



William Bartram
SCENIC & HISTORIC HIGHWAY

Parks & Resources



Parks & Resources Overview



The following section outlines the recommended enhancements and improvements for the following parks and resources along the scenic highway:

- William Bartram Gardens (at Bartram Trails Library)
- Beluthahatchee
- Alpine Groves and the Switzerland Community Center
- Shands Pier
- Trout Creek

For each park or resource, an existing conditions analysis, an outline of the “big ideas”, and schematic design drawings that illustrate the ideas and concepts generated through the planning process are provided as well as a plant palette, an outline of the necessary permitting, and a statement of probable cost for the improvements. “Next steps” may also be included which outline ideas that have not been specifically addressed as part of this master plan, but deserve further consideration.

In addition to the parks and resources above, preliminary ideas and concepts have been generated for the following future parks and resources:

- Jack Wright Island
- New Shands Bridge Park
- Beltway Flyover
- Performing Arts Pavilion

The ideas and concepts for these parks and resources serve as a jumping off point for further discussion and consideration.



William Bartram Gardens

William Bartram Gardens at the Bartram Trails Library will serve as the northernmost informational stop along William Bartram Scenic and Historic Highway. The gardens will display the native flora of the area that William Bartram so eloquently wrote about as well as the ornamental plants that have become culturally-relevant as part of southern gardens. Interpretive signs at the gardens will educate the visitor about the literary-side of William Bartram and provide information to the traveler about their journey down the highway. Finally, the gardens will serve as an outdoor function space for the library providing opportunities for outdoor meetings and reading for the use and enjoyment of local residents.



William Bartram Trails Library



Existing Conditions/Current Uses:

- Existing St. Johns County branch library
- Current outdoor improvements include picnic tables under tall pine canopy
- Current architecture relates to area
- There are a number of large windows looking out to surrounding outdoor environment
- Adjacent water treatment facility problematic (both smell and visual detractor)

The Big Ideas:

- Provide an introductory stop for the scenic highway to southbound traveler
- Display historic and cultural flora to traveler
- Provide library users various outdoor experiences
- Integrate library into overall corridor theme
- Visually enhance existing library facilities

Proposed improvements:

- Native woodlands garden
- Butterfly garden with sculpture and seating
- Children's reading garden
- Bird attractors (e.g. water and food)
- Formalized picnic area
- Deck directly outside meeting space for related outdoor functions
- Garden containment (fence and gateway) for safety and enclosure
- Pavilion
- Sculpture as part of corridor-wide sculpture exhibit
- Interpretive signs
- New entry sign
- Accessibility enhancements
- Context-sensitive and sustainable stormwater improvements
- Consolidation and screening of dumpsters and back of house features
- Sustainable landscape enhancements (less sod, drought tolerant plants, etc)
- Heavy landscape screening of adjacent water treatment facility



These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Overall Plan



These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

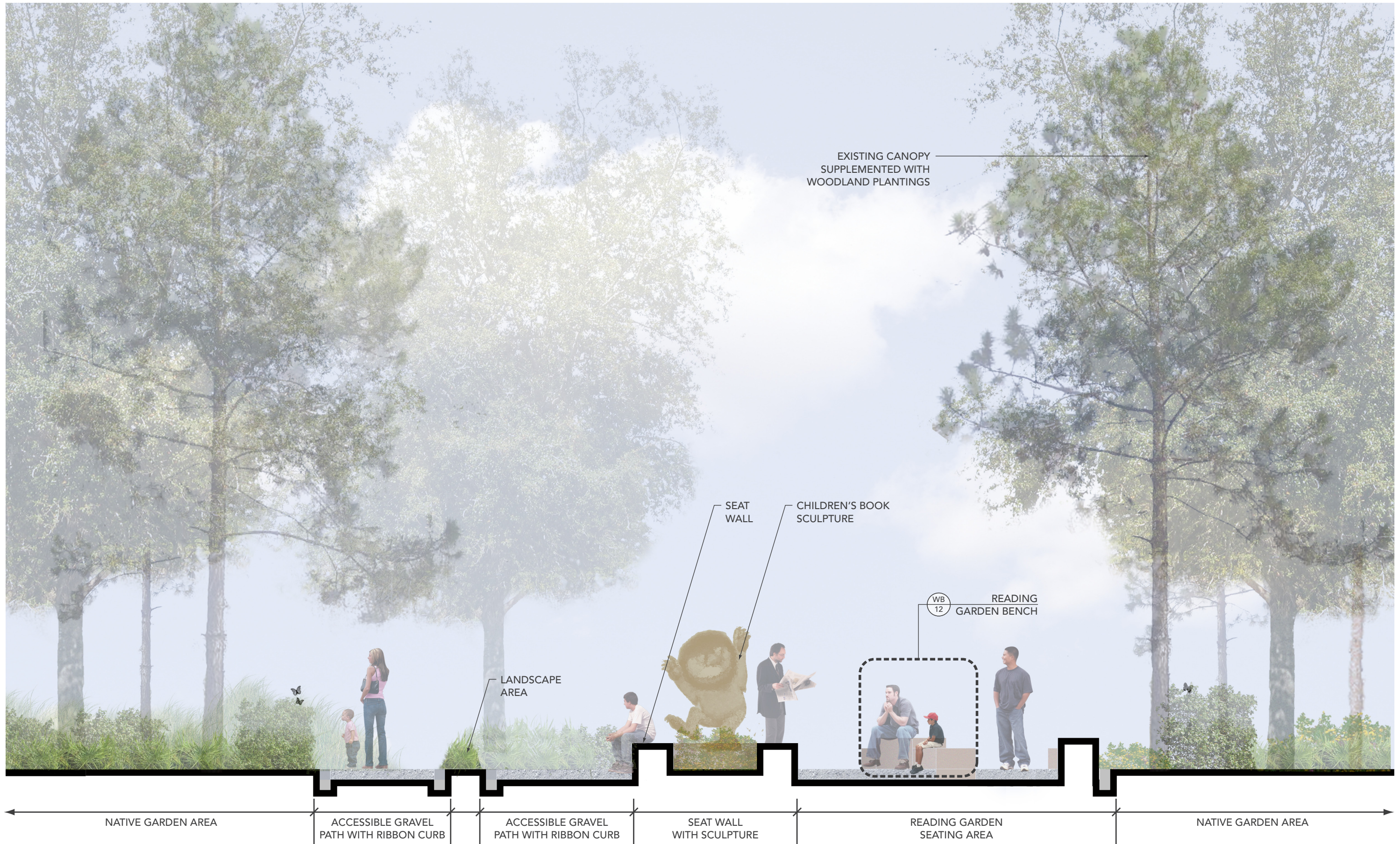
Plan Enlargement



- ① SEATING AREA
- ② SCULPTURE
- ③ EXISTING CANOPY
- ④ PAVILION
- ⑤ FLOWERING TREES
- ⑥ BUTTERFLY PLANTINGS
- ⑦ FORMAL HEDGE
- ⑧ NATIVE LANDSCAPE
- ⑨ READING GARDEN

These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Garden Character Image



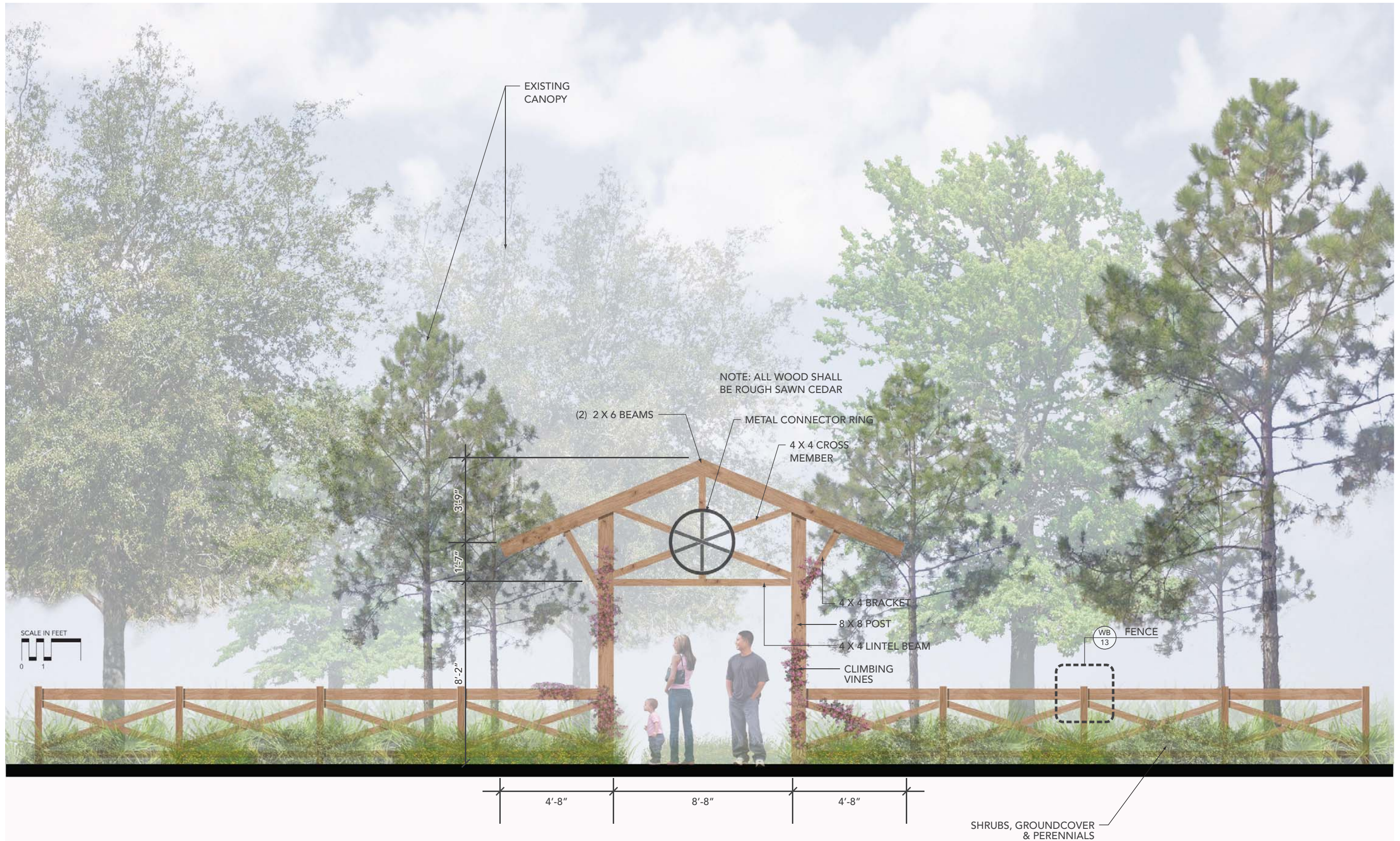
These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Reading Garden Section



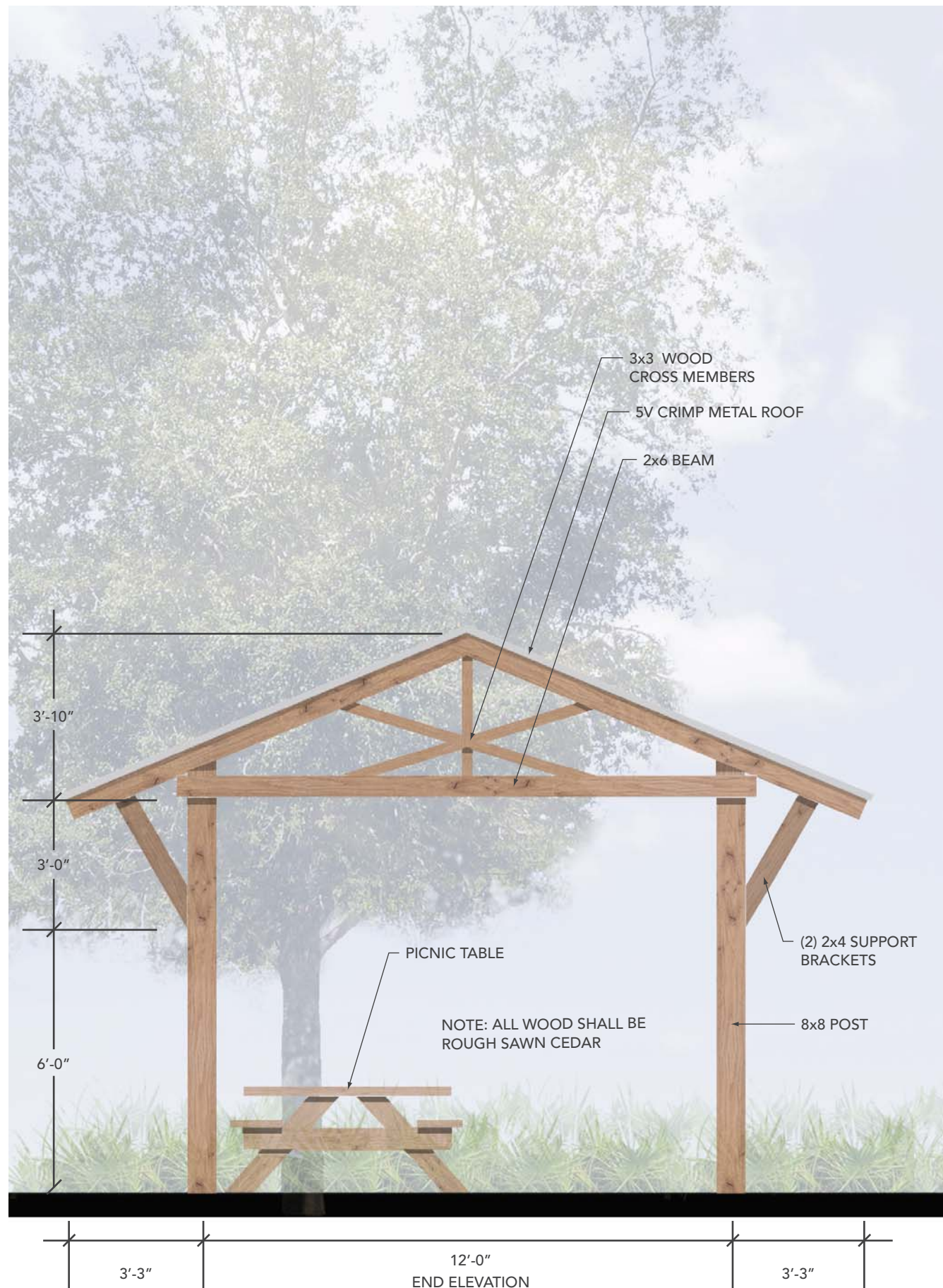
These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Deck



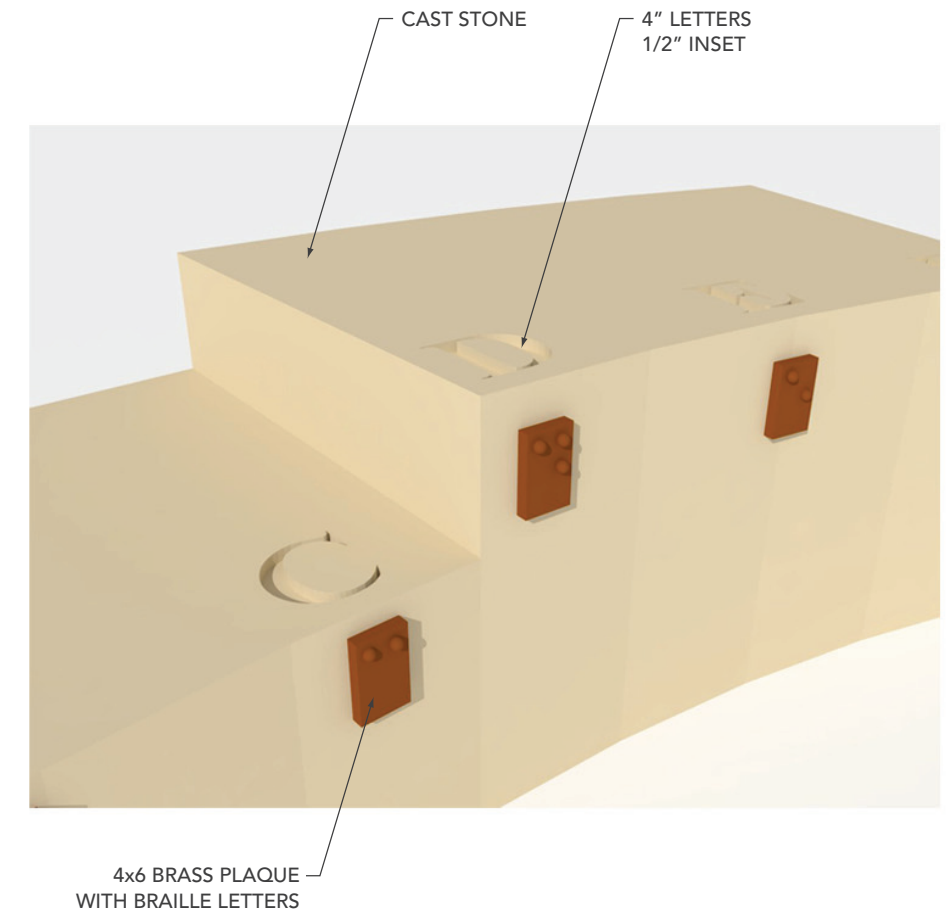
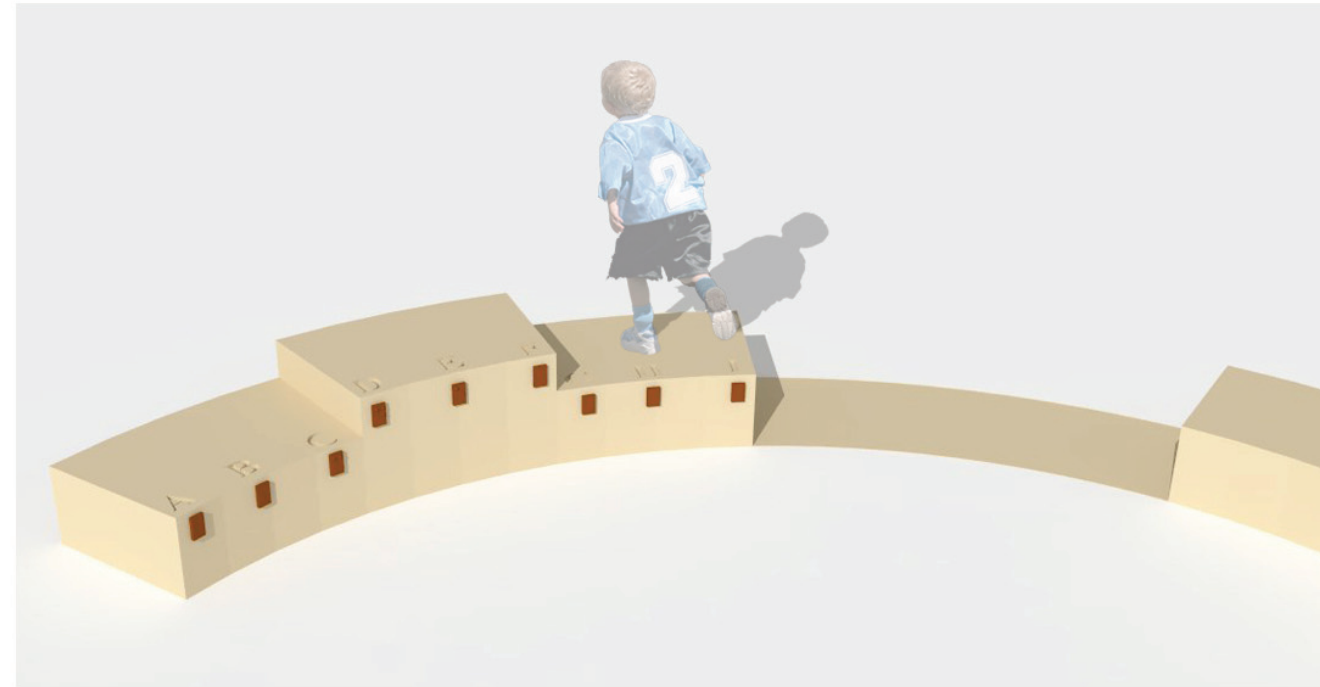
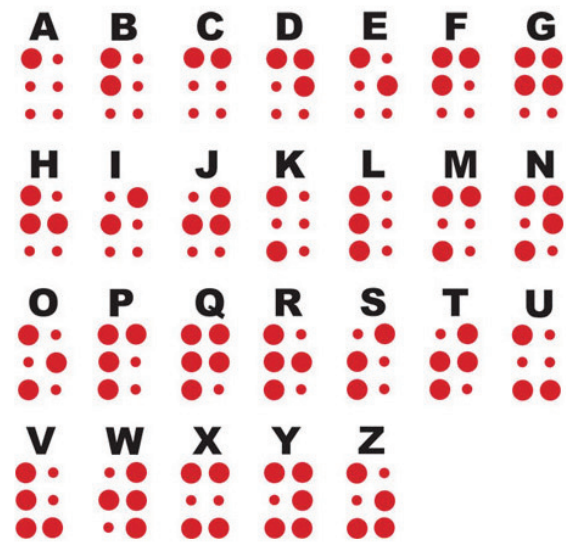
These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Entry Structure



