

MARTIN COUNTY, FLORIDA

PRESERVE AREA MANAGEMENT PLAN

For:

**TREASURE COAST CLASSICAL
ACADEMY**

Prepared by:
SASKOWSKY & ASSOCIATES, INC.
Ecological Consultants
Stuart, Florida
December 2018

Approved by/Date : _____

A Preserve Area Management Plan (PAMP) is required of all applicants for development approval on sites which contain wetland or upland preserve areas, pursuant to provisions of Section 4.36.A.1 of the Martin County Land Development Regulations, Martin County Code.

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1.0 GENERAL

The owner(s) of the lands to be preserved/maintained by this Preserve Area Management Plan (PAMP) and the developer(s) of **TREASURE COAST CLASSICAL ACADEMY** located at **1400 S.E. Cove Road**, their successors and assigns, and their environmental consultants and contractors, will implement and comply with all portions of this PAMP.

Compliance with the terms of this PAMP includes submittal of all Monthly Monitoring Reports on PAMP compliance throughout all phases of project construction and submittal of all Annual Monitoring Reports following completion of project construction, pursuant to Section 10.17 of the Martin County Land Development Regulations. The owner(s) of the lands to be preserved/maintained shall have ultimate responsibility for the submittal of all Monthly and Annual Monitoring Reports, according to the format and schedule requirements of Section 10 of this PAMP.

As noted in Section 9 of this PAMP, the Martin County Environmental Planning Administrator shall be notified in writing within thirty (30) days of transfer of ownership of any lands to be preserved/maintained under the terms of this PAMP. Failure to notify shall be considered as non-compliance with the terms of this PAMP.

This PAMP will not be altered or amended by either Martin County or the owner/developer of **TREASURE COAST CLASSICAL ACADEMY**, except by an alteration or amendment agreed to by both the Martin County Environmental Planning Administrator and the owner/developer of **TREASURE COAST CLASSICAL ACADEMY**. Such alterations and amendments shall be inserted into the PAMP and the final revised document shall be recorded by the Martin County Clerk of Courts. The revised PAMP will be labeled with the appropriate O.R. Book and Page Number. Three copies of the revised document shall be provided to the Martin County Environmental Planning Administrator within thirty (30) days of the Recording date.

2.0 ENVIRONMENTAL ASSESSMENT

The Environmental Assessment includes maps and text which accurately depict the site's location, soils, wetlands, uplands, listed species, previous impacts, preserve area locations and boundaries, and any other significant environmental features.

2.1 Location- The +/-14.22-acre site is located on Cove Rd, Martin County, Florida (Sec.34, T38S, R41E).

2.2 Soils- The following soils were found to be present on the site;

#4-Waveland sand- This soil is poorly drained and found in broad areas of flatwoods. Under natural conditions, the water table is less than ten inches for two to four months during the wet season and within a depth of forty inches during the dry season. (Source: Soil Survey of Martin County Area, Florida)

2.3 Habitats - The following habitats were found to be present on the site;

Wetland Habitats-Two wetlands are located on the property. Wetland #1 (0.7ac), Florida Natural Areas Inventory (FNAI) #2121-Isolated Freshwater Marsh. Dominant vegetation includes maidencane (*Panicum hemitomon*), St. John's wort (*Hypericum fasciculatum*), Swamp fern (*Blechnum serrulatum*), Beak rush (*Rhynchospora* spp.), Spatterdock (*Nuphar luteum*), and a variety of native grasses, sedges, broadleaf emergents, and floating aquatics.

Wetland #2 (0.56ac), FNAI #2111-Wet Prairie. Dominant vegetation includes Blue maidencane (*Amphicarpum muhlenbergianum*), St. John's wort (*Hypericum fasciculatum*), Swamp fern (*Blechnum serrulatum*), Beak rush (*Rhynchospora* spp.), and a variety of native grasses and sedges.

The South Florida Water Management District has reviewed and approved the wetland delineation.

Upland Habitat- The project site's upland habitat consists of typical pine flatwoods, FNAI #1311-Mesic Flatwoods, and is classified as common native upland habitat (12.96 acres). Dominant vegetation includes saw palmetto (*Serenoa repens*), slash pine (*Pinus elliottii* var. *densa*), wax myrtle (*Myrica cerifera*), and native vegetation species normally associated with pine flatwoods.

Exotic Vegetation - Melaleuca (*Melaleuca quinquenervia* FNAI #72) was observed in Wetland #1. Other invasive exotics and nuisance vegetation includes Brazilian pepper (*Schinus terebinthifolius* FNAI #73), Ear-leaf acacia (*Acacia auriculiformis*), old world climbing fern (*Lygodium microphyllum*), wedelia (*Wedelia trilobata*), and numerous species of ruderal and nuisance weeds.

2.4 Protected Species- The following is a list of rare, endangered, threatened, or species of special concern, of both flora and fauna, with the potential to be found on the subject property (based on the Florida Fish and Wildlife Conservation Commission list):

FLORA: None

FAUNA:

Fish: None

Amphibians:

Gopher frog (*Lithobates capito*) SSC; Not observed (Because of habitat destruction, the gopher frog is very rare in its traditional southern range.

Reptiles:

Gopher tortoise (*Gopherus polyphemus*) ST

Florida pine snake (*Pituophis melanoleucus mugitus*) SSC
Eastern indigo snake (*Drymarchon corais couperi*) FT

Birds:

Little blue heron (*Egretta caerulea*) SSC
Snowy egret (*Egretta thula*) SSC
White ibis (*Eudocimus albus*) SSC
Wood stork (*Mycteria americana*) FE
Florida sandhill crane (*Grus canadensis praetensis*) ST

Mammals: None

FT-Federally threatened ST- State threatened SSC-Species of special concern

A protected species survey (gopher tortoise survey) was conducted on the property in accordance with the scientific methodologies outlined in *Wildlife Methodology Guidelines* and in *Ecology & Habitat Protection Needs of Gopher Tortoise Populations Found on Lands Slated for Development in Florida* published by the Florida Wildlife Commission (FWC). Also utilized was *Procedures for Conducting Accurate Burrow Surveys* published by Ashton Biodiversity Research and Preservation Institute. There were no gopher tortoise burrows found on the subject site.

