

APPENDIX C

PERTINENT CORRESPONDENCE



**US Army Corps
of Engineers®**



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
701 San Marco Boulevard
JACKSONVILLE, FLORIDA 32207-8175

Planning and Policy Division
Environmental Branch

JAN 14 2019

Tim Parsons, Ph.D.
State Historic Preservation Officer
Division of Historical Resources
500 South Bronough Street
Tallahassee, Florida 32399-0250

Re: *C-111 South Dade Canal, S332B and S332C Pump Station Replacement Miami Dade County, Florida*

Dear Dr. Parsons:

The U.S. Army Corps of Engineers, Jacksonville District (Corps), is studying the environmental effects associated with modifications to the C-111 South Dade Canal System (SDCS) (Figure 1). Currently, temporary pump stations S-332B and S-332C move water from the L-31N Canal to the South and North Detention Areas located in the eastern Everglades National Park, Miami-Dade County (Figure 2). A permanent structure is proposed to replace each of these temporary pump stations several hundred feet to the south and west of the current locations. The relocated pump stations will also require a new, above-ground channel connecting each pump station to the water detention area to the west. The area of potential effects (APE) for this undertaking consists of a 2,135 feet by 400 feet area directly south of each pump station and their associated outlet channels.

The APE was surveyed by New South Associates (NSA) in 2006. NSA's report, *Cultural Resources Survey, C-111 Phase II and III*, identified two sites (8DA6514 and 8DA6515) and reconfirmed two previously recorded sites (8DA3210 and 8DA3218) all of which were determined to be potentially eligible for listing in the National Register of Historic Places (NRHP). The State Historic Preservation Officer (SHPO) concurred with these findings in a letter on June 28, 2006 (DHR Project File No.:2006-04979). These four aforementioned prehistoric sites will not be impacted by the proposed construction activities. No recorded archaeological sites exist along the L-31N Canal. The entire project footprint has been previously disturbed by construction and continued maintenance of the interim pump stations. Only existing roads will be utilized for project ingress and egress.

In summary, the Corps had determined that the proposed project modifications associated with the C-111 SDCS poses no effect to historic properties listed or eligible for listing in the NRHP. Pursuant to Section 106 of the National Historic Preservation Act (54 USC 300101), as amended and it's implementing regulations (36 CFR 800), the Corps kindly requests your comments on the determination of no effect within 30 days from receipt of this letter. If there are any questions or comments, please contact Mr. Ryan Clark at (904) 232-3634 or by e-mail at Ryan.N.Clark@usace.army.mil.

Sincerely,



Gina Paduano Ralph, Ph.D.
Chief, Environmental Branch

Enclosures

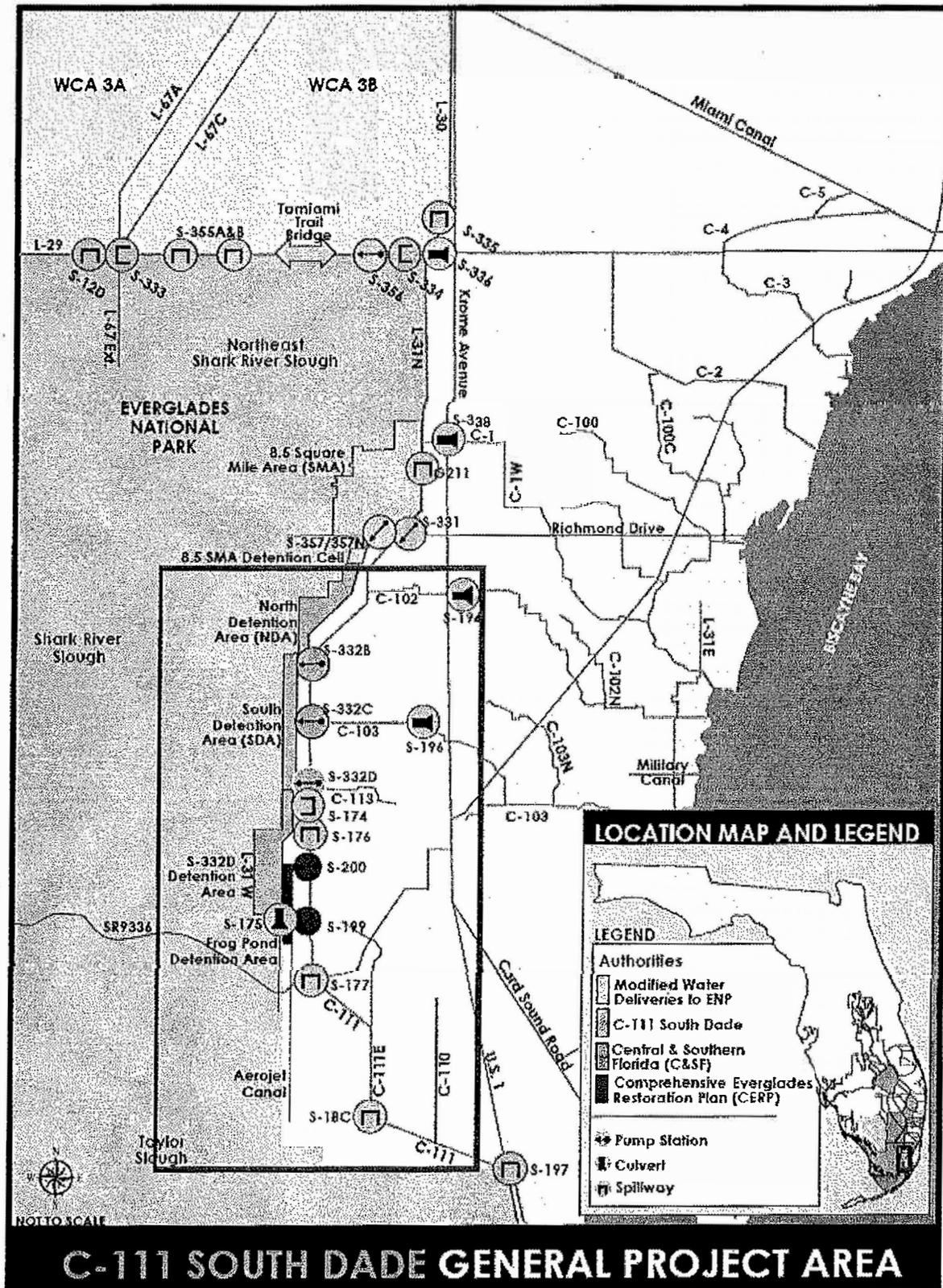
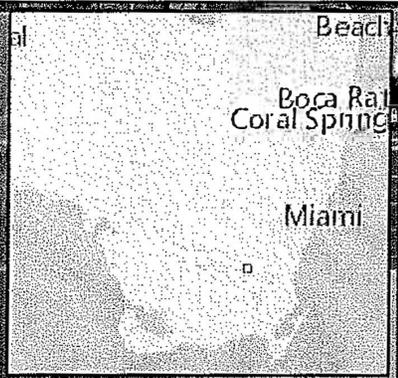
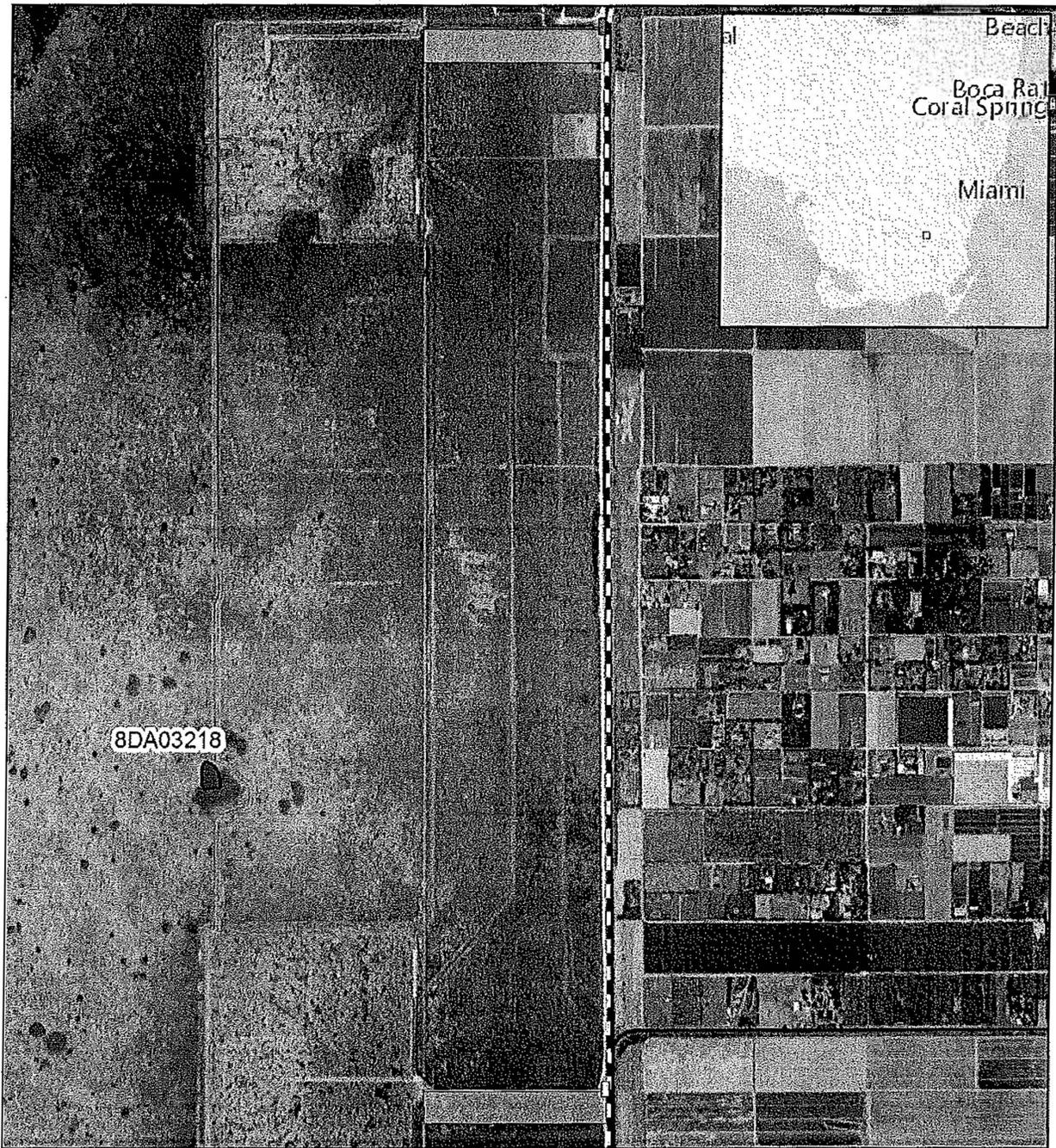