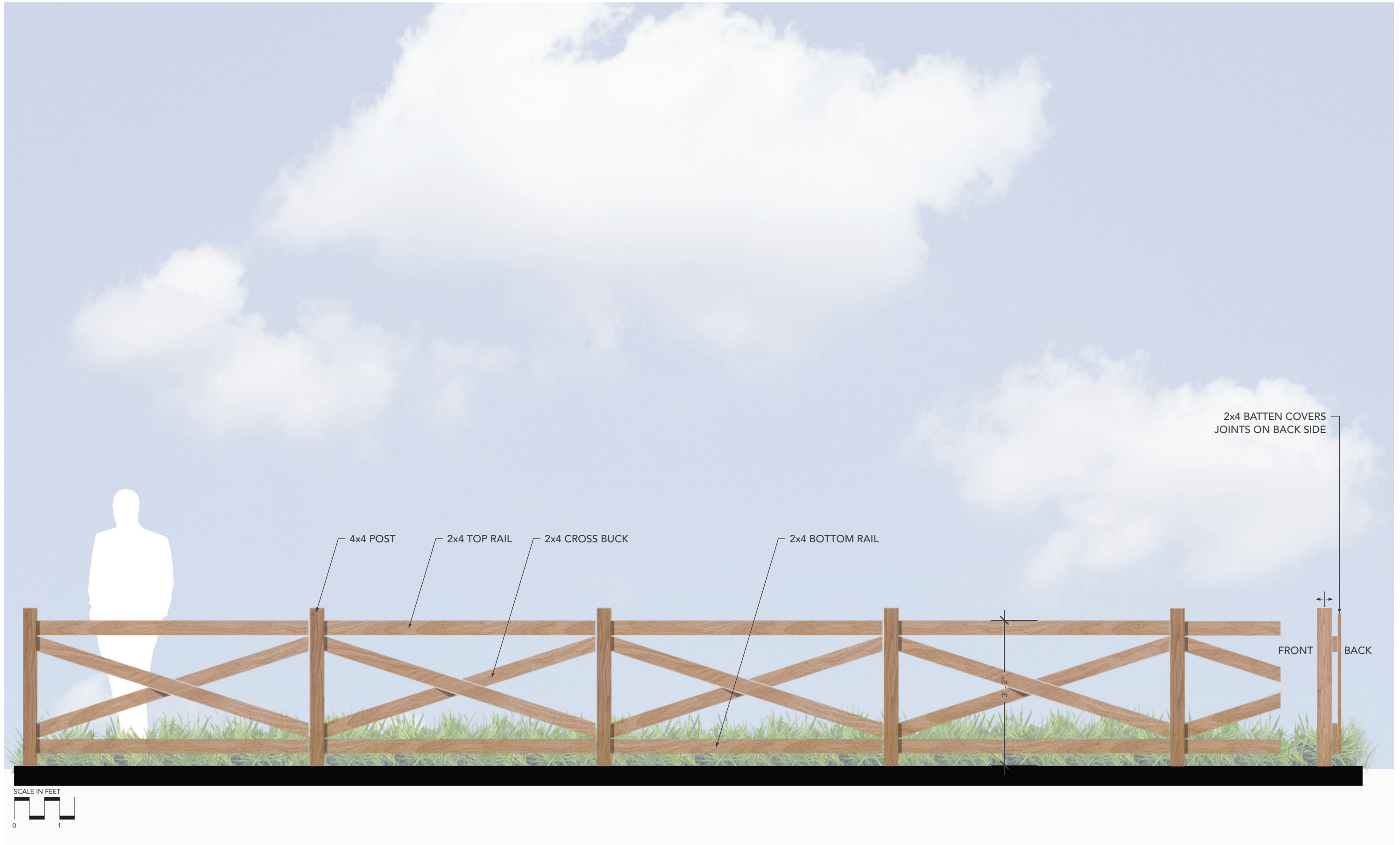
These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Pavilion Elevations



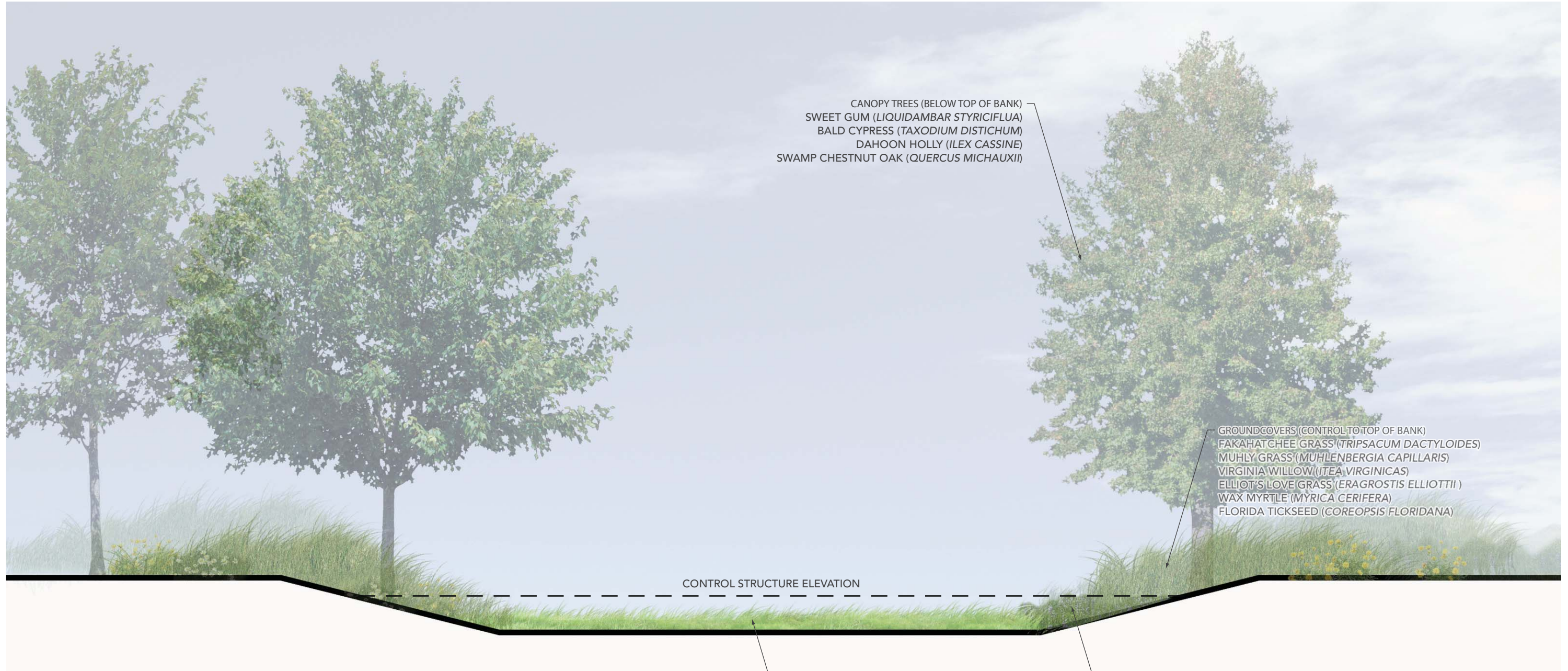
These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Reading Garden Seatwall



These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Cross Buck Fence



CANOPY TREES (BELOW TOP OF BANK)
 SWEET GUM (*LIQUIDAMBAR STYRICIFLUA*)
 BALD CYPRESS (*TAXODIUM DISTICHUM*)
 DAHOON HOLLY (*ILEX CASSINE*)
 SWAMP CHESTNUT OAK (*QUERCUS MICHAUXII*)

GROUNDCOVERS (CONTROL TO TOP OF BANK)
 FAKAHATCHEE GRASS (*TRIPSACUM DACTYLOIDES*)
 MUHLY GRASS (*MUHLENBERGIA CAPILLARIS*)
 VIRGINIA WILLOW (*ITEA VIRGINICAS*)
 ELLIOT'S LOVE GRASS (*ERAGROSTIS ELLIOTTII*)
 WAX MYRTLE (*MYRICA CERIFERA*)
 FLORIDA TICKSEED (*COREOPSIS FLORIDANA*)

CONTROL STRUCTURE ELEVATION

GROUNDCOVERS (-9" TO -18" DEPTH)
 YELLOW CANNA (*CANNA FLACCCIDA*)
 CORD GRASS (*SPARTINA BAKERI*)
 SOFT RUSH
 DUCK POTATO* (*SAGITTARIA LATIFOLIA*)
 PICKERELWEED* (*PONTEDERIA CORDATA*)

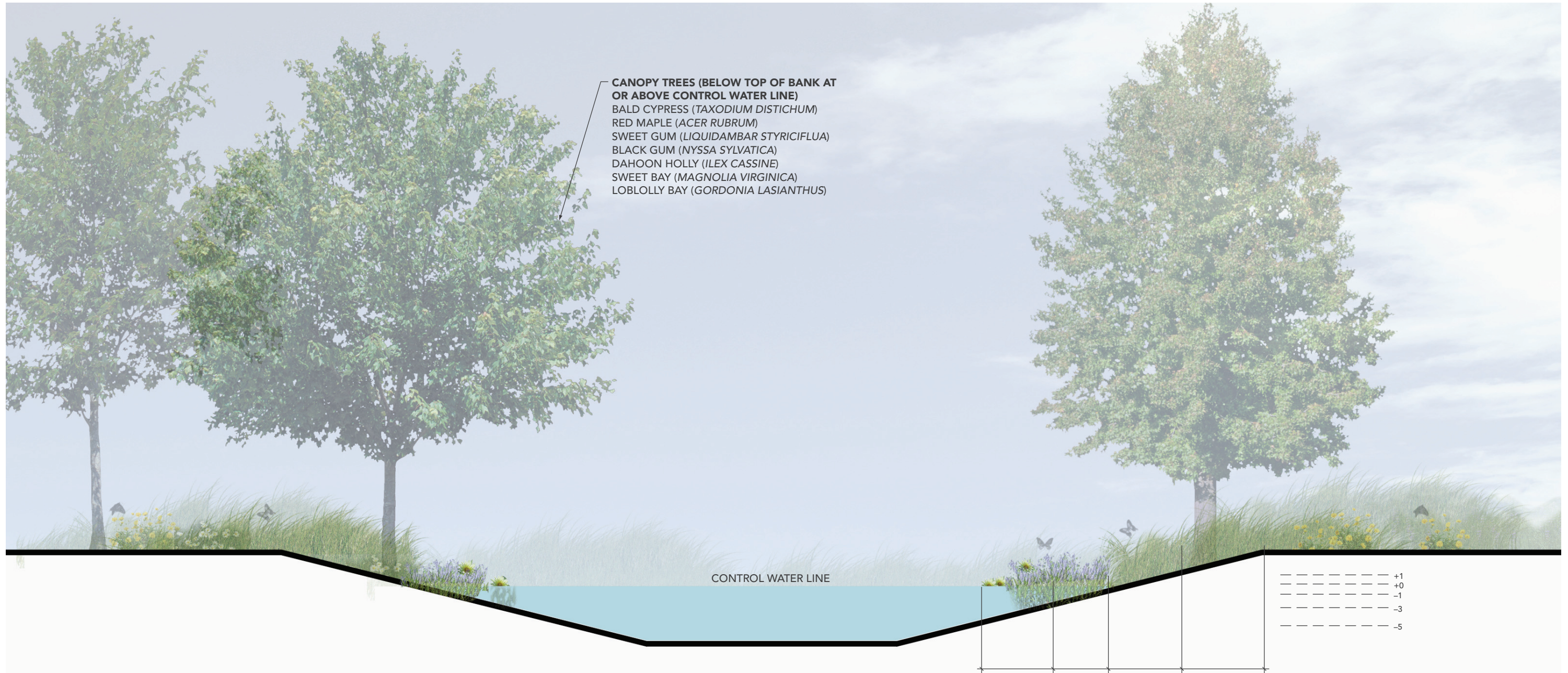
GROUNDCOVERS (0 TO -9" DEPTH)
 FAKAHATCHEE GRASS (*TRIPSACUM DACTYLOIDES*)
 BLUE FLAG IRIS (*IRIS VIRGINICA*)

NOTE: DRY RETENTION WHERE CONTROL ELEVATION IS MORE THAN 18" ABOVE BOTTOM OF DETENTION AREA SHALL BE BAHIA.

* MAY DIE BACK DURING DROUGHT SEASON

These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Dry Detention Section



CANOPY TREES (BELOW TOP OF BANK AT OR ABOVE CONTROL WATER LINE)
 BALD CYPRESS (*TAXODIUM DISTICHUM*)
 RED MAPLE (*ACER RUBRUM*)
 SWEET GUM (*LIQUIDAMBAR STYRICIFLUA*)
 BLACK GUM (*NYSSA SYLVATICA*)
 DAHOON HOLLY (*ILEX CASSINE*)
 SWEET BAY (*MAGNOLIA VIRGINICA*)
 LOBLOLLY BAY (*GORDONIA LASIANTHUS*)

ZONE A / HYDRIC (+1' ABOVE CIVIL & GREATER)	ZONE B / TRANSITIONAL (-1' to +1')	ZONE C / EMERGENT AQUATICS (-1' to -3' BELOW CIVIL)	ZONE D / SUBMERGENT AQUATICS (3' to 5' BELOW CIVIL)
FAKAHATCHEE GRASS (<i>TRIPSACUM DACTYLOIDES</i>) WAX MYRTLE (<i>MYRICA CERIFERA</i>) VIRGINIA WILLOW (<i>ITEA VIRGINICA</i>) WALTER'S VIBURNUM (<i>VIBURNUM OBOVATUM</i>) MUHLY GRASS (<i>MUHLENBERGIA CAPARILLIS</i>) ELLIOT'S LOVE GRASS (<i>ERAGROSTIS ELLIOTTII</i>) FLORIDA TICKSEED (<i>COREOPSIS FLORIDANA</i>) BLACK-EYED SUSAN (<i>RUDBECKIA HIRTA</i>) DENSE BLAZING STAR (<i>LIATRIS SPICATA</i>)	SAND CORD GRASS (<i>SPARTINA BAKERI</i>) YELLOW CANNIA (<i>CANNA FLACCCIDA</i>) SOFT RUSH BLUE FLAG IRIS (<i>IRIS VIRGINICA</i>) SWAMP ROSE MALLOW (<i>HIBISCUS GRANDIFLORA</i>) DUCK POTATO (<i>SAGITTARIA LATIFOLIA</i>)	ALLIGATOR FLAG (<i>THALIA GENICULATA</i>) ARROWHEAD (<i>SAGITTARIA LANCIFOLIA</i>) DUCK POTATO (<i>SAGITTARIA LATIFOLIA</i>) GIANT BULRUSH (<i>SCIRPUS CALIFORNICUS</i>) PICKERELWEED* (<i>PONTEDERIA CORDATA</i>) SPIKERUSH (<i>ELEOCHARIS SPP.</i>)	GIANT BULRUSH (<i>SCIRPUS CALIFORNICUS</i>) SPATTERDOCK (<i>NUPHAR LUTEUM</i>) WHITE WATER LILY (<i>NYMPHAEA ODORATA</i>)

④ ③ ② ①

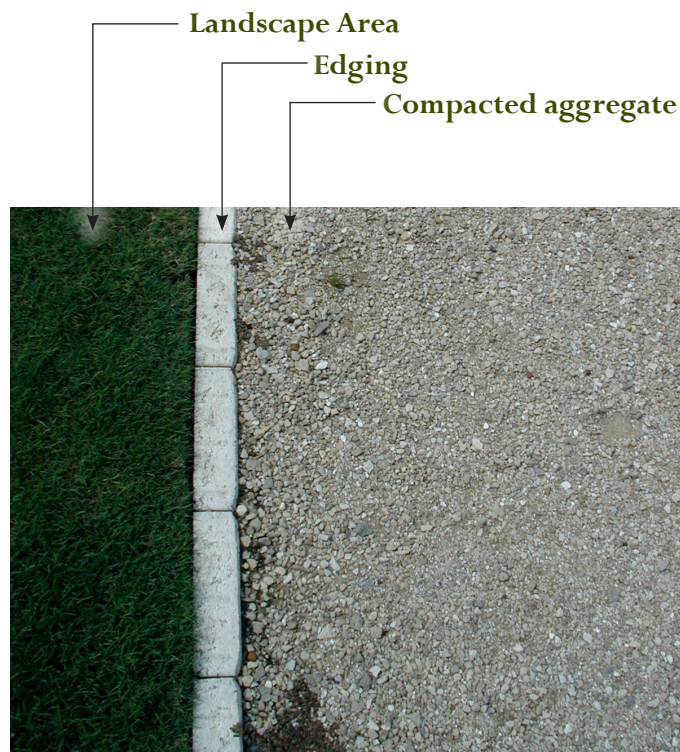
----- +1
 ----- +0
 ----- -1
 ----- -3
 ----- -5

These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Wet Detention Section



Sculpture Comparable



Accessible Trail Comparable Photo



Segmented Wall (at Pond Edge)



Site Furnishing Specifications

Bench: Backed Garden Fence, FSC CoC ipe,
 Storm Cloud Powdercoat: 24"x35"x67"
 Manufacturer: www.landscapeforms.com

Litter Receptacle: Grass Top Opening,
 Storm Cloud Powdercoat
 Manufacturer: www.landscapeforms.com

These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.



- 1 Vines
- 2 Grasses
- 3 Evergreen

- 4 Aquatic or Water Tolerant
- 5 Flowering
- 6 Attracts Birds

- 7 Attracts Butterflies
- 8 Culturally Significant
- 9 Native

- 10 Fall Color or Winter Interest
- 11 Drought Tolerant
- 12 Poisonous Parts

WILLIAM BARTRAM GARDENS PLANT LIST

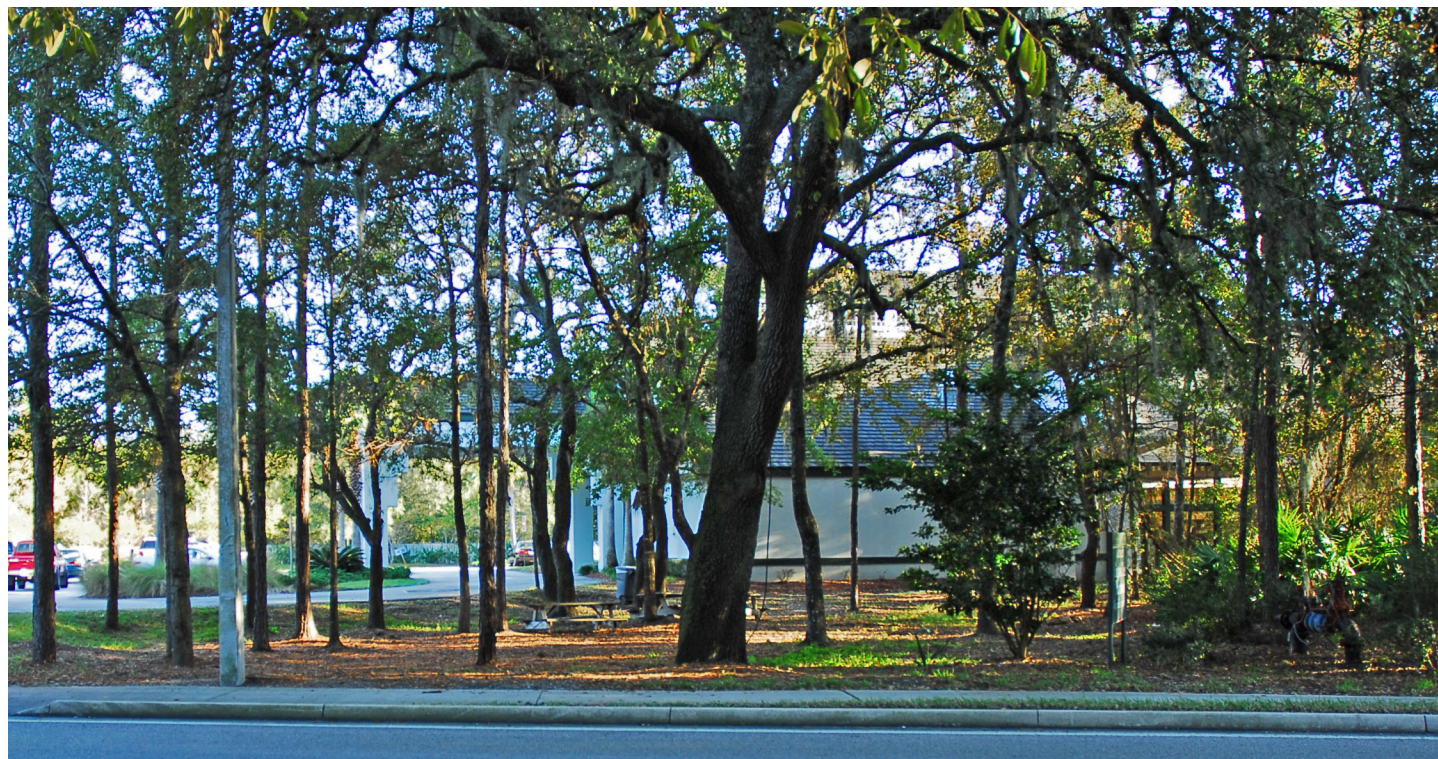
TREES

American Holly - <i>Ilex opaca</i>	3 6 9 11 12	Mockernut Hickory - <i>Carya tomentosa</i>	9 10 11	Wax Myrtle - <i>Myrica cerifera</i>	3 6 8 9 11
Bald Cypress - <i>Taxodium distichum</i>	8 9 10 11	Red Bud - <i>Cercis canadensis</i>	5 9 11		
Black Gum - <i>Nyssa sylvatica</i>	6 9 10 11	Slash Pine - <i>Pinus elliotii</i>	3 9 11		
Dahoon Holly - <i>Ilex cassine</i>	3 6 9	Swamp Chestnut Oak - <i>Quercus michauxii</i>	8 9 10 11		
Live Oak - <i>Quercus virginiana</i>	3 8 9	Sweet Gum - <i>Liquidambar styraciflua</i>	4 9 10		
Loblolly Pine - <i>Pinus taeda</i>	3 9	Tulip Poplar - <i>Liriodendron tulipifera</i>	5 9 10		
Longleaf Pine - <i>Pinus palustris</i>	3 8 9 11	Turkey Oak - <i>Quercus laevis</i>	9 10 11		