2.5 Previous Impacts - The site appears to be in good condition with minimal impacts to the upland and wetland habitats. There is evidence of off-road vehicular use near and in Wetland #1. A few debris piles were observed along the eastern property line.

2.6 Agency Correspondence – A copy of the jurisdictional determination and approval from the South Florida Water Management District (SFWMD) is provided in the Appendix.

3.0 IDENTIFICATION OF PRESERVE AREAS

3.1 Site Plan - All Preserve Areas, rights-of-way, and easements are shown on the **TREASURE COAST CLASSICAL ACADEMY** Site Plan, a copy of which is included in this PAMP. The Site Plan includes a summary of the following: acreage of wetlands under preservation; acreage of native upland habitat under preservation; acreage of common upland habitat under preservation; total acreage under preservation; and total acreage of the Site. The Site Plan will contain the notation: **"PRESERVE AREAS ARE NOT TO BE ALTERED WITHOUT WRITTEN PERMISSION OF THE MARTIN COUNTY BOARD OF COUNTY COMMISSIONERS."**

3.2 Legal Recording - The final **TREASURE COAST CLASSICAL ACADEMY** Site Plan will be recorded with the PAMP by the Martin County Clerk of Courts. The Site Plan and the PAMP will be labeled with the appropriate O.R. Book and Page Number and

copies of each recorded document will be provided to the Martin County Environmental Planning Administrator within thirty (30) days of the Recording date.

4.0 SURVEYING, MARKING AND BARRICADING REQUIREMENTS

All Preserve Areas shown on the Site Plan for **TREASURE COAST CLASSICAL ACADEMY** will be surveyed and marked in the field with appropriate survey markers and signage. During the clearing and construction phases of the project, Preserve Area boundaries will be marked by physical barriers. No plant material will be removed from the Preserve Areas to facilitate surveying, fencing or soil boring/sampling without prior permission from the Martin County Environmental Planning Administrator.

4.1 Preserve Area Surveying Requirements – Each Preserve Area will be surveyed and marked with permanent monuments at each corner and at other sites necessary for locating the boundary of the Preserve Area. These permanent monuments will be constructed under the supervision of a Registered Land Surveyor and will be shown on the Site Plan. Map coordinates of each Preserve Area will be provided to the Martin County Environmental Planning Administrator, in a form compatible for use in the County's GIS mapping system.

4.2 Preserve Area Boundary Markers and Signs - Preserve Areas will be posted with permanent signs and boundary markers. Boundary Markers will be placed at the corners of residential lots abutting Preserve Areas. Signs will be at least 11 x 14 inches in size and will be posted in conspicuous locations along the Preserve Area boundary, at a frequency of no less than one (1) sign per 500 feet. All boundary markers and signs will be approved by the Martin County Environmental Planning Administrator and they will be in place prior to issuance of a building permit for construction on the site. Illustrations of the signs and markers to be used for this project are included as an Appendix to this PAMP.

4.3 Barricading Requirements - Prior to clearing, the developer will ensure that all Preserve Areas are protected with physical barriers during all clearing and construction activities in accordance with the following guidelines. Barricades will be inspected by County Environmental Division staff prior to work approval. Removal of the barricade materials will be done upon issuance of the final Certificate of Occupancy with authorization from appropriate County staff.

Barricades will be high-visibility orange safety fence extending from the ground to a height of at least 4 feet. Barricades will not be attached to vegetation.

All barricades and turbidity screens will be upright and maintained intact for the duration of construction.

Where areas are proposed for clearing (i.e. building envelope, utilities, drainage, road right-of-way, etc.) the bright orange barricades will be offset at least 10 feet outside the Preserve Area or placed at the drip-line of the canopy trees, whichever is greater.

All native vegetation not slated for removal as part of the development plans will be retained in their undisturbed state and will be barricaded at or outside the drip-line of the trees.

Cut or fill will meet existing grade without encroaching into Preserve Areas.

Wetlands will be protected from possible surface water and sediment runoff by the placement of silt screens, hay bales or other turbidity control measures, at or beyond the delineation line prior to any land clearing or construction.

It is the responsibility of the owner and developer of **TREASURE COAST CLASSICAL ACADEMY** to inform all contractors of these Marking and Barricading Requirements. Failure to comply with these Marking and Barricading Requirements will be considered a violation of the Site Plan approval. Further work on the project may be stopped until compliance with the Marking and Barricading Requirements is achieved, and the owner or developer may be required to appear before the Code Enforcement Board.

5.0 USE OF PRESERVE AREAS

5.1 Activities Allowed in Preserve Areas - Property owners are encouraged to enjoy the natural beauty of their Preserve Areas. Although development of Preserve Areas is not allowed, passive uses, such as bird-watching and other non-destructive uses of natural areas are encouraged, as long as they do not affect the hydrology or vegetative cover of a Preserve Area.

5.2 Activities Prohibited in Preserve Areas - Activities prohibited in Preserve Areas or easements within Preserve Areas include, but are not limited to: construction or placing of building materials on or above the ground; dumping or placing soil or other substances such as garbage, trash, and cuttings; removal or destruction of native trees, shrubs or other native vegetation; excavation, dredging or removal of soil materials; diking or fencing; vehicular traffic including use by non-motorized vehicles, recreational vehicles and off-road vehicles; permanent irrigation; trimming, pruning, or fertilization; and any other activities detrimental to drainage, flood control, water conservation, erosion control or fish and wildlife conservation and preservation.

No hazardous material other than fuel for refueling on-site heavy equipment will be stored during the construction phases. On-site fuel tanks shall not be located within twenty-five (25) feet of any Preserve Areas and shall be removed upon completion of construction work.

