE COMMUNITY ON ELEUTHERA ISLAND TO DEVELOP DESIGN STRATEGIES FOR THE CENTRE FOR TRAINING AND INNOVATION. BEGINNING WITH IN-DEPTH RESEARCH AND ANALYSIS, MY CLASSMATES AND I DEVELOPED A THOROUGH UNDERSTANDING OF THE SITE CONDITIONS, THE SURROUNDING AREAS, VEGETATION AND WILDLIFE, ISLAND CHARACTER, LANDSCAPE AND ENVIRONMENTAL CONDITIONS, ENVIRONMENTAL FACTORS, HYDROLOGY, GEOGRAPHIC LOCATION AND SETTING, AND THE CULTURE OF THE ISLAND ITSELF. AS A STUDIO, WE SOUGHT TO PROVIDE MASTER PLAN AND SITE-SPECIFIC DESIGN SOLUTIONS FOR THE CENTRE FOR TRAINING AND INNOVATION, CTI.

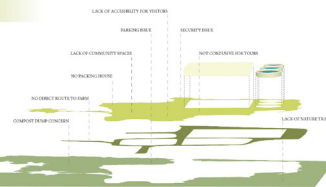
Centre for Training and Innovation (CTI)
CTI, One Eleuthera

EXISTING CONDITIONS

ALONG WITH EXISTING SITE CONDITIONS OF THE LAND, MY CLASSMATES AND I LEARNED ABOUT THE CHALLENGES FACING ELEUTHERA INCLUDING ENVIRONMENTAL AND ECOLOGICAL THREATS, THE NEED FOR CONSERVATION, PRESERVATION, AND RE-PURPOSING, FOOD SECURITY AND SUSTAINABLE AGRICULTURE, COMMUNITY DEVELOPMENT, ENERGY AND WATER RESOURCES, AS WELL AS EDUCATION, TECHNOLOGY, AND COMMUNICATION NEEDS. CTI'S CURRENT CAMPUS DEMONSTRATES A LACK OF NECESSARY FACILITIES FOR STUDENTS AND EMPLOYEES, POOR CIRCULATION WITHIN THE SITE, A LAYOUT THAT IS NOT CONDUCIVE FOR CONNECTIVITY, AND A DISCONNECT BETWEEN THE SITE AND THE COMMUNITY ON THE ISLAND.

COMMUNITY FEEDBACK

IN ADDITION TO INDIVIDUAL AND GROUP RESEARCH DONE BY THE TEAM CLEMSON, WE ALSO PARTICIPATED IN ACTIVE COMMUNITY ENGAGEMENT SESSIONS TO HAVE AN ACCURATE UNDERSTANDING OF WHAT IT IS THE COMMUNITY MEMBER ARE EXPRESSING A NEED FOR. THROUGH QUESTIONNAIRES AND MAPPING, WE WERE ABLE TO DETERMINE WHERE THE STRENGTHS, WEAKNESSES, THREATS, AND OPPORTUNITIES LIE ON THE SITE. WE ALSO GOT VERY SPECIFIC FEEDBACK EXPRESSING EXACT REQUESTS OF COMMUNITY MEMBERS. FEEDBACK PERTAINING TO MY PORTION OF THE SITE INCLUDED A LACK OF DIRECT ROUTE TO THE FARM, COMPOST CONCERNS, LACK OF PACKING HOUSE, LACK OF COMMUNITY SPACE AND SEATING, SECURITY ISSUES AT THE FARM ENTRANCE, LACK OF NATURE TRIALS AND LACK OF CUSTOMERS EXPOSED TO THIS AREA.



DESIGN GOALS & STRATEGIES

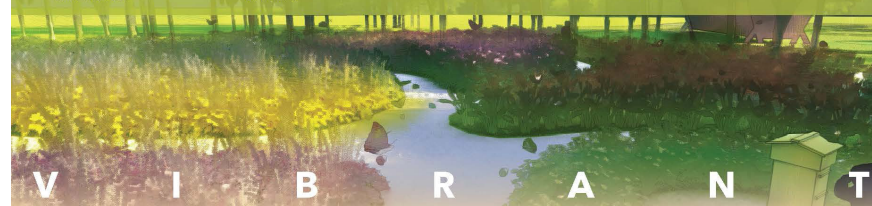
MY DESIGN STRATEGIES INCLUDE IMPROVING EXISTING AND IMPLEMENTING NEW CIRCULATION THROUGHOUT THE SITE, CREATING SPACES WHERE COMMUNITY MEMBERS ARE WELCOMED AND ENCOURAGED, INTEGRATING EDUCATION AND SUSTAINABILITY INTO DESIGN, AND BUILDING TO CREATE A CTI THAT WILL THRIVE WELL INTO THE FUTURE. THE GOALS BEHIND MY DESIGN STRATEGIES ARE TO CREATE AN INVITING AND COMMUNITY ORIENTED CENTER WHERE EDUCATION IS AT THE FOREFRONT OF FUTURE SUSTAINABILITY AND GROWTH. THIS IS ACCOMPLISHED BY DESIGNING WITH THE UNDERLYING THEMES OF UNITY, RESILIENCE, NOURISHMENT, AND TRANQUILITY. ALL COMPONENTS ARE INTERWOVEN TO CREATE A SITE SPECIFIC DESIGN THAT FOSTERS THE DEVELOPMENT OF A HEALTHY, VIBRANT COMMUNITY.

CONCEPT STATEMENT

LUCAYAN FARMS IS DESIGNED WITH THE INTENTION OF CREATING AN ENVIRONMENT THAT IS COMMUNITY ORIENTED WITH EDUCATION, SUSTAINABILITY, AND INCLUSIVITY AT THE FOREFRONT. THE DESIGN PROMOTES A SENSE OF COMMUNITY AND CONNECTIVITY WHILE FOSTERING CULTIVATION AND GROWTH. THROUGH THIS DESIGN, CTI HAS THE POWER TO BECOME A SELF-SUFFICIENT, EDUCATIONAL HUB WHILE STAYING TRUE TO ITS ISLAND CHARACTER AND ELEUTHERAN CHARM. LUCAYAN FARMS, A HEALTHY, VIBRANT FUTURE.



