

Koreshan Preserve Stewardship Plan 2012

3601 & 3891 Broadway W.
Estero, FL 33928



Prepared by the Land Stewardship Section
Lee County Department of Parks and Recreation

Approved by the Lee County Board of County Commissioners: January 2012



Summary

Koreshan Preserve (KP) is located in the southwestern portion of Lee County within Section 28, Township 46S, Range 25E (Figure 1). The 41.27 acre parcel, nomination 258, was purchased in April 2007 through the Lee County Conservation 20/20 Program (C20/20) for \$7,250,000 plus closing costs. The STRAP numbers for the property are 28-46-25-01-00001.0010, 28-46-25-00-00038.0000, and 28-46-25-00-00038.0020 (Figure 2). The site's legal description can be found in Appendix A. KP is adjacent to the life estate of Nola Boomer and the state-owned parcel, both part of the original 104-acre transaction between the Boomer Family, State of Florida and C20/20. Once the life estate is transferred to the state, it will be managed by the Florida Department of Environmental Protection (FDEP) as part of the state's Koreshan State Historic Site (KSHS).

In 2009, Florida Department of Transportation (FDOT) purchased 3.167 acres of the preserve for construction of a retention pond and roadway easement as part of the U.S. 41 road widening project. The purchase price was \$2,607,300 and was placed into the C2020 acquisition fund. FDOT initially suggested the purchase to the Lee County Board of County Commissioners (BOCC) in early 2006. At that time, the majority of the commissioners had concerns over the sale of a portion of the Preserve for this use. FDOT researched several other parcels, but in the end none of the others would work. Transcripts of the BOCC meetings where this project was discussed can be found on the Lee County Government website (www.lee-county.com). Although a new legal description was prepared for this parcel by the state, one was not generated for the remainder of the county-owned property; therefore, the FDOT's legal description has been attached as a less and except parcel (Appendix B). KP now totals 38.1 acres.

There are three soil types found on the Preserve. Fifty-three percent (20.1 acres) is Immokalee Sand, twenty seven percent (10.2 acres) is Pompano Fine Sand and twenty percent (7.5 acres) is Cocoa Fine Sand (Figure 3).

This parcel had been part of the Boomer family land for several generations and was connected to the Koreshan society. Detailed history of the area and the Koreshan people is well documented and can be found at <http://www.floridastateparks.org/history/parkhistory.cfm?parkid=132&CFID=37090769&CFTOKEN=35224621> or through the state's curator at KSHS. Review of a 1944 historical aerial identifies cattle grazing operations, a small grove (probably citrus), and an existing drainage ditch (Figure 4). Review of 1958 (Figure 5), 1979 (Figure 6) and 1998 (Figure 7) historical aerials show no further man-made changes to the preserve. The cleared pasture and groves have virtually disappeared as trees and shrubs re-vegetated the area.

Two recorded easements exist on KP. One is a drainage easement pertaining to the drainage ditch maintained by Lee County Division of Natural Resources (LCDNR) and the other is an ingress egress easement for access from Broadway onto the FDEP land south of KP (Figure 8). Copies of the recorded easements are included in Appendix C.

A drainage ditch runs northeast to southwest through the middle of KP. It is the primary stormwater outfall for a sub-basin of the Estero River that extends north of W. Broadway and east of US 41, covering an area of approximately 200 acres. In 2006, LCDNR performed exotics removal work along the drainage ditch easement within KP. This involved removal of large Australian pines and other invasive exotics as well as cleaning the ditch bottom and banks to improve flow. Laurel oak (*Quercus laurifolia*), slash pine (*Pinus elliotti*) and wax myrtle (*Myrica cerifera*) were planted in the areas where the Australian pines (*Casuarina equisetifolia*) were removed, and Fakahatchee grass (*Tripsacum dactyloides*), rushes (*Juncus sp.*) and pickerelweed (*Pontederia cordata*) were planted on the ditch bottom and sides. LCDNR returned in 2010 to retreat the easement within KP and extended the work to include the entire ditch down to the Estero River.

The entire Preserve lies within Lee County's Estero River Watershed and within the Estero River Basin of the South Florida Water Management District's Lower West Coast Region. The only hydrologic feature on KP is the drainage ditch which was dug prior to 1944 and is maintained by the LCDNR. This ditch drains into the Estero River, listed as an Outstanding Florida Water by FDEP.

Approximately 0.31 acres of KP is designated as Archaeological "Sensitivity Level 2" (Figure 9). The entire Preserve has an existing land use of Conservation Lands Upland (Figure 10) and is zoned as AG-2 agricultural (Figure 11). Staff is working to change the zoning to Environmentally Critical.

Land Stewardship staff has been performing quarterly to tri-annual site inspections since 2006 and has posted boundary signs along with Preserve's perimeter. In 2008, firelines were installed around the county-owned perimeter. In 2011, a new fence was installed along Broadway W. and along the county's western boundary, adjacent to the Tahiti Mobile Village.

The plant communities present at KP are disturbed scrubby flatwoods (32.7 acres, mesic hammock (3.6 acres) and ditch (1.5 acres) (Figure 12). The site had >75% coverage of rose-myrtle (*Rhodomyrtus tomentosa*), scattered patches of melaleuca (*Melaleuca quinquenervia*), air potato (*Dioscorea bulbifera*), Brazilian pepper (*Schinus terebinthifolius*), cogon grass (*Imperata cylindrica*), guinea grass (*Panicum maximum*) and other invasive exotic plants until contracted initial and follow-up treatments were conducted in the summer of 2011.

Previously, Lee County staff considered entering into a Memorandum of Understanding (MOU) with the state which would allow the state to manage this property with the surrounding property. However, due to the state's current funding issues, staff is not pursuing a MOU agreement at this time. As plans for opening the life estate to the public are developed, the MOU will be re-explored. The MOU will outline responsibilities for exotic plant treatment and other land management activities as well as any financial details. The MOU will be reviewed by County Attorney staff and receive approval from the BoCC prior to enactment.

Stewardship of this site will involve mechanical reduction of oak and pine densities, treatment of invasive exotic vegetation and introduction of a prescribed fire regime of every 3-5 years once mechanical reduction has occurred. Due to the location of KP in relation to several smoke sensitive areas, mechanical fuel reduction will be substituted for fire in years when conditions do not allow prescribed burns to occur. The goal is to prevent further hardwood invasion and to establish and then maintain an open canopy conducive to the long term survival of the large population of gopher tortoises (*Gopherus polyphemus*) found on-site. The Florida scrub jay (*Aphelocoma coerulescens*) once occurred on several parcels in close proximity to KP and may still exist within reasonable range for a family to become established at KP once the canopy is opened and hardwoods are reduced.

The lack of fire on this site has allowed a duff layer of over 15 inches to form across most of the Preserve. Burns will need to be conducted in wet season in an attempt to save slash pine trees. However, the pines on the site are mature, with very little regeneration occurring in the current conditions. Fire, hurricanes, pine beetles or drought may combine to kill the vast majority of slash pine, but an open canopy and reduced duff layer will encourage pine seed germination and the beginnings of an uneven aged stand which will be healthier and provide greater diversity and better long term odds for continuation of a pine flatwoods on-site.

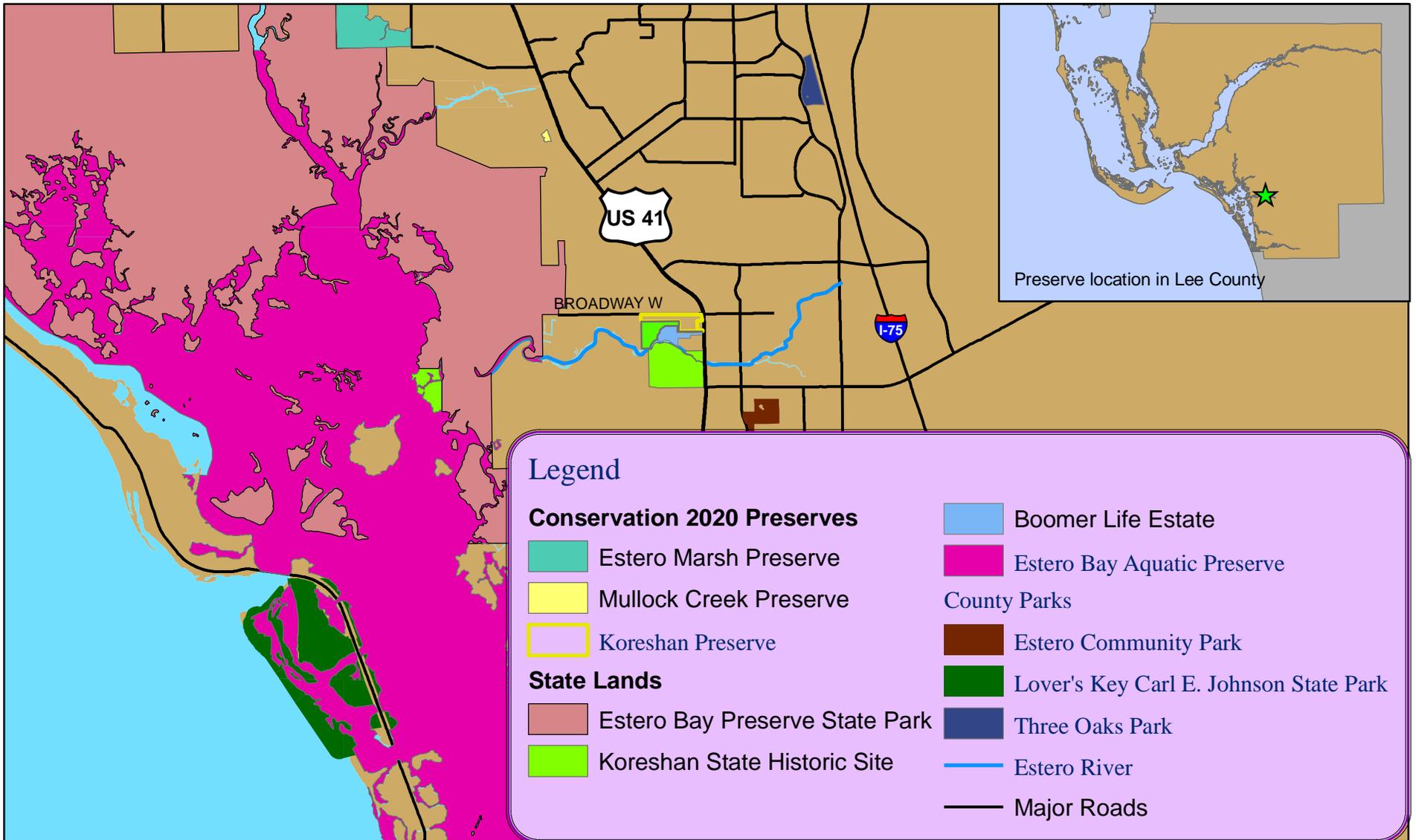
In August and September of 2011, an initial and 30 day follow-up treatment of all Florida Exotics Pest Plant Council (FLEPPC) category I and II invasive exotic plants was conducted across the preserve. In winter of 2012 another sweep will be conducted bringing the entire site to a maintenance level of exotic plant species. LCDNR will continue to monitor and treat invasive vegetation growing along the drainage ditch easement as needed.

Although not noted at KP, this preserve, like all C20/20 preserves, does not contain nor will it support feral cat colonies. FWC's Feral and Free Ranging Cats policy is "*To protect native wildlife from predation, disease, and other impacts presented by feral and free-ranging cats*" (FWC 2003). Any feral cats will be trapped and taken to Lee County Animal Services.

Due to the close proximity of the Koreshan State Historic Site and its recreational offerings, no trails or other public offerings will be developed for this preserve.

Preliminary plant and wildlife species lists and several maps were generated for KP and are included in the appendix.

Figure 1: Location Map



**Koreshan
Preserve**



M:\GISLAYERS\Projects\Parks_Rec\C2020\Koreshan\LSP\KP_location.mxd
Map prepared on 08/04/2011 by lgreeno@leegov.com

This is not a survey. Land Stewardship Staff has prepared this map for informational and planning purposes.