Buildings proposed to be located adjacent to Preserve Areas shall be set back a minimum of ten (10) feet to allow for construction and maintenance without encroaching into the Preserve Area. All other structures (e.g. pools, sheds, decks, fences) shall be set back a minimum of five (5) feet from the Preserve Area boundary.

Development activities such as the construction of building pads for associated structures, swales, or culverts for surface water management shall not alter the hydrology of adjacent Preserve Areas. Nor shall any activities increase non-point source pollution in Preserve Areas.

Grazing of cattle and horses or other livestock in Preserve Areas, while not prohibited, is discouraged. Over-grazing can result in destruction of habitat, loss of top soils and changes in hydrology of the area as a result of the loss of ground cover material, increased fertilization from animal droppings, and contamination of surface waters. These and other effects of over-grazing will be considered violations of this PAMP and will be addressed as any other PAMP violation.

6.0 RESTORATION AND MAINTENANCE ACTIVITIES

Except for approved restoration and maintenance activities, Preserve Areas will be left undisturbed. All maintenance of Preserve Areas will be in accordance with this PAMP for **TREASURE COAST CLASSICAL ACADEMY**. Maintenance and management activities will be performed by or under the supervision of a qualified environmental professional and must be approved by the Martin County Environmental Planning Administrator. The following restoration and maintenance activities may be allowed within Preserve Areas with prior written approval from the Environmental Planning Administrator: exotic plant removal, re-vegetation or planting native vegetation, and removal of dead, diseased, or safety hazard plant material.

6.1 Exotic Vegetation Removal –Exotic vegetation shall be removed from Preserve Areas by the least ecologically-damaging method available. Such methods include hand pulling, hand spading, cutting with hand or chain saws and in-situ treatment with appropriate herbicides. No debris, including dead plants, plant clippings or wood scraps, shall be allowed in Preserve Areas. In addition, all dead plant material and exotic plant debris removed from Preserve Areas shall be disposed of in a County-approved recycling facility.

6.2 Re-vegetation - Any re-vegetation which might be necessary as a result of exotic vegetation removal or site construction activities shall consist of native plant species representative of the existing native plant community. This will ensure that the Preserve Areas maintain indigenous plant associations. Re-vegetation plans shall be submitted to the Martin County Environmental Planning Administrator for approval prior to implementation.

6.3 Vegetation Removal - Dead or diseased plant material shall be removed from Preserve Areas upon approval by the Martin County Environmental Planning Administrator. Re-vegetation may be required for any removed plant material. No debris, including

dead plants, plant clippings or wood scraps, shall be allowed in Preserve Areas. All dead plant material and debris removed from Preserve Areas shall be disposed of in a County-approved recycling facility.

6.4 Prescribed Burns - Martin County considers prescribed burns an acceptable habitat management tool. When approved by the Martin County Environmental Planning Administrator, they will be conducted by a certified burn manager who will be responsible for obtaining all appropriate permits from State and local agencies.

6.5 Hydrology - Previous or potential drainage impacts will be corrected to the extent technically feasible. Water quality and the rate, timing, and volume of run-off shall recreate natural conditions for the benefit of onsite wetlands and other water-bodies. Wetlands and water-bodies on adjacent properties shall be protected from adverse impacts.

7.0 PROTECTIVE MEASURES FOR LISTED SPECIES

There were no protected species observed on the subject property.

8.0 MISCELLANEOUS PROVISIONS AND RESTRICTIONS

All exotic vegetation is required to be removed from Preserve Areas (wetlands, wetland buffers, upland). Exotic vegetation species required to be removed are listed in the Florida Pest Plant Council (FLEPPC) Category 1. Exotic vegetation shall be removed from Preserve Areas by the least ecologically-damaging method available. Such methods include hand pulling, hand spading, cutting with hand or chain saws and in-situ treatment with appropriate herbicides.

Wetland #1 has an area of *Melaleuca* that will be cut down and removed from the site. Stumps will be treated with an appropriate herbicide. A portion of Wetland #2 contains old world climbing fern (*Lygodium microphyllum*) that will be treated with an appropriate herbicide. Remnants of the fern will be removed from the site. In addition, all Category 1 and 2 exotic species (as designated by the Exotic Pest Plant Council of Florida) will be removed from the wetlands, wetland buffers, and designated upland preserve areas. Natural recruitment of desirable native wetland species will be allowed to occur in the wetlands after the removal of invasive exotic vegetation.

9.0 TRANSFER OF RESPONSIBILITIES

The property owner(s) and developers of **TREASURE COAST CLASSICAL ACADEMY** are responsible for implementation of all requirements of this Preserve Area Management Plan until such time as the developer transfers responsibility to the owners or a successor. The Martin County Environmental Planning Administrator will be notified in writing within thirty (30) days of transfer of ownership of any lands to be preserved under this PAMP. Failure to notify will be

considered as non-compliance with the terms of this PAMP. The developer will pay his share of total cost of management activities or fines on a per lot basis if he retains ownership of lots. At such time as the developer is ready to transfer control of **TREASURE COAST CLASSICAL ACADEMY** to the property owners, whether the developer retains ownership of the lots in the project or not, an environmental professional shall certify, in writing, to the Martin County Environmental Planning Administrator, that the Preserve Areas are in full compliance with this PAMP.

The developer and/or successor will be responsible for maintaining the Preserve Areas in their existing natural condition with the periodic removal of invasive exotic vegetation. After transfer of responsibilities, funding for all maintenance and management programs will be the responsibility of all successors.

10.0 MONITORING, REPORTING AND INSPECTIONS

Annual monitoring reports will be submitted to the SFWMD in compliance with the provisions of the Environmental Resource Permit issued for this project. Annual monitoring reports will be required for a period of five years from the date of issuance of the ERP. The Environmental Planning Division of the Martin County Growth Management Department will receive a copy of all wetlands monitoring reports submitted to SFWMD.