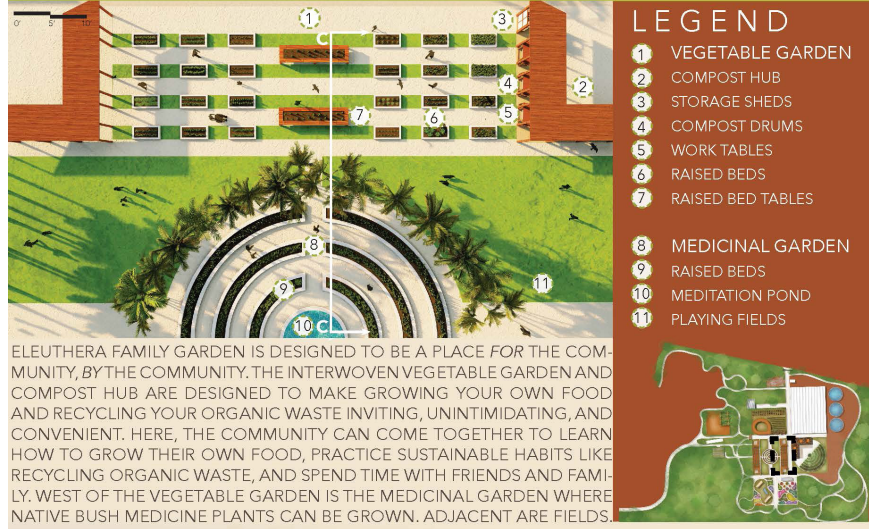
YELLOW ELDER POLLINATOR GARDEN



THE YELLOW ELDER POLLINATOR GARDEN IS DESIGNED WITH EDUCATION AND PRESERVATION AT THE FOREFRONT. THIS BOTANICAL GARDEN OFFERS AN INTERACTIVE EDUCATIONAL EXPERIENCE FOR VISITORS OF ALL AGES. THE GOAL OF THIS DESIGN IS TO INFORM VISITORS ABOUT NATIVE PLANTS, NATIVE POLLINATOR SPECIES, AND HOW TO PROTECT BOTH OF THEM. FROM LEARNING WHAT POLLINATOR PLANTS ARE BEST FOR BIRDS AND BEES, TO LEARNING THE PROCESS OF HONEY PRODUCTION, VISITORS WILL LEAVE WITH THE KNOWLEDGE AND THE POWER TO PROTECT THE FUTURE OF THE ENVIRONMENT.



ELEUTHERA FAMILY GARDEN



ELEUTHERA FAMILY GARDEN IS DESIGNED TO BE A PLACE FOR THE COMMUNITY, BY THE COMMUNITY. THE INTERWOVEN VEGETABLE GARDEN AND COMPOST HUB ARE DESIGNED TO MAKE GROWING YOUR OWN FOOD AND RECYCLING YOUR ORGANIC WASTE INVITING, UNINTIMIDATING, AND CONVENIENT. HERE, THE COMMUNITY CAN COME TOGETHER TO LEARN HOW TO GROW THEIR OWN FOOD, PRACTICE SUSTAINABLE HABITS LIKE RECYCLING ORGANIC WASTE, AND SPEND TIME WITH FRIENDS AND FAMILY. WEST OF THE VEGETABLE GARDEN IS THE MEDICINAL GARDEN WHERE NATIVE BUSH MEDICINE PLANTS CAN BE GROWN. ADJACENT ARE FIELDS.



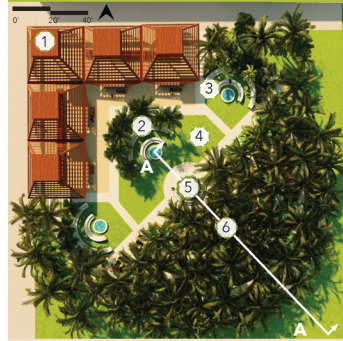
PERSPECTIVE A - COME COMPOST!
VIEW LOOKING NORTH EAST FROM THE COMPOST HUB. COUNTER HEIGHT TABLES ATOP THE COMPOST DRUMS ALLOW FOR A CONVENIENT, USER FRIENDLY COMPOSTING EXPERIENCE.

PERSPECTIVE B - A WORKING GARDEN
VIEW FACING SOUTH WEST FROM THE PLANTING TABLES. THE AISLED LAYOUT MAKES FOR A FUNCTIONAL, NAVIGABLE GARDEN DESIGN WITH ALTERNATING SAND AND GRASS AISLES.

PERSPECTIVE C - TOGETHER WE GROW
VIEW FACING SOUTH FROM VEGETABLE GARDEN. FILLED COMPOST DRUMS CAN BE EASILY DETACHED AND ROLLED DOWN THE AISLES, DESIGNED TO MAXIMIZE CONVENIENCE.



GREAT CUCKOO FOREST



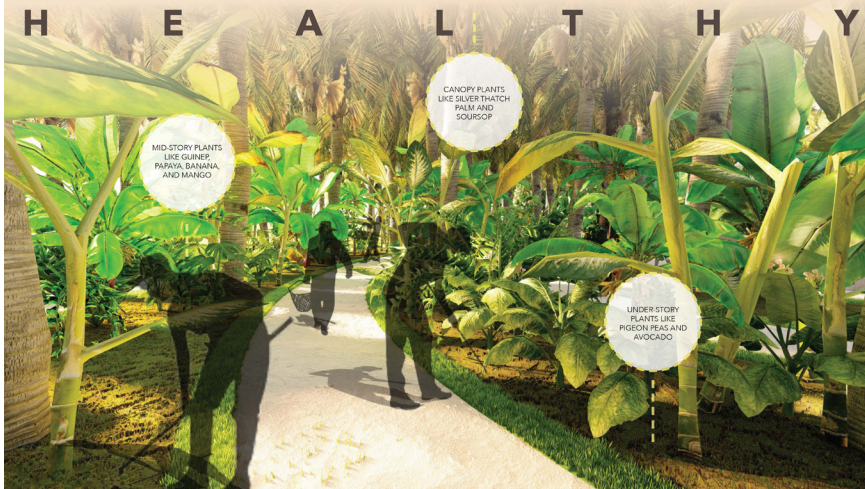
LEGEND

- 1 OPEN AIR MIXED USE BUILDING
- 2 PLASTER BENCH SEATING
- 3 MICRO-CLIMATE WATER POND
- 4 OPEN GREEN SPACE
- 5 CENTER PLASTER SEATING WITH RAISED PLANTER
- 6 FOOD FOREST



THE FOOD FOREST IS DESIGNED WITH THE INTENT TO MAXIMIZE THE PRODUCTION OF MATERIALS THROUGH A PERMACULTURE-STYLE APPROACH. THINK VERTICAL AGRICULTURE. EACH LAYER OF THE FOREST HAS AN ASPECT OF PRODUCTIVITY. HERE, A DIVERSE PLANTING OF EDIBLE SPECIES ATTEMPTS TO

MIMIC THE ECOSYSTEM AND PATTERNS FOUND IN NATURE. IN THIS DESIGN THERE ARE THREE LAYERS: THE CANOPY, THE MID-STORY, AND THE UNDER-STORY. EACH PLANT TAKES ITS PLACE IN A LAYER WHERE IT THRIVES IN THE CONDITIONS INFLUENCED BY THE OTHER PLANTS AROUND IT. IN ADDITION TO THE FOOD AND MATERIALS PRODUCED BY THE FOREST, THIS DESIGN PROVIDES SHADE AND MICRO-CLIMATE CONTROL, CREATING AN ENVIRONMENT TO BE ENJOYED BY WORKERS, STUDENTS, AND COMMUNITY MEMBERS. ACROSS FROM THE FOREST IS AN OPEN-AIR, MIXED-USE BUILDING WHERE CLASSES CAN BE HELD, MEETINGS CAN TAKE PLACE, AND EVENTS CAN CARRY ON UNDER THE STARS. THIS IS A SPACE DESIGNED TO BE CONDUCTIVE OF ALL OF ITS GUESTS.