UNDERSTORY

Adams Needle - <i>Yucca filamentosa</i>	3 5 9 11	Fakahatchee Grass - <i>Tripsacum dactyloides</i>	2 9 11	Sages - <i>Salvia spp.</i>	5 6 9
American Wisteria - <i>Wisteria frutescens</i>	1 5 7 9	Ferns spp.	3 9	Sandanqua Viburnum - <i>Viburnum suspensum</i>	3 5 6
Azalea spp.	3 5 8 9	Florida Tickseed - <i>Coreopsis floridanum</i>	5 6 7 9	Saw Palmetto - <i>Serenoa repens</i>	3 6 9 11
Beautyberry - <i>Callicarpa americana</i>	6 9 11	Gallberry - <i>Ilex glabra</i>	3 6 9	Schilling's Dwarf Holly - <i>Ilex vomitoria 'Schilling's Dwarf'</i>	3 11 12
Blanket Flower - <i>Gaillardia pulchella</i>	5 9 11	Goldenrod - <i>Solidago chapmanii</i>	5 7 9	Soft Rush - <i>Juncus effusus</i>	2 4 9
Blazing Star - <i>Liatris spp</i>	5 7 8 9 11	Indian Hawthorn - <i>Raphiolepis indica</i>	3 5 6	Tea Olive - <i>Osmanthus fragrans</i>	3 5 8
Blue Porterweed - <i>Stachytarpheta jamaicensis</i>	5 7 11	Lion's Ear - <i>Lionitis nepetaefolia</i>	5 6 11	Virginia Willow - <i>Itea virginicus</i>	4 5 9 10
Blueflag Iris - <i>Iris virginica</i>	4 5 9	Meadow Beauty - <i>Rhexia virginia</i>	5 9	Wiregrass - <i>Aristida stricta</i>	2 9 11
Bougainvillea spp.	1 3 5 11	Muhly Grass - <i>Muhlenbergia capillaris</i>	2 5 9 11	Yaupon Holly - <i>Ilex vomitoria</i>	3 8 9 11 12
Boxwood - <i>Buxus microphylla</i>	3 8	Oakleaf Hydrangea - <i>Hydrangea quercifolia</i>	5 9 10	Yellow Canna - <i>Canna flaccida</i>	4 5 9
Camelia - <i>Camelia japonica</i>	3 5 8	Passion Flower - <i>Passiflora spp.</i>	1 5 9 11	Yellow Coneflower - <i>Echinacea paradoxa</i>	5 7 8 9
Confederate Jasmine - <i>Trachelospermum jasminoides</i>	1 3 5 8	Pickrel Weed - <i>Pontederia cordata</i>	4 5 9		
Cordgrass - <i>Spartina bakerii</i>	2 4 9 11	Purple Coneflower - <i>Echinacea purpurea</i>	5 7 8 9		
Duck Potato - <i>Sagittaria latifolia</i>	4 5 9	Purple Lovegrass - <i>Eragrostis spectabilis</i>	2 5 9 11		
Elliot's Lovegrass - <i>Eragrostis elliotii</i>	2 9 11	Roses - <i>Rosaceae spp.</i>	3 5 8		

William Bartram Gardens



Permitting

Regarding permitting, the addition of impervious surface will require coordination with the SJRWMD and St. Johns County. The installation of gardens or conversion of sod to native landscape is not likely to require regulatory coordination.

St. Johns County Building Department will need to review and permit the proposed structures. Structures must meet the Southern Building Code and Florida Building Code including applicable ADA and appropriate wind load requirements.

Any tree removal that may occur as a result of these improvements should be coordinated with the CMC and must be permitted according to St. Johns County requirements.

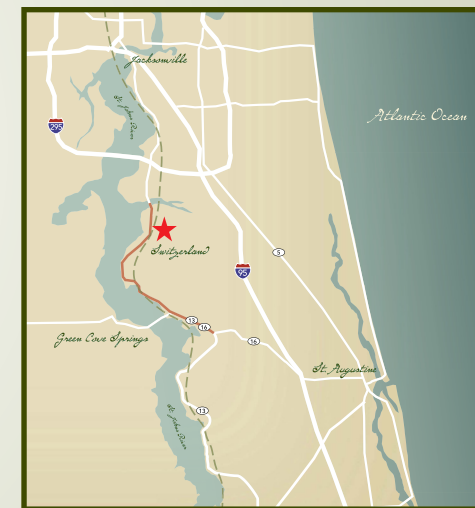
Statement of Probable Cost

Construction Costs	\$635,000
---------------------------	------------------

AECOM has no control over the cost of labor, materials, or equipment, the Contractor's method of determining prices or competitive bidding or market conditions. Therefore our statement of probable cost provided herein is made on the basis of experience and represents our best judgment as Landscape Architects familiar with the construction industry. The firm cannot and does not guarantee that proposals, bids, or the construction cost will not vary from our statement of probable cost. If the Owner wishes greater assurances as to the construction cost, we recommend the employment of an independent cost estimator. This estimate only includes construction costs. Design, engineering, and permitting costs are not included.

Beluthahatchee

Beluthahatchee is the homestead of renowned author Stetson Kennedy whose literary works have been instrumental in the civil rights movement as well as in preserving Florida's cultural and natural heritage. Stetson Kennedy's home was frequently visited by other famous Americans including Zora Neale Hurston and Woody Guthrie. This homestead, however, is more than the home of a famous author. Miccosukee for "Dark Water," Zora Neale Hurston described this place as a mythical "Florida Shangri-la, where all unpleasantness is forgiven and forgotten." Now a part of a larger St. Johns County park, the master plan for Beluthahatchee seeks to embody the idea of Hurston's "Shangri-la." The plan includes a walking trail and boardwalk through the park, a picnic area, a meeting facility, and Stetson Kennedy's home. The detailing has a whimsical feel and unique opportunities are provided for children to explore and adults to reflect. Travelers are afforded the opportunity to not only learn about Stetson Kennedy's contributions to society, but also the natural Florida that inspired much of his work.



Beluthahatchee



PHOTO COURTESY OF ST. JOHN'S COUNTY



Existing Conditions/Current Uses:

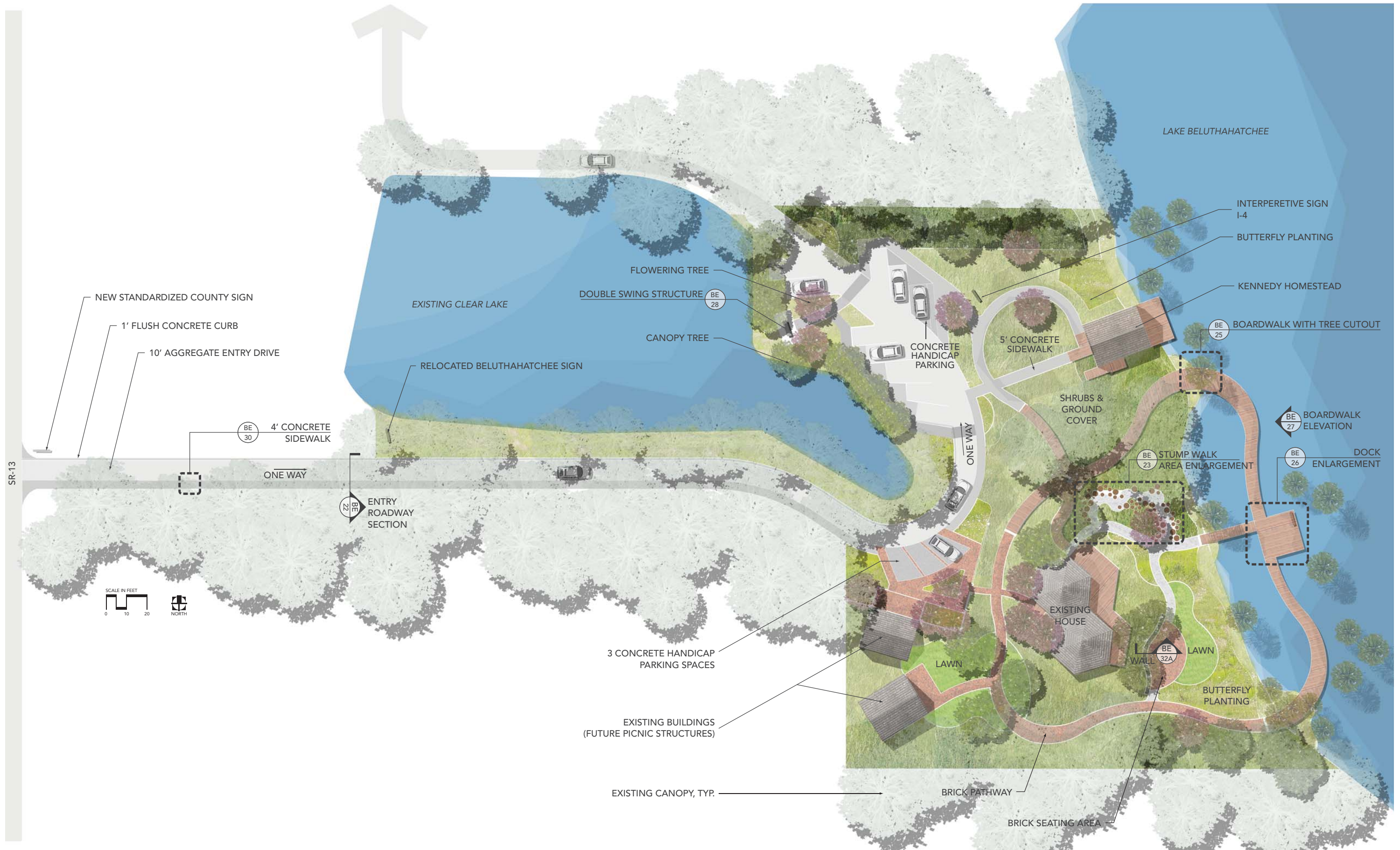
- Stetson Kennedy Homestead with views to lake
- Adjacent residence to be used as meeting facility
- Excellent opportunities for wildlife viewing
- Access to Lake Beluthahatchee
- Lacks necessary facilities for adaptive park use (parking, accessibility, etc)
- Entry to park is through access easement; makes user feel uncertain about park location

The Big Ideas:

- Create a cohesive park experience that preserves the Kennedy Homestead within the overall park and integrates the spirit of Kennedy Homestead into remainder of park
- Create opportunities to learn about Stetson Kennedy, Beluthahatchee, and the surrounding environment
- Provide necessary park enhancements (e.g. parking, sidewalks, etc) and promote accessibility
- Land management on property to control exotic/invasive plants and reduce fuel loads related to fire potential
- Meet requirements of park management plan required for existing grant funding

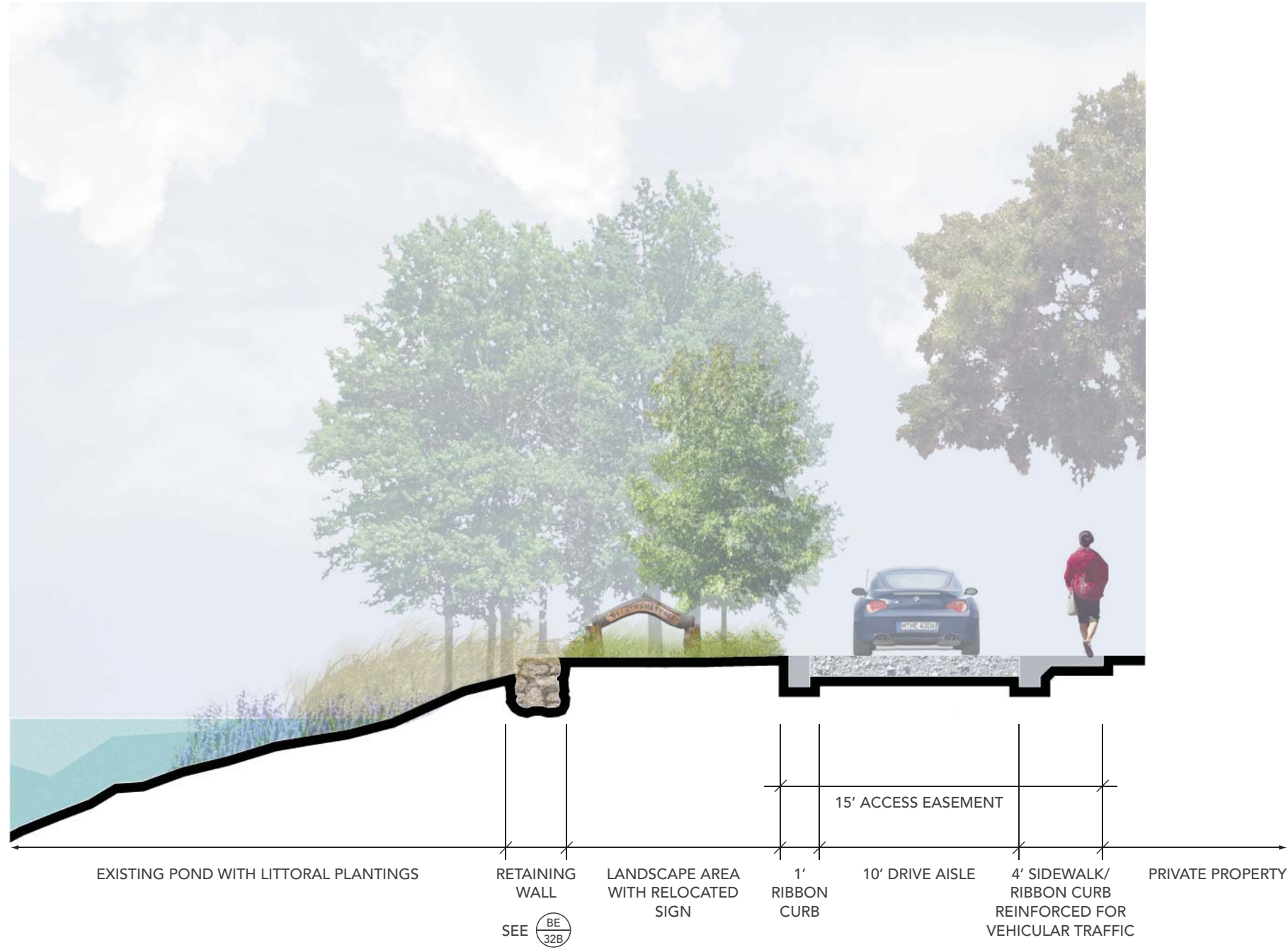
Proposed Improvements:

- Entry drive enhancements to provide vehicular and pedestrian access from SR-13
- Relocate original "Beluthahatchee" sign to edge of actual park property to reinforce to visitor that they have arrived at the park
- Standardize county park sign on SR-13 to unify all County parks along SR-13
- Organized aggregate parking with accessible spaces (concrete)
- Accessible pedestrian connections between Kennedy Homestead and other park uses
- Future picnic structures (converted outbuildings)
- Swing overlooking existing pond
- Outdoor seating and lawn area directly below existing meeting house
- Interactive "stump walk" between meeting house and Kennedy Homestead to serve as outdoor sitting space for adults and imaginative play area for children
- Boardwalk out to Lake Beluthahatchee with accessible viewing areas
- Enlargement of existing dock with seating
- Butterfly gardens
- Bird attractors
- Interpretive signs
- Sculpture as part of corridor-wide sculpture exhibit
- Sustainable landscape enhancements including exotic plant control and new littoral plantings within existing pond



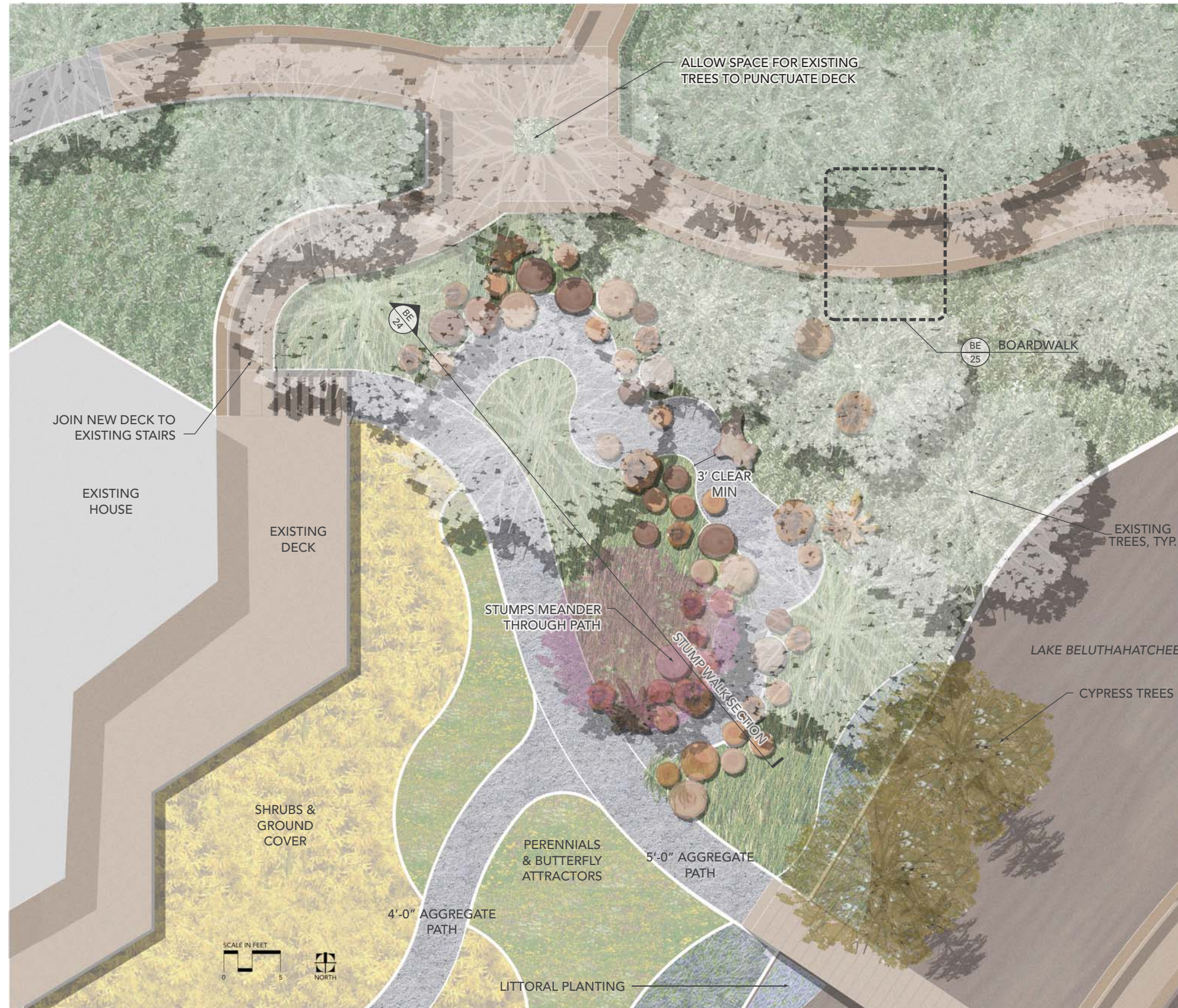
These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Overall Master Plan



These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Entry Roadway Section



These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Stump Walk Area Enlargement



EXISTING CANOPY TREES

FLOWERING TREE PLANTED IN HOLLOWED OUT STUMP

SCALE IN FEET
0 1 2

STONE FOOTING FOR STUMPS, TYP.

AGGREGATE PATHWAY

WOODLAND PLANTINGS

Stump Walk Section

These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.