Figure 2: STRAP Map



Legend

 Koreshan Preserve boundary



**Koreshan
Preserve**

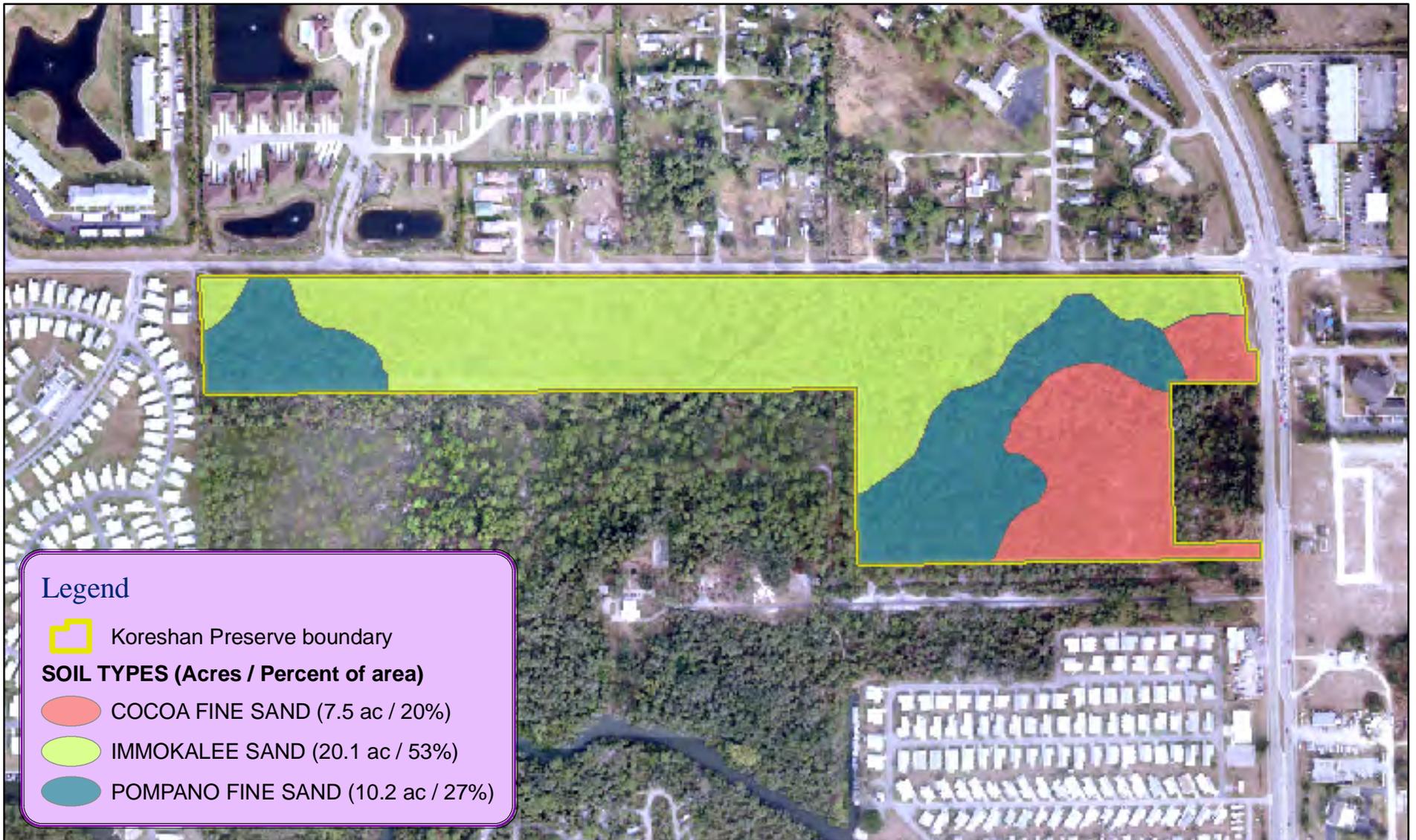


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Map prepared on 08/03/2011 by lgreeno@leegov.com

This is not a survey. Land Stewardship Staff has prepared this map for informational and planning purposes.



Figure 3: Soils Map



**Koreshan
Preserve**



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Map prepared on 08/03/2011 by sfumari@leegov.com

This is not a survey. Land Stewardship Staff has prepared this map for informational and planning purposes.



Figure 4: 1944 Aerial



**Koreshan
Preserve**



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Map prepared on 08/04/2011 by sfurnari@leegov.com

This is not a survey. Land Stewardship Staff has prepared this map
for informational and planning purposes.



Figure 5: 1958 Aerial



Legend

 Koreshan Preserve boundary



**Koreshan
Preserve**



M:\GISLAYERS\Projects\Parks_Rec\C2020\Koreshan\LSP\KP_1958.mxd
Map prepared on 08/18/2011 by lgreeno@leegov.com

This is not a survey. Land Stewardship Staff has prepared this map
for informational and planning purposes.



Figure 6: 1979 Aerial



Legend

 Koreshan Preserve boundary



**Koreshan
Preserve**

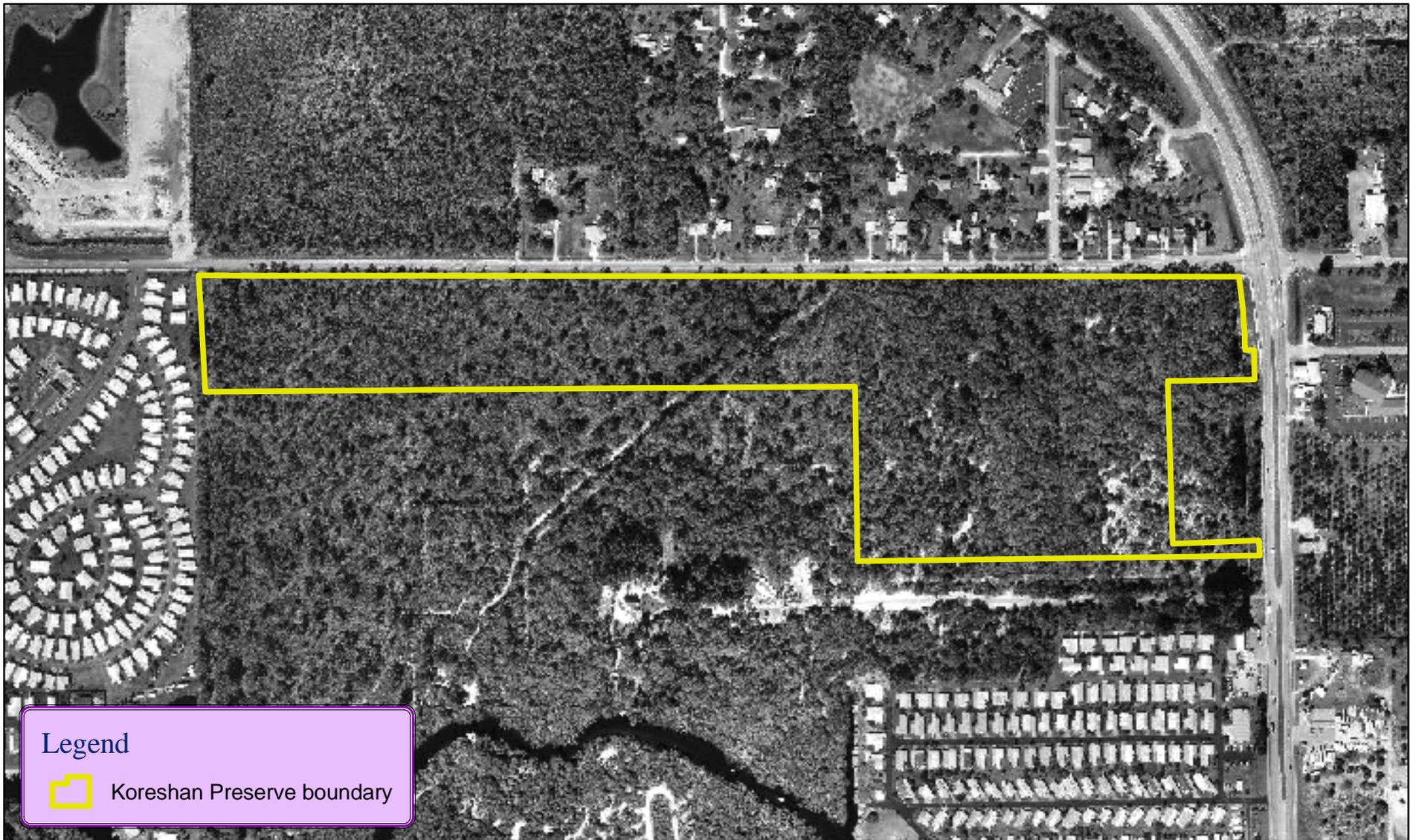


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Map prepared on 08/18/2011 by lgreeno@leegov.com

This is not a survey. Land Stewardship Staff has prepared this map
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Figure 7: 1998 Aerial Map



Legend

 Koreshan Preserve boundary



**Koreshan
Preserve**



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Map prepared on 08/24/2011 by lgreeno@leegov.com

This is not a survey. Land Stewardship Staff has prepared this map
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Figure 8: Easement Map



Legend

-  Koreshan Preserve boundary
-  Drainage
-  Ingress/Egress



**Koreshan
Preserve**



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Map prepared on 08/09/2011 by lgreeno@leegov.com

This is not a survey. Land Stewardship Staff has prepared this map for informational and planning purposes.



Figure 9: Archaeological Sensitivity Map



**Koreshan
Preserve**

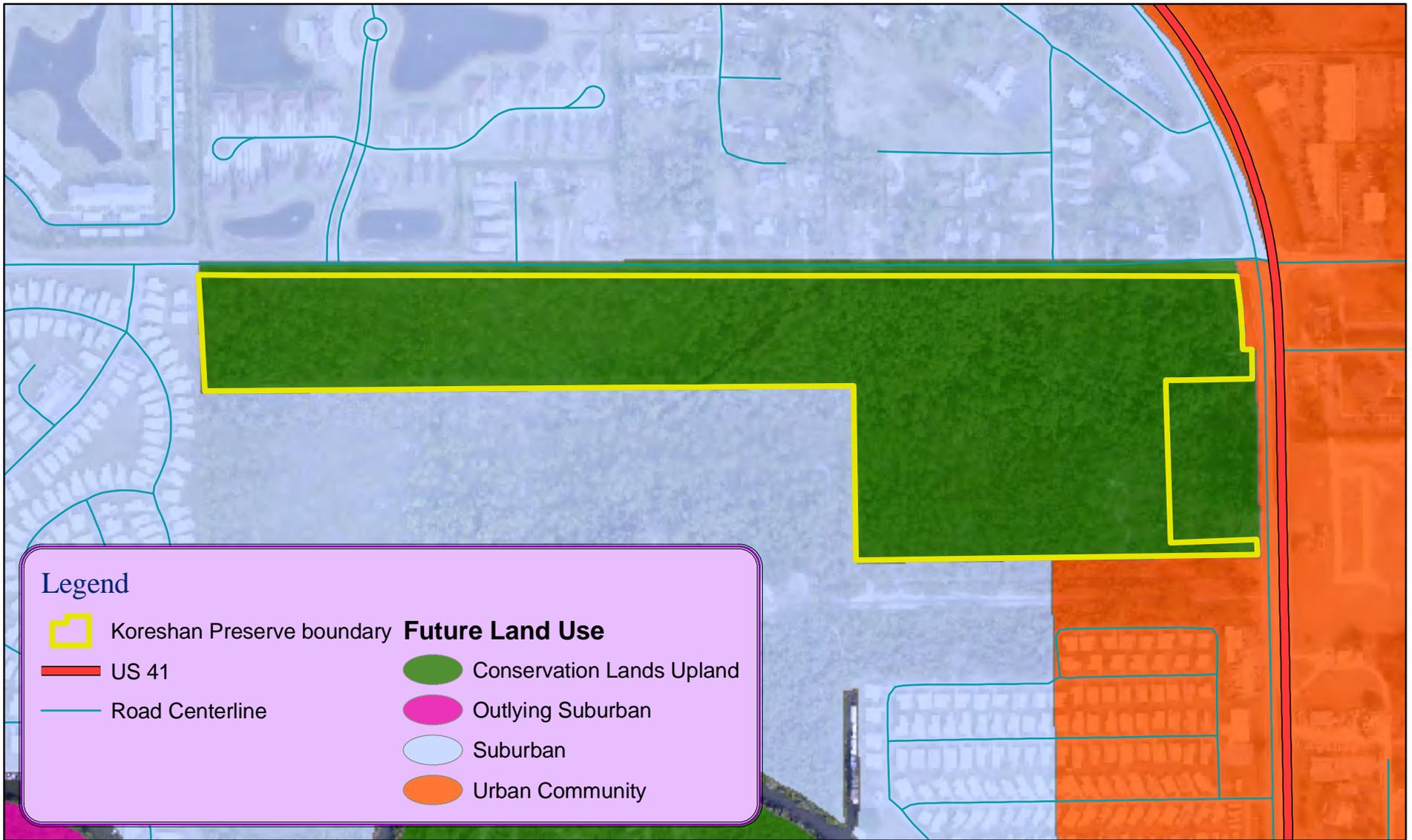


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Map prepared on 08/04/2011 by lgreeno@leegov.com

This is not a survey. Land Stewardship Staff has prepared this map for informational and planning purposes.