PERSPECTIVE A - ROWS OF GOLD
A SOUTH EAST FACING VIEW OF THE FOOD FOREST ROWS. THIS DESIGN INTENT IS ONE OF FUNCTIONAL PRODUCTION AS WELL AS BOTANIC EXPERIENCE.

PERSPECTIVE B - THE CLASSROOM
A SOUTH FACING VIEW OF THE OPEN-AIR OUTDOOR CLASSROOM ADJACENT TO THE FOOD FOREST. HERE STUDENTS, EMPLOYEES AND COMMUNITY MEMBERS CAN ENGAGE.

PERSPECTIVE C - TAKE A SEAT
A SOUTH FACING SECTION OF THE OPEN GREEN SPACE AND OUTDOOR SEATING FACING THE FOOD FOREST. A NODE OF RELAXATION AND IMMERSION IN NATURE.



PRECEDENT STUDY



THE DESIGN INSPIRATION FOR LUCAYAN FARMS CAME FROM MANY WELL DESIGNED PROJECTS WHO SET PRECEDENT FOR MY CREATIONS. BELOW ARE ASPECTS OF THE PROJECT THAT PULLED FROM EXISTING DESIGNS.



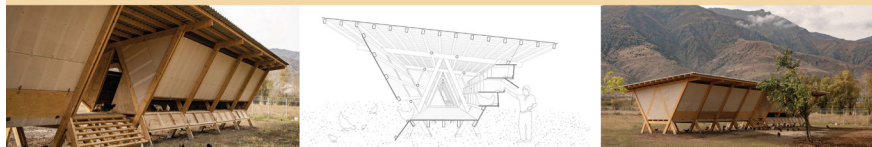
INSPIRATION FOR THE VISITORS CENTER PULLS FROM ASPECTS OF THE NAPLES BOTANICAL GARDEN WELCOME CENTER. THE NATURAL AND IMMERSIVE DESIGN USHERS VISITORS IN AND ENCOURAGES A CONNECTION TO YOUR SURROUNDINGS.



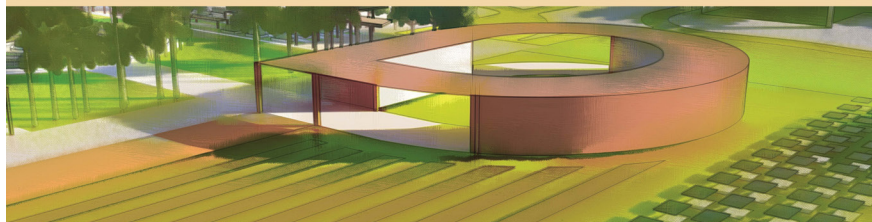
INSPIRATION FOR THE TRIAL HEAD CAME FROM A PROJECT AT THEODORE WIRTH PARK. THIS WAS DESIGNED TO FOSTER A LOVE OF OUTDOOR ADVENTURE THROUGH THE USE OF TIMBER FRAMING THAT BLENDS IN SEAMLESSLY.



INSPIRATION FOR CHICKEN TOWN CAME FROM A PROJECT BY PAULA PINTOS IN ERZINCAN, TURKEY. THE DESIGN AIMS TO REVITALIZE A NEGLECTED RURAL AREA INTO AN ATTRACTION POINT WITHOUT LOSING ITS CHARACTER.



INSPIRATION FOR THE PACKING HOUSE CAME FROM ALEX ULAM'S PROJECT DESIGNED TO COMBAT FOOD INSECURITY AND MAL-NOURISHMENT WITH REGENERATIVE AGRICULTURE. THE DESIGN IS ABOUT IMPROVING THE WAY WE LIVE.





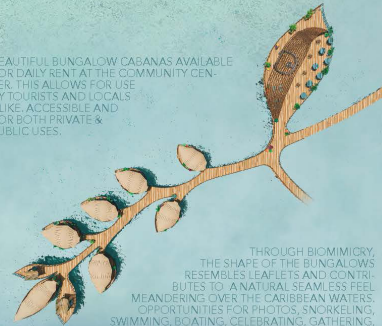


TARPUM BUNGALOWS

ELEUTHERA, BAHAMAS



BEAUTIFUL BUNGALOW CABANAS AVAILABLE FOR DAILY RENT AT THE COMMUNITY CENTER. THIS ALLOWS FOR USE BY TOURISTS AND LOCALS Alike, ACCESSIBLE AND FOR BOTH PRIVATE & PUBLIC USES.



THROUGH BIOMIMICKY, THE SHAPE OF THE BUNGALOWS RESEMBLES LEAFLETS AND CONTRIBUTES TO A NATURAL SEAMLESS FEEL MEANDERING OVER THE CARIBBEAN WATERS. OPPORTUNITIES FOR PHOTOS, SNORKELING, SWIMMING, BOATING, CELEBRATING, GATHERING, GRABBING A DRINK OR A BITE TO EAT

HIGH TIDES...



BY ELEVATING NATURAL ENVIRONMENTAL ASSETS, THE TARPUM BUNGALOWS SEAMLESSLY EMBRACE THE PICTURESQUE WATERFRONT. THIS STRATEGIC LOCATION ESTABLISHES A PERFECT BUFFER BETWEEN THE RESIDENTIAL AREA AND VISITORS AND ACTS AS A UNIFYING FORCE WITHIN THE COMMUNITY. THE BOARDWALK GRACEFULLY WEANDERS TOWARD THE FISHING DOCKS AND THE PROSPECTIVE MARINA AREA, SEAMLESSLY INTERTWINING WITH LUSH GARDENS.



...PEACEFUL

BEYOND ITS AESTHETIC APPEAL, THE BUNGALOWS SERVE AS CATALYSTS FOR SUSTAINABILITY AND EDUCATION. PROPOSING CORAL RESTORATIONS NOT ONLY ATTRACTS SUSTAINABLE TOURISM BUT ALSO NURTURES A THRIVING MARINE ECOSYSTEM. THE BUNGALOWS BECOME FOCAL POINTS FOR EDUCATIONAL INITIATIVES, OFFERING OPPORTUNITIES FOR IMMERSIVE EXPERIENCES LIKE SNORKEL TOURS.

CABANA RENTALS...



...SUNSET INTEREST



0 2' 4' 8' 16'

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SEASIDE COMMONS

ELEUTHERA, BAHAMAS



SEASIDE COMMONS IS A DYNAMIC HUB WHERE LOCALS AND TOURISTS COME TOGETHER TO EXPERIENCE A RANGE OF COMMUNAL ACTIVITIES. FROM LISTENING TO LIVE MUSIC BY A LOCAL BAND TO THE TEMPTING AROMAS WAFTING FROM THE FRESH ISLAND FLAVOR RESTAURANT, THERE'S SOMETHING FOR EVERYONE.