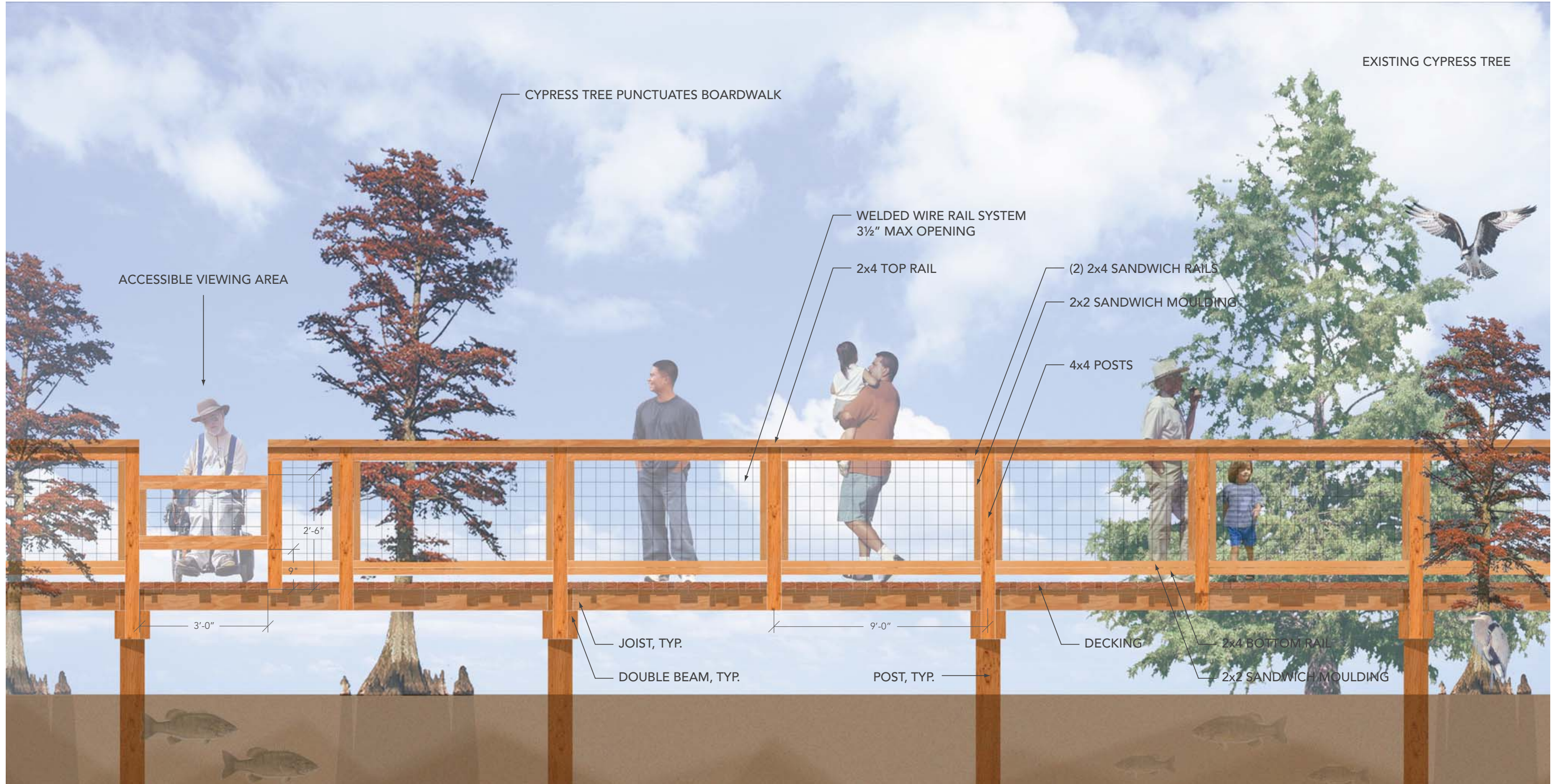
These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Boardwalk



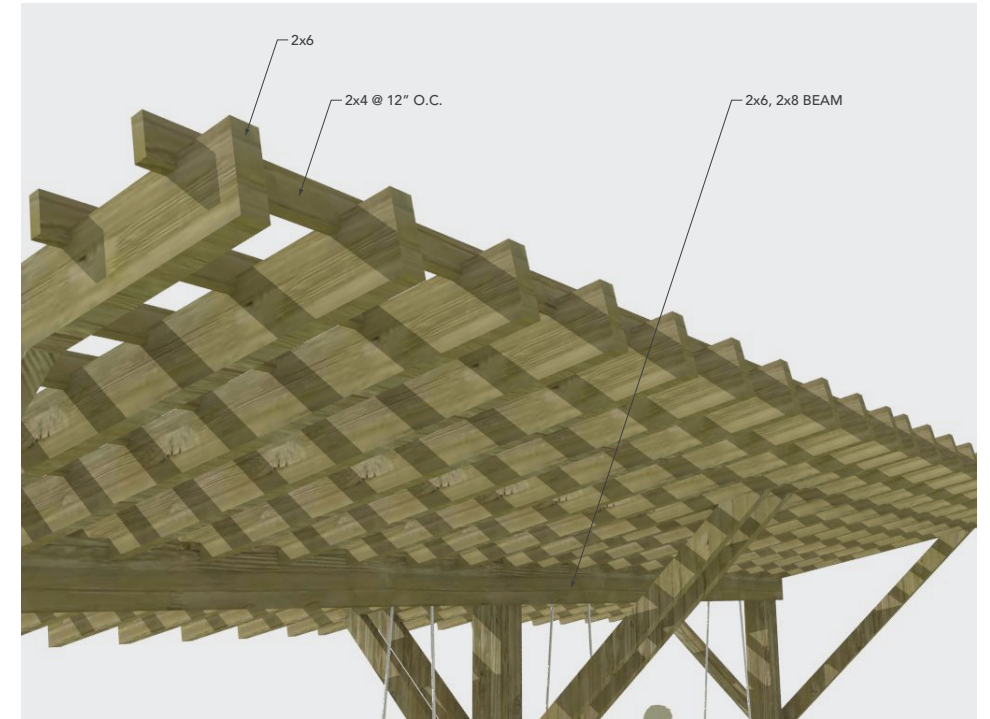
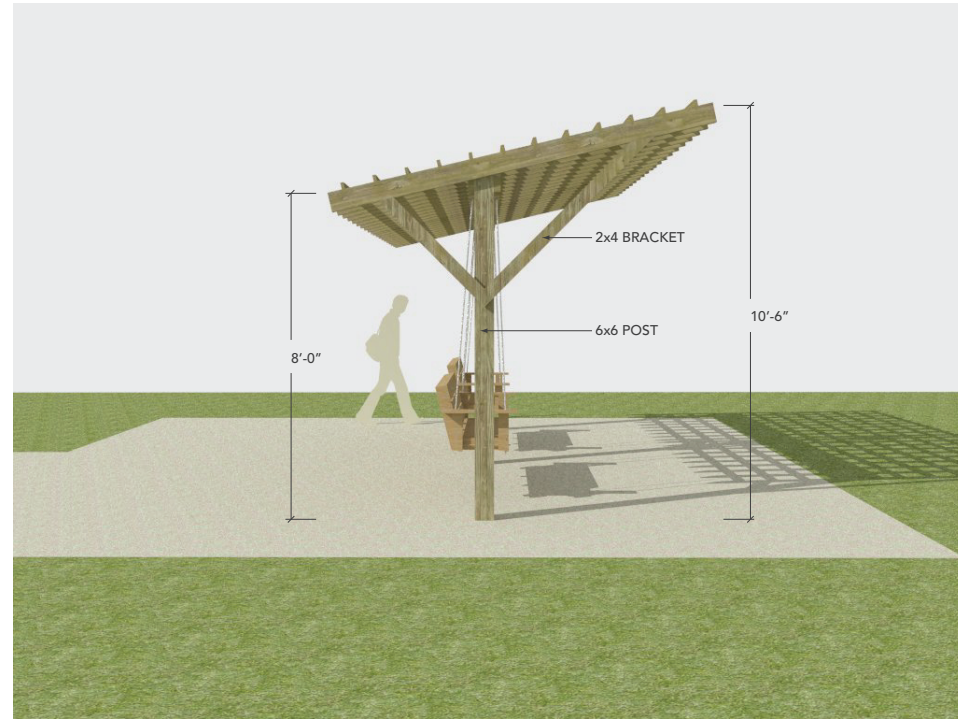
These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Dock Enlargement



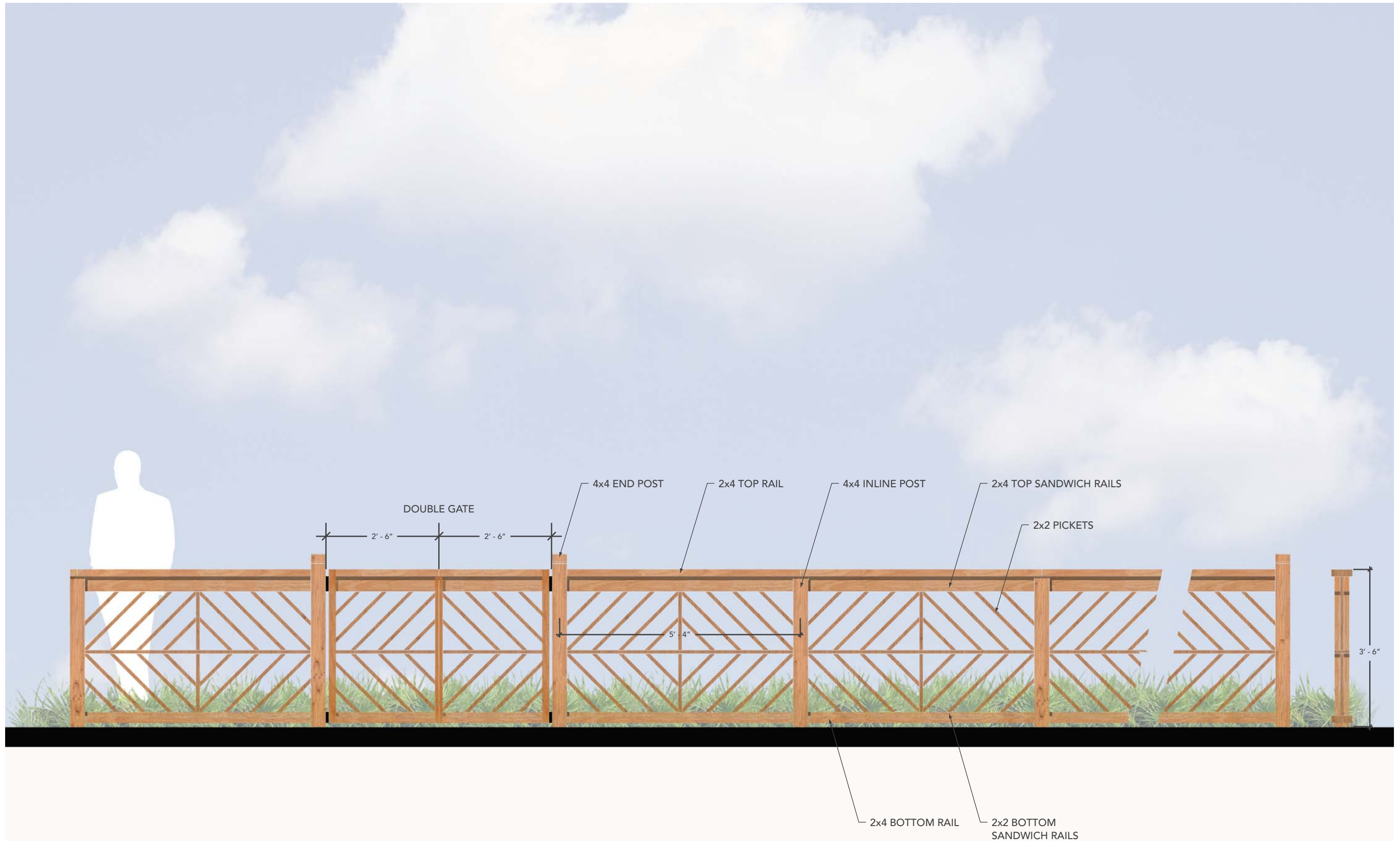
These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Boardwalk Elevation



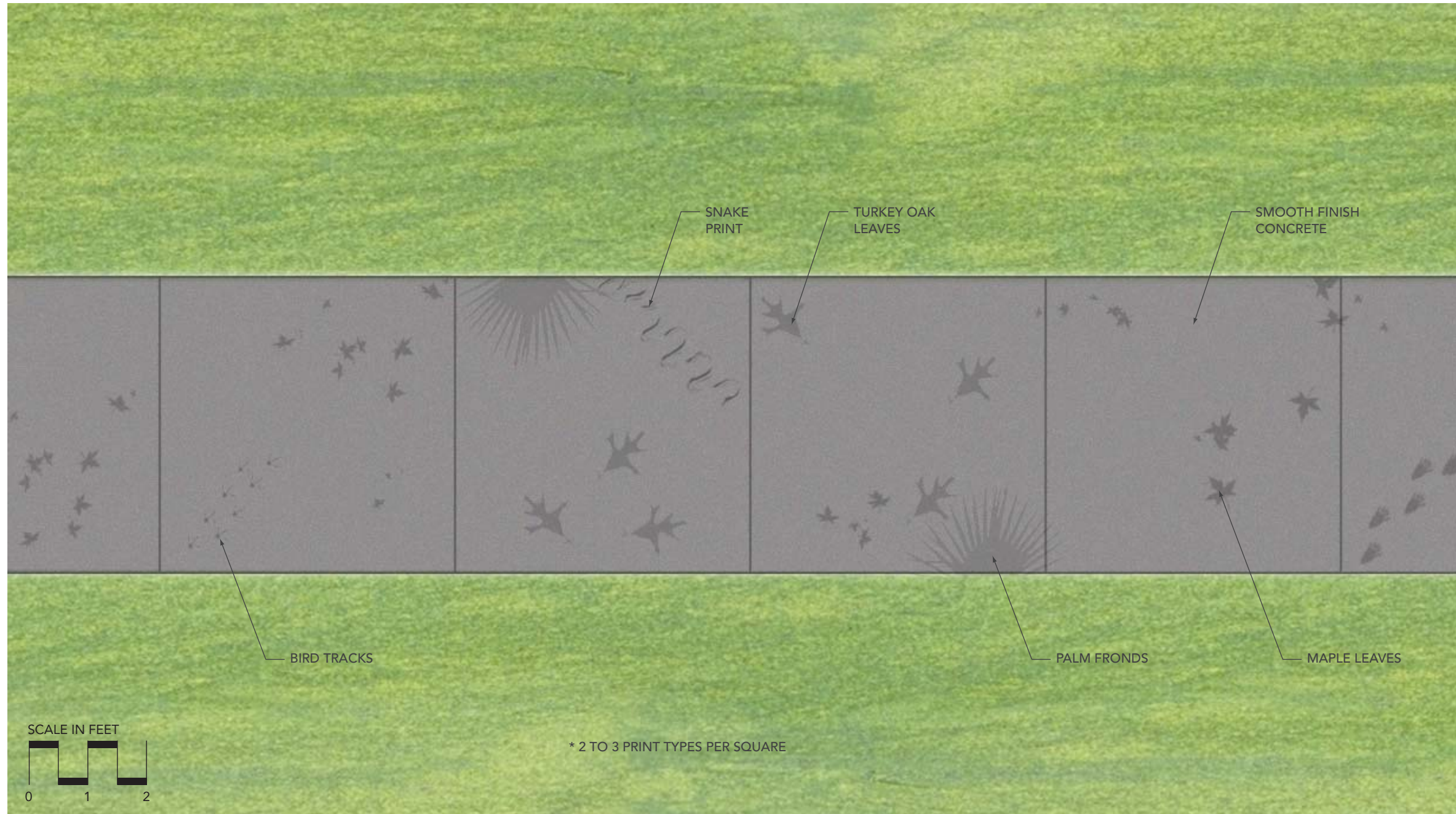
These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Double Swing



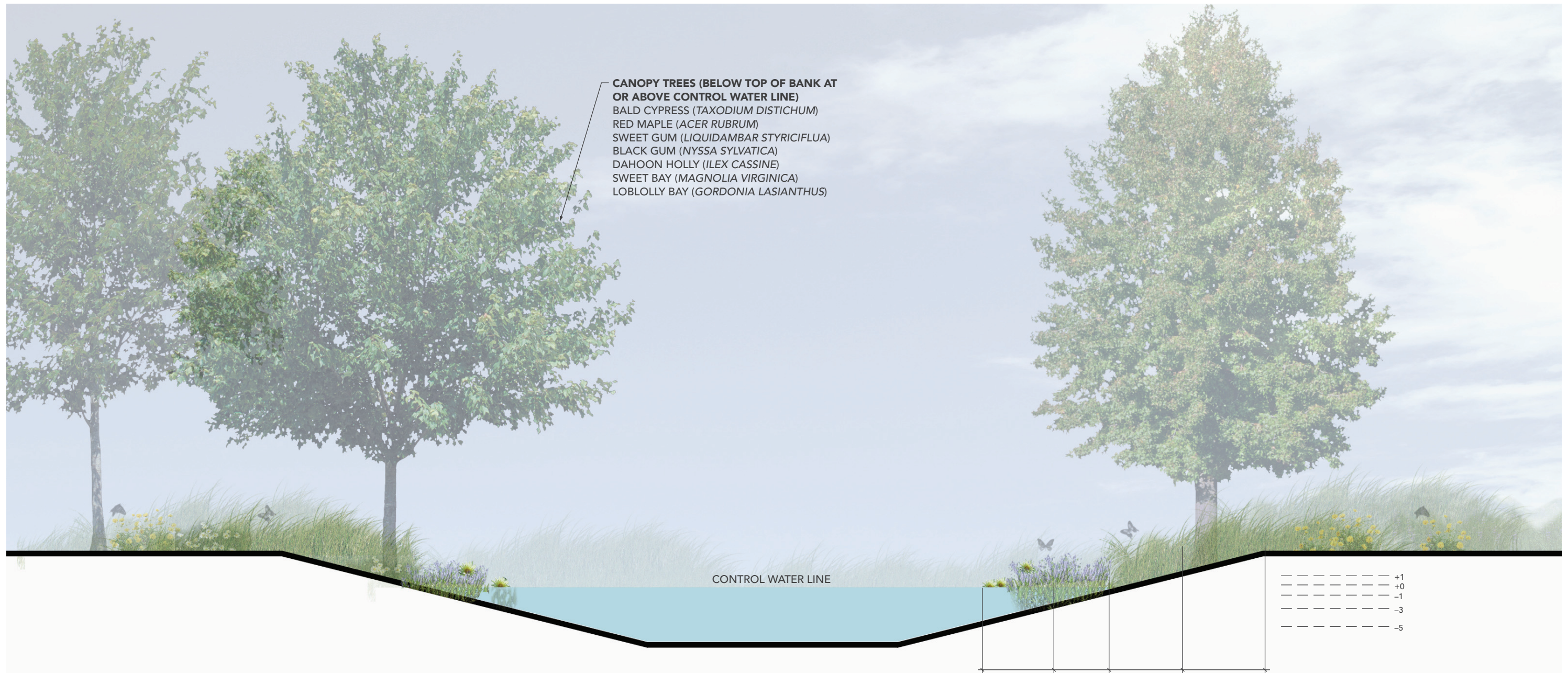
These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Garden Fence



These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Sidewalk



CANOPY TREES (BELOW TOP OF BANK AT OR ABOVE CONTROL WATER LINE)
 BALD CYPRESS (*TAXODIUM DISTICHUM*)
 RED MAPLE (*ACER RUBRUM*)
 SWEET GUM (*LIQUIDAMBAR STYRICIFLUA*)
 BLACK GUM (*NYSSA SYLVATICA*)
 DAHOON HOLLY (*ILEX CASSINE*)
 SWEET BAY (*MAGNOLIA VIRGINICA*)
 LOBLOLLY BAY (*GORDONIA LASIANTHUS*)

ZONE A / HYDRIC (+1' ABOVE CIVIL & GREATER)	ZONE B / TRANSITIONAL (-1' to +1')	ZONE C / EMERGENT AQUATICS (-1' to -3' BELOW CIVIL)	ZONE D / SUBMERGENT AQUATICS (3' to 5' BELOW CIVIL)
FAKAHATCHEE GRASS (<i>TRIPSACUM DACTYLOIDES</i>) WAX MYRTLE (<i>MYRICA CERIFERA</i>) VIRGINIA WILLOW (<i>ITEA VIRGINICA</i>) WALTER'S VIBURNUM (<i>VIBURNUM OBOVATUM</i>) MUHLY GRASS (<i>MUHLENBERGIA CAPARILLIS</i>) ELLIOT'S LOVE GRASS (<i>ERAGROSTIS ELLIOTTII</i>) FLORIDA TICKSEED (<i>COREOPSIS FLORIDANA</i>) BLACK-EYED SUSAN (<i>RUDBECKIA HIRTA</i>) DENSE BLAZING STAR (<i>LIATRIS SPICATA</i>)	SAND CORD GRASS (<i>SPARTINA BAKERI</i>) YELLOW CANNA (<i>CANNA FLACCIDATA</i>) SOFT RUSH BLUE FLAG IRIS (<i>IRIS VIRGINICA</i>) SWAMP ROSE MALLOW (<i>HIBISCUS GRANDIFLORA</i>) DUCK POTATO (<i>SAGITTARIA LATIFOLIA</i>)	ALLIGATOR FLAG (<i>THALIA GENICULATA</i>) ARROWHEAD (<i>SAGITTARIA LANCIFOLIA</i>) DUCK POTATO (<i>SAGITTARIA LATIFOLIA</i>) GIANT BULRUSH (<i>SCIRPUS CALIFORNICUS</i>) PICKERELWEED* (<i>PONTEDERIA CORDATA</i>) SPIKERUSH (<i>ELEOCHARIS SPP.</i>)	GIANT BULRUSH (<i>SCIRPUS CALIFORNICUS</i>) SPATTERDOCK (<i>NUPHAR LUTEUM</i>) WHITE WATER LILY (<i>NYMPHAEA ODORATA</i>)

--- +1
 --- +0
 --- -1
 --- -3
 --- -5

(D) (C) (B) (A)

These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Wet Detention Section



(A)



(B)



Site Furnishing Specifications

Bench: Picket Fence Backed, FSC CoC ipe,

Storm Cloud Powdercoat: 24"x35"x67"

Manufacturer: www.landscapeforms.com

Litter Receptacle: Grass Top Opening,

Storm Cloud Powdercoat

Manufacturer: www.landscapeforms.com

These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Walls & Site Furnishings