Figure 10: Future Land Use Map



Legend

	Koreshan Preserve boundary	Future Land Use	
	US 41		Conservation Lands Upland
	Road Centerline		Outlying Suburban
			Suburban
			Urban Community



**Koreshan
Preserve**

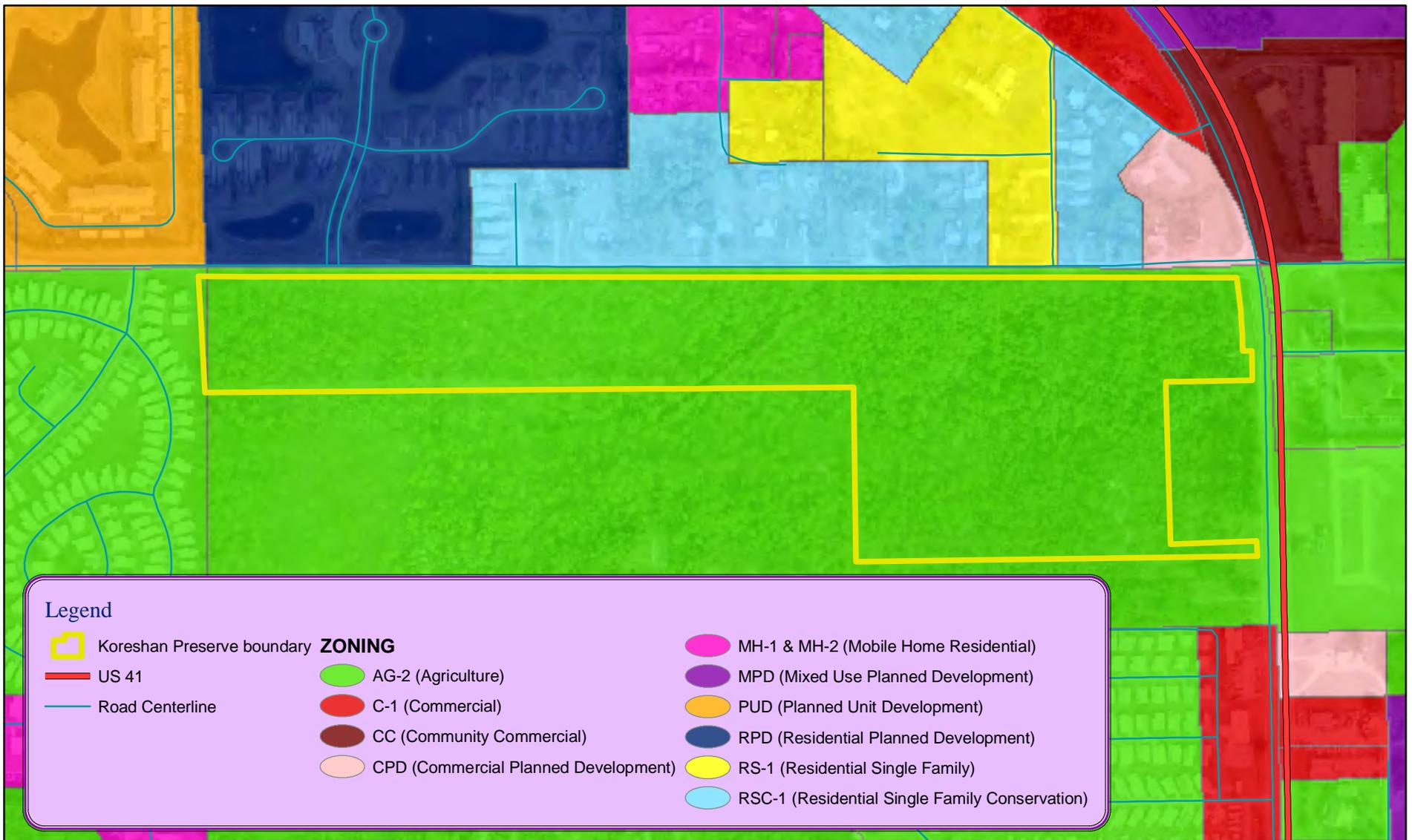


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Map prepared on 08/03/2011 by sfumari@leegov.com

This is not a survey. Land Stewardship Staff has prepared this map for informational and planning purposes.



Figure 11: Zoning Map



**Koreshan
Preserve**

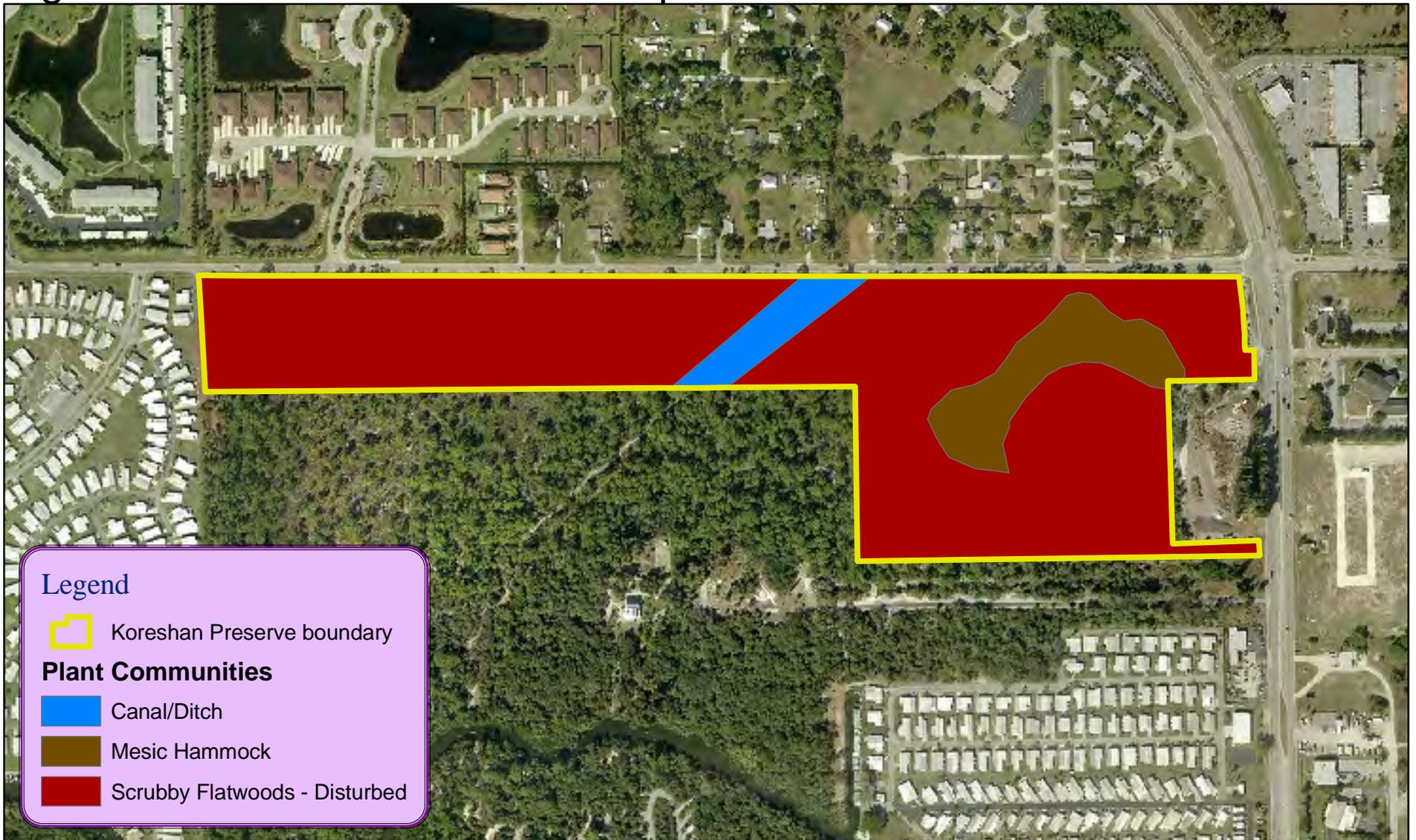


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Map prepared on 08/03/2011 by sfumari@leegov.com

This is not a survey. Land Stewardship Staff has prepared this map for informational and planning purposes.



Figure 12: Plant Communities Map



Legend

 Koreshan Preserve boundary

Plant Communities

 Canal/Ditch

 Mesic Hammock

 Scrubby Flatwoods - Disturbed



**Koreshan
Preserve**



M:\GISLAYERS\Projects\Parks_Rec\C2020\Koreshan\LSP\KP_plant.mxd
Map prepared on 08/03/2011 by lgreene@leegov.com

This is not a survey. Land Stewardship Staff has prepared this map
for informational and planning purposes.



Appendices

Appendix A: Legal Description

Appendix B: FDOT Purchase Legal Description

Appendix C: Recorded Easements

Appendix D: Plant List

Appendix E: Wildlife Species List

Appendix F: Maps

Topography

LiDAR

Storm Surge

Appendix A: Legal Description

DESCRIPTION
KORESHAN PRESERVE
A PARCEL IN THE S ½
SECTIONS 28
TOWNSHIP 46 SOUTH, RANGE 25 EAST
ESTERO, LEE COUNTY, FLORIDA

A tract or parcel of land lying in Sections 28, Township 45 South, Range 26 East, in Estero, Lee County, Florida, which tract or parcel is described as follows:

From the west quarter section corner of said Section 28, run S00°42'08"E, along the west line thereof, for 43.20 feet to a ¾" iron rod with a plastic cap stamped 'SMT LB 6627' marking the intersection with the south right-of-way line of Broadway Avenue and the Point of Beginning of the herein described parcel, also being the Northwest corner of lands described in deed recorded in Official Records Book 4817 at page 1556 of the public records of Lee County.

From said Point of Beginning run S 89°56'19" E along said right-of-way line for 3218.76 feet to a ¾" iron rod with a plastic cap stamped 'SMT LB 6627' marking the intersection with the westerly right-of-way line of State Road 45 (U.S. 41/Tamiami Trail); thence run southerly along said right-of-way line, along the arc of a curve to the right of radius 1569.02 feet (delta = 07°50'55") (Chord = 214.76') (Chord bearing = S 05°00'00" E) for 214.92 feet to a 6"x6" concrete post with 'SRD R/W' scribed on the east side with an 'X' in the top and the point of tangency; thence run S 01°04'33" E along said right-of-way line for 13.80 feet to a ¾" iron rod with a plastic cap stamped 'SMT LB 6627'; thence run N 88°55'27" E for 27.95 feet to a Northwest corner of lands described in deed recorded as instrument number 2009000267958 of the Public Records of Lee County; thence run along the westerly side of said lands the following five courses: S 01°03'08" E for 90.88 feet; S 88°57'32" W for 268.00 feet; S 01°37'11" E for 503.65 feet; N 87°57'32" E for 268.00 feet; and S 02°02'26" E for 45.99 feet to an intersection with the south line of said lands described in Official Records Book 4817 at page 1556 of said Public Records; thence run along lines of said lands the following four courses: S 89°09'20" W for 1244.34 feet; N 00°43'47" W for 540.69 feet; S 89°33'58" W for 2027.65 feet to the west line of said section 28; and N 00°42'08" W for 359.27 feet to the Point of Beginning.