Figure 1. South Dade Canal System Location Map



8DA03218



US Army Corps
of Engineers®
Jacksonville District

C-111 South Dade Canal
S332B and S332C
Pump Station Replacement

Miami Dade County
Florida

-  Existing S332B
-  Existing S332C
-  Canal: L31N
-  APE



Figure 2. Project Area Map



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
701 SAN MARCO BOULEVARD
JACKSONVILLE, FLORIDA 32207-0019

REPLY TO
ATTENTION OF

Planning and Policy Division
Environmental Branch

JAN 14 2019

Mr. Terry Clouthier
Tribal Historic Preservation Officer
Thlopthlocco Tribal Town
PO Box 188
Okemah, Ok 74859

Re: *C-111 South Dade Canal, S332B and S332C Pump Station Replacement Miami Dade County, Florida*

Dear Mr. Clouthier:

The U.S. Army Corps of Engineers, Jacksonville District (Corps), is studying the environmental effects associated with modifications to the C-111 South Dade Canal System (SDCS) (Figure 1). Currently, temporary pump stations S-332B and S-332C move water from the L-31N Canal to the South and North Detention Areas located in the eastern Everglades National Park, Miami-Dade County (Figure 2). A permanent structure is proposed to replace each of these temporary pump stations several hundred feet to the south and west of the current locations. The relocated pump stations will also require a new, above-ground channel connecting each pump station to the water detention area to the west. The area of potential effects (APE) for this undertaking consists of a 2,135 feet by 400 feet area directly south of each pump station and their associated outlet channels.

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In summary, the Corps had determined that the proposed project modifications associated with the C-111 SDCS poses no effect to historic properties listed or eligible for listing in the NRHP. Pursuant to Section 106 of the National Historic Preservation Act (54 USC 300101), as amended and it's implementing regulations (36 CFR 800), and in consideration of the Corps' Trust Responsibilities to the Thlopthlocco Tribal Town, the Corps kindly requests continued consultation on this project. Please send any comments within 30 calendar days of receipt of this letter. If there are any questions or comments, please contact Mr. Ryan Clark at (904) 232-3634 or by e-mail at Ryan.N.Clark@usace.army.mil.

Sincerely,



Gina Paduano Ralph, Ph.D.
Chief, Environmental Branch

Enclosure

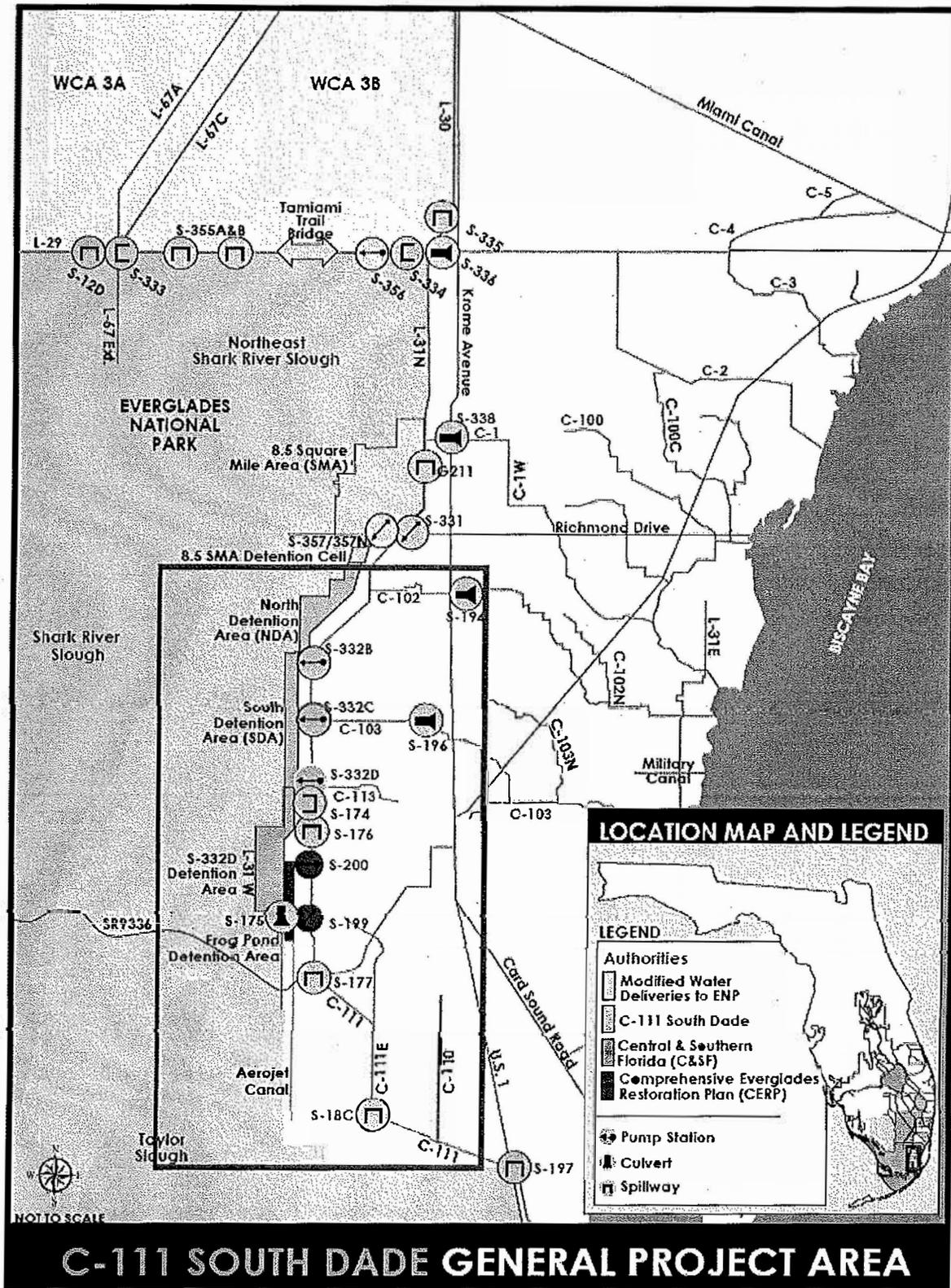
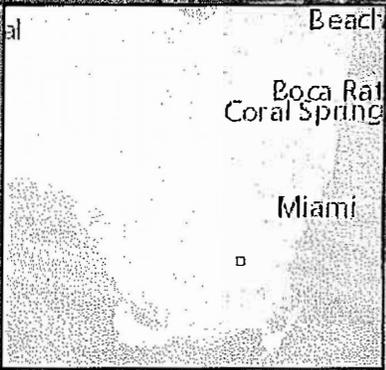