- 1 Vines
- 2 Grasses
- 3 Evergreen

- 4 Aquatic or Water Tolerant
- 5 Flowering
- 6 Attracts Birds

- 7 Attracts Butterflies
- 8 Culturally Significant
- 9 Native

- 10 Fall Color or Winter Interest
- 11 Drought Tolerant
- 12 Poisonous Parts

BELUTHAHATCHEE PLANT LIST

TREES

American Elm - <i>Ulmus americana</i>	9 10	Live Oak - <i>Quercus virginiana</i>	3 8 9	Saucer Magnolia - <i>Magnolia x Soulangeana</i>	5	Tulip Poplar - <i>Liriodendron tulipifera</i>	5 9 10
American Holly - <i>Ilex opaca</i>	3 6 9 11 12	Loblolly Bay - <i>Gordonia lasianthus</i>	3 4 5 9	Slash Pine - <i>Pinus elliotii</i>	3 9 11	Turkey Oak - <i>Quercus laevis</i>	9 10 11
Ash - <i>Fraxinus spp.</i>	9 10	Loblolly Pine - <i>Pinus taeda</i>	3 9	Southern Magnolia - <i>Magnolia grandiflora</i>	3 5 8 9	Water Oak - <i>Quercus nigra</i>	9
Bald Cypress - <i>Taxodium distichum</i>	8 9 10 11	Mockernut Hickory - <i>Carya tomentosa</i>	9 10 11	Swamp Chestnut Oak - <i>Quercus michauxii</i>	8 9 10 11	Wax Myrtle - <i>Myrica cerifera</i>	3 6 8 9 11
Black Gum - <i>Nyssa sylvatica</i>	6 9 10 11	Pignut Hickory - <i>Carya glabra</i>	9 10 11	Sweet Bay - <i>Magnolia virginiana</i>	3 5 9		
Dahoon Holly - <i>Ilex cassine</i>	3 6 9	Red Bud - <i>Cercis canadensis</i>	5 9 11	Sweet Gum - <i>Liquidambar styraciflua</i>	4 9 10		
Dogwood - <i>Cornus florida</i>	5 6 9 10	Sabal Palm - <i>Sabal palmetto</i>	3 8 9 11	Sycamore - <i>Platanus occidentalis</i>	9 10		

UNDERSTORY

Adams Needle - <i>Yucca filamentosa</i>	3 5 9 11	Chickasaw Plum - <i>Prunus augustifolia</i>	5 6 7 9 11	Muhly Grass - <i>Muhlenbergia capillaris</i>	2 5 9 11	Swamp Rose Mallow - <i>Hibiscus grandiflora</i>	4 5 7 9
Alligator Flag - <i>Thalia geniculata</i>	4 5 9	Confederate Jasmine - <i>Trachelospermum jasminoides</i>	1 3 5 8	Oakleaf Hydrangea - <i>Hydrangea quercifolia</i>	5 9 10	Sweet Viburnum - <i>Viburnum odoratissimum</i>	3 5 6 11
American Wisteria - <i>Wisteria frutescens</i>	1 5 7 9	Cordgrass - <i>Spartina bakerii</i>	2 4 9 11	Passion Flower - <i>Passiflora spp.</i>	1 5 9 11	Tea Olive - <i>Osmanthus fragrans</i>	3 5 8
Arrowhead - <i>Sagittaria latifolia</i>	4 5 9	Duck Potato - <i>Sagittaria latifolia</i>	4 5 9	Pickrel Weed - <i>Pontederia cordata</i>	4 5 9	Virginia Willow - <i>Itea virginica</i>	4 5 9 10
Azalea spp.	3 5 8 9	Dwarf Huckleberry - <i>Gaylussacia dumosa</i>	4 5 9	Purple Coneflower - <i>Echinacea purpurea</i>	5 7 8 9	Walter's Viburnum - <i>Viburnum obovatum</i>	3 5 6 9 11
Beautyberry - <i>Callicarpa americana</i>	6 9 11	Elliot's Lovegrass - <i>Eragrostis elliotii</i>	2 9 11	Purple Lovegrass - <i>Eragrostis spectabilis</i>	2 5 9 11	Waxmyrtle - <i>Myrica cerifera</i>	3 6 8 9 11
Blackeyed Susan - <i>Rudbeckia hirta</i>	5 7 9	Fakahatchee Grass - <i>Tripsacum dactyloides</i>	2 9 11	Roses - <i>Rosaceae spp.</i>	3 5 8	White Water Lily - <i>Nymphaea odorata</i>	4 5 9
Blazing Star - <i>Liatris spp</i>	5 7 8 9 11	Ferns spp.	3 9	Sages - <i>Salvia spp.</i>	5 6 9	White Yarrow - <i>Achillea millefolium</i>	3 5 6 9 11
Blue Porterweed - <i>Stachytarpheta jamaicensis</i>	5 7 11	Florida Tickseed - <i>Coreopsis floridanum</i>	5 6 7 9	Sandanqua Viburnum - <i>Viburnum suspensum</i>	3 5 6	Wiregrass - <i>Aristida stricta</i>	2 9 11
Blueberry - <i>Vaccinium spp.</i>	6 9 11	Gallberry - <i>Ilex glabra</i>	3 6 9	Saw Palmetto - <i>Serenoa repens</i>	3 6 9 11	Yaupon Holly - <i>Ilex vomitoria</i>	3 8 9 11 12
Blueflag Iris - <i>Iris virginica</i>	4 5 9	Goldenrod - <i>Solidago chapmanii</i>	5 7 9	Schilling's Dwarf Holly - <i>Ilex vomitoria 'Schilling's Dwarf'</i>	3 11 12	Yellow Canna - <i>Canna flaccida</i>	4 5 9
Bougainvillea spp.	1 3 5 11	Indian Hawthorn - <i>Rhaphiolepis indica</i>	3 5 6	Soft Rush - <i>Juncus effusus</i>	2 4 9	Yellow Coneflower - <i>Echinacea paradoxa</i>	5 7 8 9
Boxwood - <i>Buxus microphylla</i>	3 8	Lion's Ear - <i>Lionitis nepetaefolia</i>	5 6 11	Spatterdock - <i>Nuphar luteum</i>	4 5 9		
Camellia - <i>Camellia japonica</i>	3 5 8	Joe Pye Weed - <i>Eupatorium fistulosum</i>	5 6 7 9	Spikerush - <i>Eleocharis spp.</i>	4 9		
Carolina Jessamine - <i>Gelsemium sempervirens</i>	1 3 5 9 11	Meadow Beauty - <i>Rhexia virginica</i>	5 9	Star Magnolia - <i>Magnolia stellata</i>	5 8		

Beluthahatchee



Permitting

The addition of impervious surface will require coordination with the SJRWMD, St. Johns County and potentially the ACOE. A civil engineer should be consulted for final design and permitting in conjunction with a biologist that can accurately represent the existing conditions and the impacts that the proposed design may have on the natural environs.

St. Johns County Building Services will need to review and permit the proposed structures. Structures must meet the Southern Building Code and Florida Building Code including applicable ADA and appropriate wind load requirements. In addition, site plan and construction documents will need to be reviewed by St Johns County Development Services.

Any tree removal that may occur as a result of these improvements should be coordinated with the CMC and must be permitted according to St. Johns County requirements. Improvements may also need to be reviewed by St. Johns County Historic Resource Review Board.

Statement of Probable Cost

Construction Costs	\$910,000
---------------------------	------------------

Note: Construction cost does not include rehabilitation of existing structures on the property.

AECOM has no control over the cost of labor, materials, or equipment, the Contractor's method of determining prices or competitive bidding or market conditions. Therefore our statement of probable cost provided herein is made on the basis of experience and represents our best judgment as Landscape Architects familiar with the construction industry. The firm cannot and does not guarantee that proposals, bids, or the construction cost will not vary from our statement of probable cost. If the Owner wishes greater assurances as to the construction cost, we recommend the employment of an independent cost estimator. This estimate only includes construction costs. Design, engineering, and permitting costs are not included.

Alpine Groves Park and Switzerland Community Center

Located on the eastern shore of the St. Johns River, Alpine Groves Park is the first public access to the river for southbound travelers. The park is an excellent resource for the scenic highway that provides dramatic views of the St. Johns River and contains a historic homestead including a renovated farmhouse as well as agricultural outbuildings and implements used to harvest the citrus previously found on the site. The park has also been designated as a stop along the Great Florida Birding Trail. The park is very well-used, and the local residents take great pride in caring for the park. The local garden club maintains a large butterfly garden near the entrance, and the small vessel launch was constructed as part of an Eagle Scout project. The park's long term vision is nearly complete, and therefore, the recommendations for the park itself are relatively minor. The master plan contains recommendations for enhancing the stormwater pond at the front entrance as well as providing pedestrian access from SR-13.



Directly across SR-13, the Switzerland Community Center is a historic building that once housed many civic functions in days gone by. A modern-day fire station was constructed in front of the community center and is currently vacant. St. Johns County has prepared plans for the demolition of the fire house and renovation of the community center, and the master plan for the scenic highway calls for a visitors' center to be constructed directly adjacent to the renovated community center. The combination of these two facilities with Alpine Groves will create a civic hub centrally located on the scenic highway. Recommendations for pedestrian crossing enhancements have been provided to connect these buildings to Alpine Groves Park (see Livable Transportation section). In addition, landscape and hardscape improvements along both sides of the highway are recommended to unify the two properties and create a "district" feel.

Alpine Groves Park & Switzerland Community Center



Existing Conditions/Current Uses:

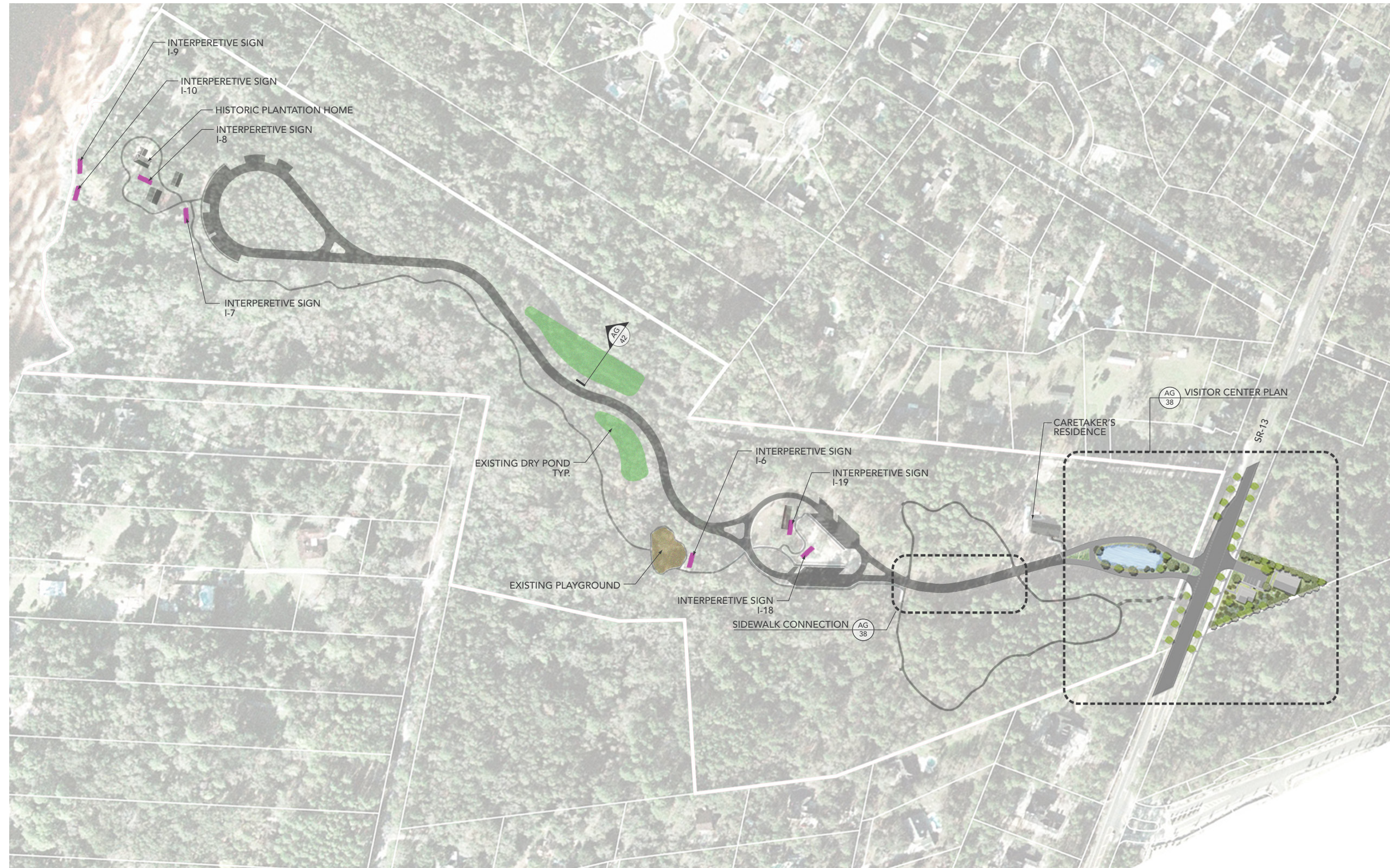
- Extremely successful and well used park
- Existing program elements include:
 - Nature trails
 - Butterfly gardens
 - Citrus-themed playground
 - Historic interpretation including homestead, barns, and equipment
 - Exceptional river viewing opportunities
 - Canoe/kayak launch with canoe storage
 - Picnic pavilions with restroom facilities
 - Fishing pier
- Beautiful views to river
- Excellent opportunities for wildlife viewing
- Park used for variety of functions
- Park in need of land management for invasive/exotic plants

The Big Ideas:

- Create a scenic highway visitor's center that ties into historic community center restoration
- Provide pedestrian access from SR-13 to Alpine Groves Park
- Enhance scenic quality of entrance through entry pond enhancements
- Visually unify Alpine Groves Park and Switzerland Community Center along SR-13

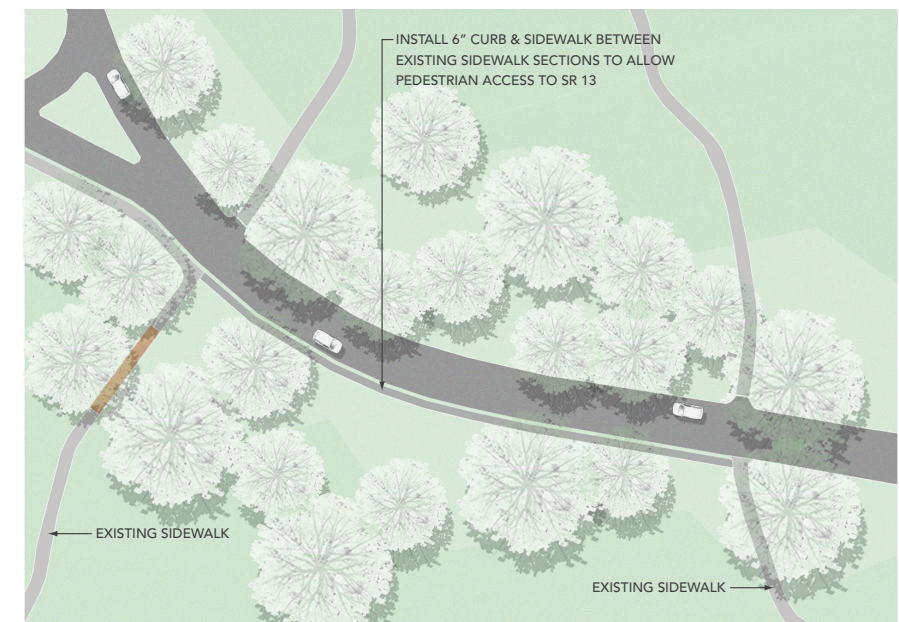
Proposed Improvements:

- Visitor center for scenic highway in conjunction with Switzerland Community Center restoration
- Parking for visitor center and community center using pervious pavement
- Overflow grass parking for visitor center and community center
- Landscape buffer enhancements for community center parcel
- Fencing and columns along both sides of SR-13 to unify area
- New sidewalk at back of curb along access drive to connect Alpine Groves Park elements to SR-13
- Landscape enhancements at entry pond
- Interpretive signs
- Sculpture as part of corridor-wide sculpture exhibit
- Accessible paths to all improvements
- Refuge island, curbing, street trees, and crosswalk enhancements to slow traffic to acceptable standards and provide unsignalized pedestrian crossing between Switzerland Community Center parcel and Alpine Groves Park (optional, if feasible).



These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

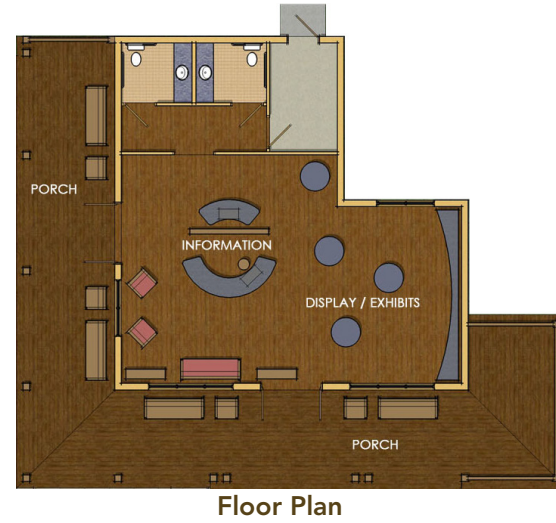
Overall Park Improvements Map & Interpretive Sign Locations



Sidewalk Connection

These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Overall Entry Plan



Alpine Groves Visitor Center

- Approximately 1100 square foot visitor center facility
- Byway visitor information desk
- Byway display area
- Restroom facilities
- Covered porch with seating
- William Bartram biographical interpretive signage
- Restored community center to be used for events and exhibits



Switzerland Community Center

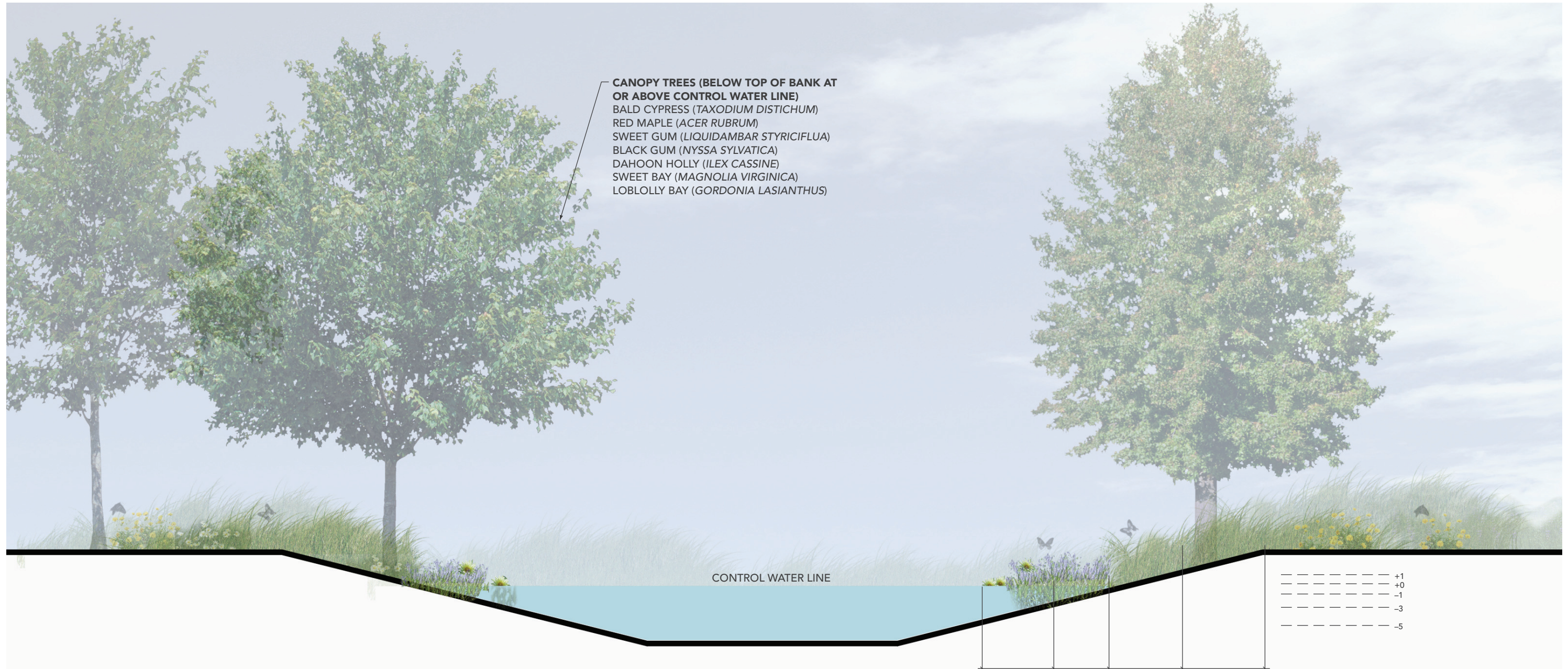
These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.