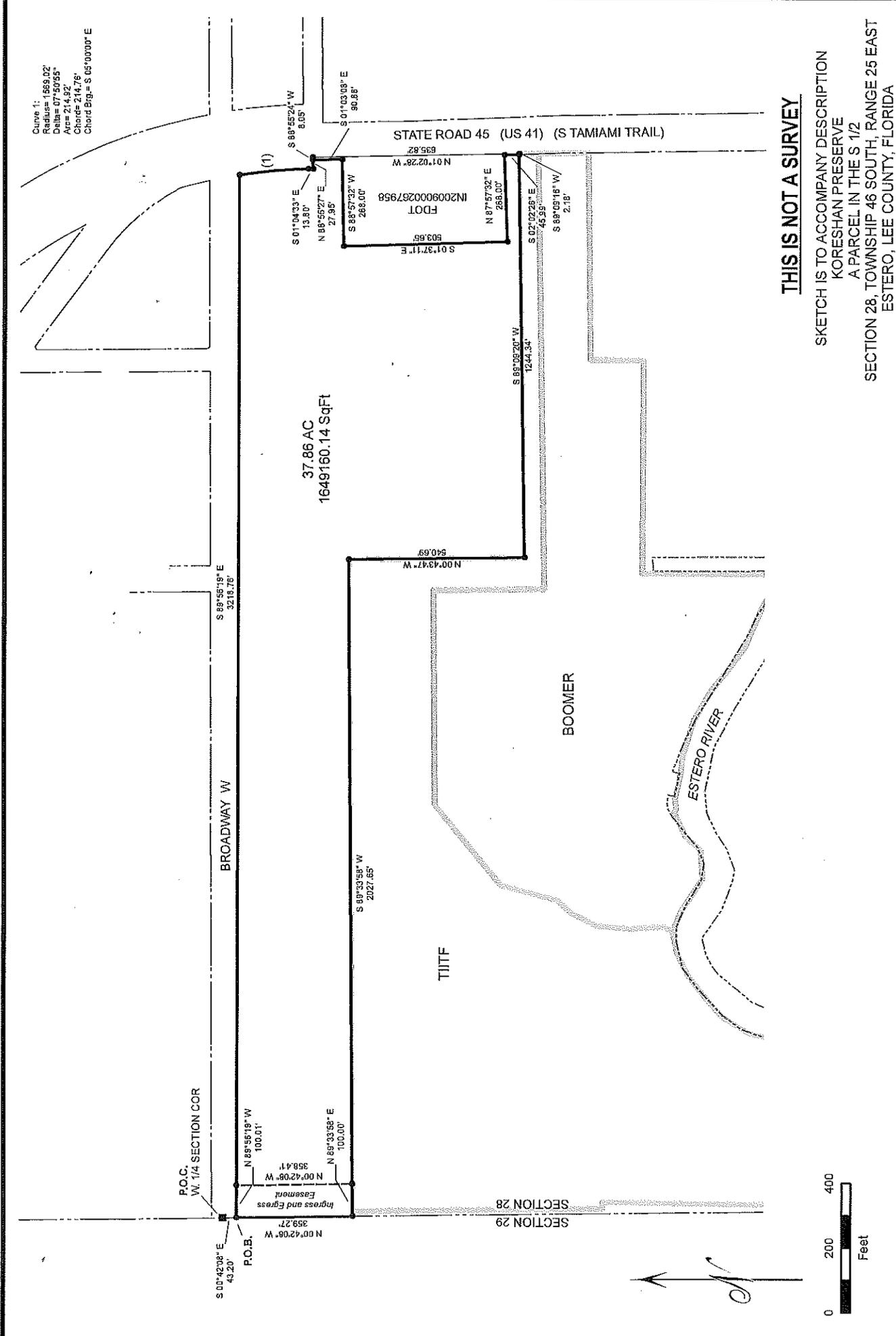
SUBJECT TO an easement for ingress and egress over and across the west 100 feet thereof.

Containing 37.86 acres, more or less.

Bearings hereinabove mentioned are based on the west line of the S½ of Section 28, Township 46 South, Range 25 East as bearing S 00°42'08" E per OR 4817 at page 1556.


Michael L. Harmon (For Lee County)
Professional Land Surveyor
Florida Certificate No. 2904

Curve 1:
 Radius= 1569.02'
 Delta= 07°50'55"
 Arc= 214.92'
 Chord Brg.= S 05°00'00" E



THIS IS NOT A SURVEY

SKETCH IS TO ACCOMPANY DESCRIPTION
 KORESHAN PRESERVE
 A PARCEL IN THE S 1/2
 SECTION 28, TOWNSHIP 46 SOUTH, RANGE 25 EAST
 ESTERO, LEE COUNTY, FLORIDA

KORESHAN PRESERVE
 IN SECTION 28, TWP 46S, RGE 25E
 ESTERO, LEE COUNTY, FLORIDA

1500 MONROE STREET
 P.O. BOX 398
 FORT MYERS, FLORIDA 33902-0398
 PHONE (239) 533-8585
 FAX (239) 485-8386

LEE COUNTY
 SOUTHWEST FLORIDA

DATE
 NOV. 2011

PROJECT NO
 28-46-25

SCALE
 1" = 400'

SHEET
 2 of 2

Appendix B: FDOT Purchase Legal Description

Exhibit A - Legal Description of Subject Parcel

FP NO. 1957651 SECTION 12010-000 STATE ROAD NO. 45 COUNTY Lee

DESCRIPTION

PARCEL 110.1

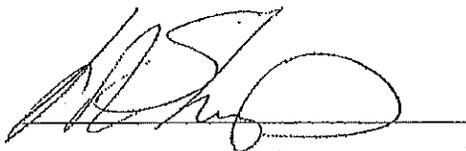
That portion of the southeast 1/4 of Section 28, Township 46 South, Range 25 East, Lee County, Florida.

Being described as follows:

Commence at the northwest corner of said southeast 1/4 of Section 28; thence along the north line of said southeast 1/4, South 89°48'52" East a distance of 677.42 feet to the survey base line for State Road 45 and the beginning of a curve concave southwesterly; thence along said survey base line the arc of said curve to the right, having a radius of 1,669.02 feet, a central angle of 09°18'20", an arc length of 271.07 feet, the chord for which bears South 05°41'38" East to the end of said curve; thence continue along said survey base line South 01°02'28" East a distance of 13.39 feet; thence leaving said survey base line, South 88°57'32" West a distance of 64.00 feet to the west existing right of way line of said State Road 45 (per Section 1201-203) for a POINT OF BEGINNING; thence along said west existing right of way line, South 01°02'28" East a distance of 635.82 feet; thence leaving said west existing right of way line, South 89°09'16" West a distance of 2.18 feet; thence North 02°01'26" West a distance of 45.99 feet; thence South 87°57'32" West a distance of 268.00 feet; thence North 01°37'11" West a distance of 503.65 feet; thence North 88°57'32" East a distance of 268.00 feet; thence North 01°03'08" West a distance of 90.88 feet; thence North 88°57'32" East a distance of 8.05 feet to the POINT OF BEGINNING.

Containing 3.167 acres.

Legal Description Approved by:



Date:

11/18/2008

NOT A DEED - INFORMATION PURPOSES ONLY

Appendix C: Recorded Easements



THIS INSTRUMENT PREPARED BY
 AND SHOULD BE RETURNED TO :
 Joseph R. Boyd, Esquire
 Tallahassee Title Group, LLC
 1407 Piedmont Drive East
 P.O. Box 14267
 Tallahassee, Florida 32308

INSTR # 6914159
 OR BK 04817 Pgs 1536 - 1543; (8pgs)
 RECORDED 07/27/2005 02:06:01 PM
 CHARLIE GREEN, CLERK OF COURT
 LEE COUNTY, FLORIDA
 RECORDING FEE 69.50
 DEPUTY CLERK T Baer

FOR RECORDING PURPOSES ONLY

NON-EXCLUSIVE PERPETUAL DRAINAGE EASEMENT

THIS NON-EXCLUSIVE PERPETUAL DRAINAGE EASEMENT ("Easement") is made and entered in this 27th day of July, 2005, by and between, **NOLA P. BOOMER, JOHN H. BOOMER, and JOHN H. BOOMER, AS PERSONAL REPRESENTATIVE OF THE ESTATE OF JORGINE D BOOMER**, whose address is shown below (hereinafter collectively referred to as the "Grantor") and **LEE COUNTY, a political subdivision of the State of Florida**, whose address is Post Office Box 398, Fort Myers, Florida 33902-0398 (hereinafter referred to as the "Grantee")

(Whenever used herein the terms "Grantor" and "Grantee" include all parties to this instrument and the heirs, legal representative and assigns of individuals, and the successors and assigns of corporations, partnerships (including joint ventures), public bodies and quasi-public bodies)

§

WITNESSETH:

WHEREAS, Grantor is the owner of that certain real property located in Lee County, Florida, as more particularly described in Exhibit "A" attached hereto and incorporated herein by reference (the "Easement Property"); and

WHEREAS, Grantee has requested, and Grantor has agreed to grant and convey to Grantee, a non-exclusive drainage easement over, upon and across the Easement Property for the specific and limited purposes hereinafter set forth.

NOW, THEREFORE, in consideration of the mutual covenants promises, terms and conditions set forth herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agrees as follows:

Section 1: **Recitals.** The above recitals are true and correct, form a material part of this Easement, and are incorporated herein by reference.

Section 2. **Grant of Easement** Grantor hereby gives, grants, bargains, sells and conveys to Grantee a perpetual non-exclusive easement for drainage purposes over and upon the Easement Property (the "Easement"), with full right and authority of ingress and egress over, upon and across the Easement Property at all times for the purpose of operating and maintaining the drainage ditches currently located on the Easement Property. Grantee shall at all times have the right to

A 6(a)
 05-03-05

keep the easement clear of all structures, obstructions, trees, shrubbery, undergrowth and roots or objects that might block drainage.

Section 3. **Limitations on Easement.** This Easement is given by Grantor to Grantee subject to the following terms, conditions and limitations: (1) the Easement granted herein is solely for purpose of operating and maintaining drainage ditches located on the Easement Property and for no other purpose; (2) Grantee or Grantee's successors or assigns will be responsible for operating or maintaining the Easement Property; neither Grantor nor Grantor's successors or assigns shall have any obligation or duty to operate, maintain or improve the Grantee's drainage structures; (3) fee title to the easement property is held by Grantor, and Grantee shall not do or permit anything to be done which purports to create a lien or encumbrance of any kind against the real property interest of Grantor or Grantor's successors in title.

Section 4. **Reservation of Use by Grantor.** This Easement is non-exclusive, and the Grantors reserve to themselves and their successors and assigns, the right to utilize the Easement Property for any purpose which does not unreasonably interfere with the use of the Easement Property by Grantee of the purposes set forth herein. Grantors further reserve the right to grant compatible uses to third parties during the term of this Easement. Each party shall use the rights granted and reserved by this Easement with due regard to the rights of the other party to use and enjoy the Easement Property.

Section 5. **Modification.** The Easement may be modified or amended only upon the mutual written consent of Grantee and Grantor, or their respective successors in title.

Section 6. **Effective Date.** The Easement shall only become effective between the parties hereto upon recording in the public records of Lee County, Florida.

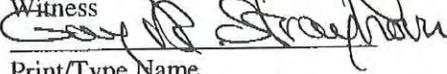
Section 7. **Binding Effect.** The Easement shall be binding upon and inure to the benefit of the parties specified herein, their respective legal representatives, successors, in title and lessees, and the benefits and burdens hereof shall run with the Easement Property.

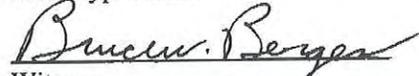
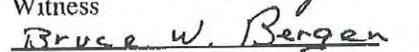
IN WITNESS WHEREOF, The Parties hereto have subscribed their names and have caused this Easement to be secured as the day and year first above written.