SITUATED AS A PIVOTAL NODE, CONTINUING TARPUM BAY'S DOWNTOWN SCENE, SEASIDE COMMONS EFFORTLESSLY EXTENDS THE TOWN'S ENERGY, SEAMLESSLY CONNECTING WITH THE MORE SOUTHWESTERN SIDE. THIS CENTRAL LOCATION DRAWS VISITORS CLOSER TO GARDENS AND THE BOARDWALK.

AS A CULTURAL BRIDGE, SEASIDE COMMONS WEAVES TOGETHER THE FABRIC OF TARPUM BAY, OFFERING A SYNTHESIS OF CAPTIVATING VIEWS AND VIBRANT ARCHITECTURE. IN THIS INVITING SPACE, INDIVIDUALS ARE ENCOURAGED TO EXPLORE, CONNECT, AND PARTAKE IN BOTH PERSONAL AND SHARED EXPERIENCES.



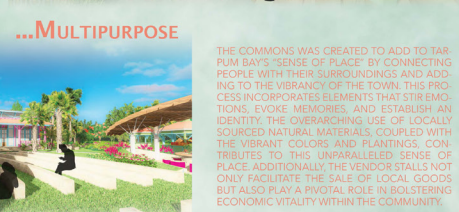
BIOMIMICRY...



THE INTEGRATION OF BIOMIMICRY PRINCIPLES ACROSS SITE DESIGNS PROMOTES HARMONIOUS COEXISTENCE WITH NATURE AND CULTIVATES A CONNECTION TO THE NATURAL ENVIRONMENT. AT THE HEART OF THE SITE, THE STAGE ACTS AS A VERSATILE FOCAL POINT, PROVIDING AN IDEAL SPACE FOR A MYRIAD OF ACTIVITIES SUCH AS WEDDINGS, PERFORMANCES, MOVIE NIGHTS, YOGA CLASSES, PRESENTATIONS, MEETINGS, AND OUTDOOR CHURCH SERVICES. ENRICHING THE COMMONS WITH UNIQUE AREAS FOR PLAY, DINING, SECLUSION, RELAXATION, AND COMMUNAL GATHERINGS ACTIVELY NURTURES A SENSE OF COMMUNITY.



...FRESH FISH AND FRUITS



...MULTIPURPOSE

THE COMMONS WAS CREATED TO ADD TO TARPUM BAY'S 'SENSE OF PLACE' BY CONNECTING PEOPLE WITH THEIR SURROUNDINGS AND ADDING TO THE VIBRANCY OF THE TOWN. THIS PROCESS INCORPORATES ELEMENTS THAT STIR EMOTIONS, EVOKE MEMORIES, AND ESTABLISH AN IDENTITY. THE OVERARCHING USE OF LOCALLY SOURCED NATURAL MATERIALS, COUPLED WITH THE VIBRANT COLORS AND PLANTINGS, CONTRIBUTES TO THIS UNPARALLELED SENSE OF PLACE. ADDITIONALLY, THE VENDOR STALLS NOT ONLY FACILITATE THE SALE OF LOCAL GOODS BUT ALSO PLAY A PIVOTAL ROLE IN BOLSTERING ECONOMIC VITALITY WITHIN THE COMMUNITY.

PLAY...



SEASIDE COMMONS UNFOLDS A LARGE ARRAY OF SPACES CATERING TO BOTH CHILDREN AND ADULTS. THE EXPANSIVE CHILDREN'S PARK PARALLELS THE NUANCES OF NATURE, STRETCHING FROM THE WATER (THE OCEAN) TO THE SAND BOXES (THE BEACH), AND FINALLY TO THE PLAY STRUCTURE REMINISCENT OF INLANDS AD BUSH. ADJACENT TO THIS, THE HAMMOCK HIDEAWAY PALM GARDEN PROVIDES A TRANQUIL ESCAPE FOR PARENTS TO UNWIND, OFFERING A VIEW OF THEIR CHILDREN AT PLAY, LIVE PERFORMANCES ON STAGE, AND FRESH CONCH FOR A LEISURELY LUNCH.



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POLLINATOR PALETTE + CUT STONE STUDIOS

ELEUTHERA, BAHAMAS



THE CONCEPT OF AN ART COLONY ACTS AS A CATALYST, FOSTERING AN ENVIRONMENT WHERE ARTISTS DRAW INSPIRATION FROM THEIR SURROUNDINGS AND INSPIRE ONE ANOTHER. THIS INITIATIVE OPENS DOORS FOR CREATIVE MINDS FROM AROUND THE WORLD TO MINGLE WITH LOCAL TALENTS, CREATING A VIBRANT EXCHANGE OF IDEAS AND ARTISTIC PERSPECTIVES. IMPORTANTLY, THESE ARTISTS CAN EXTEND WELCOME TO THE LOCAL SCHOOL CHILDREN, PROVIDING THEM WITH OPPORTUNITIES FOR EXPOSURE TO THE WORLD OF ART.

THE ENVISIONED ART COLONY CAN BECOME A CULTURAL NEXUS, INTERWEAVING GLOBAL WITH LOCAL, AND USHERING IN A NEW ERA OF ARTISTIC EXPLORATION AND COMMUNITY ENGAGEMENT IN TARPUM BAY.



REVITALIZED RUINS...



THE POLLINATOR PALETTE GARDEN PRESENTS FLORAL VIBRANCY ON A SILVER PLATTER. A HAVEN FOR INDIVIDUALS, GROUPS, AND FAMILIES ALIKE, THE GARDEN INVITES LEISURELY STROLLS ALONG ITS WINDING PATHS. THE PERMEABLE NATURE OF THE PATHS ALLOWS FOR WATER PENETRATION AND CONTRIBUTES TO STORM RESILIENCY.

AMIDST THE BLOOMS, THESE GARDENS PROVIDE SANCTUARY TO ESCAPE DAILY LIFE, ALLOWING VISITORS TO FIND PEACE WITHIN NATURE. ATOP THE LUSH FLOWER PLANTINGS THERE ARE PLATFORMS FOR ARTISTS AND COMMUNITY MEMBERS, PROVIDING AN ELEVATED PERSPECTIVE TO ABSORB THE SURROUNDINGS AND DRAW INSPIRATION. THESE CREATIONS, ONCE CRAFTED, COULD FIND A HOME IN THE VISITOR CENTER FOR PUBLIC DISPLAY.

...ART COLONIES



...ART IN NATURE



BEYOND ITS VISUAL ALLURE, THIS AREA UNFOLDS AS AN ARTISTIC HAVEN, FOSTERING OPPORTUNITIES FOR CHILDREN'S ART CLASSES AND ADULT PAINT-AND-SIP SESSIONS. THE POLLINATOR PALETTE GARDEN IS A DYNAMIC SPACE WHERE NATURE, ART, AND COMMUNITY ENGAGEMENT MIX.

WITHIN THE REPURPOSED CUT STONE RUINS, ARTISTS FIND A UNIQUE STUDIO IN NATURE, MERGING THE OLD WITH THE NEW. THESE STUDIOS NOT ONLY OFFER A SPACE FOR ARTISTIC CREATION BUT ALSO SERVE AS A TESTAMENT TO HISTORICAL RESTORATION. THE GARDENS BECOME A CANVAS FOR ARTISTIC EXPRESSION, CREATING A DYNAMIC INTERPLAY BETWEEN PRESERVATION AND INNOVATION.