Before

These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Entry Pond Enhancements / Wet Detention



CANOPY TREES (BELOW TOP OF BANK AT OR ABOVE CONTROL WATER LINE)
 BALD CYPRESS (*TAXODIUM DISTICHUM*)
 RED MAPLE (*ACER RUBRUM*)
 SWEET GUM (*LIQUIDAMBAR STYRICIFLUA*)
 BLACK GUM (*NYSSA SYLVATICA*)
 DAHOON HOLLY (*ILEX CASSINE*)
 SWEET BAY (*MAGNOLIA VIRGINICA*)
 LOBLOLLY BAY (*GORDONIA LASIANTHUS*)

CONTROL WATER LINE

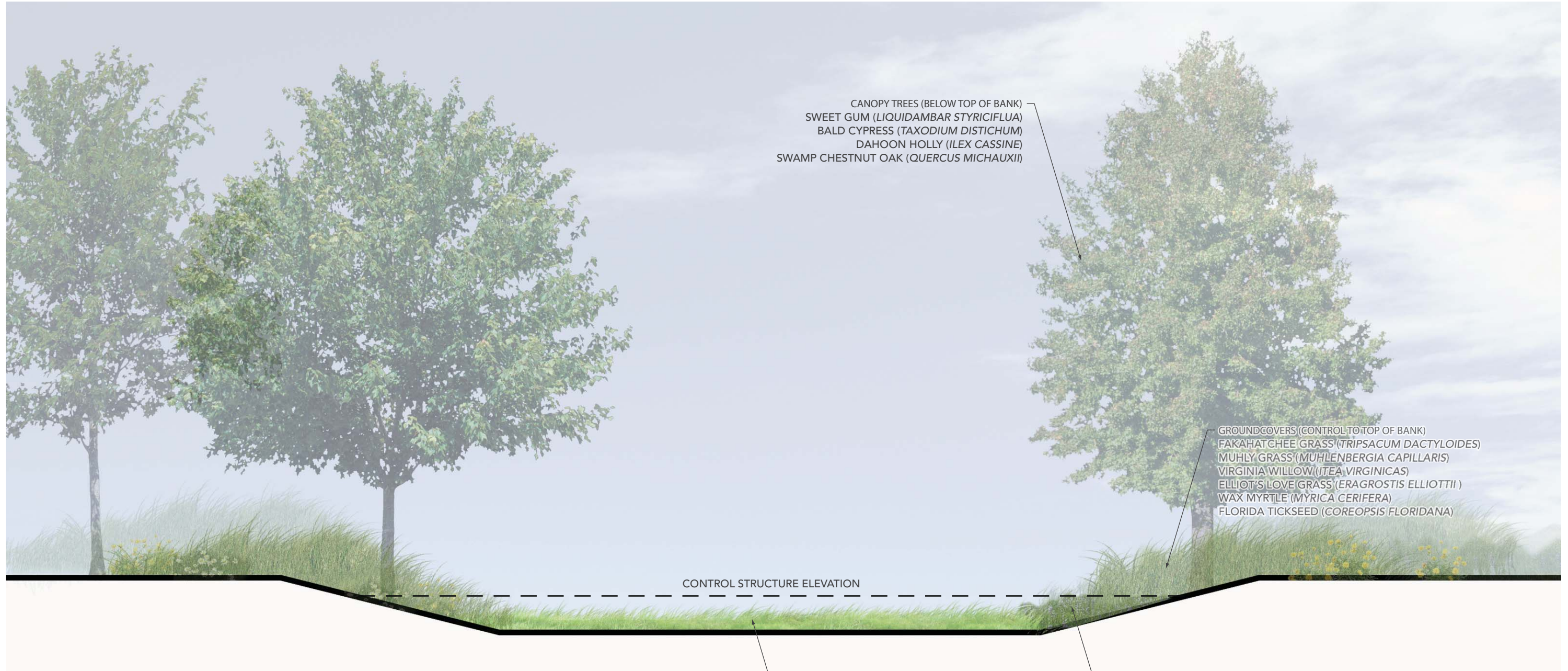
----- +1
 ----- +0
 ----- -1
 ----- -3
 ----- -5

(D) (C) (B) (A)

ZONE A / HYDRIC (+1' ABOVE CIVIL & GREATER)	ZONE B / TRANSITIONAL (-1' to +1')	ZONE C / EMERGENT AQUATICS (-1' to -3' BELOW CIVIL)	ZONE D / SUBMERGENT AQUATICS (3' to 5' BELOW CIVIL)
FAKAHATCHEE GRASS (<i>TRIPSACUM DACTYLOIDES</i>) WAX MYRTLE (<i>MYRICA CERIFERA</i>) VIRGINIA WILLOW (<i>ITEA VIRGINICA</i>) WALTER'S VIBURNUM (<i>VIBURNUM OBOVATUM</i>) MUHLY GRASS (<i>MUHLENBERGIA CAPARILLIS</i>) ELLIOT'S LOVE GRASS (<i>ERAGROSTIS ELLIOTTII</i>) FLORIDA TICKSEED (<i>COREOPSIS FLORIDANA</i>) BLACK-EYED SUSAN (<i>RUDBECKIA HIRTA</i>) DENSE BLAZING STAR (<i>LIATRIS SPICATA</i>)	SAND CORD GRASS (<i>SPARTINA BAKERI</i>) YELLOW CANNA (<i>CANNA FLACCIDA</i>) SOFT RUSH BLUE FLAG IRIS (<i>IRIS VIRGINICA</i>) SWAMP ROSE MALLOW (<i>HIBISCUS GRANDIFLORA</i>) DUCK POTATO (<i>SAGITTARIA LATIFOLIA</i>)	ALLIGATOR FLAG (<i>THALIA GENICULATA</i>) ARROWHEAD (<i>SAGITTARIA LANCIFOLIA</i>) DUCK POTATO (<i>SAGITTARIA LATIFOLIA</i>) GIANT BULRUSH (<i>SCIRPUS CALIFORNICUS</i>) PICKERELWEED* (<i>PONTEDERIA CORDATA</i>) SPIKERUSH (<i>ELEOCHARIS SPP</i>)	GIANT BULRUSH (<i>SCIRPUS CALIFORNICUS</i>) SPATTERDOCK (<i>NUPHAR LUTEUM</i>) WHITE WATER LILY (<i>NYMPHAEA ODORATA</i>)

These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Wet Detention Section



CANOPY TREES (BELOW TOP OF BANK)
 SWEET GUM (*LIQUIDAMBAR STYRICIFLUA*)
 BALD CYPRESS (*TAXODIUM DISTICHUM*)
 DAHOON HOLLY (*ILEX CASSINE*)
 SWAMP CHESTNUT OAK (*QUERCUS MICHAUXII*)

GROUNDCOVERS (CONTROL TO TOP OF BANK)
 FAKAHATCHEE GRASS (*TRIPSACUM DACTYLOIDES*)
 MUHLY GRASS (*MUHLENBERGIA CAPILLARIS*)
 VIRGINIA WILLOW (*ITEA VIRGINICAS*)
 ELLIOT'S LOVE GRASS (*ERAGROSTIS ELLIOTTII*)
 WAX MYRTLE (*MYRICA CERIFERA*)
 FLORIDA TICKSEED (*COREOPSIS FLORIDANA*)

CONTROL STRUCTURE ELEVATION

GROUNDCOVERS (-9" TO -18" DEPTH)
 YELLOW CANNA (*CANNA FLACCCIDA*)
 CORD GRASS (*SPARTINA BAKERI*)
 SOFT RUSH
 DUCK POTATO* (*SAGITTARIA LATIFOLIA*)
 PICKERELWEED* (*PONTEDERIA CORDATA*)

GROUNDCOVERS (0 TO -9" DEPTH)
 FAKAHATCHEE GRASS (*TRIPSACUM DACTYLOIDES*)
 BLUE FLAG IRIS (*IRIS VIRGINICA*)

NOTE: DRY RETENTION WHERE CONTROL ELEVATION IS MORE THAN 18" ABOVE BOTTOM OF DETENTION AREA SHALL BE BAHIA.

* MAY DIE BACK DURING DROUGHT SEASON

These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Dry Detention Section



Site Furnishing Specifications

Bench: Backed Garden Fence, FSC CoC ipe,

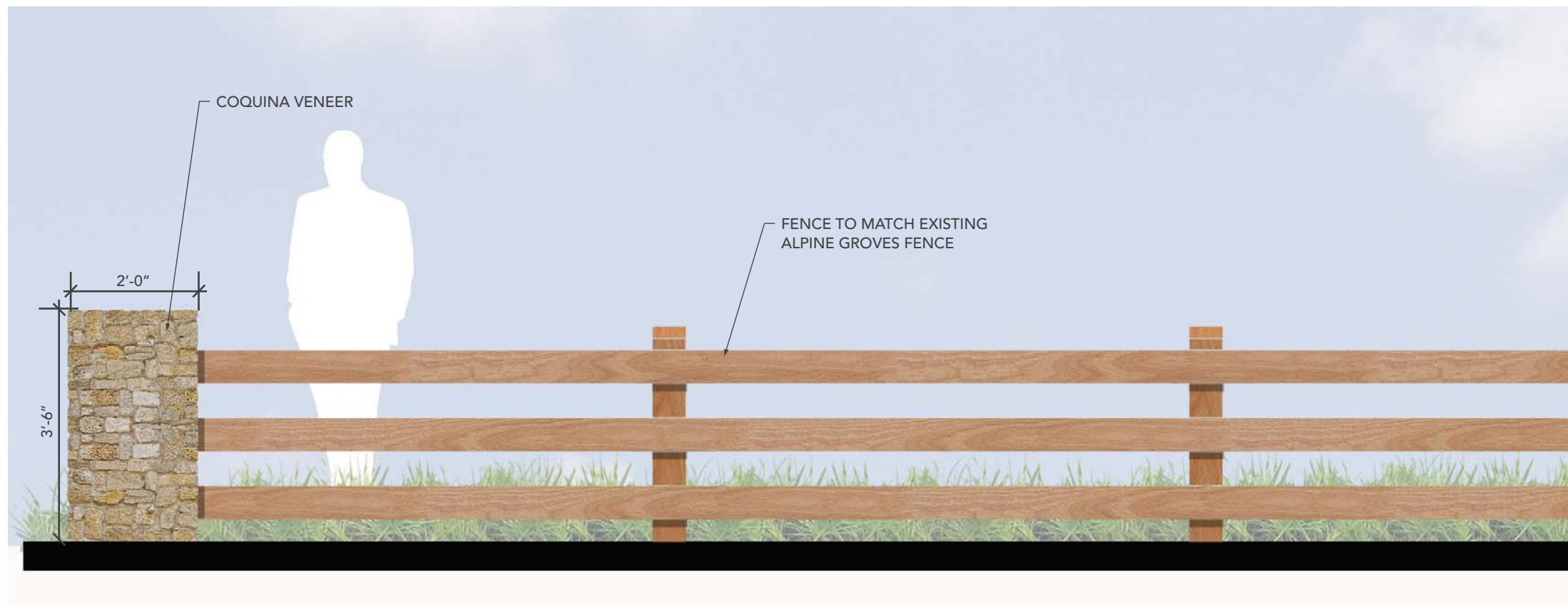
Storm Cloud Powdercoat: 24"x35"x67"

Manufacturer: www.landscapeforms.com

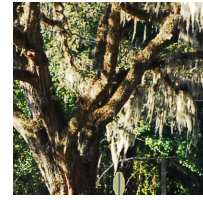
Litter Receptacle: Grass Top Opening,

Storm Cloud Powdercoat

Manufacturer: www.landscapeforms.com



Fence Column & Site Furnishings



- 1 Vines
- 2 Grasses
- 3 Evergreen

- 4 Aquatic or Water Tolerant
- 5 Flowering
- 6 Attracts Birds

- 7 Attracts Butterflies
- 8 Culturally Significant
- 9 Native

- 10 Fall Color or Winter Interest
- 11 Drought Tolerant
- 12 Poisonous Parts

ALPINE GROVES PLANT LIST

TREES

Bald Cypress - <i>Taxodium distichum</i>	8 9 10 11	Slash Pine - <i>Pinus elliotii</i>	3 9 11
Dahoon Holly - <i>Ilex cassine</i>	3 6 9	Southern Magnolia - <i>Magnolia grandiflora</i>	3 5 8 9 11
Live Oak - <i>Quercus virginiana</i>	3 8 9	Swamp Chestnut Oak - <i>Quercus michauxii</i>	8 9 10 11
Loblolly Bay - <i>Gordonia lasaianthus</i>	3 4 5 9	Sweet Bay - <i>Magnolia virginiana</i>	3 5 9
Longleaf Pine - <i>Pinus palustris</i>	3 8 9 11	Sweet Gum - <i>Liquidambar styraciflua</i>	4 9 10
Pignut Hickory - <i>Carya glabra</i>	9 10 11	Tulip Poplar - <i>Liriodendron tulipifera</i>	5 9 10
Saucer Magnolia - <i>Magnolia x Soulangeana</i>	5	Turkey Oak - <i>Quercus laevis</i>	9 10 11

UNDERSTORY

Adams Needle - <i>Yucca filamentosa</i>	8 9 10 11	Duck Potato - <i>Sagittaria lancifolia</i>	4 5 9	Purple Coneflower - <i>Echinacea purpurea</i>	5 7 8 9	White Water Lily - <i>Nymphaea odorata</i>	4 5 9
American Wisteria - <i>Wisteria frutescens</i>	1 5 7 9	Elliot's Lovegrass - <i>Eragrostis elliotii</i>	2 9 11	Purple Lovegrass - <i>Eragrostis spectabilis</i>	2 5 9 11	White Yarrow - <i>Achillea millefolium</i>	3 5 6 9 11
Arrowhead - <i>Sagittaria latifolia</i>	4 5 9	Fakahatchee Grass - <i>Tripsacum dactyloides</i>	2 9 11	Roses - <i>Rosaceae spp.</i>	3 5 8	Yaupon Holly - <i>Ilex vomitoria</i>	3 8 9 11 12
Azalea spp.	3 5 8 9	Ferns spp.	3 9	Sages - <i>Salvia spp.</i>	5 6 9	Yellow Canna - <i>Canna flaccida</i>	1 1 4 5 9
Beautyberry - <i>Callicarpa americana</i>	6 9 11	Florida Tickseed - <i>Coreopsis floridanum</i>	5 6 7 9	Sandanqua Viburnum - <i>Viburnum suspensum</i>	3 5 6	Yellow Coneflower - <i>Echinacea paradoxa</i>	1 5 7 8 9
Blackeyed Susan - <i>Rudbeckia hirta</i>	5 7 9	Gallberry - <i>Ilex glabra</i>	3 6 9	Saw Palmetto - <i>Serenoa repens</i>	3 6 9 11		
Blazing Star - <i>Liatris spp</i>	5 7 8 9 11	Goldenrod - <i>Solidago chapmanii</i>	5 7 9	Schilling's Dwarf Holly - <i>Ilex vomitoria 'Schilling's Dwarf'</i>	3 11 12		
Blue Porterweed - <i>Stachytarpheta jamaicensis</i>	5 7 11	Indian Hawthorn - <i>Rhaphiolepis indica</i>	3 5 6	Spatterdock - <i>Nuphar luteum</i>	4 5 9		
Blueflag Iris - <i>Iris virginica</i>	4 5 9	Lion's Ear - <i>Lionitis nepetaefolia</i>	5 6 11	Spikerush - <i>Eleocharis spp.</i>	4 9		
Bougainvillea spp.	1 3 5 11	Joe Pye Weed - <i>Eupatorium fistulosum</i>	5 6 7 9	Star Magnolia - <i>Magnolia stellata</i>	5 8		
Boxwood - <i>Buxus microphylla</i>	3 8	Meadow Beauty - <i>Rhexia virginica</i>	5 9	Swamp Rose Mallow - <i>Hibiscus grandiflora</i>	4 5 7 9		
Camellia - <i>Camellia japonica</i>	3 5 8	Muhly Grass - <i>Muhlenbergia capillaris</i>	2 5 9 11	Sweet Viburnum - <i>Viburnum odoratissimum</i>	3 5 6 11		
Chickasaw Plum - <i>Prunus augustifolia</i>	5 6 7 9 11	Oakleaf Hydrangea - <i>Hydrangea quercifolia</i>	5 9 10	Tea Olive - <i>Osmanthus fragrans</i>	3 5 8		
Confederate Jasmine - <i>Trachelospermum jasminoides</i>	1 3 5 8	Passion Flower - <i>Passiflora spp.</i>	1 5 9 11	Virginia Willow - <i>Itea virginica</i>	4 5 9 10		
Cordgrass - <i>Spartina bakerii</i>	2 4 9 11	Pickrel Weed - <i>Pontederia cordata</i>	4 5 9	Walter's Viburnum - <i>Viburnum obovatum</i>	3 5 6 9 11		

Alpine Groves Park & Switzerland Community Center



Permitting

The addition of impervious surface and vertical construction will require coordination with the SJRWMD and St. Johns County. The suggested improvements associated with vegetative enhancements do not require coordination with regulatory agencies. In fact, if the preserved areas within the park are encumbered by a conservation easement dedicated to the SJRWMD as a part of the original permitting process, exotic species control is typically required and an allowable activity identified in the easement. Prior to initiating the permitting process, a thorough review of previously obtained permits should be conducted to determine if the proposed improvements fall within the limits of areas encumbered by a conservation easement. Coordination with the FDOT will be required for improvements within the SR 13 right-of-way.

St. Johns County Building Services will need to review and permit the proposed structures. Structures must meet the Southern Building Code and Florida Building Code including applicable ADA and appropriate wind load requirements. In addition, site plan and construction documents will need to be reviewed by St Johns County Development Services.

Any tree removal that may occur as a result of these improvements should be coordinated with the CMC and must be permitted according to St. Johns County requirements. Improvements may also need to be reviewed by St. Johns County Historic Resource Review Board.

Statement of Probable Cost

Construction Costs (includes Visitor Center)	\$625,000
---	------------------

Note: construction costs do not include restoration of the historic community center or demolition of the existing fire house.

AECOM has no control over the cost of labor, materials, or equipment, the Contractor's method of determining prices or competitive bidding or market conditions. Therefore our statement of probable cost provided herein is made on the basis of experience and represents our best judgment as Landscape Architects familiar with the construction industry. The firm cannot and does not guarantee that proposals, bids, or the construction cost will not vary from our statement of probable cost. If the Owner wishes greater assurances as to the construction cost, we recommend the employment of an independent cost estimator. This estimate only includes construction costs. Design, engineering, and permitting costs are not included.



Shands Pier

Shands Pier is the scenic highway's only direct access to the St. Johns River available at all times of day, and it provides a dramatic view of the great river and fishing opportunities to residents and visitors alike. The master plan provides for the enhancement of the pier creating shaded areas along the length boardwalk as well as a pavilion at the terminus of the pier. In addition, the plan provides for more defined parking and sidewalks along Shands Pier Road and begins to lay the foundation of the infrastructure necessary for a successful and walkable "community center" as described in the St. Johns County Northwest Sector Plan. The master plan also recommends permanent bathrooms, seating areas, and stormwater treatment not currently provided at the pier. Interpretive displays inform the traveler about the ecology of the St. Johns River and its importance to the area.