Figure 7. South Dade Canal System Location Map



8DA03218



US Army Corps
of Engineers ®
Jacksonville District

C-111 South Dade Canal
S332B and S332C
Pump Station Replacement

Miami Dade County
Florida

 Existing S332B

 Existing S332C

 Canal: L31N

 APE



0  2,500
Feet

Figure 8. Project Area Map



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
701 San Marco Boulevard
JACKSONVILLE, FLORIDA 32207-8175

Planning and Policy Division
Environmental Branch

JAN 14 2019

Mr. Theodore Isham
Historic Preservation Officer
Seminole Nation of Oklahoma
PO Box 1498
Wewoka, Ok 74884

Re: *C-111 South Dade Canal, S332B and S332C Pump Station Replacement Miami Dade County, Florida*

Dear Mr. Isham:

The U.S. Army Corps of Engineers, Jacksonville District (Corps), is studying the environmental effects associated with modifications to the C-111 South Dade Canal System (SDCS) (Figure 1). Currently, temporary pump stations S-332B and S-332C move water from the L-31N Canal to the South and North Detention Areas located in the eastern Everglades National Park, Miami-Dade County (Figure 2). A permanent structure is proposed to replace each of these temporary pump stations several hundred feet to the south and west of the current locations. The relocated pump stations will also require a new, above-ground channel connecting each pump station to the water detention area to the west. The area of potential effects (APE) for this undertaking consists of a 2,135 feet by 400 feet area directly south of each pump station and their associated outlet channels.

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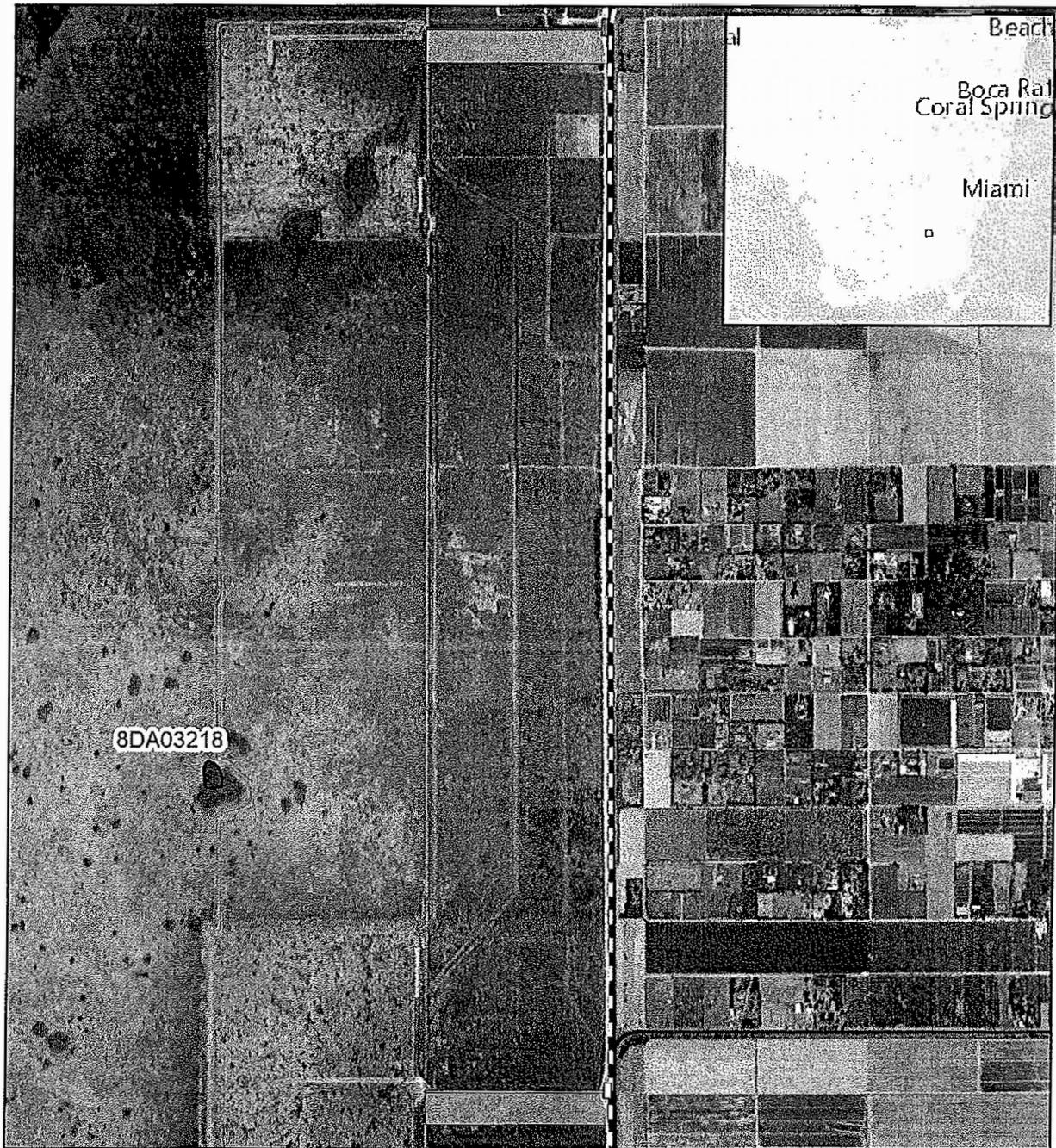
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Sincerely,



Gina Paduano Ralph, Ph.D.
Chief, Environmental Branch

Enclosures



8DA03218



US Army Corps
of Engineers®
Jacksonville District

C-111 South Dade Canal
S332B and S332C
Pump Station Replacement

Miami Dade County
Florida

 Existing S332B

 Existing S332C

 Canal: L31N

 APE

0 2,500
Feet



Figure 6. Project Area Map



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
701 San Marco Boulevard
JACKSONVILLE, FLORIDA 32207-8175

Planning and Policy Division
Environmental Branch

JAN 14 2019

Dr. Paul Backhouse, THPO
Seminole Tribe of Florida
Tribe Historic Preservation Office
30290 Josie Billie Highway
PMP 1004
Clewiston, FL 33440

Re: *C-111 South Dade Canal, S332B and S332C Pump Station Replacement Miami Dade County, Florida*

Dear Dr. Backhouse:

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Chief, Environmental Branch

Enclosures

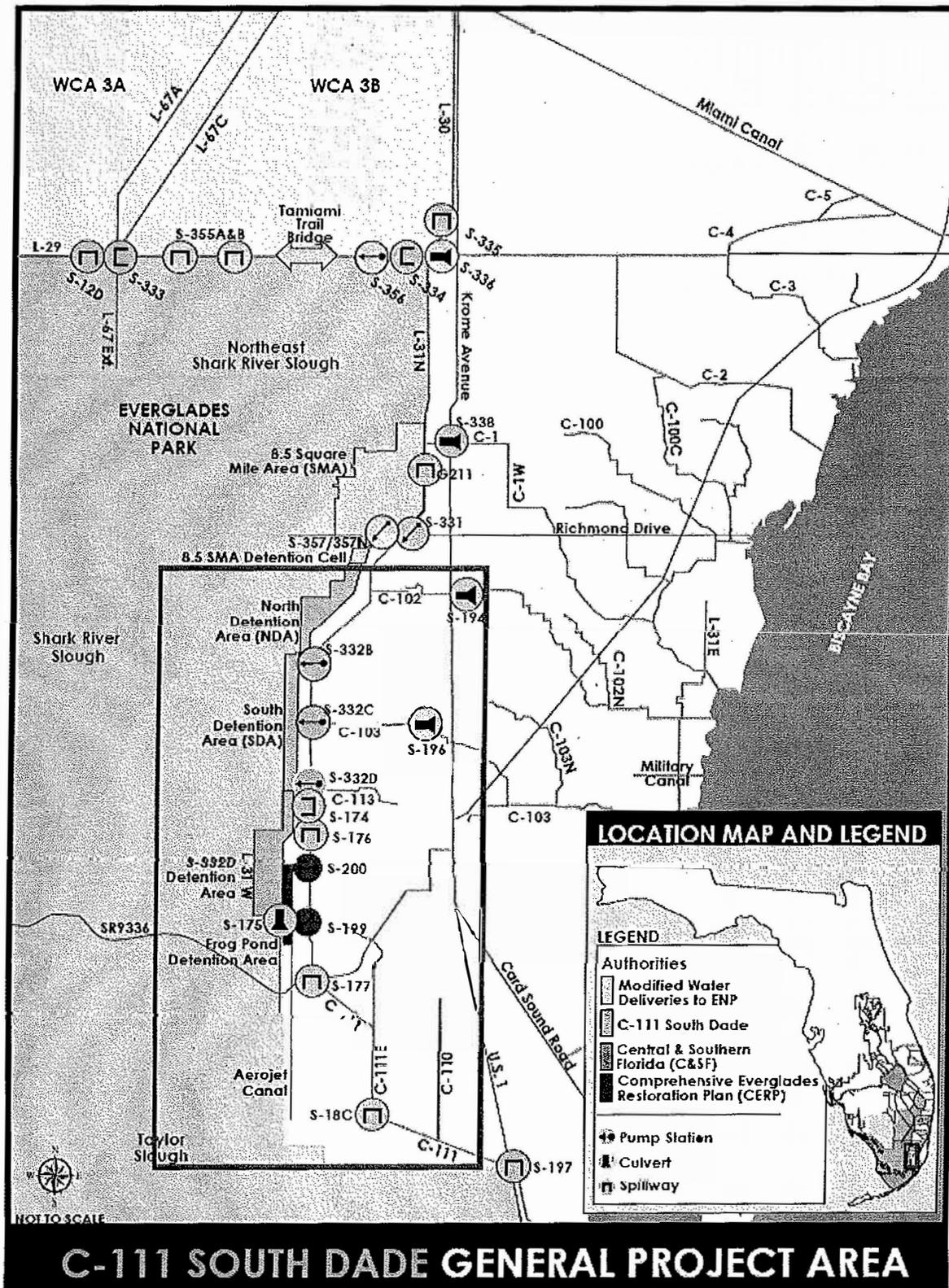
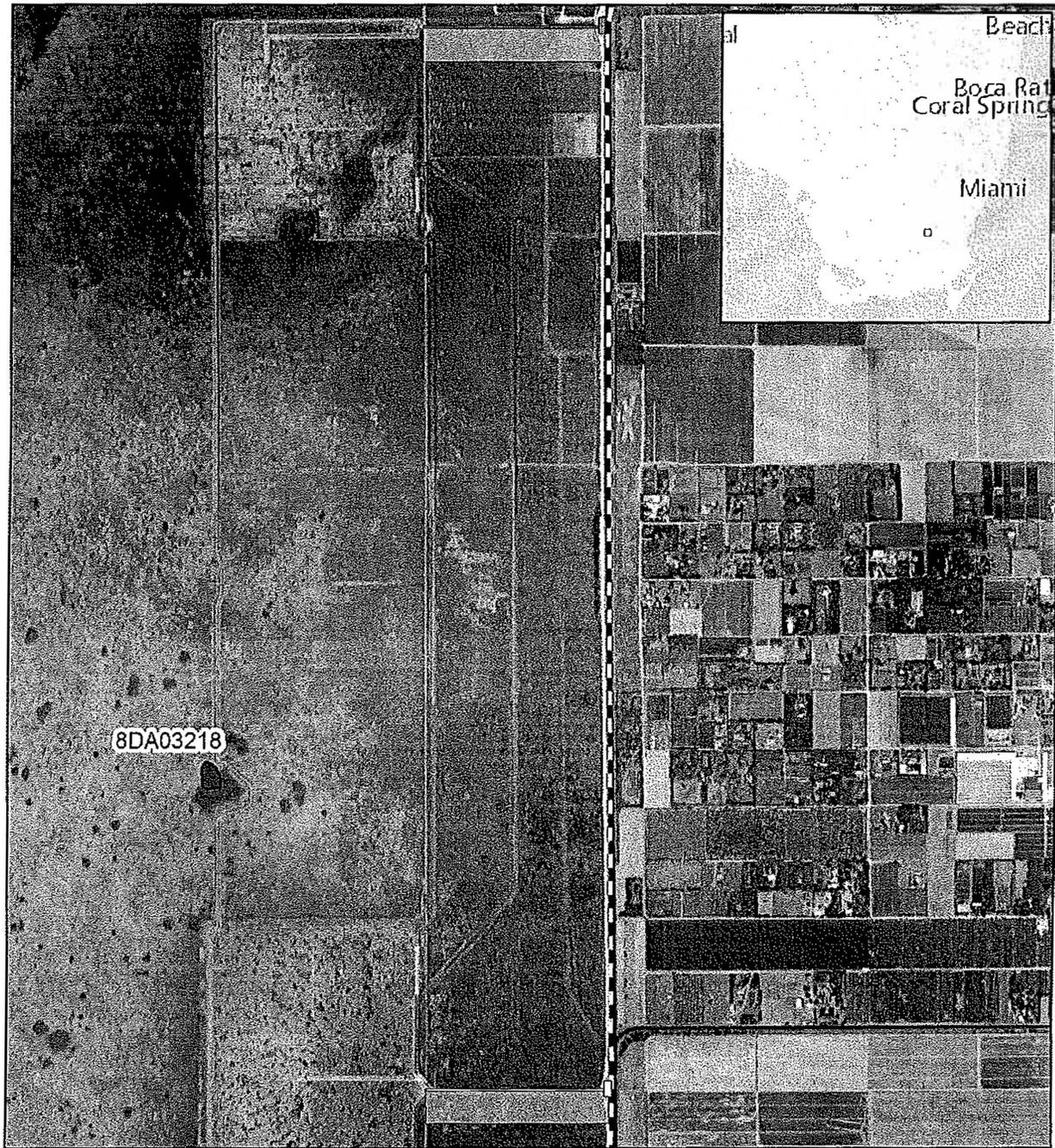


Figure 1. South Dade Canal System Location Map



8DA03218



**US Army Corps
of Engineers** ©
Jacksonville District

C-111 South Dade Canal
S332B and S332C
Pump Station Replacement

Miami Dade County
Florida

 Existing S332B

 Existing S332C

 Canal: L31N

 APE

0 2,500
Feet



Figure 2. Project Area Map



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
701 San Marco Boulevard
JACKSONVILLE, FLORIDA 32207-8175

Planning and Policy Division
Environmental Branch

JAN 4 2019

Mr. Fred Dayhoff, Tribal Representative
NAGPRA, Section 106
Miccosukee Tribe of Indians of Florida
HC 61 SR 68
Ochopee, Florida 34141

Re: *C-111 South Dade Canal, S332B and S332C Pump Station Replacement Miami Dade County, Florida*

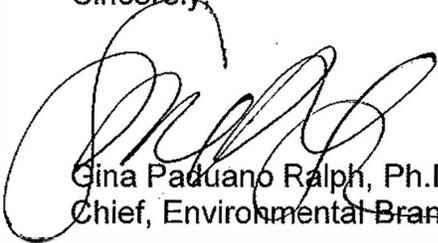
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Sincerely,



Gina Paduano Ralph, Ph.D.
Chief, Environmental Branch

Enclosure,

cc:

Hope Lovemore, P.O. Box 440021, Tamiami Station, Miami, FL 33144

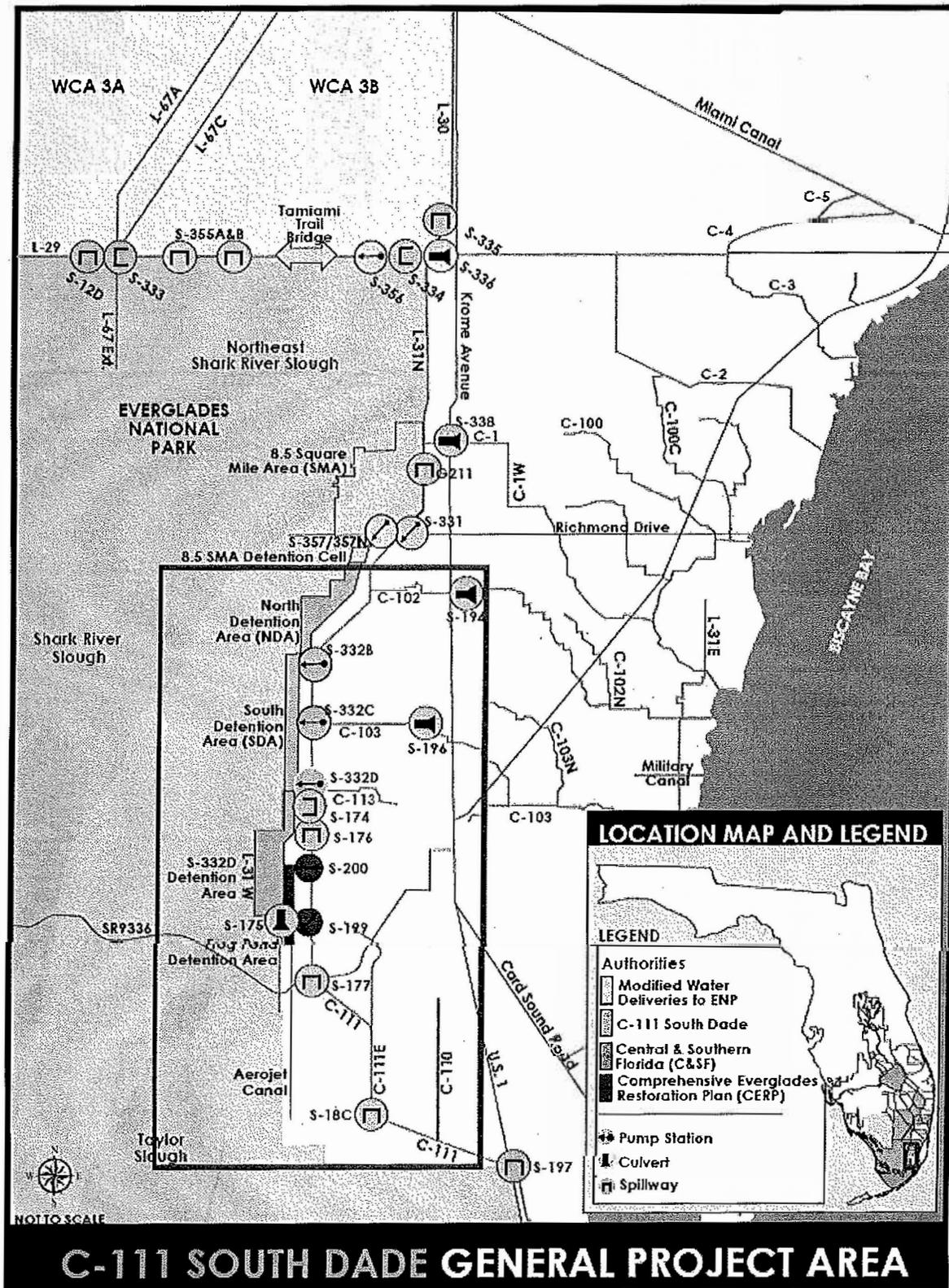


Figure 3. South Dade Canal System Location Map



C-111 South Dade Canal
S332B and S332C
Pump Station Replacement

Miami Dade County
Florida

	Existing S332B
	Existing S332C
	Canal: L31N
	APE

0 2,500 Feet



Figure 4. Project Area Map

From: [Theodore Isham](#)
To: [Clark, Ryan N CIV USARMY CESAJ \(USA\)](#)
Subject: [Non-DoD Source] SNO Response to USACE Project C-111 South Dade Canal
Date: Thursday, February 14, 2019 5:54:37 PM

This Opinion is being provided by Seminole Nation of Oklahoma's Cultural Advisor, pursuant to authority vested by the Seminole Nation of Oklahoma General Council. The Seminole Nation of Oklahoma is an independently Federally-Recognized Indian Nation headquartered in Wewoka, OK.

In keeping with the National Environmental Policy Act (NEPA), and Section 106 of the National Historic Preservation Act (NHPA), 36 CFR Part 800, this letter is to acknowledge that the Seminole Nation of Oklahoma has received notice of the proposed projects at the above mentioned locations.

Based on the information provided and because the potential for buried cultural resources, the proposed projects have a probability of affecting archaeological resources, some of which may be eligible for listing in the National Register of Historic Places (NRHP), even in previously disturbed land.

The Seminole Nation of Oklahoma request that a literature/phase I survey of the nearby archaeological sites from the states master site files be completed. (Within 1 mile of each APE)

We do request that if cultural or archeological resource materials are encountered at all activity cease and the Seminole Nation of Oklahoma and other appropriate agencies be contacted immediately.

Furthermore, due to the historic presence of our people in the project area, inadvertent discoveries of human remains and related NAGPRA items may occur, even in areas of existing or prior development. Should this occur we request all work cease and the Seminole Nation of Oklahoma and other appropriate agencies be immediately notified.

Theodore Isham

Seminole Nation of Oklahoma

Historic Preservation Officer

PO Box 1498

Wewoka, Ok 74884

Phone: 405-234-5218

e-mail: isham.t@sno-nsn.gov <<mailto:isham.t@sno-nsn.gov>>



FLORIDA DEPARTMENT of STATE

RON DESANTIS
Governor

LAUREL M. LEE
Secretary of State

Department of the Army
Jacksonville District Corps of Engineers
701 San Marco Boulevard
Jacksonville, FL 32207-8175

February 15, 2019

RE: DHR Project File No.: 2019-0299, Received by DHR: January 17, 2019
Project Name: *C-111 South Dade Canal, S332B and S332C Pump Station Replacement Miami Dade County, Florida*
County: Miami-Dade

To Whom It May Concern:

The Florida State Historic Preservation Officer reviewed the referenced project for possible effects on historic properties listed, or eligible for listing, on the *National Register of Historic Places*. The review was conducted in accordance with Section 106 of the *National Historic Preservation Act of 1966*, as amended, and its implementing regulations in *36 CFR Part 800: Protection of Historic Properties*.

Based on the information provided, our office concurs with the U.S. Army Corps of Engineers' determination that the proposed project modifications associated with the C-111 SDCS will have no effect on historic properties listed, or eligible for listing, in the *National Register of Historic Places*. However, unexpected finds may occur during ground disturbing activities, and we request that the permit, if issued, should include the following special condition regarding inadvertent discoveries:

- If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlement are encountered at any time within the project site area, the permitted project shall cease all activities involving subsurface disturbance in the vicinity of the discovery. The applicant shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section at (850)-245-6333. Project activities shall not resume without verbal and/or written authorization. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, *Florida Statutes*.

If you have any questions, please contact Kristen Hall, Historic Sites Specialist, by email at *Kristen.Hall@dos.myflorida.com*, or by telephone at 850.245.6342 or 800.847.7278.