10.1 Monthly Construction Reports – During construction of **TREASURE COAST CLASSICAL ACADEMY**, the developer will be responsible for submitting a monthly report on the progress of **TREASURE COAST CLASSICAL ACADEMY**, which will address all aspects of the site construction relative to the Preserve Areas. Information regarding construction and maintenance of the Preserve Areas, such as placement of barriers and signage, removal of exotic vegetation, re-vegetation, prescribed burns, etc. will be described and supported with photographs, where appropriate.

10.2 Annual Monitoring Reports - Monitoring and reporting will be conducted annually by a qualified environmental professional for a period of five years from the date of completion of the project or project phase encompassing the monitored area. Annual monitoring will be conducted at the end of the wet season (usually by November 30) and a report of the monitoring will be submitted to the Martin County Environmental Planning Administrator within 30 days of the completion of the monitoring.

The Annual Monitoring Reports will document changes in vegetation including encroachment and/or overgrowth of noxious or exotic vegetation. Fixed-point panoramic photos of all Preserve Areas will be included in each report. The reports will include recommendations for exotic vegetation removal, re-vegetation, and any additional enhancement activities necessary to maintain the Preserve Area. A timetable for action within 90 days of the report will be prepared and followed.

A copy of the proposed Annual Monitoring Report format is attached to this PAMP as an Appendix. This format may be modified separately from the PAMP, as necessary, upon written approval from the Martin County Environmental Planning Administrator.

Upon request, Martin County Environmental Planning staff may meet with the responsible parties to review the annual monitoring report findings and supply technical assistance and support for stewardship.

The first Annual Monitoring Report due in compliance with this PAMP will be submitted to the Martin County Environmental Planning Administrator at the end of the wet season following issuance of a Certificate of Occupancy for development described herein. Subsequent Annual Monitoring Reports will be due on the same date for the next four years.

After the initial five-year monitoring period, the Preserve Areas may be subject to periodic review and, if conditions warrant, will be subject to further monitoring and maintenance to ensure environmental integrity, consistent with the provisions of this Plan.

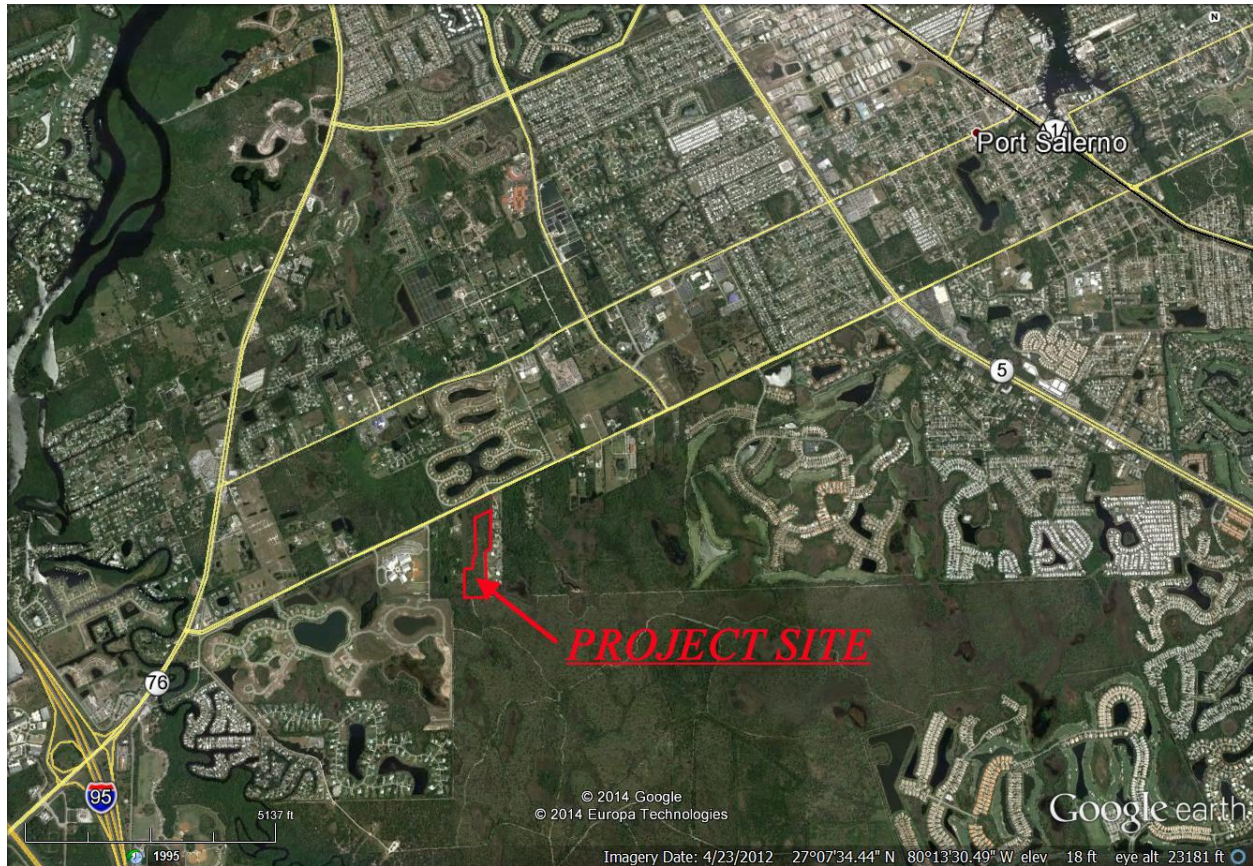
10.3 Inspections - Martin County is authorized to inspect any County regulated site or appurtenance. Duly authorized representatives of Martin County may, at any time, upon presenting proper identification, enter upon and shall be given access to any premises for the purpose of such inspection.