Shands Pier



Existing Conditions/Current Uses:

- Existing pier well-used for fishing and river/wildlife viewing
- Beautiful river views
- Excellent opportunity for wildlife viewing (manatees, eagles, etc)
- Existing undefined parking with no stormwater runoff capture
- Existing portable toilets

The Big Ideas:

- Create plaza with enhanced amenities at beginning of pier
- Enhance pedestrian facilities from SR-13 to Shands Pier
- Provide structure parking at pier
- Enhance Shands Pier with shade structures for fishing and river viewing
- Capture stormwater runoff from road and facilities at pier

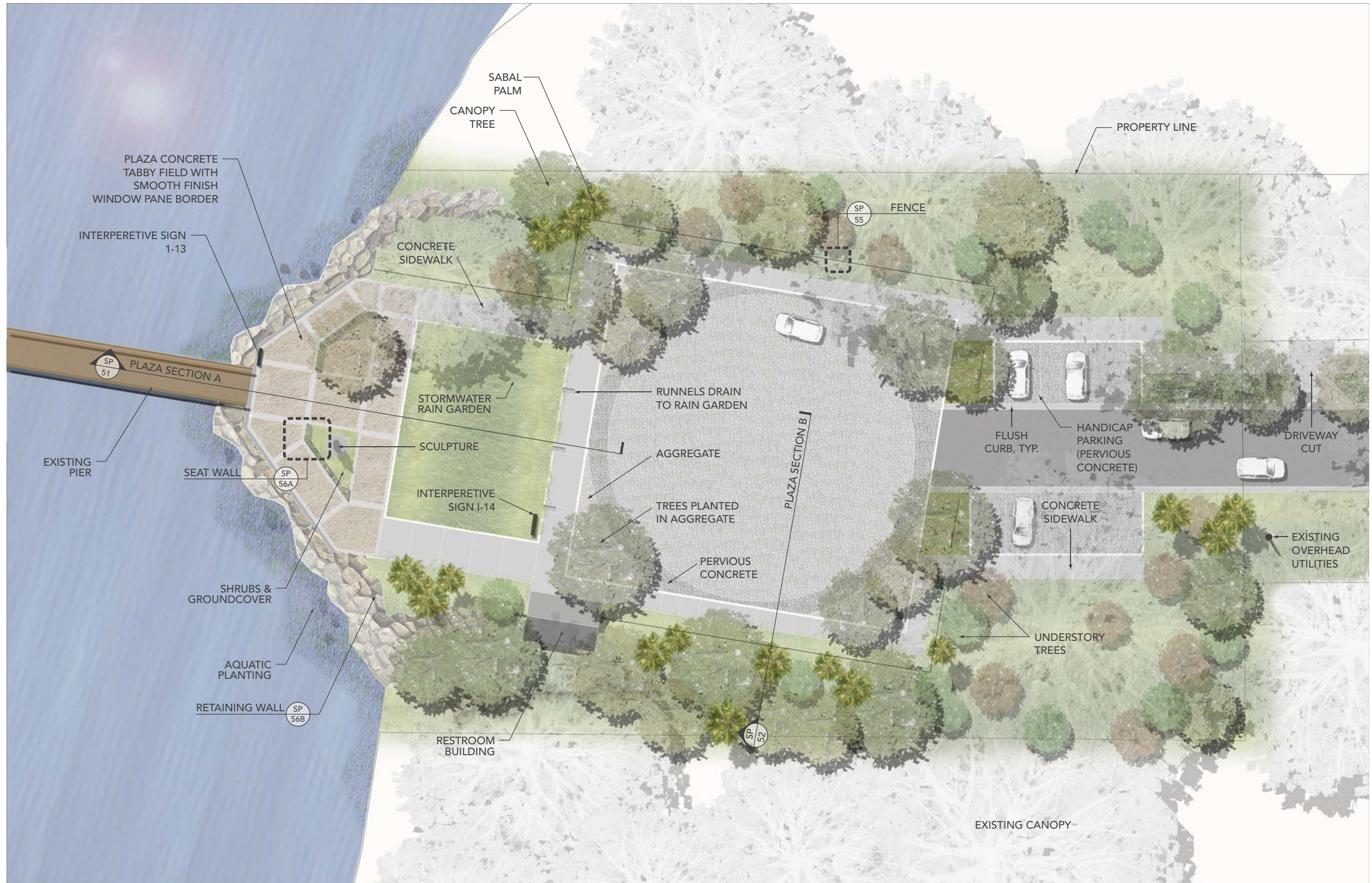
Proposed improvements:

- Organized parking
- Sidewalk from SR-13 to Pier
- Enhanced property fencing along Shands Pier Road
- Incorporation of pier shade structures
- Permanent restroom facilities (self-contained)
- Plaza with seatwalls overlooking river
- Vehicular turnaround at end of Shands Pier Road
- Stormwater rain garden
- Interpretive signs
- Sculpture as part of corridor-wide sculpture exhibit
- Enhanced pier lighting
- Enhanced landscaping



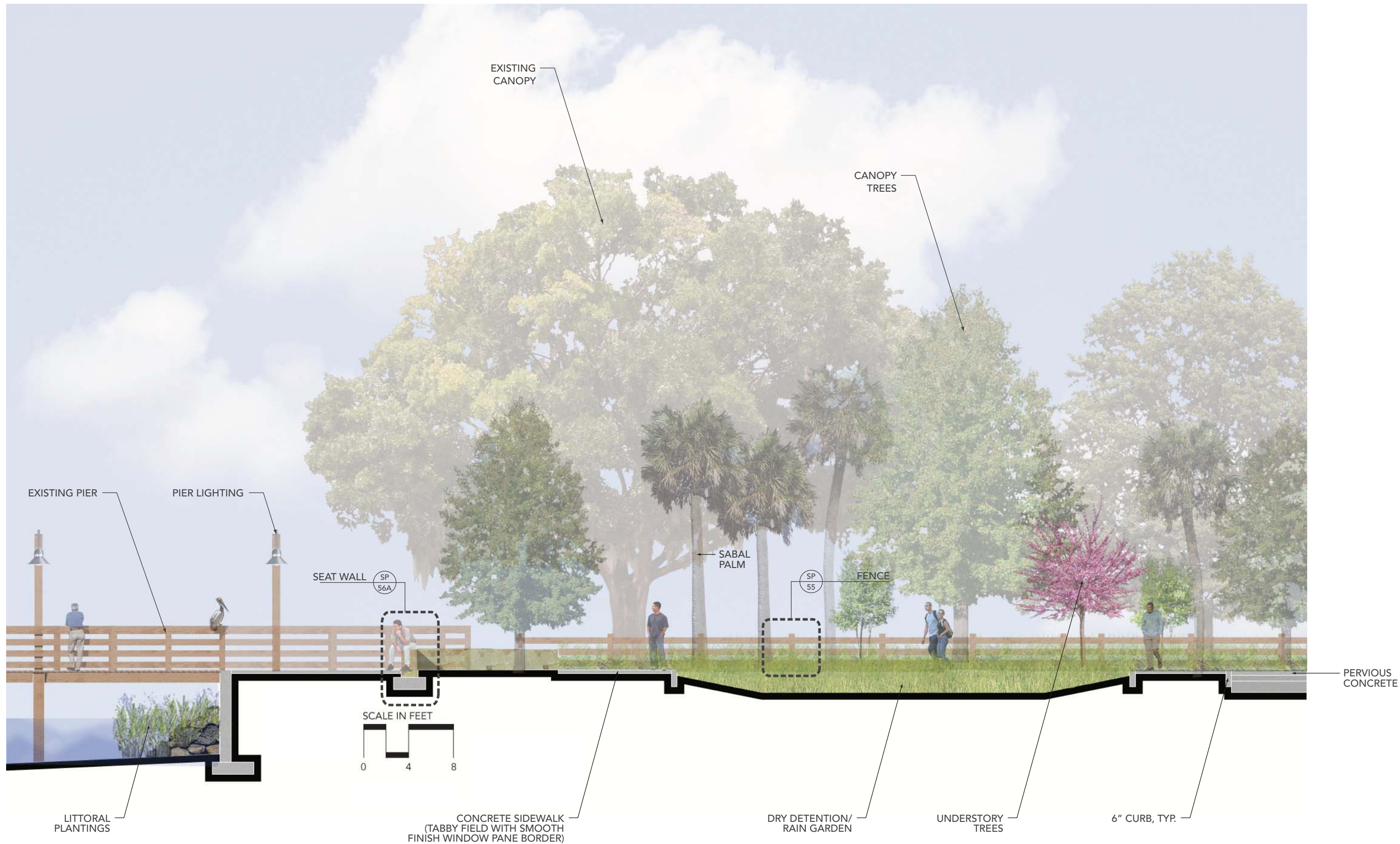
These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Overall Master Plan



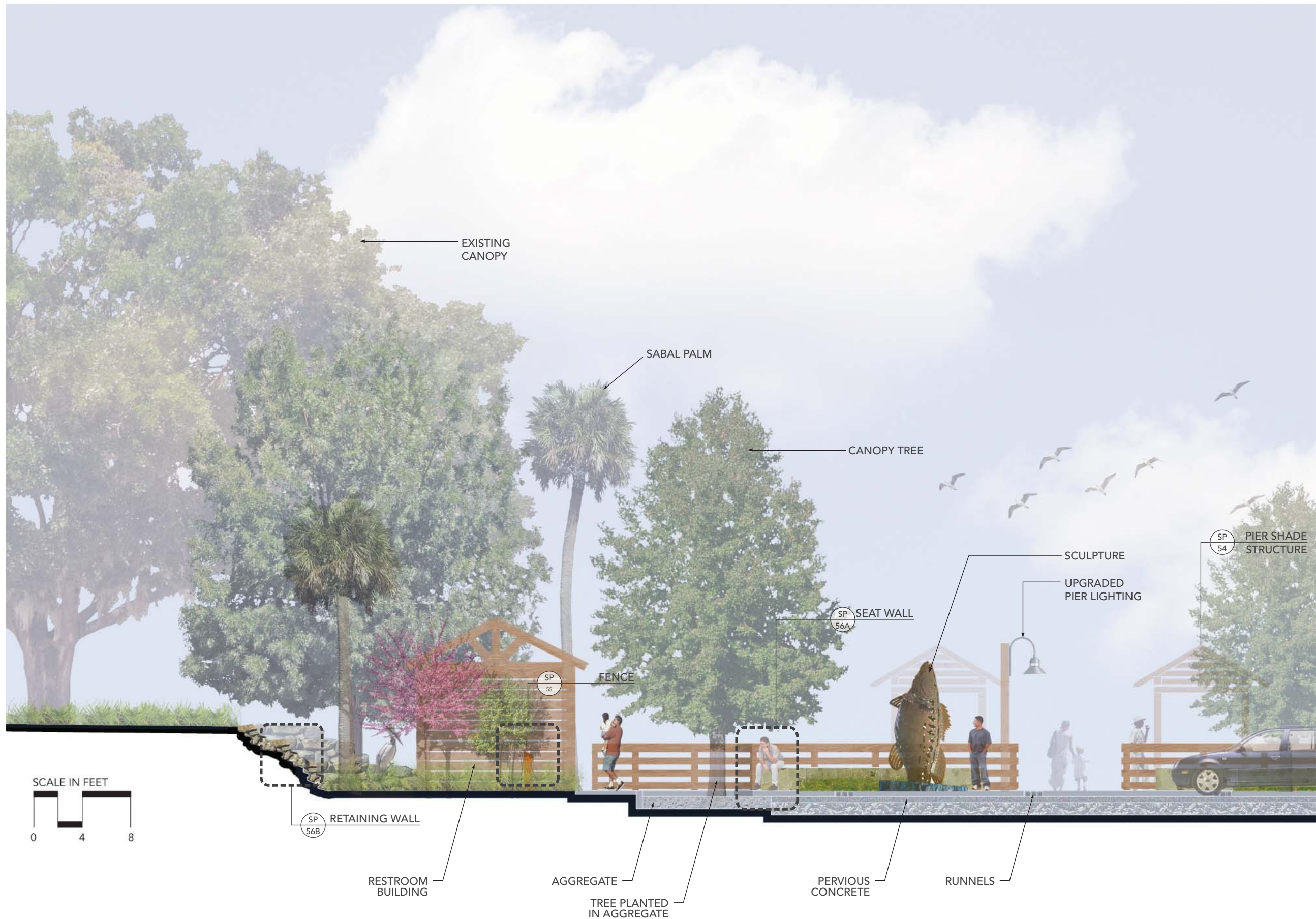
These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Plaza Enlargement



These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Plaza Section 'A'



These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Plaza Section 'B'



These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Roadway Section



Terminal Pavilion

- Offset to one side of the pier to preserve views to the river from the pier
- Open air shade structure offers shade and rain protection and allows breeze to circulate
- Built in benches for increased seating opportunities
- Solar panels mounted to the roof to power interior ceiling lights
- Allows anglers more fishing area
- Provides a larger gathering space

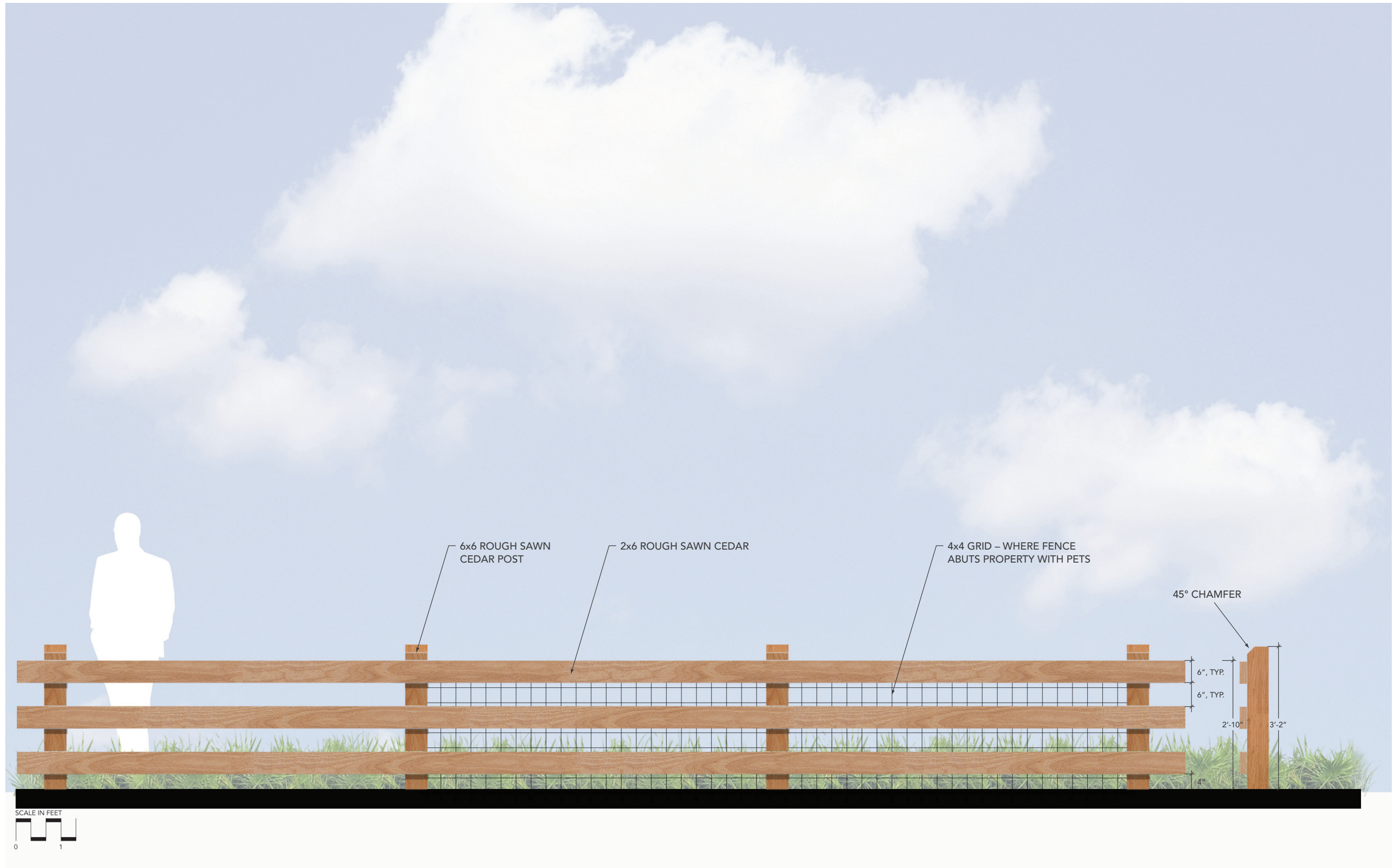
Midway Shade Structures

- Staggered the length of the pier and offset from main travel path
- Provide shade and rain protection
- Built in benches for increased seating opportunities
- Solar panels mounted to the roof to power interior ceiling lights
- Allows anglers more fishing opportunities
- Upgraded Pier Lighting
- Provides visual cohesion with pier
- Gooseneck style lights reduce light pollution



These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Pier Improvements



These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Three Rail Fence



CUT COQUINA STONE
FREESTANDING SEATWAL

22"

(A)



UNCUT COQUINA
STONE STACKED
RETAINING WALL

(B)



Site Furnishing Specifications

Litter Receptacle: Grass Top Opening,

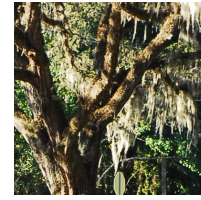
Storm Cloud Powdercoat

Manufacturer: www.landscapeforms.com



Tabby Concrete at Plaza

These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.



- 1 Vines
- 2 Grasses
- 3 Evergreen

- 4 Aquatic or Water Tolerant
- 5 Flowering
- 6 Attracts Birds

- 7 Attracts Butterflies
- 8 Culturally Significant
- 9 Native

- 10 Fall Color or Winter Interest
- 11 Drought Tolerant
- 12 Poisonous Parts

SHANDS PIER PLANT LIST

TREES

- Dogwood - *Cornus florida* 5 6 9 10
- Live Oak - *Quercus virginiana* 3 8 9
- Red Bud - *Cercis canadensis* 5 9 11
- Sabal Palm - *Sabal palmetto* 3 8 9 11
- Southern Magnolia - *Magnolia grandiflora* 3 9 11
- Sweet Gum - *Liquidambar styraciflua* 4 9 10

UNDERSTORY

- | | |
|--|--|
| Arrowhead - <i>Sagittaria latifolia</i> 4 5 9 | Sandanqua Viburnum - <i>Viburnum suspensum</i> 3 5 6 |
| Azalea spp. 3 5 8 9 | Schilling's Dwarf Holly - <i>Ilex vomitoria 'Schilling's Dwarf'</i> 3 11 12 |
| Beautyberry - <i>Callicarpa americana</i> 6 9 11 | Star Magnolia - <i>Magnolia stellata</i> 5 8 |
| Blackeyed Susan - <i>Rudbeckia hirta</i> 5 7 9 | Sweet Viburnum - <i>Viburnum odoratissimum</i> 3 5 6 11 |
| Blazing Star - <i>Liatris spp</i> 5 7 8 9 11 | Tea Olive - <i>Osmanthus fragrans</i> 3 5 8 |
| Blueflag Iris - <i>Iris virginica</i> 4 5 9 | Walter's Viburnum - <i>Viburnum obovatum</i> 3 5 6 9 11 |
| Bougainvillea spp. 1 3 5 11 | Yaupon Holly - <i>Ilex vomitoria</i> 3 8 9 11 12 |
| Cordgrass - <i>Spartina bakerii</i> 2 4 9 11 | Yellow Canna - <i>Canna flaccida</i> 4 5 9 |
| Duck Potato - <i>Sagittaria lancifolia</i> 4 5 9 | |
| Fakahatchee Grass - <i>Tripsacum dactyloides</i> 2 9 11 | |
| Ferns spp. 3 9 | |
| Florida Tickseed - <i>Coreopsis floridanum</i> 5 6 7 9 | |
| Oakleaf Hydrangea - <i>Hydrangea quercifolia</i> 5 9 10 | |
| Passion Flower - <i>Passiflora spp.</i> 1 1 1 5 9 11 | |
| Pickerel Weed - <i>Pontederia cordata</i> 4 5 9 | |



Permitting

Regarding permitting issues, the addition of impervious surface will require coordination with the SJRWMD, St. Johns County and potentially the ACOE. A civil engineer should be consulted to assess the options available to treat stormwater runoff if additional impervious surfaces are contemplated.

The ACOE will regulate the addition of fish-friendly structure into the St. Johns River adjacent to the existing pier structure. Depending on the type of structure proposed, these projects are processed through both the Nation Wide Permit (NWP 4) and the Individual Permit (IP) process. The larger the structure proposed, the more likely the request would need to be authorized by the IP process, which is lengthy and more costly than the NWP process. Additionally, the SJRWMD and St. Johns County are also likely to require coordination for this enhancement.

St. Johns County Building Services will need to review and permit the proposed structures. Structures must meet the Southern Building Code and Florida Building Code including applicable ADA and appropriate wind load requirements. In addition, site plan and construction documents will need to be reviewed by St Johns County

Development Services.

Any tree removal that may occur as a result of these improvements should be coordinated with the CMC and must be permitted according to St. Johns County requirements.

Statement of Probable Cost

Construction Costs	\$916,000
---------------------------	------------------

AECOM has no control over the cost of labor, materials, or equipment, the Contractor's method of determining prices or competitive bidding or market conditions. Therefore our statement of probable cost provided herein is made on the basis of experience and represents our best judgment as Landscape Architects familiar with the construction industry. The firm cannot and does not guarantee that proposals, bids, or the construction cost will not vary from our statement of probable cost. If the Owner wishes greater assurances as to the construction cost, we recommend the employment of an independent cost estimator. This estimate only includes construction costs. Design, engineering, and permitting costs are not included.

Next Steps

Shands Pier may provide an excellent opportunity for enhanced fishing by providing fish-friendly aquatic structure along the pier. Similar fishing enhancement projects have been implemented (e.g. Fish Orlando!) in coordination with the Florida Fish and Wildlife Conservation Commission (FWC). Further study by the CMC in coordination with the FWC and St. Johns County should be conducted to determine if an enhancement program is suitable for this area.

In addition, the CMC may want to consider working with St. Johns County to provide monofilament recycling at the pier as part of the FWC's Monofilament Recovery & Recycling Program and encourage the FWC to add Shands Pier to their web-listing of Freshwater Fishing Piers.

Trout Creek Park

Trout Creek Park provides the only public boat launching facilities along the scenic highway and is the first informational stop for the scenic highway traveler arriving from the south. The master plan calls for the basic framework of the existing park to remain the same. Minor improvements are recommended to create a more unified trail system and interpretive displays are proposed that describe the history of the park and the steps that local residents took to acquire the property which was once a major source of pollution to the river as a scallop plant. In addition, northbound travelers will be able to obtain useful information about the scenic highway that will guide their trip through the corridor. The park also currently provides direct access to Trout Creek, a tributary of the St. Johns, and the master plan envisions that Trout Creek Park could provide more direct access to the creek itself as well as provide parking for and access to Jack Wright Island, an acquired property of St. Johns County that is mostly wetlands and could provide direct access to the St. Johns River.