Sincerely,

Timothy A Parsons, Ph.D.
Director, Division of Historical Resources & State Historic Preservation Officer

Division of Historical Resources
R.A. Gray Building • 500 South Bronough Street • Tallahassee, Florida 32399
850.245.6300 • 850.245.6436 (Fax) FLHeritage.com





DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
701 San Marco Boulevard
JACKSONVILLE, FLORIDA 32207-8175

Planning and Policy Division
Environmental Branch

26 NOV 2019

Dr. Paul Backhouse, THPO
Seminole Tribe of Florida
Tribal Historic Preservation Office
30290 Josie Billie Highway, PMP 1004
Clewiston, FL 33440

Re: *C-111 South Dade Canal, S332B and S332C Pump Station Replacement Miami Dade County, Florida*

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The APE was surveyed by New South Associates (NSA) in 2006. NSA's report, *Cultural Resources Survey, C-111 Phase II and III*, identified two sites (8DA6514 and 8DA6515) and reconfirmed two previously recorded sites (8DA3210 and 8DA3218) all of which were determined to be potentially eligible for listing in the National Register of Historic Places (NRHP). The State Historic Preservation Officer (SHPO) concurred with these findings in a letter on June 28, 2006 (DHR Project File No.:2006-04979).

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Sincerely,

A handwritten signature in black ink, appearing to read "Angela E. Dunn". The signature is fluid and cursive, with a long horizontal stroke at the end.

Angela E. Dunn
Chief, Environmental Branch

Enclosures

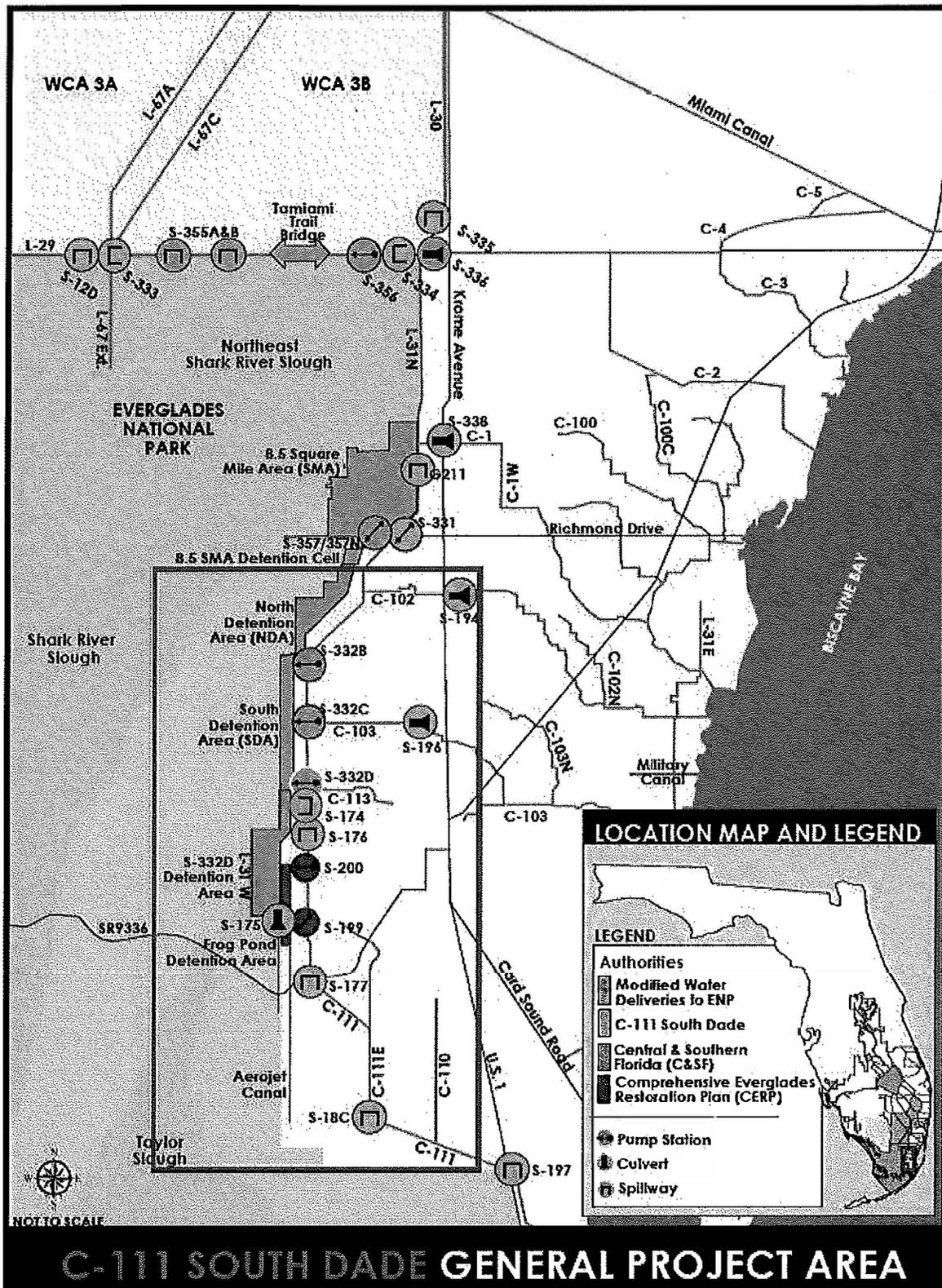
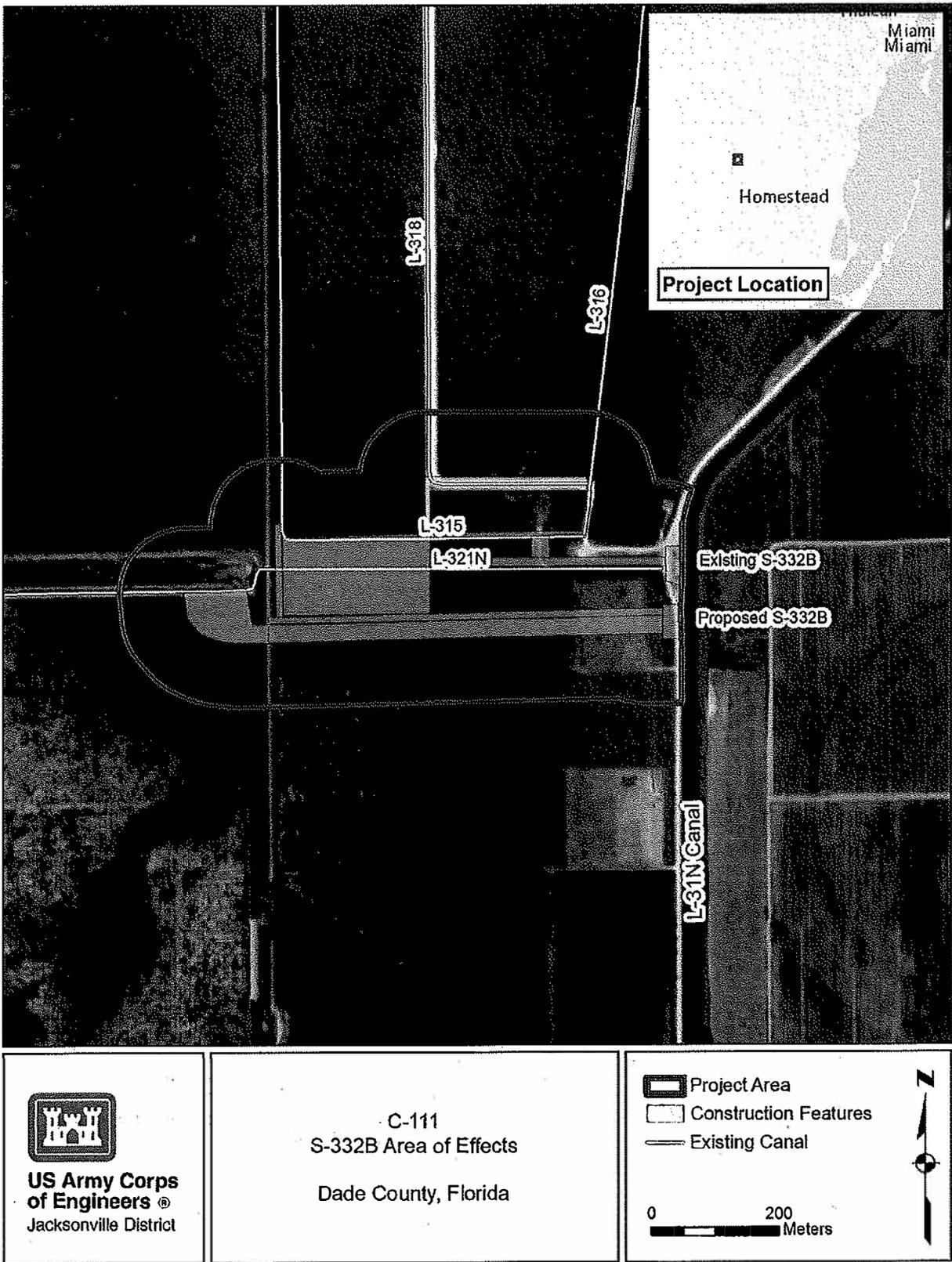