11.0 ENFORCEMENT

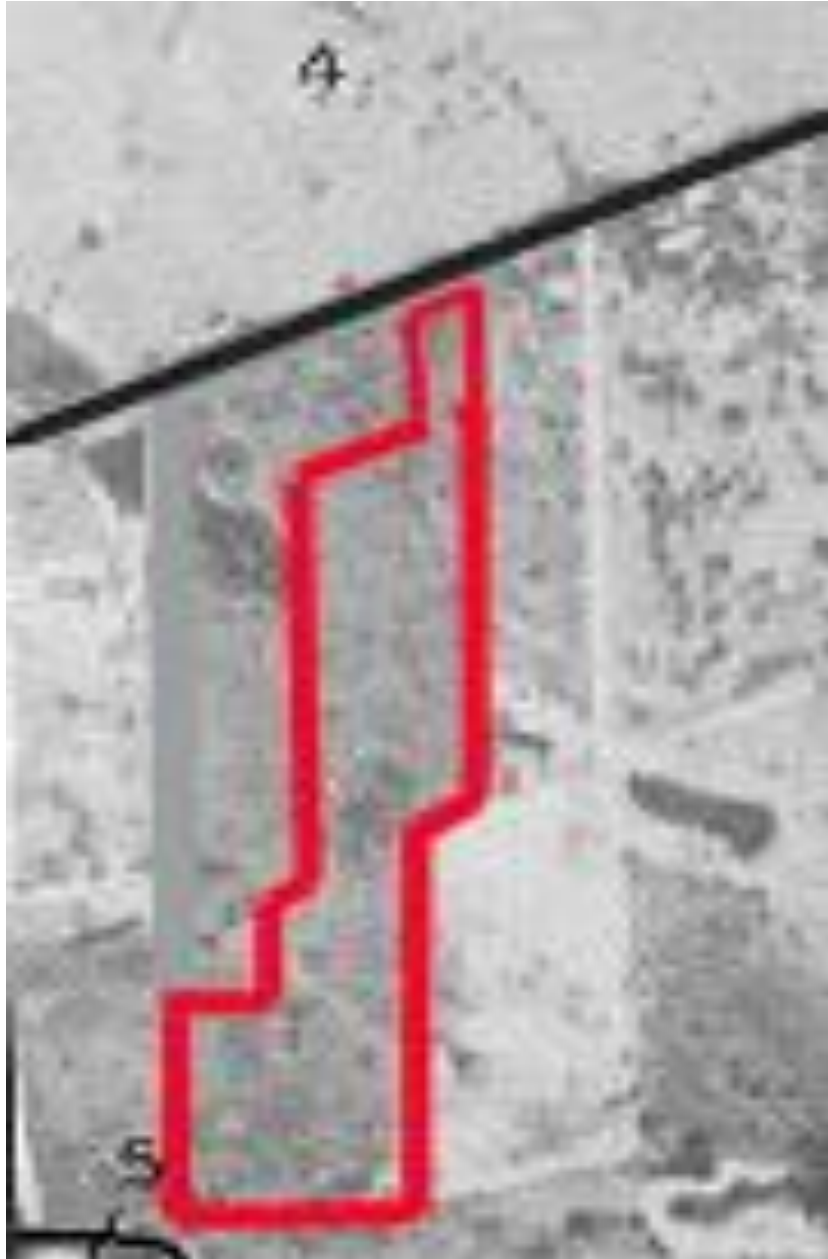
Martin County shall have the right to enforce the provisions of this PAMP through any available administrative or civil proceeding, which may result in penalties. Restoration of habitat and other remedies, such as fines and fees covering staff time, may be required of any person, corporation or other entity found in violation of any of the provisions of this PAMP or of Article 10 of the Martin County Land Development Regulations.

MAPS & AERIALS

LOCATION MAP
TREASURE COAST CLASSICAL ACADEMY



**SOILS MAP
TREASURE COAST CLASSICAL ACADEMY**



**#4 – Waveland sand
(Source: Soil Survey of Martin County Area, Florida)**

HABITATS AERIAL
(Wetlands, Uplands, FLUCCS)
TREASURE COAST CLASSICAL ACADEMY



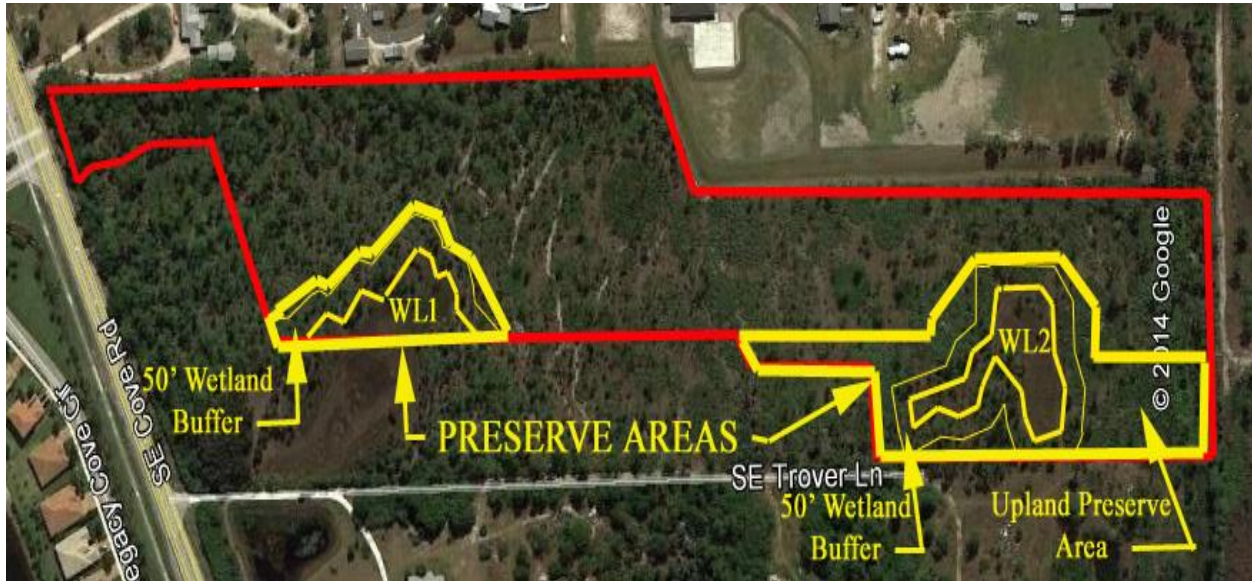
Wetlands #1 and #2 have been reviewed and approved by the South Florida Water Management District.