TAKE A STROLL...



...POLLINATORS



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The Retreat Generation II: A Space for Thought

Centre for Training and Innovation
Eleuthera, The Bahamas



CTI's mission is to drive sustainability and innovation in an education and training environment that empowers people through skills development, leadership, entrepreneurship, and community development.



One Eleuthera Foundation
WORKING TOGETHER TO OWN AND SUSTAIN OUR ECONOMY

MISSION STATEMENT
Planning, strengthening, and connecting with people and organizations to create sustainable change on Eleuthera.



Life On Eleuthera



Category	Percentage	Services	Industry	Agricultural
Services	83.3%	- Business/Financial needs - Hospitality - Banks - Airlines - Tourism	14.5%	- Construction - Resource extraction - Manufacturing
Industry				2.2%
Agricultural				- Growing crops - Raising animals - Harvesting fish



Generation I

On its way to a healthy, vibrant, thought provoking community.

In conclusion to the community participatory evaluation:

Buffers for both sound and noise are desired in between queens highway and the hotel spaces.

And better use of undeveloped spaces would be very beneficial.

CTI Site Plan 2022



Community engagement was the most vital aspect of creating an environment for all stakeholder groups to thrive in. The CTI staff, Eleuthera's island administrator, and the board of the One Eleuthera Foundation came together to share their wishes for the Centre's success.

Generation II

A genuine relationship between the Centre and its surrounding Island community is apparent.

Separation of land use regulation of movement additional security and beautification

could strengthen the connection between CTI and Eleuthera's vibrant community.

Creating a space fit to yield innovative thinking.



Open air space of Kurobe, Japan designed by Hidetoshi.

Swimming pool by The Kings Cross Pond Club of London, England.

The Hawaii pavilion house by VITA Landscape Architecture.

Designer: Lily Judd

Leon Levy Nature Reserve of Eleuthera

Mexico's RSC Terrace.

The Retreat Generation II: A Space for Thought

Centre for Training and Innovation
Eleuthera, The Bahamas

MASTER PLAN

- LEGEND**
- 01 Parking
 - 02 Resort Reception
 - 03 The Farmers Table Pool side restaurant
 - 04 One Eleuthera Boulevard
 - 05 Bimini Bar
 - 06 Privacy Mounds
 - 07 The Breeze Way
 - 08 The Shade Gym
 - 09 The Cabana
 - 10 Mural Space

- 11 Bike Rental Shack
- 12 Oasis Welcome Center
- 13 TinyHome Village
- 14 The Board Walk
- 15 The Cove Lounge
- 16 Rest Area
- 17 Hummingbird Pavilion

A Healthy Vibrant Community



Unity
Creating the feeling of community through built areas, increasing connectivity between places and people.



Resilience
Developing community goals in a way that ensures the communities future and it's environment in the face of adversity.



Nourishment
Promoting measures to foster growth, the health of the people, the environment, the economy, and the future.



Tranquility
Establishing a peaceful community and environment to maximize economic, educational, and communal growth.

The concept is to create a more vibrant and healthy community throughout The Retreat. CTI is a place for creativity and growth, the surrounding resort environment should nourish the mind throughout ones experience there. Amongst every space in The Retreat, a proposed area of resilient tranquility lies. A place where all stakeholder groups can create a lasting and interwoven impact on the future of Eleuthera.

A Lasting story begins with a memorable place.

Scale: 1"=70'

TinyHome Village

Community Space

The Open Air Lounge (02) is equipped with a kitchen, fireplace, and plenty of seating. All of which within a cooled pavilion.



- LEGEND**
- 01 Outdoor Seating
 - 03 Tiny Way
 - 05 Outdoor Enjoyment Space
 - 02 Open Air Lounge
 - 04 Path to Home
 - 06 Bahamian Style TinyHome

Scale: 1"=10'



Street Appeal

The layout of the tiny homes was designed to create both a sense of community and the feeling of an immersive nature retreat.



Village Opening

The Tiny Home Village, The Shade Gym, and Breeze Way entrance are all within sight. Anywhere you look, you can find a tranquil space to enjoy.

An Immersive Experience



The TinyHomes elegantly dance amongst the vibrant, Bahamian Forest. This section cut demonstrates the gradual decline from dense ecosystem to soft ground cover.



The Shade Gym

An outdoor space to gather for yoga or other physical activity.



Scale: 1"=10'

Lily Judd Design Implementation 2022

The Retreat Generation II: A Space for Thought

Centre for Training and Innovation
Eleuthera, The Bahamas

The Breeze Way



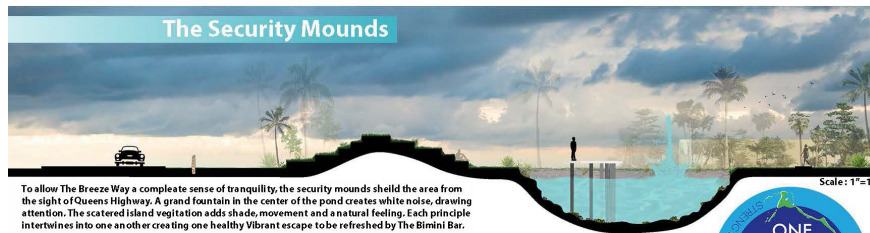
- 01 Hotel Backyard Space
- 02 TinyHome Entrance
- 03 The Breeze Way Entrance
- 04 The Cabana
- 05 Viewpoint Shield from Shade Gym
- 06 Vitality Trail
- 07 Privacy Mounds



The Bridge

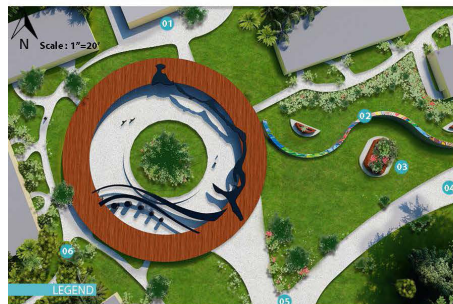
A winding bridge lays atop the pond. As you walk the vitality trail, this feature nurtures the mind body and soul creating a destination and a space for thought.

The Security Mounds



To allow The Breeze Way a complete sense of tranquility, the security mounds shield the area from the sight of Queens Highway. A grand fountain in the center of the pond creates white noise, drawing attention. The scattered island vegetation adds shade, movement and a natural feeling. Each principle intertwines into one another creating one healthy Vibrant escape to be refreshed by The Bimini Bar.

One Eleuthera Boulevard



- 01 The Farmers Table
- 02 Local Art Mural Wall
- 03 Seating
- 04 Path to Lucayan Farms
- 05 Path to TinyHome Village
- 06 Path to The Breeze Way

A shaded walk, shaped by the One Eleuthera Foundation, One Eleuthera Boulevard directs pedestrians to and from every location amongst CTI while reminding users of the innovative mentality of the OEF.