Figure 1. South Dade Canal System Location Map




**US Army Corps
of Engineers**®
 Jacksonville District

C-111
 S-332B Area of Effects
 Dade County, Florida


 Project Area
 Construction Features
 Existing Canal
 0 200
 Meters


Figure 2. S-332B Project Area Map



Figure 3. S-332C Project Area Map



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
701 San Marco Boulevard
JACKSONVILLE, FLORIDA 32207-8175

Planning and Policy Division
Environmental Branch

26 NOV 2019

Mr. Kevin Donaldson, Tribal Representative
NAGPRA, Section 106
Miccosukee Tribe of Indians of Florida
P.O. Box 44021
Tamiami Station
Miami, Florida 33144

Re: *C-111 South Dade Canal, S332B and S332C Pump Station Replacement Miami Dade County, Florida*

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Enclosures

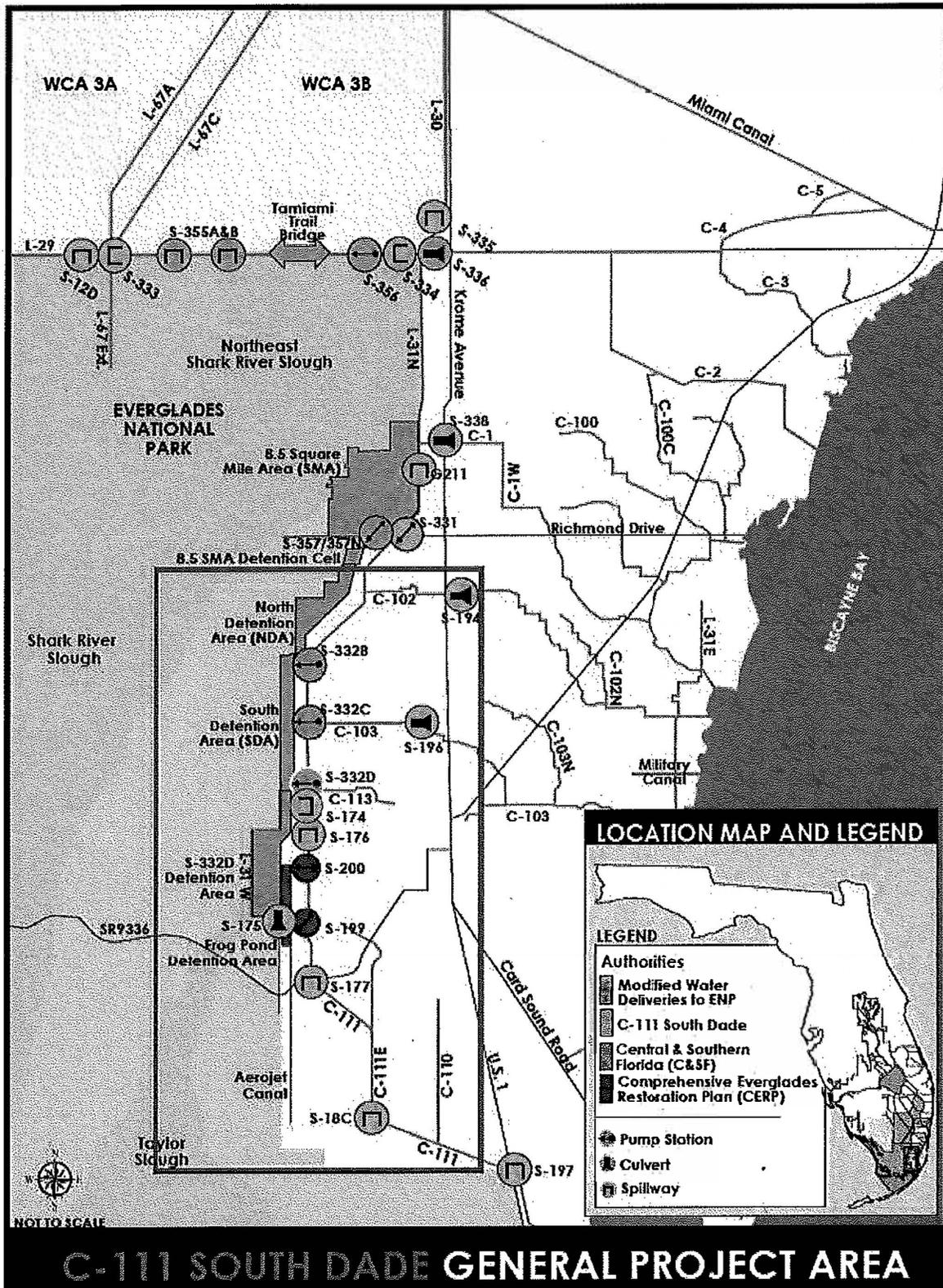


Figure 1. South Dade Canal System Location Map

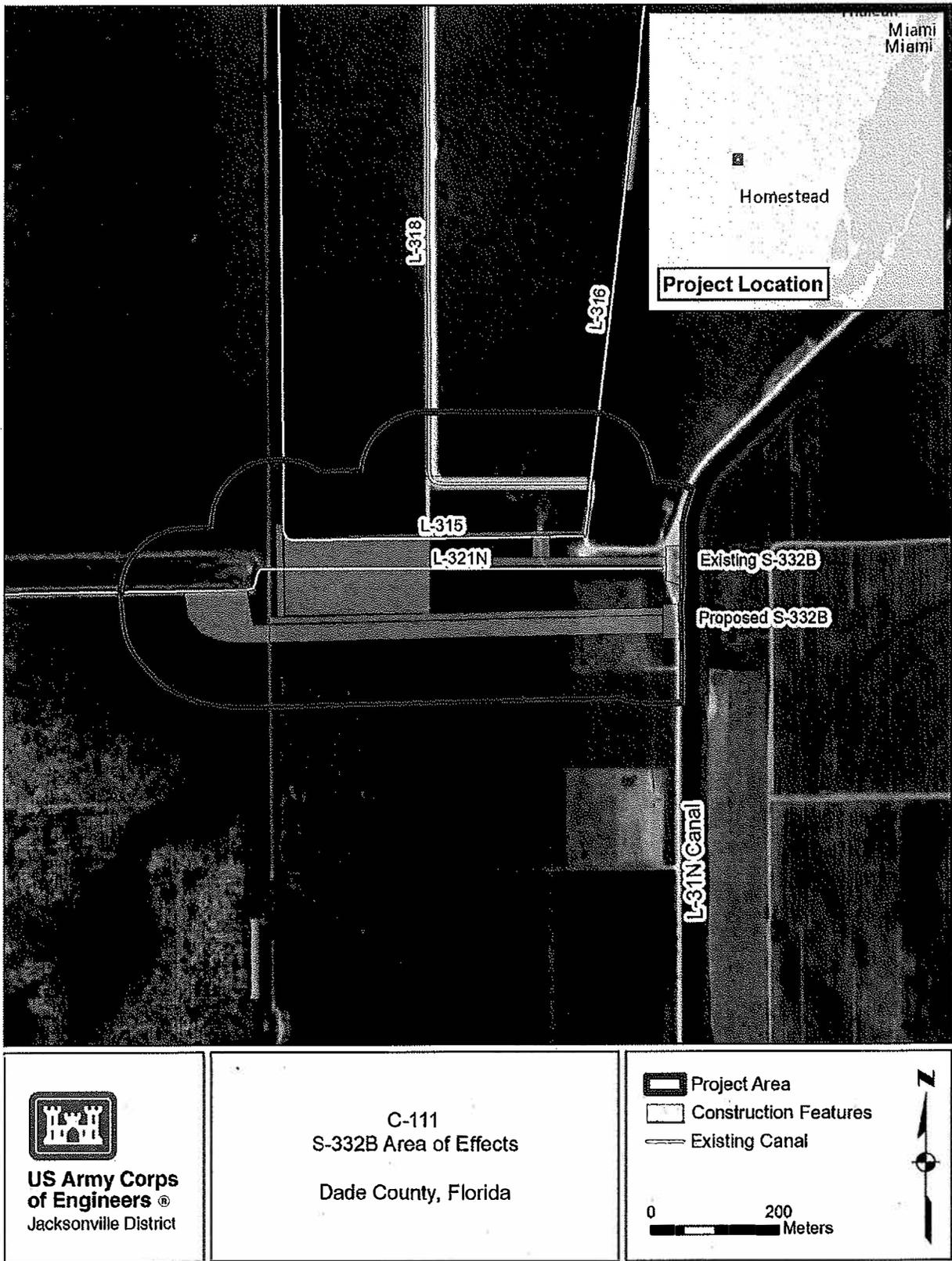


Figure 2. S-332B Project Area Map



Figure 3. S-332C Project Area Map



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
701 San Marco Boulevard
JACKSONVILLE, FLORIDA 32207-8175