(See Following Pages for Signatures)

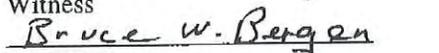
Signed, sealed and delivered
In the presence of

GRANTOR

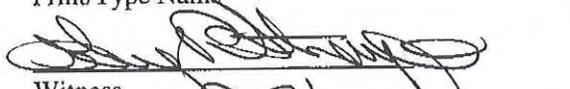
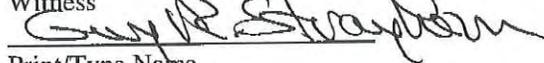

Witness

Print/Type Name

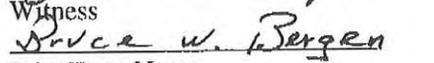

Witness

Print/Type Name


NOLA P. BOOMER
P.O. Box 20, Fowler's Mill Road
Chocorua, NH 03817

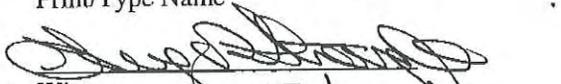

Witness

Print/Type Name


JOHN H. BOOMER
16 McMaster Lane
Orrs Island, ME 04066


Witness

Print/Type Name


Witness

Print/Type Name


JOHN H. BOOMER, AS PERSONAL
REPRESENTATIVE OF THE ESTATE
OF JORGINE D. BOOMER
16 McMaster Lane
Orrs Island, ME 04066


Witness

Print/Type Name

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 27th day of JULY, 2005, by NOLA P. BOOMER. Such person(s) (Notary Public must check applicable box):

- Is/are personally known to me.
- produced a current driver license(s)
- produced _____ as identification.

(NOTARY PUBLIC SEAL)

Michele Adams
Notary Public
MICHELE ADAMS
(Printed, Typed or Stamped Name of
Notary Public)
Commission No.: 00101342
My Commission Expires: 7/18/06



STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 27th day of JULY, 2005, by JOHN H. BOOMER. Such person(s) (Notary Public must check applicable box):

- Is/are personally known to me.
- produced a current driver license(s)
- produced _____ as identification.

(NOTARY PUBLIC SEAL)

Michele Adams
Notary Public
MICHELE ADAMS
(Printed, Typed or Stamped Name of
Notary Public)
Commission No.: 00101342
7/18/06



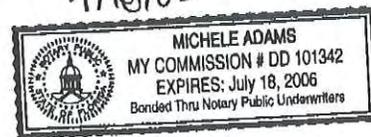
STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 27th day of JULY, 2005, by JOHN H. BOOMER AS PERSONAL REPRESENTATIVE OF THE ESTATE OF JORGINE D. BOOMER. Such person(s) (Notary Public must check applicable box):

- Is/are personally known to me.
- produced a current driver license(s)
- produced _____ as identification.

(NOTARY PUBLIC SEAL)

Michele Adams
Notary Public
MICHELE ADAMS
(Printed, Typed or Stamped Name of
Notary Public)
Commission No.: DP101342
7118100



Acquisition approved by the Lee County Board
of Commissioners action on May 3 2005
and accepted on behalf of the board by _____
J. Keith Gomez on 7-27-2005
in accordance with Agenda Item A6A
B.S. # 20050400

APPROVED AS TO FORM
John J. Fredy
JOHN J. FREDY MA
ASSISTANT COUNTY ATTORNEY
LEE COUNTY, FLORIDA

Exhibit "A"

A strip of land lying in Section 28, Township 46 South, Range 25 East, Lee County, Florida, more particularly described as follows:

Commencing at the West Quarter corner of Section 28, Township 46 South, Range 25 East, Lee County, Florida, run S 00°42'08" E along the west line of said Section 28, a distance of 43.20 feet to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627" marking the intersection with the southerly right-of-way line of Broadway Avenue; thence S 89°56'19" E along said right-of-way line 1964.40 feet to the Point of Beginning; thence S 20°00'00" W, 58.73 feet; thence S 59°08'23" W, 55.83 feet; thence S 48°45'21" W, 280.49 feet; thence S 50°26'02" W, 356.47 feet; thence S 50°35'38" W, 176.28 feet to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627", being the northwesterly corner of the lands described in Exhibit "B" attached hereto; thence S 50°33'28" W, 318.95 feet to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627"; thence S 14°56'41" W, 182.21 feet; thence S 45°15'05" W, 103.91 feet; thence S 22°47'36" W, 10.99 feet; thence S 00°19'15" E, 37.83 feet to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627"; thence S 05°16'16" W, 12.70 feet; thence S 55°32'19" W, 29.35 feet; thence S 16°43'20" W, 25.72 feet; thence S 31°28'58" E, 46.26 feet; thence S 05°16'16" W, 13.35 feet to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627"; thence S 04°10'24" E, 102.10 feet to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627"; thence S 29°13'08" W, 17.00 feet to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627"; thence S 29°13'08" W, 13.00 feet to a point at the mean high line of the Estero River; thence S 77°51'53" W, along said mean high water line 66.61 feet; thence N 29°13'08" E, 59.01 feet; thence N 04°10'24" W, 91.23 feet; thence N 05°16'16" E, 0.87 feet; thence N 31°28'58" W, 52.02 feet; thence N 16°43'20" E, 65.70 feet; thence N 55°32'19" E, 21.96 feet; thence N 00°19'15" W, 33.35 feet; thence N 22°47'36" E, 31.14 feet; thence N 45°15'05" E, 100.30 feet; thence N 14°56'41" E, 184.73 feet; thence N 50°33'28" E, 335.03 feet; thence N 50°35'38" E, 176.23 feet; thence N 50°26'02" E, 355.66 feet; thence N 48°45'21" E, 284.31 feet; thence N 59°08'23" E, 42.58 feet; thence N 20°00'00" E, 22.82 feet; thence S 89°56'19" E, 53.19 feet to the Point of Beginning.

Estero Bay/Boomer
Drainage Easement- Revised 07/27/05
Lee County

BSM APPROVED
By SK Date 7-27-05

Exhibit "B"

All that part of the South Half of Section 28, Township 46 South, Range 25 East, Lee County, Florida being more particularly described as follows:

Commencing at the Northwest corner of the Southwest Quarter of Section 28, Township 46 South, Range 25 East, Lee County, Florida; thence Run South 00°42'08" East, along the West line of said Southwest Quarter of Section 28, a distance of 662.65 feet, to the South line of the North Half of the North Half of the Southwest Quarter of Section 28, Township 46 South, Range 25 East; thence North 89°33'58" East along said South line, a distance of 1266.93 feet, to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627" and the Point of Beginning; thence North 89°33'58" East, 662.89 feet to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627"; thence South 00°43'47" East, 341.21 feet to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627"; thence North 89°09'20" East, 1345.24 feet to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627" on the westerly right-of-way line of U.S. Route 41; thence South 01°04'33" East, along said line, 154.71 feet to a 3" X 3" concrete monument with an "X" scribed in the top at the intersection with the North line of the South 1/2 of the South 1/2 of the Southwest 1/4 of the Northwest 1/4 of the Southeast 1/4 of said Section 28, as previously conveyed; thence South 89°22'57" West, along said North line 642.57 feet, to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627" on the North South Quarter Section line of said Section 28; thence South 00°41'49" East, along said North South Quarter Section line 162.78 feet to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627" at the intersection with the South line of the North Half of the Southwest Quarter of said Section 28; thence South 89°18'54" West, along said South line 703.62 feet to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627"; thence South 00°41'06" East, 395.93 feet to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627"; thence South 00°41'06" East, 6.38 feet to the mean high water line of the Estero River; thence (the following fifteen courses run along said mean high water line) North 56°51'10" West, 76.05 feet; thence North 66°42'53" West, 130.21 feet; thence North 52°59'55" West, 79.70 feet; thence North 51°36'11" West, 91.12 feet; thence North 59°42'46" West, 109.11 feet; thence North 72°47'44" West, 117.38 feet; thence North 83°50'48" West, 52.98 feet; thence North 77°25'30" West, 77.60 feet; thence South 82°07'26" West, 33.66 feet; thence North 54°57'43" West, 12.67 feet; thence South 64°05'41" West, 83.51 feet; thence South 41°35'52" West, 61.49 feet; thence South 86°05'41" West, 89.49 feet; thence North 56°27'15" West, 121.69 feet; thence North 67°02'15" West, 65.85 feet; thence North 29°13'08" East, leaving said mean high water line, 13.00 feet to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627"; thence North 29°13'08" East, 17.00 feet to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627"; thence North 04°10'24" West, 102.10 feet to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627"; thence North 05°16'16" East, 107.08 feet to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627"; thence North 26°06'28" East, 86.47 feet to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627"; thence North 42°28'23" East, 58.93 feet to a point; thence North 14°56'41" East, 182.21 feet to a 3/4" iron rod with a plastic cap stamped "SMT LB 6627"; thence North 50°33'28" East, 318.95 feet to the Point of Beginning.

Estero Bay/Boomer
Boomer Life Estate
Lee County

APPROVED
BY *[Signature]*

STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 27th day of July, 2005, by **NOLA P. BOOMER**. Such person(s) (Notary Public must check applicable box):

is personally known to me.
 produced a current driver license.
 produced _____ as identification.

(SEAL)

Michele Adams
Notary Public
MICHELE ADAMS
(Printed, Typed or Stamped Name of Notary Public
Commission No.: DD101342
My Commission Expires: 7/18/06



STATE OF FLORIDA
COUNTY OF LEE

The foregoing instrument was acknowledged before me this 27th day of July, 2005, by **JOHN H. BOOMER, Individually and as Personal Representative of the Estate of Jorgine D. Boomer**. Such person(s) (Notary Public must check applicable box):

is personally known to me.
 produced a current driver license.
 produced _____ as identification.

(SEAL)

Michele Adams
Notary Public
MICHELE ADAMS
(Printed, Typed or Stamped Name of Notary Public
Commission No.: DD101342
My Commission Expires: 7/18/06



Acquisition approved by the Lee County Board
of Commissioners action on May 3, 2005
and accepted on behalf of the board by _____
J. Keith Gandy on July 27, 2005
in accordance with Agenda Item A6A
B.S. # 20050400

APPROVED AS TO FORM

John J. Fredy
JOHN J. FREDY
ASSISTANT COUNTY ATTORNEY
LEE COUNTY, FLORIDA

DEEDINDV.DOC
REVISED 05-15-97

Exhibit "A"

A parcel of land lying in Section 28, Township 46 South, Range 25 East, Lee County, Florida, more particularly described as follows:

Commencing at the West Quarter corner of Section 28, Township 46 South, Range 25 East, Lee County, Florida, run S 00°42'08" E along the west line of said section 43.20 feet to a ¾" iron rod with a plastic cap stamped "SMT LB 6627" marking the intersection with the southerly right-of-way line of Broadway Avenue, and the Point of Beginning; thence S 89°56'19" E along said right-of-way line 3218.76 feet to a ¾" iron rod with a plastic cap stamped "SMT LB 6627" marking the intersection with the westerly right-of-way line of State Route #41; thence along said line 214.92 feet along the arc of a non-tangential curve concave to the west having a radius of 1569.02 feet, a central angle of 7°50'55", and a chord of 214.76 feet, bearing S 05°00'00" E, to a 6" X 6" concrete monument with "SRD R/W" scribed in the east side and an "X" in the top and a point of tangency; thence S 01°04'33" E, 13.80 feet to a ¾" iron rod with a plastic cap stamped "SMT LB 6627"; thence N 88°55'27" E, 36.00 feet to a ¾" iron rod with a plastic cap stamped "SMT LB 6627"; thence S 01°04'33" E, 635.76 feet to a ¾" iron rod with a plastic cap stamped "SMT LB 6627"; thence S 89°09'20" W, 1246.92 feet to a ¾" iron rod with a plastic cap stamped "SMT LB 6627"; thence N 00°43'47" W, 540.69 feet to a ¾" iron rod with a plastic cap stamped "SMT LB 6627"; thence S 89°33'58" W, 2027.65 feet to a ¾" iron rod with a plastic cap stamped "SMT LB 6627" on the west line of said Section 28; thence N 00°42'08" W along said west line 359.27 feet to the Point of Beginning.