Total Site: 14.22 acres

Wetlands: 1.26 acres

Native Upland Habitat: 12.96 acres

**PRESERVE AREAS MAP
TREASURE COAST CLASSICAL ACADEMY**



Total Site: 14.22 acres

Wetlands: 1.26 acres

Native Upland Habitat: 12.96 acres (common native upland habitat)

Wetland Preserve Provided: 1.26 acres

Wetland Buffer Provided: 1.99 acres

Upland Preserve Required: 3.24 acres (25% of 12.96 acres)

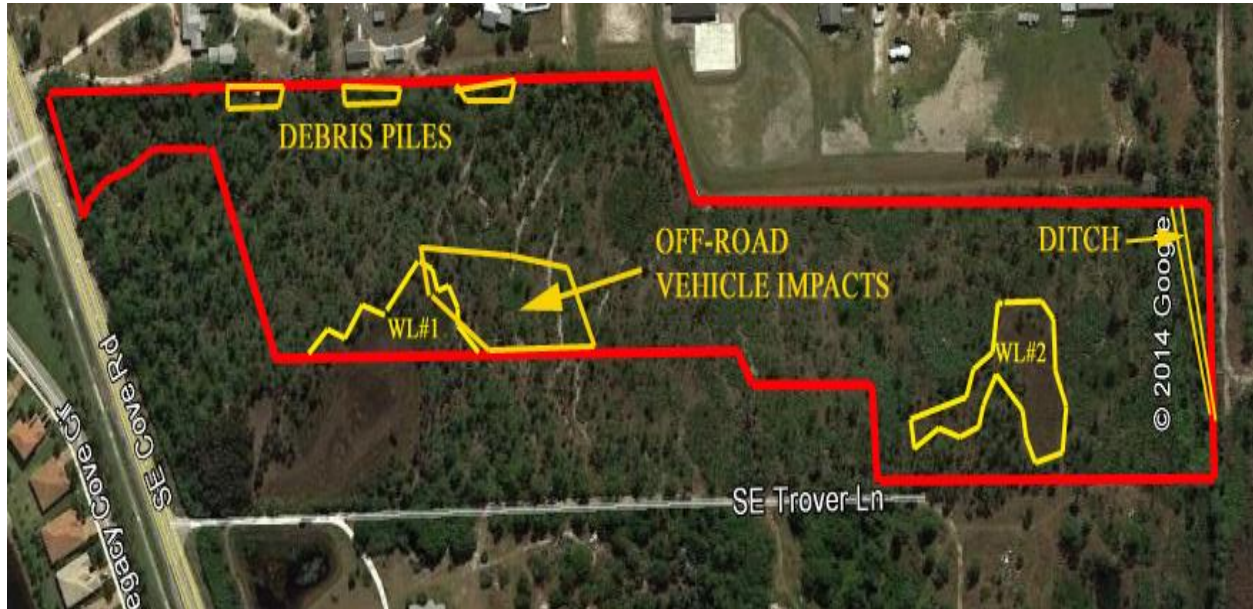
Upland Preserve Provided (including Wetland buffers): 3.24 acres (25%)

**PROTECTED SPECIES AERIAL
TREASURE COAST CLASSICAL ACADEMY**



Location of pedestrian transects used for gopher tortoise survey and listed species survey.

**PREVIOUS IMPACTS AERIAL
TREASURE COAST CLASSICAL ACADEMY**



**HISTORICAL AERIAL 1970
TREASURE COAST CLASSICAL ACADEMY**



APPENDICES



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Regulation Division

August 13, 2014

Mr. Jeremy LeMaster
Medalist Building Group
P.O. Box 1067
Palm City, Florida 34991

**Subject: Application No. 140724-15 1400 SE Cove Road
Martin County, S34/T38S/R41E**

Dear Mr. LeMaster:

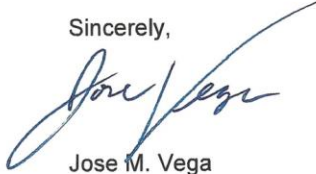
The District offers the following in response to your request for a determination of wetland boundaries located within the subject property. A site visit was conducted by District staff on August 6, 2014. Based on the site visit, and other site-specific information, this site contains wetlands as defined by Chapter 62-340 Florida Administrative Code (FAC). The approximate project boundaries are identified on the attached aerial photograph. The area considered wetlands are outlined in yellow.

This correspondence is an informal wetland determination pursuant to Chapter 373, Florida Statutes. It does not bind the District, its agents or employees, nor does it convey any legal rights, expressed or implied. Persons obtaining this informal wetland determination are not entitled to rely upon it for purposes of compliance with provision of law or District rules. A binding wetland determination may be obtained by petitioning the South Florida Water Management District for a wetland declaratory statement pursuant to FAC Rule 62-340 or by applying for an Environmental Resource permit.

The identified wetlands and, potentially other areas of the property not jurisdictional under State rules, may be wetlands and/or other waters of the United States under federal rules. Dredging or filling in such areas may require a Department of Army (DA) permit. Receipt of a state or local government permit does not obviate the need to obtain a DA permit prior to commencing work. For more information about the DA Regulatory Program, you may access the Corps' website at: www.saj.usace.army.mil/permit/index.html. You may also contact the local Corps regulatory office for additional information, at one of the following numbers: 561-472-3517, 561-472-3506, or 561-472-3514. If you have any further questions, please contact me at (863) 462-5260 x3636.