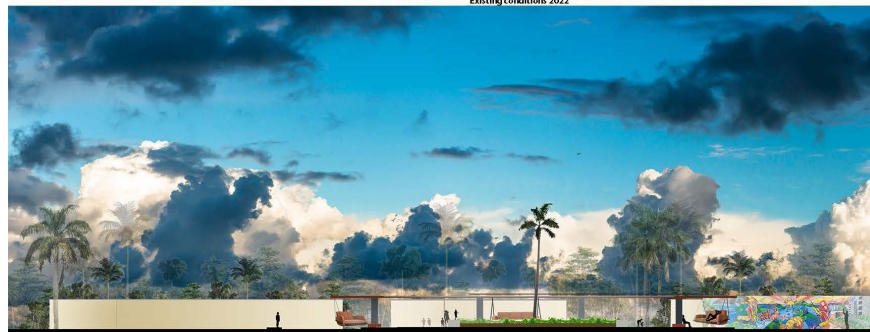


After

In an environment where everywhere you look people are learning, growing, and experiencing, it becomes a beautifully productive setting.



Existing conditions 2022



A grand meeting space symbolizing Eleuthera and all of its cultural beauty. One Eleuthera Boulevard is the center of The Retreat, connecting all of the resorts amenities.

Lily Judd Design Implementation 2022



Will Bardol

| LARC2510

| Professor Nassar

| December 11th, 2023

Project Overview

This semester, the second-year Clemson Landscape Architecture program was presented with an opportunity to design and propose ideas for restoring Tarpum Bay, one of the larger settlements on the Island of Eleuthera in the Bahamas. Tarpum Bay is a simple but tropical town built next to the beach. The community of Tarpum Bay is strong and connected with historic traditions, a distinct style of pastel colors, and vibrant art. This town was brought to Clemson's attention through the One Eleuthera Foundation. The One Eleuthera Foundation is a nonprofit community development organization incorporated in the Commonwealth of the Bahamas. The One Eleuthera Foundation strives to establish sustainable plans and progressive change for Eleuthera and the communities that occupy the Island. This project, in particular, was brought to our attention to revitalize the area by creating tourism, jobs, and restorations, all while maintaining the deep culture in the area.



Community Inspiration

Inspiration, much of which came from the community of Tarpum Bay themselves, was essential throughout this project. Tarpum Bay has a distinct aesthetic, using vibrant pastel colors to bring light and positivity to the town. Whether it is a historic church or the community arts and cultural centre, pastel colors are used to make buildings pop and make the town recognizable, which I wanted to maintain throughout my design. The locals of Tarpum Bay came together, defined specific locations in Tarpum Bay, and separated them into three categories: community assets, community concerns, and community future spaces. These community ideas included connecting the old school with the rest of the town, preserving trees and vegetation and worries about beach dieback. I gathered inspiration through these characteristics and ideas that helped spark ideas and designs throughout the project.



Design Concept

This design focuses on progressive change utilizing sustainability within landforms and activities. The concepts of sustainable landscape and sustainable tourism are used as the backbone of this project to transform Tarpum Bay into a thriving community. My design utilizes the benefits of sustainable tourism through locally provided activities and locally produced art. Pocket parks and gardens create opportunities for greenery and sustainable water practices. Pastel colors create a cohesive feel from new designs and existing characteristics. These pastels continue to expand the design by using vibrant lights that generate a night attraction throughout the town. Sustainability creates positive change that directly impacts locals and the health of Tarpum Bay as a whole.



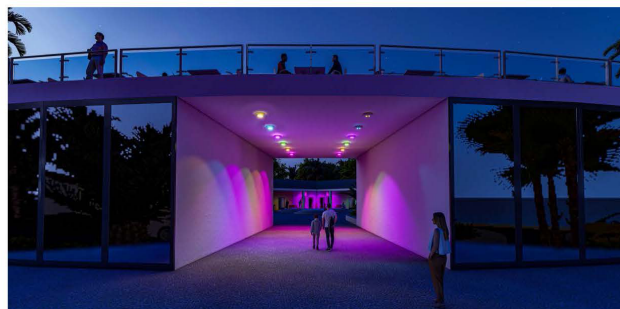


The main building is constructed in an arc shape that faces the beach. The building is divided into two restaurants with beautiful ocean views. Above the restaurants is a connected roof that serves as a rooftop bar. This is a perfect place to relax and look out at Tarpum Bay and the water.



This downtown centre includes five sustainable activities that appeal to tourists and locals and display the culture of Tarpum Bay. These activities include conch shell painting, sand/shell jewelry making, local art painting, conch/local food cooking, and cultural music making. These businesses can be locally employed and provide opportunities to teach people about the culture. The area is colored with pastel shops that complement the rest of the town. Palm trees and native plantings provide shade areas where locals or tourists can sit and relax. The centrepoint of the downtown is a stepping platform that works as a hub to gather around.

Night Attraction allows the new development of Tarpum Bay to be interactive when the sun sets. The lights also provide safety for locals and visitors during the night. Neon Pastel lights glow throughout the site, connecting the day's aesthetic to the night. The two restaurants are split down the middle to provide a clear passageway to the rest of the downtown centre. I drew inspiration for the glowing tunnel from the "Rainbow Tunnels" in Birmingham. These are rainbow lights under a bridge that make an attraction to visitors and give people a feeling of safety at night.



TARPUM BAY WATER FRONT

ELEUTHERA, BAHAMAS

Water Front Garden: A Self-Sustaining Development

Community Arts and Cultural Garden

KEY

- ① Wave Entrance
- ② Natural Vegetation
- ③ Statue Display
- ④ Amphitheater
- ⑤ Community Arts and Cultural Connection

Section Line

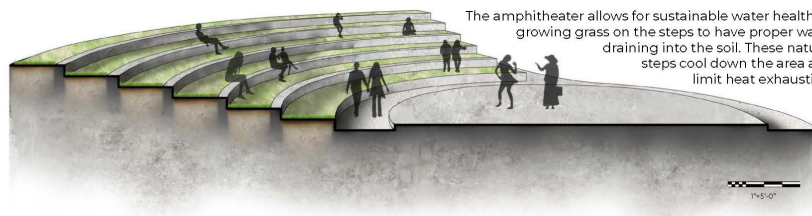
Building Renovations allow a communal path extending from the beach to the Community Arts and Cultural Garden and Centre.



The wave path pattern sways in and out so visitors can look at the different flowers. This wave path also directly connects with the waves of the ocean and the abstract curves in the downtown centre planting. The waves are made of gravel that allows water to filter straight into the ground.



The centrepoint of the garden is a figure eight path that revolves around two crome statues. The centrepoint gives access to all different parts of the garden, including the amphitheater, gravel waves, community arts and cultural centre, and all entrances and exits. The garden showcases various vibrant plants and flowers that bring back the native plants to Tarpum Bay. A waterfall flows through the back of the amphitheater into a pool to create a sense of motion and activity. When the sun sets, neon lights activate and glow throughout the garden to provide a luminescent feel while walking around. The garden transforms and creates a whole new feeling at night.