Existing Conditions/Current Uses:

- Existing program elements include:
 - Nature trails
 - Boat ramp
 - Community center (previously scallop plant)
 - Large playground
 - Picnic areas
 - Pavilions
 - Interpretative signs
 - Wildlife habitat structures
- Community center used by Council on Aging (COA)
- Boat ramp serves as only public boat launching access along scenic highway
- Park acts as first resource for northbound travelers
- Park lacks cohesiveness
- Perimeter trail does not feel contiguous and proximity to SR-13 creates visual and audible detraction
- Park in need of land management for control of invasive/exotics plants

The Big Ideas:

- Strengthen architectural integrity between structures (i.e. like colors and materials)
- Strengthen connections to Trout Creek through boardwalk/dock and overlooks

- Connect Jack Wright Island to Trout Creek Park
- Enhance perimeter trail so that walking experience is more unified and enjoyable

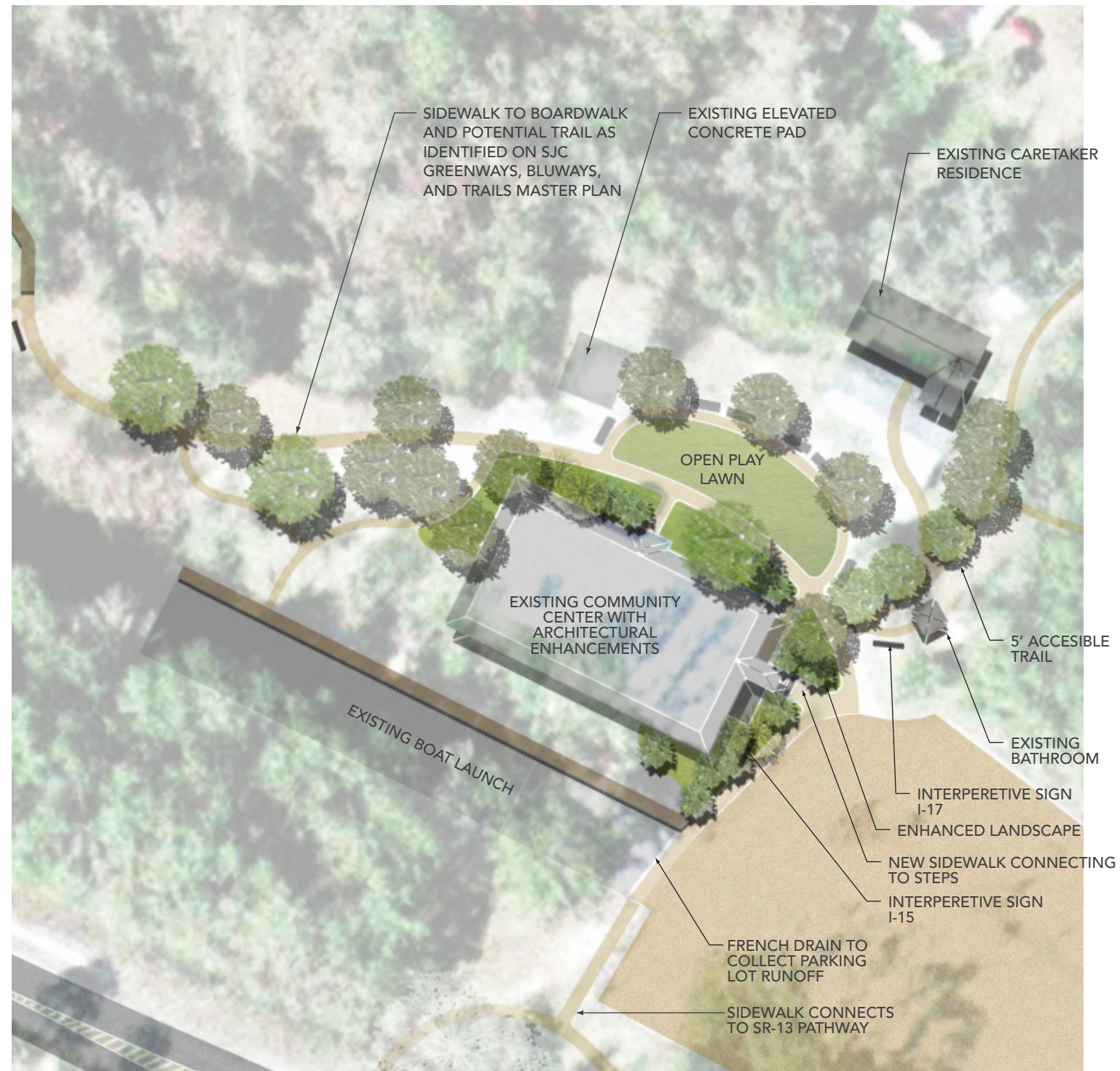
Proposed improvements:

- Incorporation of 7' aggregate pathway along SR-13 into park
- Supplemental buffering along trail and SR-13 to enhance overall park and trail experience
- Sculpture as part of corridor-wide sculpture exhibit
- Interpretive signs
- Trout Creek pedestrian crossing and overlook
- Vehicular pull-off for Trout Creek overlook
- Trout Creek boardwalk and dock
- Architectural enhancements
- Pedestrian refuge island and crossing enhancements for pathway along SR-13 (optional, if feasible)
- New standard St. Johns County park sign at entrance to unify park system



These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Overall Plan



These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.

Plan Enlargement



Site Furnishing Specifications

Bench: Backed Garden Fence, FSC CoC ipe,

Storm Cloud Powdercoat: 24"x35"x67"

Manufacturer: www.landscapeforms.com

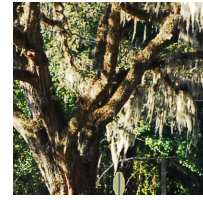
Litter Receptacle: Grass Top Opening,

Storm Cloud Powdercoat

Manufacturer: www.landscapeforms.com



Walls & Site Furnishings



- 1 Vines
- 2 Grasses
- 3 Evergreen

- 4 Aquatic or Water Tolerant
- 5 Flowering
- 6 Attracts Birds

- 7 Attracts Butterflies
- 8 Culturally Significant
- 9 Native

- 10 Fall Color or Winter Interest
- 11 Drought Tolerant
- 12 Poisonous Parts

TROUT CREEK PLANT LIST

TREES

Ash - <i>Fraxinus spp.</i>	9 10	Red Bud - <i>Cercis canadensis</i>	5 9 11
Bald Cypress - <i>Taxodium distichum</i>	8 9 10 11	Sabal Palm - <i>Sabal palmetto</i>	3 8 9 11
Black Gum - <i>Nyssa sylvatica</i>	6 9 10 11	Sweetbay - <i>Magnolia virginiana</i>	3 5 9
Dogwood - <i>Cornus florida</i>	5 6 9 10	Sweetgum - <i>Liquidambar styraciflua</i>	4 9 10
Live Oak - <i>Quercus virginiana</i>	3 8 9	Turkey Oak - <i>Quercus laevis</i>	9 10 11
Mockernut Hickory - <i>Carya tomentosa</i>	9 10 11	Water Oak - <i>Quercus nigra</i>	9
Pignut Hickory - <i>Carya glabra</i>	9 10 11		

UNDERSTORY

Azalea spp.	3 5 8 9	Oakleaf Hydrangea - <i>Hydrangea quercifolia</i>	5 9 10
Beautyberry - <i>Callicarpa americana</i>	6 9 11	Saw Palmetto - <i>Serenoa repens</i>	3 6 9 11
Blazing Star - <i>Liatris spp</i>	5 7 8 9 11	Schilling's Dwarf Holly - <i>Ilex vomitoria 'Schilling's Dwarf'</i>	3 11 12
Blueflag Iris - <i>Iris virginica</i>	4 5 9	Star Magnolia - <i>Magnolia stellata</i>	5 8
Bougainvillea spp.	1 3 5 11	Sweet Viburnum - <i>Viburnum odoratissimum</i>	3 5 6 11
Boxwood - <i>Buxus microphylla</i>	3 8	Tea Olive - <i>Osmanthus fragrans</i>	3 5 8
Confederate Jasmine - <i>Trachelospermum jasminoides</i>	1 3 5 8	Walter's Viburnum - <i>Viburnum obovatum</i>	3 5 6 9 11
Cordgrass - <i>Spartina bakerii</i>	2 4 9 11	Wax Myrtle - <i>Myrica cerifera</i>	3 6 8 9 11
Elliot's Lovegrass - <i>Eragrostis elliotii</i>	2 9 11	Yaupon Holly - <i>Ilex vomitoria</i>	3 8 9 11 12
Fakahatchee Grass - <i>Tripsacum dactyloides</i>	2 9 11		
Ferns spp.	3 9		
Florida Tickseed - <i>Coreopsis floridanum</i>	5 6 7 9		
Gallberry - <i>Ilex glabra</i>	3 6 9		
Indian Hawthorn - <i>Rhaphiolepis indica</i>	3 5 6		
Muhly Grass - <i>Muhlenbergia capillaris</i>	2 5 9 11		



Permitting

Regarding permitting issues associated with improvements made to the park, coordination with the St. Johns River Water Management District (SJRWMD), St. Johns County, and potentially the Army Corps of Engineers (ACOE) would be necessary for any addition of impervious surface.

In addition, there are wetlands on site; therefore, the extent of wetland jurisdiction needs to be determined prior to the implementation of improvements beyond the existing built environs. Encroachments into the extent of wetland jurisdiction will require permit coordination with the SJRWMD, SJC, and potentially the ACOE. In addition, there is habitat suitable for occupation by the state listed gopher tortoise (*Gopherus polyphemus*) within the park. Formal surveys for this species were not conducted and no burrows were observed during our cursory site review. However, a detailed survey should be conducted during the formal design and permitting phase of any proposed improvements in upland areas. Coordination with the FDOT will be required for improvements within the SR 13 right-of-way.

St. Johns County Building Services will need to review and permit the proposed structures. Structures must

meet the Southern Building Code and Florida Building Code including applicable ADA and appropriate wind load requirements.

Any tree removal that may occur as a result of these improvements should be coordinated with the CMC and must be permitted according to St. Johns County requirements.

Next Steps

The CMC may want to consider working with St. Johns County to provide monofilament recycling at the dock as part of the FWC’s Monofilament Recovery & Recycling Program.

Statement of Probable Cost

Construction Costs	\$525,000
---------------------------	------------------

AECOM has no control over the cost of labor, materials, or equipment, the Contractor’s method of determining prices or competitive bidding or market conditions. Therefore our statement of probable cost provided herein is made on the basis of experience and represents our best judgment as Landscape Architects familiar with the construction industry. The firm cannot and does not guarantee that proposals, bids, or the construction cost will not vary from our statement of probable cost. If the Owner wishes greater assurances as to the construction cost, we recommend the employment of an independent cost estimator. This estimate only includes construction costs. Design, engineering, and permitting costs are not included.



Additional Parks & Resources

The following sub-section provides design recommendations for a variety of projects identified throughout the master planning process. These ideas strengthen and enhance the corridor vision and story; however, they are preliminary ideas and will require more in-depth study.



Jack Wright Island



Existing Conditions/Current Uses

- Current St. Johns County Acquisition
- Predominately wetlands
- No recreational facilities are currently provided
- Property is directly adjacent to St. Johns River

The Big Ideas

- Connect Jack Wright Island to Trout Creek Park with pedestrian system
- Add boardwalk through wetlands to St. Johns River

Permitting

Further study and review will need to be done regarding permitting; however, encroachments into the extent of wetland jurisdiction will require permit coordination with the SJRWMD, SJC, and potentially the ACOE.

Statement of Probable Cost

Further study will need to be done to determine costs for implementation.

New Shands Bridge Park



Existing Conditions/Current Uses

- Current Right-of-Way for Existing Shands Bridge
- When planned future Outer Beltway is complete and the old bridge and roadway is demolished, the remaining right-of-way may be available to the County for a park.
- A portion of the bridge may also be left in place as a potential pier; however, a detailed analysis of the integrity of the structure would need to be performed to determine if the long-term maintenance costs could be sustained by the County.
- The right-of-way adjacent to existing bridge is currently being used for fishing

The Big Ideas

- Create a riverfront park that provides for fishing and other park uses

Potential Improvements

- Fishing (with fish attractors)
- River-viewing
- Picnic Pavilions (potentially with grills)
- Canoe/Kayak Launch
- Free Play Area
- Interpretation

- Bicycle Facilities (e.g. parking and air)
- Restroom Facilities

Permitting

Further study and review will need to be done regarding permitting; however, the addition of impervious surface will require coordination with the SJRWMD, St. Johns County and potentially the ACOE. A civil engineer should be consulted to assess the options available to treat stormwater runoff.

The ACOE will regulate the addition of fish-friendly structure into the St. Johns River adjacent to the existing pier structure. Depending on the type of structure proposed, these projects are processed through both the Nation Wide Permit (NWP 4) and the Individual Permit (IP) process. The larger the structure proposed, the more likely the request would need to be authorized by the IP process, which is lengthy and more costly than the NWP process. Additionally, the SJRWMD and St. Johns County are also likely to require coordination for this enhancement.

Statement of Probable Cost

Further study will need to be done to determine costs for implementation.

Outer Beltway Flyover



Existing Conditions/Current Uses

- Current configuration of SR-13/SR-16 intersection creates a five acre triangular parcel within the center of the adjoining roadways.
- Preliminary studies for Outer Beltway show a flyover for the beltway that spans the entire triangular parcel

The Big Ideas

- Create context sensitive solution for flyover that reduces visual impact of flyover
- Reconfigure and roadway intersection to minimize flyover span requirements
- Convert remainder of triangular space into scenic highway park/informational stop for southern portion of scenic highway.
- Potential rural roundabout to calm traffic and provide safer crossing for pedestrians to New Shands Bridge Park and scenic highway informational stop.

Flyover Principles

- Reduce span of flyover using bermed overpasses that can be heavily landscaped rather than “open-air” bridged flyover.
- Use colors and materials for flyover that blend with existing character of scenic highway.
- Incorporate custom precast pieces and potential art work that make flyover unique to area

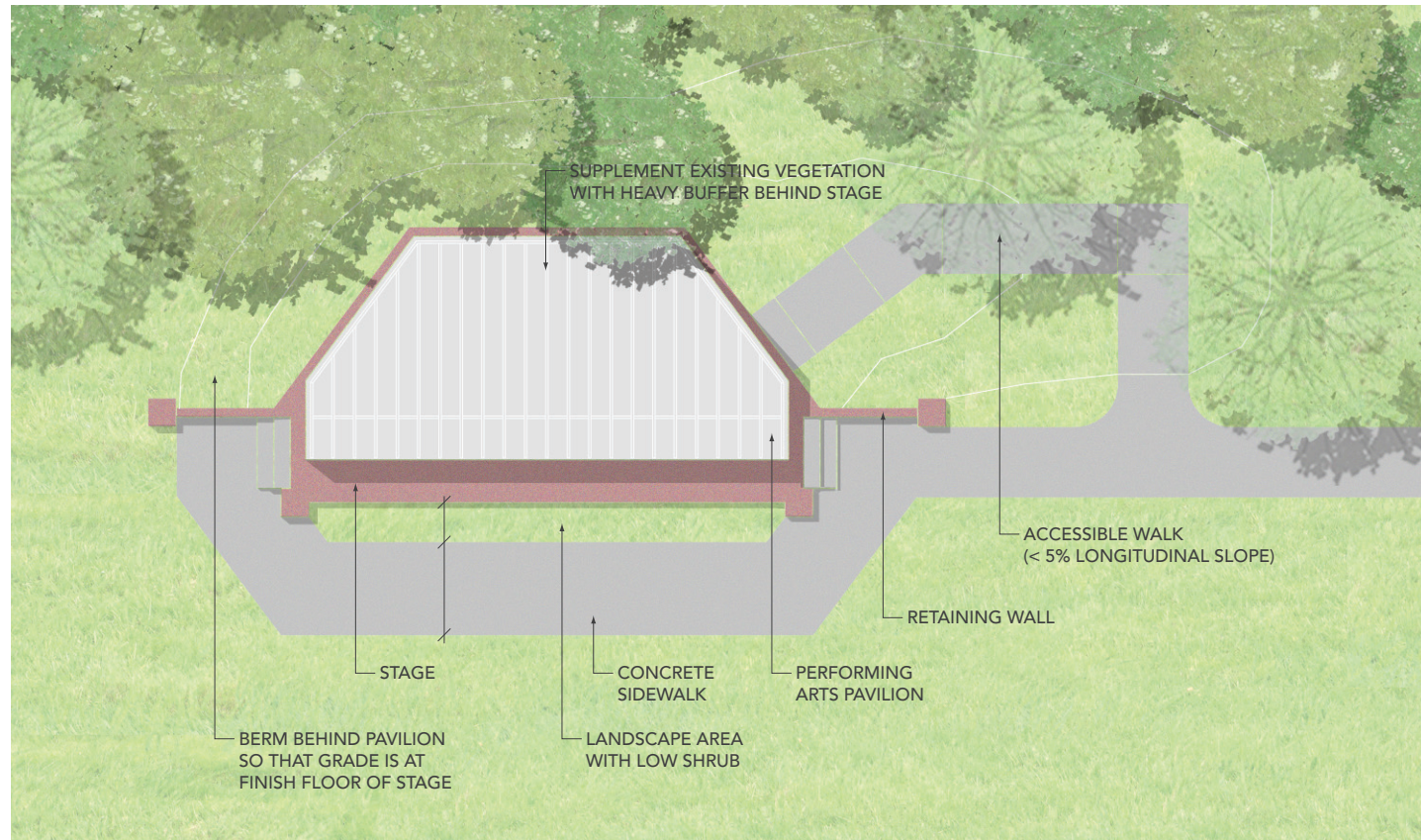
Permitting

Further study and review will need to be done regarding permitting; however, the addition of impervious surface will require coordination with the SJRWMD and St. Johns County. Parcel should be evaluated for the potential to provide suitable habitat for listed species prior to plan development. Coordination with FDOT will be required for improvements.

Statement of Probable Cost

Further study will need to be done to determine costs for implementation; however, reduction in spans could potentially reduce costs and/or fund landscape.

Performing Arts Pavilion

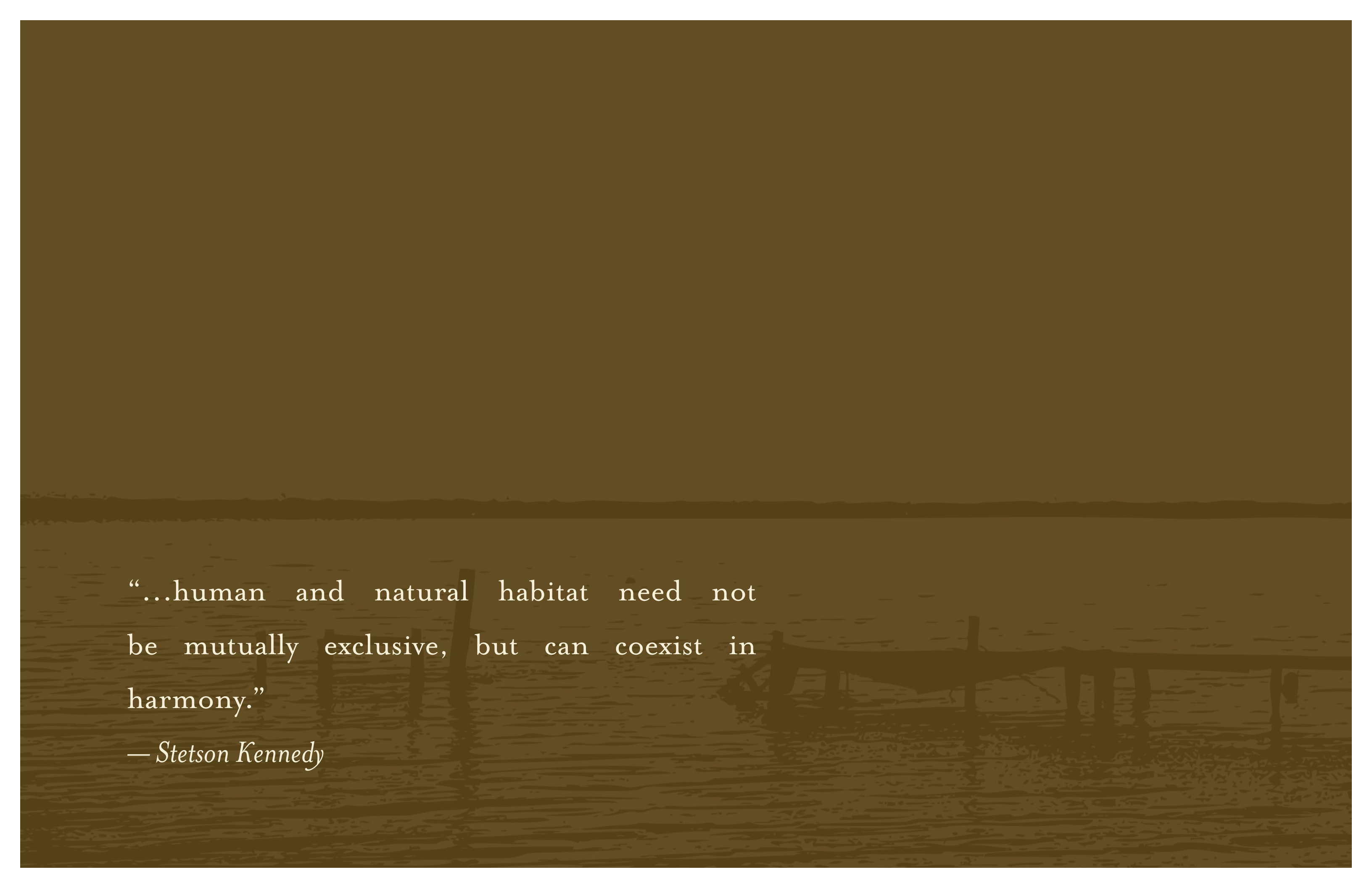


The performing arts pavilion is a concept inspired by the need for a performance structure for events such as the Bartram Bash held annually at Alpine Groves. This structure is intended to be multi-functional; it can be used for performances, concerts, and other outdoor events requiring a stage and can function as a picnic pavilion structure at other times. The aesthetic was inspired by the rustic outbuildings located on the Alpine Groves property. While the management plan for

Alpine Groves does allow for this type of structure to be built within the park, it is included in the master plan in hopes that a more appropriate location can be found for this structure and the need for an outdoor performance space can be fulfilled.



These drawings are provided for design intent only and are not for construction. No engineering review, structural or otherwise, has been performed. As such, they are subject to modification pending environmental and engineering considerations and agency review.



“...human and natural habitat need not
be mutually exclusive, but can coexist in
harmony.”

— *Stetson Kennedy*