Mr. Jeremy LeMaster
August 13, 2014
Subject: Application No. 140724-15 1400 Cove Road
Page 2

Sincerely,

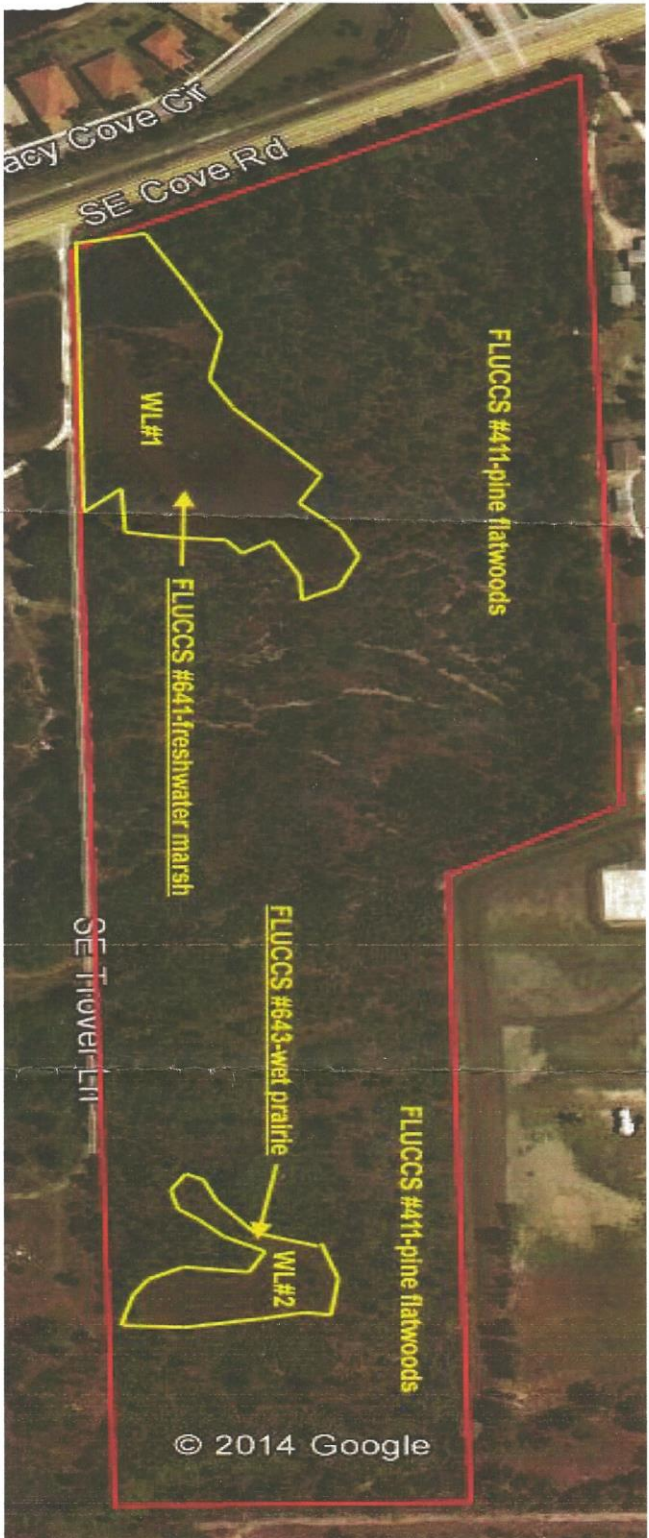
A handwritten signature in blue ink, appearing to read "Jose Vega", with a long, sweeping horizontal line extending to the right.

Jose M. Vega
Environmental Analyst
Martin/St. Lucie Regulatory Office
South Florida Water Management District
863-462-5260 ext 3636
800-250-4200 ext 3636
3800 NW 16th Blvd. Suite A
Okeechobee, FL 34972

BC/jv- Attachments (Location Map, Soils Map, Wetland Diagram)

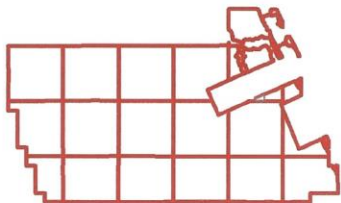
Cc: Martin County Growth Management, Shawn McCarthy
U.S. Army Corps of Engineers, Palm Beach Gardens
Daniel M. Saskowsky- Saskowsky and Associates Inc.

COVE ROAD PROPERTY WETLANDS



SFWMD File: 140724-15
Date: 8/6/14
Reviewer: Jose Vega
County: Martin S 34 T 38SR 41E
/// = Wetlands (w) Other Surface Waters (osw)

sfwmd.gov



MARTIN COUNTY, FLORIDA

Legend

 Application

Application No: 140724-15

Sec 34 / Twp 38 / Rge 41

Project Name: 1400 S E COVE ROAD WETLAND
DETERMINATION

0 320 640
Feet

N



Map Date: 2014-08-12

Permit No: 43-00029-IF

Exhibit Number: 1

WILDLIFE OBSERVATIONS TREASURE COAST CLASSICAL ACADEMY

The following species were observed on site:

BIRDS:

Common Name	Scientific Name
Great white egret	<i>Casmerodius albus</i>
Great blue heron	<i>Ardea herodias</i>
Little blue heron	<i>Egretta caerulea</i>
Turkey vulture	<i>Cathartes aura</i>
Black vulture	<i>Coragyps atratus</i>
Anhinga	<i>Anhinga</i>
Common grackle	<i>Quiscalus quiscula</i>
Boat-tailed grackle	<i>Q. major</i>
Northern mockingbird	<i>Mimus polyglottos</i>
Northern cardinal	<i>Cardinalis cardinalis</i>
White Ibis	<i>Eudocimus albus</i>
Mourning Dove	<i>Zenaida macroura</i>
Belted Kingfisher	<i>Ceryle alcyon</i>
Fish Crow	<i>Corvus ossifragus</i>
Blue-gray gnatcatcher	<i>Regulus calendula</i>
Pine warbler	<i>Dendroica pinus</i>
Robin	<i>Turdus migratorius</i>
Rufus-sided towhee	<i>Pipilo erythrophthalmus</i>
European starling	<i>Sturnus vulgaris</i>
Field sparrow	<i>Spizella pusilla</i>