The amphitheater allows for sustainable water health by growing grass on the steps to have proper water draining into the soil. These natural steps cool down the area and limit heat exhaustion.



Building roundabouts and sidewalks allows for a safe experience for locals and tourists. The development of sidewalks gives pedestrians a solid walking path that is reliable.



This roundabout was placed on Queen's Highway next to St. Columbia's Anglican Church as another grand welcoming into Tarpum Bay. The ocean view while approaching the town resembles the calm feel and relaxing tone throughout the town.

Pocket parks provide opportunities for pedestrians to sit, relax, and experience the town. This particular pocket park gives local artists and students a space to display their art to the public on rectangular canvases. Art can be selected and displayed to the public. This practice is not only a sustainable way to attract people to the area but also supports local artists and provides opportunities for artists to grow in their craft. It creates new attraction when the art changes from month to month.



An extension of Seaside Breeze Restaurant and Bar would provide the local establishment with more business while continuing to populate the pocket park. The luminescent lights turn on at night and glow up the whole area. The lights continue down the sidewalk, making traveling from one pocket park to the following safe and enjoyable. The walls of the painting have pastel lights that shine down on them, attracting people to go closer and take a look at the art. Behind the art canvases, a cobblestone path connects the original Seaside Breeze Restaurant to the rest of the park, creating a cohesive feel throughout the area.

South 6th St. — Dr. MLK Jr Way

Seneca, South Carolina

Increasing Connectivity and Vibrancy: Seneca's New Greenway System



E South Sixth Street/Dr. MLK Jr Way and surrounding areas

Community Background and Feedback

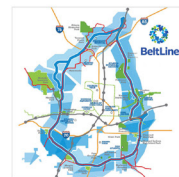
Seneca, South Carolina has long been a center of industrial activity in the Piedmont region. The town itself was founded by the railroad that still meanders through downtown today. In the late 19th century, many northern industrialists sought out Seneca as a new hub for the cotton industry. Seneca, along with many other South Carolinian towns, began hosting cotton mills. These mills operated for decades and were incredibly important to the development of this area, but one mill in particular was especially impactful to the town of Seneca. The **Utica Mill** was founded by J.W. Jordan in 1898, and a neighborhood was built nearby to house the workers. Over the years, the mill changed ownership and the adjacent neighborhood changed names, but eventually the mill was bought by Westpoint Stevens Company, and the neighborhood was named **Utica**. The mill continued to employ hundreds making bedsteads and pillowcases, but in 2001, the mill shut down for good.

Since the closure of the mill, Utica has struggled. After a destructive tornado carved through the neighborhood, the city of Seneca decided to look into some options for revitalization of the somewhat-forgotten neighborhood. Local representatives called on Clemson Landscape Architecture students to devise a solution.

In a community meeting, local residents expressed that they wanted to implement the following:

1. Traffic safety measures
2. Streetlights and crime reduction measures
3. Better transit opportunities for individuals without cars
4. More opportunities for economic development

Greenway Precedents



The Atlanta BeltLine



The Pickens Doodle Trail



The Greenville Swamp Rabbit Trail

A solution that addresses all of the aforementioned issues and has already been implemented in nearby areas is the development of a city-wide **greenway system**. Current examples of greenways in the surrounding areas include the Atlanta BeltLine, Pickens Doodle Trail, and Greenville Swamp Rabbit Trail.

Cities that have constructed greenways have seen overall improvements in community health, safety, and economic development along the right-of-way. Greenways keep citizens active, give pedestrians and cyclists their own dedicated spaces, improve traffic safety, and attract businesses that want to take advantage of the increased foot traffic.

Proposed Greenway Map



There are four proposed trails that, together, would form Seneca's Greenway System:

- The Seneca Urban Trail Loop (1.6 mi)
- The Historic District Trail Extension (0.5 mi)
- The Nature Trail Extension (0.7 mi)
- The Mill Trail Extension (0.9 mi)

Additional components:
■ E South Sixth Street
■ Places of Importance

Master Plan



There are eight focus areas:

1. Main St, Walnut St
2. South 1st St, South 2nd St, Fairplay St
3. South 6th St, Oak St, Fairplay St
4. South 6th St, Martin Creek
5. South 6th St, Mill Site
6. South 6th St, Goddard Ave
7. Main St, Shiloh Rd
8. Main St, Railroad Wye

Greenway Site Plans

The proposed greenway system would link downtown Seneca with the neighborhood of Utica. The trails would provide better pedestrian access between these places, improving the health of residents who use them and facilitating economic development in the area. Many existing greenways are tourist destinations, and Seneca's greenways would likely follow this trend. The resulting increase in activity would be centered on E South 6th Street, with the Blue Ridge Community Center, Blue Ridge Field, Oak Grove Cemetery, and Utica Mill receiving considerable attention.

This greenway system is designed to take surplus space from car-based networks and repurpose it for pedestrians, cyclists, and green space. By converting extra roadspace to greenway infrastructure, the desires of the Utica community would be achieved.

Historic District Trail Extension

The **Historic District Trail Extension** (0.5 mi) is a small loop trail that incorporates two blocks of old-Seneca neighborhood listed on the National Register of Historic Places. The trail follows South 1st Street, Pine Street, and South 2nd Street, joining with the Seneca Urban Trail in two places on Fairplay Street. The trail passes by both the Lunney House Museum and the Bertha Lee Strickland Museum, two museums with cultural significance to Seneca.

The Historic District Trail would be a designated protected bike lane for cyclists and would be at road level, like the Seneca Urban Trail. Pedestrians would travel on existing sidewalks adjacent to the road.



Site Plan 2. The Historic District Trail loops around historic Seneca homes and the Seneca Urban Trail follows Fairplay Street between downtown and E South 6th Street.

Nature Trail Extension

The **Nature Trail Extension** (0.7 mi) acts as a more direct route between Utica and downtown Seneca. Starting downtown, the trail leaves the Seneca Urban Trail and follows Walnut Street to South 2nd Street, where it then traces the banks of Martin Creek. The Nature Trail rejoins the Urban Trail on South 6th Street. Implementing the Nature Trail involves restructuring Walnut Street and adding a traffic-calming median with trees, as well as revitalizing Martin Creek for recreational and educational purposes.

The Nature Trail would be designated as a pedestrian-only path. As such, in downtown Seneca, the proposed trail incorporates existing sidewalk.

Between South 2nd Street and South 6th Street, the Nature Trail would be graveled, rather than paved, to better align with the natural theme. However, between Main Street and South 2nd Street, the path would be paved as if it were a normal sidewalk.

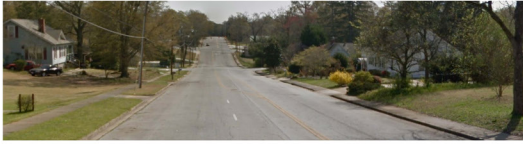


Site Plan 1. The Seneca Urban Trail passes through downtown Seneca and the Nature Trail follows Walnut Street south to E South 6th Street.