Subject to a 100 foot-wide Ingress and Egress easement, more particularly described as follows:

COMMENCING at the West Quarter corner of Section 28, Township 46 South, Range 25 East, Lee County, Florida; run S 00° 42' 08" E along the west line of said section 43.20 feet to a ¾ " iron rod with a plastic cap stamped "SMT LB 6627" marking the intersection with the southerly right-of-way line of Broadway Avenue and the POINT OF BEGINNING; thence S 00° 42' 08" E, 359.27 feet to a ¾ " iron rod with a plastic cap stamped "SMT LB 6627"; thence N 89° 33' 58" E, 100 feet; thence N 00° 42' 08" W, 358.41 feet to said southerly right-of-way line; thence N 89° 56' 19" W, 100.01 feet to the POINT OF BEGINNING.

Estero Bay/Boomer
Lee County Parcel
Lee County

BSM APPROVED
By *[Signature]* Date *7/25/05*

Exhibit "B" to County's Warranty Deed

Restrictions, Limitations and Conditions

The property described herein ("Property") and conveyed hereby shall be subject to the following covenant and restrictions: Lee County (hereafter, "the County"), as Grantee of this Deed, by acceptance of this Deed, agrees that the Property described herein is being acquired by the County for purposes of preservation in accordance with the County's land conservation program and in accordance with that certain Acquisition Agreement between Lee County, the Division of State Lands of the Florida Department of Environmental Protection as agent for the Board of Trustees of the Internal Improvement Trust Fund of the State of Florida, and the Division of Recreation and Parks (said Acquisition Agreement being executed by Lee County on October 26, 2004, and by said Division of State Lands and said Division of Recreation and Parks on November 22, 2004). The County further agrees, by acceptance of this Deed, that the covenants herein set forth are consistent in all respects with said conservation program. Nola Boomer ("N. Boomer"), or her successor or assigns, John Boomer ("J. Boomer"), individually and as Personal Representative of the Estate of Jorgine Boomer, or his successor or assigns, the Board of Trustees of the Internal Improvement Trust Fund of the State of Florida ("Trustees") or its successor, and Lee County ("County"), a political subdivision of the State of Florida shall have the sole right to enforce the provisions of these covenants. All references herein to N. Boomer, J. Boomer, Trustees, or County shall include said parties or their successors and assigns. Enforcement of the terms of this Easement shall be at the discretion of N. Boomer, J. Boomer, Trustees, or County, or any forbearance by N. Boomer, J. Boomer, Trustees, or County to exercise their rights under these covenants in the event of any breach of any term of these covenants shall not be deemed or construed to be a waiver by N. Boomer, J. Boomer, Trustees, or County of such term or of any subsequent breach of the same or any other term of these covenants or of any of the rights of N. Boomer, J. Boomer, Trustees, or County under these covenants. No delay or omission by N. Boomer, J. Boomer, Trustees, or County in the exercise of any right or remedy upon any breach of any term of these covenants shall impair such right or remedy or be construed as a waiver.

1. No soil, trash, liquid or solid waste (including sludge), or unsightly, offensive, or hazardous materials, wastes or substances, toxic wastes or substances, pollutants or contaminants, including, but not limited to, those as now or hereafter defined by Federal or Florida law defining hazardous materials, wastes or substances, toxic wastes or substances, pollutants or contaminants shall be dumped or placed on the Property.

2. There shall be no exploration for and extraction of oil, gas, minerals, peat, muck, marl, limestone, limerock, kaolin, ~~fuller's earth, phosphate, common clays,~~ gravel, shell, sand and similar substances, under and by virtue of the authority of a

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BLA-128, Revised 4/3/03

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grant or reservation or other form of ownership of or interest in or control over or right to such substances on or under the Property, except for purposes of public necessity.

3. There shall be no dredging of canals, filling, excavation or alteration of the surface of the Property, no removal of soil or minerals, construction of dikes, manipulation of natural water courses, or disruption, alteration, pollution, depletion, or extraction on the Property of existing surface or subsurface water flow or natural water sources, fresh water lakes, ponds and pond shores, marshes, creeks or any other water bodies, nor any activities or uses conducted on the Property that would be detrimental to water purity or that could detrimentally alter natural water level or flow in or over the Property.

4. There shall be no planting of nuisance exotic or non-native plants as listed by the Exotic Pest Plant Council (EPPC) or its successor. The Grantee under this Deed, and its successor and assigns shall, to the extent practical, control and prevent the spread of nuisance exotics or non-native plants on the Property. No standing timber may be cut or removed from the Property for commercial purposes.

5. There shall be no commercial or industrial activity upon the Property, or ingress, egress or other passage across or upon the Property in conjunction with any commercial or industrial activity including but not limited to swine, dairy and poultry operations, confined animal feed lot operations, timbering or other agricultural activities, commercial water wells, quarrying, mining, or landfill.

6. There shall be no subdivision of the Property, except for purposes of public necessity.

7. There shall be no commercial billboards erected or displayed on the Property.

8. There shall be no hunting or trapping upon the Property, except for purposes of public necessity.

9. Any general rule of construction to the contrary notwithstanding, these covenants shall be liberally construed in favor of their purpose to protect the conservation value of the Property. If any provision of these covenants is found to be ambiguous, an interpretation consistent with the purpose of the covenants that would render the provision valid shall be favored over any interpretation that would render it invalid.

The above restrictions, limitations, and conditions notwithstanding, the Property is being acquired for public use and enjoyment, for preservation, conservation, passive recreation and educational purposes.

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Appendix D: Plant Species List for Koreshan Preserve

Scientific Name	Common Name	Status	EPPC	FDA	IRC	FNAI
Family: Cladoniaceae (deer lichens)						
<i>Cladina sp.</i>	deer lichen	native				
Family: Blechnaceae (mid-sorus fern)						
<i>Blechnum serrulatum</i>	swamp fern	native				
Family: Osmundaceae (royal fern)						
<i>Osmunda regalis</i>	royal fern	native		CE	R	
Family: Polypodiaceae (polypody)						
<i>Phlebodium aureum</i>	golden polypody	native				
<i>Pleopeltis polypodioides</i>	resurrection fern	native				
Family: Pteridaceae (brake fern)						
<i>Pteris vittata</i>	Chinese ladder brake	exotic	II			
Family: Schizaeaceae (curly-grass)						
<i>Lygodium microphyllum</i>	Old-World climbing fern	exotic	I			
Family: Thelypteridaceae (marsh fern)						
<i>Thelypteris kunthii</i>	widespread maidenfern	native				
Family: Vittariaceae (shoestring)						
<i>Vittaria lineata</i>	shoestring fern	native				
Family: Pinaceae (pine)						
<i>Pinus elliotii</i> var. <i>densa</i>	south Florida slash pine	native				
Family: Arecaceae (palm)						
<i>Phoenix reclinata</i>	Senegal date palm	exotic	II			
<i>Sabal palmetto</i>	cabbage palm	native				
<i>Serenoa repens</i>	saw palmetto	native				
Family: Asparagaceae (asparagus)						
<i>Asparagus aethiopicus</i>	Sprenger's asparagus-fern	exotic	I			
Family: Bromeliaceae (pineapple)						
<i>Tillandsia fasciculata</i> var. <i>densispica</i>	cardinal airplant	native		E		
<i>Tillandsia setacea</i>	southern needleleaf	native				
<i>Tillandsia usneoides</i>	Spanish-moss	native				
<i>Tillandsia utriculata</i>	giant airplant	native		E		
Family: Commelinaceae (spiderwort)						
<i>Commelina erecta</i>	whitemouth dayflower	native			I	
Family: Cyperaceae (sedge)						
<i>Cyperus croceus</i>	Baldwin's flatsedge	native				
<i>Cyperus esculentus</i>	yellow nut-grass	exotic				
<i>Cyperus ligularis</i>	swamp flatsedge	native				
<i>Cyperus retrorsus</i>	pinebarren flatsedge	native			R	
<i>Rhynchospora chapmanii</i>	Chapman's beaksedge	native			i	
<i>Rhynchospora divirgens</i>	spreading beaksedge	native				
Family: Dioscoreaceae (yam)						
<i>Dioscorea bulbifera</i>	air-potato	exotic	I			
Family: Juncaceae (rush)						
<i>Juncus marginatus</i>	shore rush	native			R	

Appendix D: Plant Species List for Koreshan Preserve

Scientific Name	Common Name	Status	EPPC	FDA	IRC	FNAI
Family: Poaceae (grass)						
<i>Andropogon glomeratus</i> var. <i>glaucopsis</i>	purple bluestem	native			R	
<i>Andropogon virginicus</i> var. <i>glaucus</i>	chalky bluestem	native			R	
<i>Andropogon virginicus</i> var. <i>virginicus</i>	broomsedge bluestem	native			I	
<i>Aristida patula</i>	tall threeawn	native			R	
<i>Aristida purpurascens</i>	arrowfeather threeawn	native				
<i>Aristida spiciformis</i>	bottlebrush threeawn	native			R	
<i>Aristida stricta</i>	wiregrass	native				
<i>Axonopus fissifolius</i>	common carpetgrass	native			R	
<i>Bambusa vulgaris</i>	common bamboo	exotic				
<i>Cenchrus spinifex</i>	coastal sandbur	native				
<i>Dichanthelium aciculare</i>	needleleaf witchgrass	native				
<i>Dichanthelium ovale</i>	eggleaf witchgrass	native			R	
<i>Dichanthelium portoricense</i>	hemlock witchgrass	native				
<i>Digitaria ciliaris</i>	southern crabgrass	native				
<i>Eragrostis atrovirens</i>	thalia lovegrass	exotic				
<i>Eragrostis virginica</i>	coastal lovegrass	native			I	
<i>Eustachys glauca</i>	saltmarsh fingergrass	native				
<i>Imperata cylindrica</i>	cogongrass	exotic	I			
<i>Panicum maximum</i>	guineagrass	exotic	II			
<i>Paspalum caespitosum</i>	blue crowngrass	native				
<i>Paspalum notatum</i>	bahiagrass	exotic				
<i>Paspalum setaceum</i>	thin paspalum	native				
<i>Sacciolepis indica</i>	Indian cupscale	exotic				
<i>Setaria parviflora</i>	knotroot foxtail	native				
<i>Sporobolus indicus</i>	smutgrass	exotic				
<i>Tripsacum dactyloides</i>	eastern gamagrass	native				
Family: Pontederiaceae (pickerelweed)						
<i>Pontederia cordata</i>	pickerelweed	native				
Family: Ruscaceae (butcher's broom)						
<i>Sansevieria hyacinthoides</i>	bowstring hemp	exotic	II			
Family: Smilacaceae (smilax)						
<i>Smilax auriculata</i>	earleaf greenbriar	native				
Family: Zingiberaceae (ginger)						
<i>Alpinia zerumbet</i>	shell ginger	exotic				
Family: Acanthaceae (acanthus)						
<i>Ruellia caroliniensis</i>	Carolina wild petunia	native			I	
Family: Anacardiaceae (cashew)						
<i>Rhus copallinium</i>	winged sumac	native				
<i>Schinus terebinthifolius</i>	Brazilian pepper	exotic	I			
<i>Toxicodendron radicans</i>	eastern poison ivy	native				
Family: Annonaceae (custard-apple)						
<i>Annona glabra</i>	pondapple	native				
<i>Asimina reticulata</i>	netted pawpaw	native				
Family: Apocynaceae (dogbane)						
<i>Asclepias pedicellata</i>	Savannah milkweed	native			I	
Family: Aquifoliaceae (holly)						
<i>Ilex ambigua</i>	sand holly, Carolina holly	native			CI	
<i>Ilex glabra</i>	gallberry	native				