REPTILES & AMPHIBIANS:

Southern black racer	<i>Coluber constrictor priapus</i>
Brown anole	<i>Anolis sagrei</i>
Southern leopard frog	<i>Rana sphenoccephala</i>
Pig frog	<i>Rana grylio</i>
Green tree frog	<i>Hyla cinerea</i>

MAMMALS:

Gray squirrel	<i>Sciurus extimus</i>
Cottontail rabbit	<i>Sylvilagus floridanus</i>
Raccoon	<i>Procyon lotor elucus</i>
Virginia opossum	<i>Didelphis virginiana</i>
Bobcat	<i>Lynx rufus floridanus</i>

[illegible]

SASKOWSKY & ASSOCIATES, INC.
ECOLOGICAL CONSULTANTS
ECOLOGICAL SURVEYS & ASSESSMENTS
WETLAND DELINEATION & WETLAND MONITORING
PRESERVE AREA MANAGEMENT PLANS
HABITAT RESTORATION

**UPLAND PRESERVE &
WETLAND BUFFER RESTORATION PLAN**
For
TREASURE COAST CLASSICAL ACADEMY

INTRODUCTION

The Treasure Coast Classical Academy Preserve Area includes four drainage easements that will require the placement of drainage pipes and control structures within the upland preserve area and in the 50' wetland buffer. This Restoration Plan will describe the drainage easement sites and will list recommended native vegetation species to be used in the restoration. In addition, a monitoring and maintenance plan will be included to assure compliance with the approved Preserve Area Management Plan (PAMP) and the South Florida Water Management District (SFWMD) Environmental Resource Permit (ERP) issued for this project.

WORK DESCRIPTION

There are two wetlands on the project site that will require the placement of drainage pipes and control structures into the 50' wetland buffer and portions of upland preserve. Four areas within the Upland Preserve and the 50' wetland buffers will be impacted (Please refer to attached Site Plan). Existing vegetation will be removed in the 10' wide drainage easements. Drainage pipe will be installed, and a control structure will be placed at the wetland buffer/wetland edge according to the approved drainage plan. The cleared areas will be graded to match surrounding elevations. Appropriate native vegetation will be used to restore the cleared areas. Maintenance and monitoring will be conducted to assure compliance with the approved Preserve Area Management Plan (PAMP) and the South Florida Water Management District (SFWMD) Environmental Resource Permit (ERP) issued for this project.

PLANT MATERIALS

The following native vegetation species shall be used in the restoration areas:

Sub-canopy/Understory:

Wax myrtle (*Myrica cerifera*)

Saw palmetto (*Serenoa repens*)

Salt bush (*Baccharis halimifolia*)

(Plant Materials continued);

Groundcover:

- Sand cordgrass (*Spartina bakeri*)
- Muhly grass (*Muhlenbergia capillaris*)
- Blue maidencane (*Amphicarpum muhlenbergianum*)
- Elliot's love grass (*Eragrostis elliottii*)

CRITERIA FOR COMPLIANCE

The following criteria will be used to document compliance with the PAMP and the SFWMD ERP for this project:

- 1.) Achieve an 80% survivability rate for all planted materials after one year,
- 2.) Achieve an 80% coverage rate of native vegetation after 2 years,
- 3.) Maintain a less than 5% cover by invasive exotic vegetation between maintenance events.

METHODS & PROCEDURES FOR MONITORING

Monitoring of the onsite wetlands and wetland buffers is required by the SFWMD ERP and by the PAMP. Monitoring of the restored areas will be conducted at the same time as the semi-annual monitoring required by the SFWMD permit. Monitoring stations will be established in each of the restored areas to document survival and coverage rates, and the coverage of exotic vegetation. Monitoring of the restoration areas will be conducted twice a year; at the end of the wet season (November/December) and at the end of the dry season (May/June). Data collected in the restoration areas will be included in the annual monitoring reports required for this project pursuant to the SFWMD permit and the PAMP.

METHODS & PROCEDURES FOR MAINTENANCE

The restored areas will be treated on a regularly scheduled basis to maintain exotic vegetation at less than 5% coverage and to assure the survival of the planted materials.

**MARTIN COUNTY, FLORIDA
PRESERVE AREA MANAGEMENT PLAN
ANNUAL MONITORING REPORT FOR (Year)**

Annual monitoring shall be conducted at the end of the wet season (usually by November 30) for five years from the date of PAMP approval. A report of the results of each monitoring event shall be submitted by the property owner to the Martin County Environmental Planning Administrator within 30 days of the completion of the monitoring. Monitoring and reporting are the responsibility of the property owner. However, a qualified environmental professional may conduct the monitoring, prepare the Annual Monitoring Reports, or submit the Reports. All Annual Monitoring Reports shall contain the following information:

- Name and address of current owner of Preserve Area;
- Location of Preserve Area (*site/project location, Martin County Parcel Control Number, section/township/range, etc*);
- Date PAMP approved;
- Documentation of vegetation changes, including encroachment of exotic vegetation;
- Fixed-point panoramic photos of all Preserve Areas;
- Synopsis of maintenance activities conducted in compliance with the PAMP requirements such as exotic vegetation removal, re-vegetation, and additional enhancement activities necessary to maintain the Preserve Area;
- A timetable for action within 90 days of the report;
- A list of all violations of the PAMP; and
- Recommendations for remedial actions, with a proposed schedule for the coming year.

Signature/Date : _____

Typed Name/Title : _____

Company Name (if applicable) : _____

Illustrations of Preserve Area Boundary Markers and Signs