South 6th St. — Dr. MLK Way

Seneca, South Carolina

Increasing Connectivity and Vibrancy: Seneca's New Greenway System



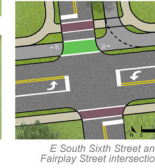
E South Sixth Street/Dr. MLK Jr. Way facing east toward Utica



Greenway Site Plans (continued)



Site Plan 3. The Seneca Urban Trail follows Fairplay Street as it comes from downtown and then turns at E South 6th Street and follows the road towards Utica. There is a small extension west to Trinity Baptist Church.



Seneca Urban Trail

The **Seneca Urban Trail** (3.6 mi) is the most integral part of the proposed Seneca greenway system. This loop trail connects Utica with downtown Seneca. It passes by Ram Cat Alley, several churches, storefronts, the Blue Ridge Community Center and Field, Oak Grove Cemetery, the Utica Mill, and Seneca Industrial Park on its way around the city.

The majority of the Urban Trail would be created by condensing traffic lanes and converting the excess space into a two-way bike path at road level. This functions to improve both traffic safety and pedestrian safety, by implementing traffic-calming measures and giving pedestrians and cyclists their own designated, protected travel zones.

Close to downtown Seneca, there is enough space to allow two six-foot-wide sidewalks, two three-foot-wide buffer zones, a nine-foot-wide bike path, two eleven-foot-wide traffic lanes, and a ten-foot-wide median with trees and shrubs.

The Urban Trail is designed to be as least invasive as possible, utilizing existing road surface and extending beyond City of Seneca property only when necessary. Even so, these seemingly small changes will have a considerable positive impact on the perception and vibrancy of this entire area. In addition, the Seneca Urban Trail will improve resident health and safety, increase the potential for economic development, and provide for better connectivity between the neighborhood of Utica, downtown Seneca, and surrounding areas.



Section 1. The turning lane of E South 6th Street has been turned into a median with trees, and extra space on the north side of the road has been converted into a protected two-way bike path at road level.

Perspective 1. The intersection of E South 6th Street (to be designated Dr. MLK Jr. Way) and Oak Street would be renovated to include crossing safety devices, new traffic lights, and a traffic-calming median with trees.



Nature Trail Extension

The **Nature Trail** rejoins the **Seneca Urban Trail** where Martin Creek passes underneath E South 6th Street. In this location, there would be boardwalks crossing over Martin Creek. Along the way, since this trail is near the Blue Ridge Community Center, there would be informational plaques detailing different species of wildlife and plant life, so that local residents can get a better understanding of where they live. The nature trail could also be used for class field trips and waterway studies.

Martin Creek is currently extremely overgrown, and is a very under-utilized asset to the community. The construction of the Nature Trail would also involve revitalizing Martin Creek, by replenishing its riparian zones and cleaning trash and debris from the waterway.

Also in this location, as E South 6th Street narrows, the Seneca Urban Trail transitions from having a tree-lined median to having a tree-lined buffer zone between the traffic lanes and the bike path. In addition, the sidewalks must be narrowed from six feet to four, but this is still plenty of room for pedestrians.

Site Plan 4. The Seneca Urban Trail traces the northern edge of South 6th Street and the Nature Trail follows Martin Creek.

Perspective 2. The Nature Trail would have several boardwalk sections, with benches and educational plaques.



South 6th St. — Dr. MLK Way

Seneca, South Carolina

Increasing Connectivity and Vibrancy: Seneca's New Greenway System



E South Sixth Street/Dr. MLK Jr. Way facing east toward Ulrica



Goddard Ave facing north away from Ulrica



Greenway Site Plans (continued)

Mill Trail Extension

The **Mill Trail** (0.9 mi) follows the edge of the mill property, crosses E South 6th Street, and uses the right-of-way of the abandoned mill railroad spur between E South 6th Street and Shiloh Road. This trail would have plaques and monuments detailing significant events from Seneca's past.

The **Seneca Urban Trail** follows the northern edge of E South 6th Street, providing access to the Blue Ridge Community Center and Oak Grove Cemetery. In this location, there is enough space for four-foot-wide sidewalks on both sides of the road, a nine-foot-wide bike path, two eleven-foot-wide traffic lanes, and a four-foot-wide green buffer with shade trees.

At the northeast corner of the mill property, the bike path crosses the street in a raised crosswalk to better utilize the available space in Ulrica.

A greenway system connecting to the abandoned mill would likely inspire the property owners to invest in redevelopment.



Site Plan 5. The Seneca Urban Trail traces the northern edge of South 6th Street and the Mill Trail loops around the mill property before going north to Shiloh Road. Sidewalks have been widened, pedestrian and cyclist crossings have been added, and trees have been placed along the street to shade the bike path and sidewalk.



Perspective 3. The intersection of E Main Street and E South 6th Street would have a new bus shelter and new road signs. The Ulrica Mill would potentially be redeveloped into mixed-use living.



Section 2. Near the mill, the traffic lanes of E South 6th Street have been narrowed and the turning lane eliminated, allowing space for sidewalks on both sides of the road, a protected bike path, and a green buffer with shade trees.

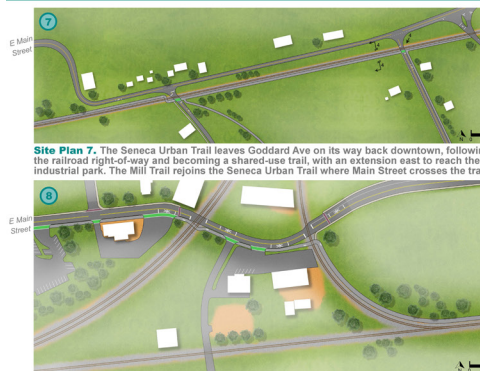


Site Plan 6. The Seneca Urban Trail follows the outer edge of the street. Safety measures like crossings and islands have been added.



Section 3. Space is limited near Goddard Ave, so the traffic lanes have been narrowed and the shoulder has been converted to a protected bike path.

Shared-Use Trail



Site Plan 7. The Seneca Urban Trail leaves Goddard Ave on its way back downtown, following the railroad right-of-way and becoming a shared-use trail, with an extension east to reach the industrial park. The Mill Trail rejoins the Seneca Urban Trail where Main Street crosses the tracks.

Site Plan 8. The Seneca Urban Trail follows the seldom-used railroad tracks and E Main Street as it nears downtown Seneca.

As the **Seneca Urban Trail** leaves the streetscape and follows the right-of-way of the Norfolk Southern Railway Z-Line, the bike path and sidewalks combine to become one shared-use pathway. The path would be lined with shade trees and would have a fence and vegetation to prevent trespassing onto railroad property.



Perspective 4. Goddard Ave has been renovated to include safer crossings, both for pedestrians crossing the road and vehicles crossing the tracks. Traffic-calming measures like flagged speed limit signs and traffic islands have been added.



Section 4. The Seneca Urban Trail has enough space to be a twelve-foot-wide shared-use path. Trees, fences, and lighting have been added.

Kinzer Hurt - LARC 2510 - Nassar Studio