Appendix D: Plant Species List for Koreshan Preserve

Scientific Name	Common Name	Status	EPPC	FDA	IRC	FNAI
Family: Asteraceae (aster)						
<i>Ambrosia artemisiifolia</i>	common ragweed	native				
<i>Baccharis halimifolia</i>	groundsel tree	native				
<i>Bidens alba</i>	beggerticks	native				
<i>Carphephorus corymbosus</i>	Florida paintbrush	native			R	
<i>Carphephorus odoratissimus var. subtropicanus</i>	pineland purple	native			I	
<i>Conyza canadensis var pusilla</i>	dwarf Canadian horseweed	native				
<i>Elephantopus elatus</i>	tall elephantsfoot	native			R	
<i>Eupatorium capillifolium</i>	dogfennel	native				
<i>Lygodesmia aphylla</i>	rose-rush	native			I	
<i>Palafoxia feayi</i>	Feay's palafox	native			R	
<i>Pityopsis graminifolia</i>	narrowleaf silkgrass	native				
<i>Pterocaulon pycnostachyum</i>	blackroot	native				
<i>Solidago odora var. chapmanii</i>	Chapman's goldenrod	native				
<i>Sphagneticola trilobata</i>	creeping oxeye	exotic	II			
Family: Cactaceae (cactus)						
<i>Opuntia humifusa</i>	pricklypear	native				
Family: Casuarinaceae (sheoak)						
<i>Casuarina equisetifolia</i>	Australian-pine	exotic	I			
Family: Clusiaceae (mangosteen)						
<i>Hypericum cistifolium</i>	roundpod St. John's-wort	native				
<i>Hypericum hypericoides</i>	St. Andrew's-Cross	native				
<i>Hypericum reductum</i>	Atlantic St. John's-wort	native			R	
<i>Hypericum tetrapetalum</i>	fourpetal St. John's-wort	native				
Family Chrysobalanaceae (coco plum)						
<i>Licania michauxii</i>	gopher apple	native				
Family: Combretaceae (combretum)						
<i>Terminalia nyekkeru</i>	Australian almond	exotic	II			
Family: Convolvulaceae (morning-glory)						
<i>Ipomoea hederacea</i>	ivyleaf morning-glory	exotic				
Family: Cucurbitaceae (gourd)						
<i>Mormordica charantia</i>	balsampear	exotic				
Family: Ebenaceae (ebony)						
<i>Diospyros virginiana</i>	common persimmon	native			R	
Family: Euphorbiaceae (spurge)						
<i>Chamaesyce hyssopifolia</i>	hyssopleaf sandmat	native				
<i>Cnidoscolus stimulosus</i>	tread softly	native				
<i>Croton glandulosus var. glandulosus</i>	vente conmigo	native				
<i>Euphorbia polyphylla</i>	lesser Florida spurge	native				
Family: Ericaceae (heath)						
<i>Bejaria racemosa</i>	tarflower	native			R	
<i>Lyonia fruticosa</i>	coastalplain staggerbusy	native				
<i>Vaccinium myrsinites</i>	shiny blueberry	native				
Family: Fabaceae (pea)						
<i>Abrus precatorius</i>	rosary pea	exotic	I			
<i>Acacia auriculiformis</i>	earleaf acacia	exotic	I			
<i>Albizia lebbek</i>	woman's tongue	exotic	I			
<i>Chamaecrista fasciculata</i>	partridge pea	native				
<i>Crotalaria pallida var. obovata</i>	smooth rattlebox	exotic				
<i>Galactia elliotii</i>	Elliott's milkpea	native			R	

Appendix D: Plant Species List for Koreshan Preserve

Scientific Name	Common Name	Status	EPPC	FDA	IRC	FNAI
Family: Fagaceae (beech)						
<i>Quercus elliotii</i>	running oak	native			R	
<i>Quercus laurifolia</i>	laurel oak	native				
<i>Quercus minima</i>	dwarf live oak	native			R	
<i>Quercus myrtifolia</i>	myrtle oak	native				
<i>Quercus virginiana</i>	Virginia live oak	native				
Family: Lamiaceae (mint)						
<i>Piloblephis rigida</i>	wild pennyroyal	native			R	
Family: Lauraceae (laurel)						
<i>Cassytha filiformis</i>	love vine	native				
Family: Malvaceae (mallow)						
<i>Melochia spicata</i>	bretonica peluda	native			I	
<i>Sida acuta</i>	common wireweed	native				
<i>Urena lobata</i>	caesarweed	native	II			
Family: Meliaceae (mahogany)						
<i>Swietenia mahagoni</i>	West Indian mahogany	native				
Family: Myrsinaceae (myrsine)						
<i>Rapanea punctata</i>	myrsine	native				
Family: Myricaceae (bayberry)						
<i>Myrica cerifera</i>	wax myrtle	native				
Family: Myrtaceae (myrtle)						
<i>Melaleuca quinquenervia</i>	punktree	exotic	I			
<i>Rhodomyrtus tomentosa</i>	rose myrtle	exotic	I			
<i>Syzygium cumini</i>	Java plum	exotic	I			
Family: Olacaceae (olax)						
<i>Ximenia americana</i>	hog plum	native				
Family: Onagraceae (eveningprimrose)						
<i>Gaura angustifolia</i>	southern beeblossom	native				
<i>Ludwigia maritima</i>	seaside primrosewillow	native			R	
Family: Passifloraceae (passionflower)						
<i>Passiflora suberosa</i>	corksystem passionflower	native				
Family: Phytolaccaceae (pokeweed)						
<i>Phytolacca americana</i>	American pokeweed	native				
Family: Polygalaceae (milkwort)						
<i>Polygala grandiflora</i>	showy milkwort	native				
<i>Polygala setacea</i>	coastalplain milkwort	native			I	
Family: Rubiaceae (madder)						
<i>Cephalanthus occidentalis</i>	common buttonbush	native				
<i>Richardia brasiliensis</i>	tropical mexican clover	exotic				
<i>Richardia grandiflora</i>	largeflower mexican clover	exotic				
<i>Spermacoce verticillata</i>	shrubby false buttonweed	exotic				
Family: Salicaceae (willow)						
<i>Salix caroliniana</i>	Carolina willow	native				
Family: Sapindaceae (soapberry)						
<i>Acer rubrum</i>	red maple	native				
<i>Cupaniopsis anacardioides</i>	carrotwood	exotic	I			
Family: Tetrachondraceae (tetrachondra)						
<i>Polypremum prodcumbens</i>	rustweed	native				
Family: Turneraceae (turnera)						
<i>Piriqueta cistoides</i>	pitted stripeseed	native				

Appendix D: Plant Species List for Koreshan Preserve

Scientific Name	Common Name	Status	EPPC	FDA	IRC	FNAI
Family: Verbenaceae (vervain)						
<i>Callicarpa americana</i>	American beautyberry	native				
<i>Lantana camara</i>	lantana	exotic	I			
Family: Veronicaceae (speedwell)						
<i>Gratiola hispida</i>	rough hedgehyssop	native			I	
<i>Scoparia dulcis</i>	licoriceweed	native				
Family: Vitaceae (grape)						
<i>Ampelopsis arborea</i>	peppervine	native				
<i>Parthenocissus quinquefolia</i>	Virginia creeper	native				
<i>Vitis rotundifolia</i>	muscadine	native				

Key

Florida EPPC Status

- I = species that are invading and disrupting native plant communities
- II = species that have shown a potential to disrupt native plant communities

FDACS (Florida Department of Agriculture and Consumer Services)

- E = Endangered
- T = Threatened
- CE = Commercially Exploited

IRC (Institute for Regional Conservation)

- CI = Critically Imperiled
- I = Imperiled
- R = Rare

FNAI (Florida Natural Areas Inventory)

- G= Global Status
- T= Threatened
- CE= Commercially Exploited

- 1= Critically imperiled because of extreme rarity (5 or fewer occurrences or less than 1000 individuals) or because of extreme vulnerability to extinction due to some natural or man-made factor.
- 2= Imperiled because of rarity (6 to 20 occurrences or less than 3000 individuals) or because of vulnerability to extinction due to some natural or man-made factor.
- 3= Either very rare and local throughout its range (21-200 occurrences or less than 10,000 individuals) or found locally in a restricted range or vulnerable to extinction from other factors.
- 4= Apparently secure
- 5= Demonstrably secure

Appendix E: Wildlife List for Koreshan Preserve

Scientific Name	Common Name	Designated Status		
		FWC	FWS	FNAI
MAMMALS				
Family: Dasypodidae (armadillos)				
<i>Dasypus novemcinctus</i>	nine-banded armadillo *			
Family: Sciuridae (squirrels and their allies)				
<i>Sciurus carolinensis</i>	eastern gray squirrel			
Family: Leporidae (rabbits and hares)				
<i>Sylvilagus floridanus</i>	eastern cottontail			
Family: Felidae (cats)				
<i>Lynx rufus</i>	bobcat			
Family: Procyonidae (raccoons)				
<i>Procyon lotor</i>	raccoon			
BIRDS				
Family: Ardeidae (herons, egrets, bitterns)				
<i>Egretta caerulea</i>	little blue heron	SSC		G5/S4
Family: Cathartidae (new world vultures)				
<i>Coragyps atratus</i>	black vulture			
<i>Cathartes aura</i>	turkey vulture			
Family: Accipitridae (hawks, kites, accipiters, harriers, eagles)				
Subfamily: Buteoninae (buzzard hawks and eagles)				
<i>Haliaeetus leucocephalus</i>	bald eagle	T		G5/S3
Subfamily: Buteoninae (buzzard hawks and eagles)				
<i>Buteo lineatus</i>	red-shouldered hawk			
Family: Falconidae (falcons)				
Subfamily: Falconinae (falcons)				
<i>Falco columbarius</i>	merlin			G5/S2
Family: Charadriidae (plovers)				
<i>Charadrius vociferus</i>	killdeer			
Family: Columbidae (pigeons and doves)				
<i>Zenaida macroura</i>	mourning dove			
<i>Columbina passerina</i>	common ground-dove			
Family: Picidae (woodpeckers)				
<i>Melanerpes carolinus</i>	red-bellied woodpecker			
<i>Picoides pubescens</i>	downy woodpecker			
<i>Colaptes auratus</i>	northern flicker			
Family: Vireonidae (vireos)				
<i>Vireo griseus</i>	white-eyed vireo			
<i>Vireo solitarius</i>	blue-headed vireo			
Family: Corvidae (crows, jays, etc.)				
<i>Cyanocitta cristata</i>	blue jay			
<i>Corvus brachyrhynchos</i>	American crow			
<i>Corvus ossifragus</i>	fish crow			
Family: Hirundinidae (swallows)				
<i>Tachycineta bicolor</i>	tree swallow			
Family: Troglodytidae (wrens)				
<i>Thryothorus ludovicianus</i>	Carolina wren			
<i>Troglodytes aedon</i>	house wren			
Family: Sylviidae (gnatcatchers)				
<i>Poliophtila caerulea</i>	blue-gray gnatcatcher			
Family: Mimidae (mockingbirds and thrashers)				
<i>Dumetella carolinensis</i>	gray catbird			
<i>Mimus polyglottos</i>	northern mockingbird			

Appendix E: Wildlife List for Koreshan Preserve

Scientific Name	Common Name	Designated Status		
		FWC	FWS	FNAI
Family: Parulidae (wood-warblers)				
<i>Dendroica coronata</i>	yellow-rumped warbler			
<i>Dendroica pinus</i>	pine warbler			
<i>Dendroica discolor</i>	prairie warbler			
<i>Dendroica palmarum</i>	palm warbler			
<i>Geothlypis tristis</i>	common yellowthroat			
Family: Cardinalidae (cardinals, some grosbeaks, new world buntings, etc.)				
<i>Cardinalis cardinalis</i>	northern cardinal			
<i>Passerina ciris</i>	painted bunting			
Family: Icteridae (blackbirds, orioles, etc.)				
<i>Quiscalus quiscula</i>	common grackle			
<i>Quiscalus major</i>	boat-tailed grackle			
REPTILES				
Family: Testudinidae (gopher tortoises)				
<i>Gopherus polyphemus</i>	gopher tortoise	T		G3/S3
Family: Polychridae (anoles)				
<i>Anolis carolinensis</i>	green anole			
<i>Anolis sagrei</i>	brown anole *			
Family: Colubridae (harmless egg-laying snakes)				
<i>Coluber constrictor priapus</i>	southern black racer			
ARACHNIDS				
Family: Araneidae (orb weavers)				
<i>Gasteracantha elipsoides</i>	crablike spiny orb weaver			

KEY:

FWC = Florida Fish & Wildlife Conservation Commission

FWS = U.S. Fish & Wildlife Service

E - Endangered

T - Threatened

SSC - Species of Special Concern

FNAI = Florida Natural Areas Inventory

G - Global rarity of the species

S - State rarity of the species

T - Subspecies of special population

1 - Critically imperiled

2 - Imperiled

3 - Rare, restricted or otherwise vulnerable to extinction

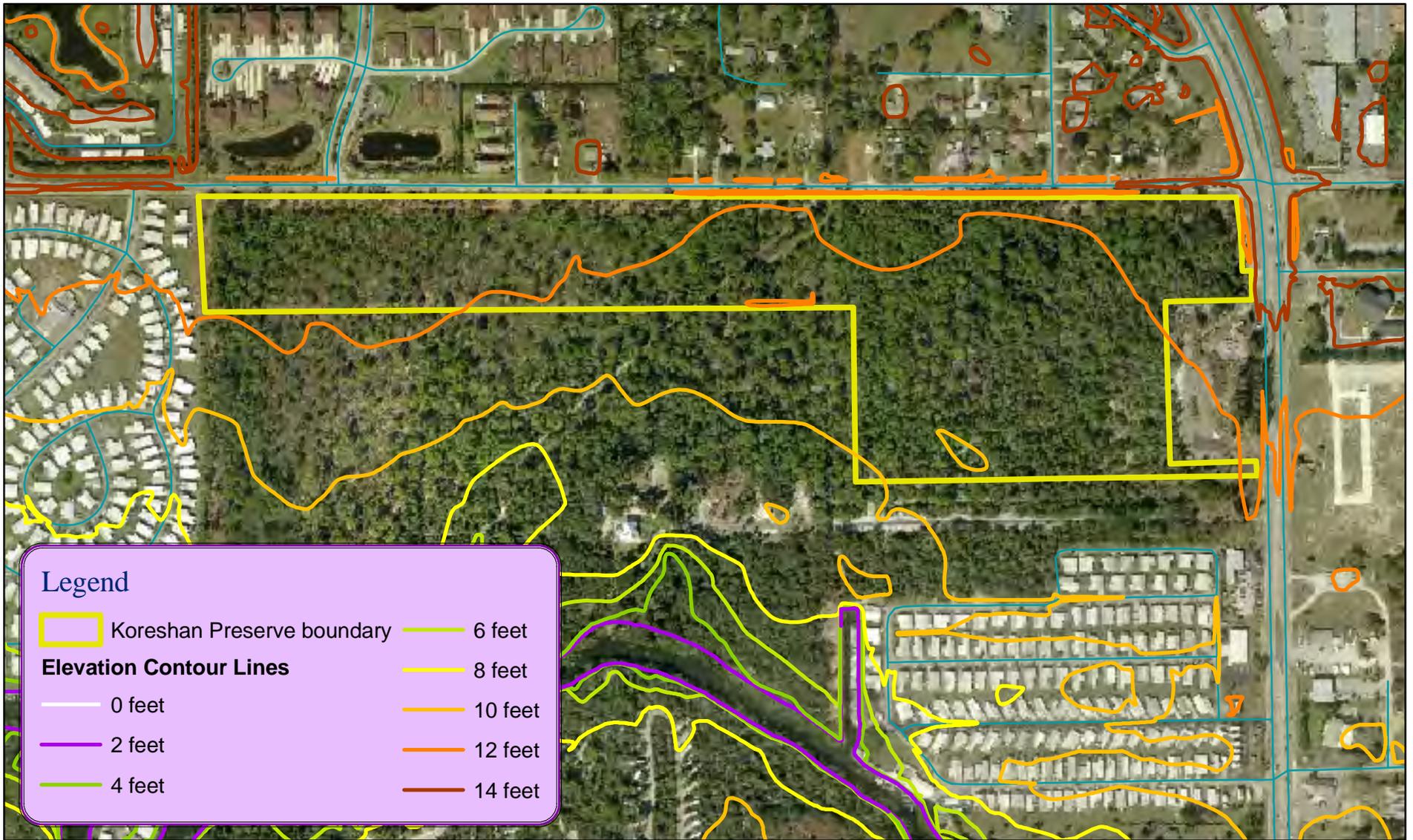
4 - Apparently secure

5 - Demonstrably secure

* = Non-native

Appendix F: Maps

Topography Map



**Koreshan
Preserve**

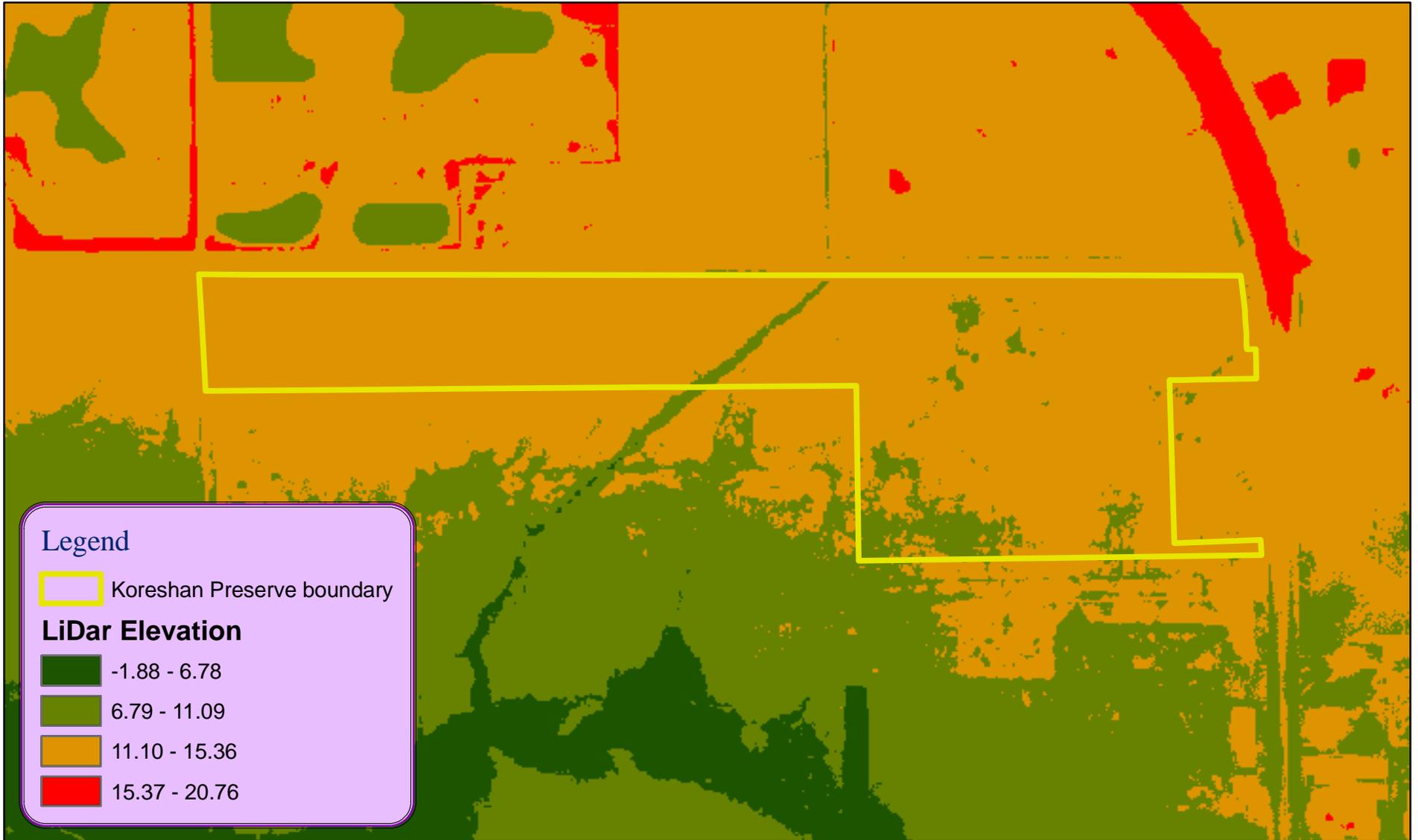


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Map prepared on 8/4/2011 by jwaller@leegov.com

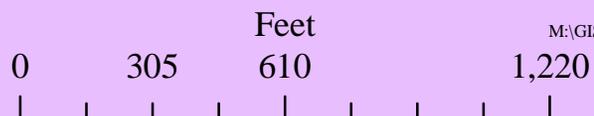
This is not a survey. Land Stewardship Staff has prepared this map
for informational and planning purposes.



LiDar Elevation Map



**Koreshan
Preserve**

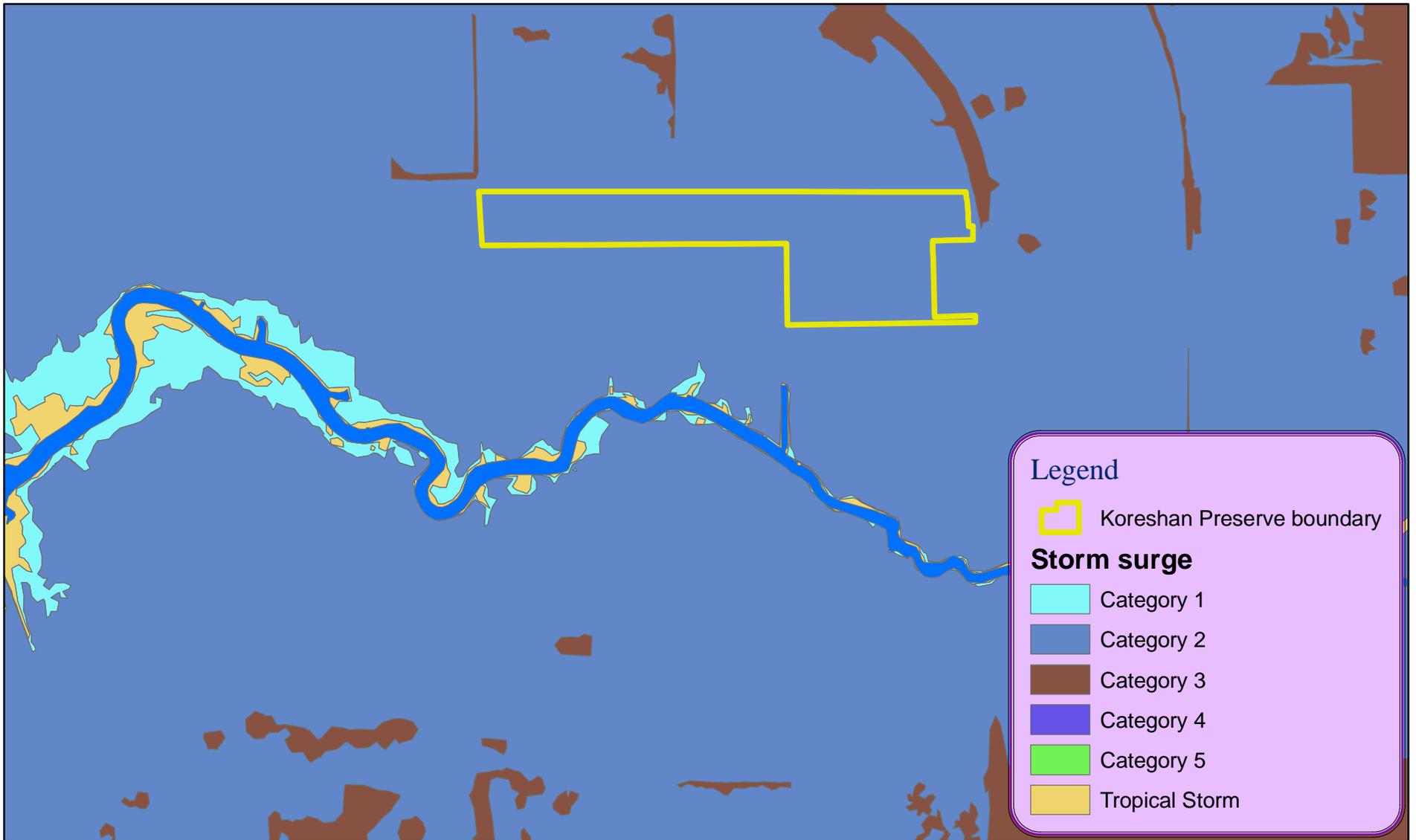


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Storm Surge Map



**Koreshan
Preserve**



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