Planning and Policy Division
Environmental Branch

26 NOV 2019

Mr. Theodore Isham
Historic Preservation Officer
Seminole Nation of Oklahoma
PO Box 1498
Wewoka, Ok 74884

Re: *C-111 South Dade Canal, S332B and S332C Pump Station Replacement Miami Dade County, Florida*

Dear Mr. Isham:

The U.S. Army Corps of Engineers, Jacksonville District (Corps), is studying the environmental effects associated with modifications to the C-111 South Dade Canal System (SDCS) (Figure 1). Currently, interim pump stations S-332B and S-332C move water from the L-31N Canal to the South and North Detention Areas located in the eastern Everglades National Park, Miami-Dade County (Figure 1, Figure 2). The Corps had previously consulted with your office in regards to the Corps effects determination and area of potential effects (APE) in a letter dated January 14, 2019. After screening the alternative plans, a project design footprint that differs from the previously consulted APE was selected. The updated Recommended Plan consists of constructing new permanent, hardened structures including two pump stations in an offset of approximately 300 feet south and 300 feet west from the existing S-332B and S-332C temporary pump station locations along L-31N canal location of the existing S-332B and S-332C interim pump stations. The plan also includes a short concrete lined discharge channel with an expanded North Detention Area (NDA) connection, which would be connected to the existing South Detention Area (SDA) S-332B flow way by a parallel weir. The NDA southern levee will be relocated south in direction of the offset, resulting in an expansion of approximately 6.1 acres. The short concrete lined discharge channel will replace the existing corrugated metal pipes to connect the pump station releases to the SDA by a parallel weir. The APE for this undertaking now consists of approximately 35 acres, an increase of approximately six acres, with each of the proposed channels extending from the pump station to the existing flow-way in the west.

The APE was surveyed by New South Associates (NSA) in 2006. NSA's report, *Cultural Resources Survey, C-111 Phase II and III*, identified two sites (8DA6514 and 8DA6515) and reconfirmed two previously recorded sites (8DA3210 and 8DA3218) all of which were determined to be potentially eligible for listing in the National Register of Historic Places (NRHP). The State Historic Preservation Officer (SHPO) concurred with these findings in a letter on June 28, 2006 (DHR Project File No.:2006-04979). These four aforementioned prehistoric sites will not be impacted by the proposed construction activities. No recorded archaeological sites exist along the L-31N Canal. The entire project footprint has been previously disturbed by construction and continued maintenance of the interim pump stations. Only existing roads will be utilized for project ingress and egress.

In summary, the Corps maintains its previous determination that the proposed project modifications associated with the C-111 SDCS poses no effect to historic properties listed or eligible for listing in the NRHP. Pursuant to Section 106 of the National Historic Preservation Act (54 USC 300101), as amended and its implementing regulations (36 CFR 800), the Corps kindly requests your comments on the determination of no effect within 30 days from receipt of this letter. If there are any questions or comments, please contact Mr. Ryan Clark at (904) 232-3634 or by e-mail at Ryan.N.Clark@usace.army.mil.

Sincerely,



Angela E. Dunn
Chief, Environmental Branch

Enclosures

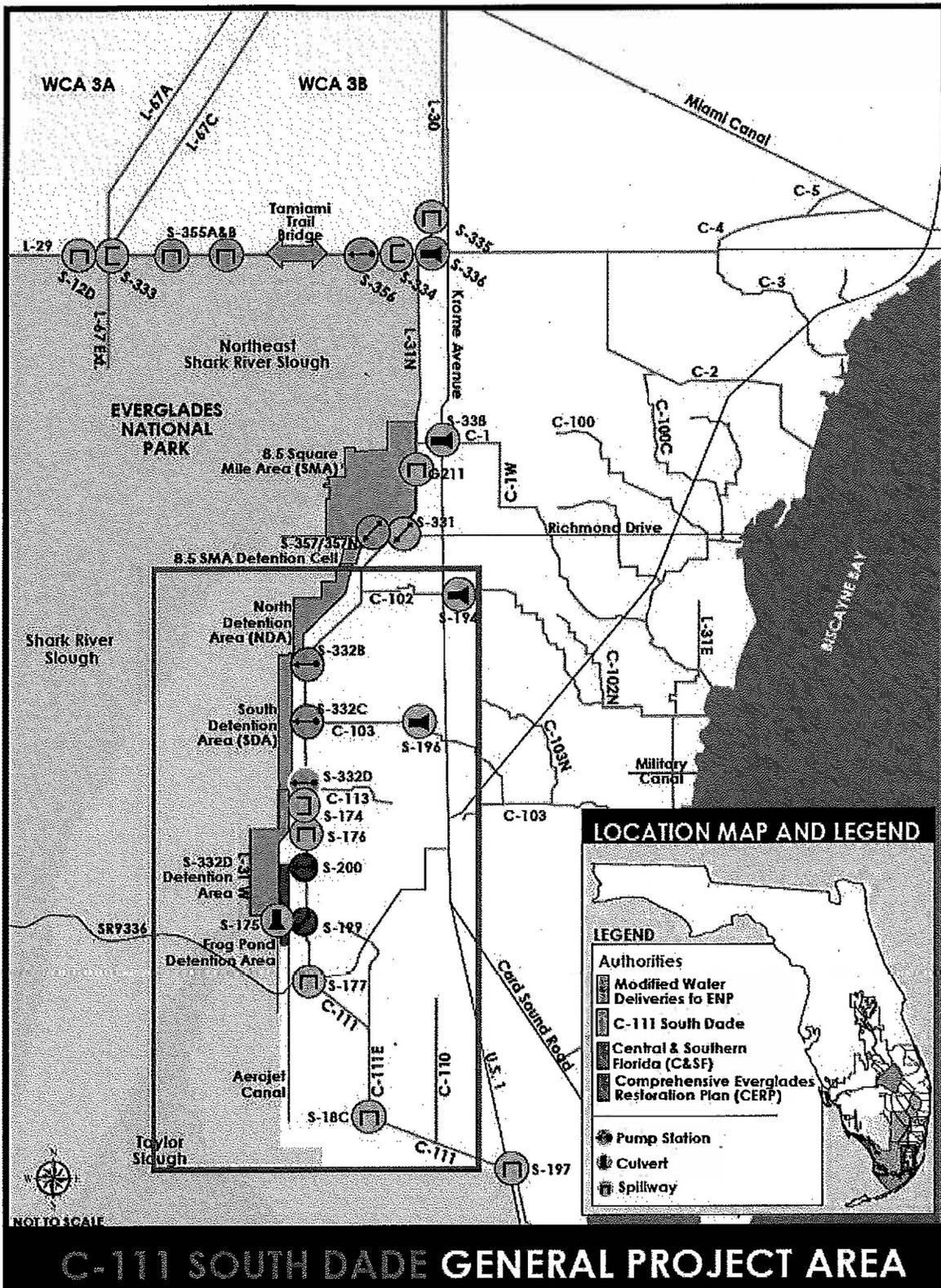


Figure 1. South Dade Canal System Location Map

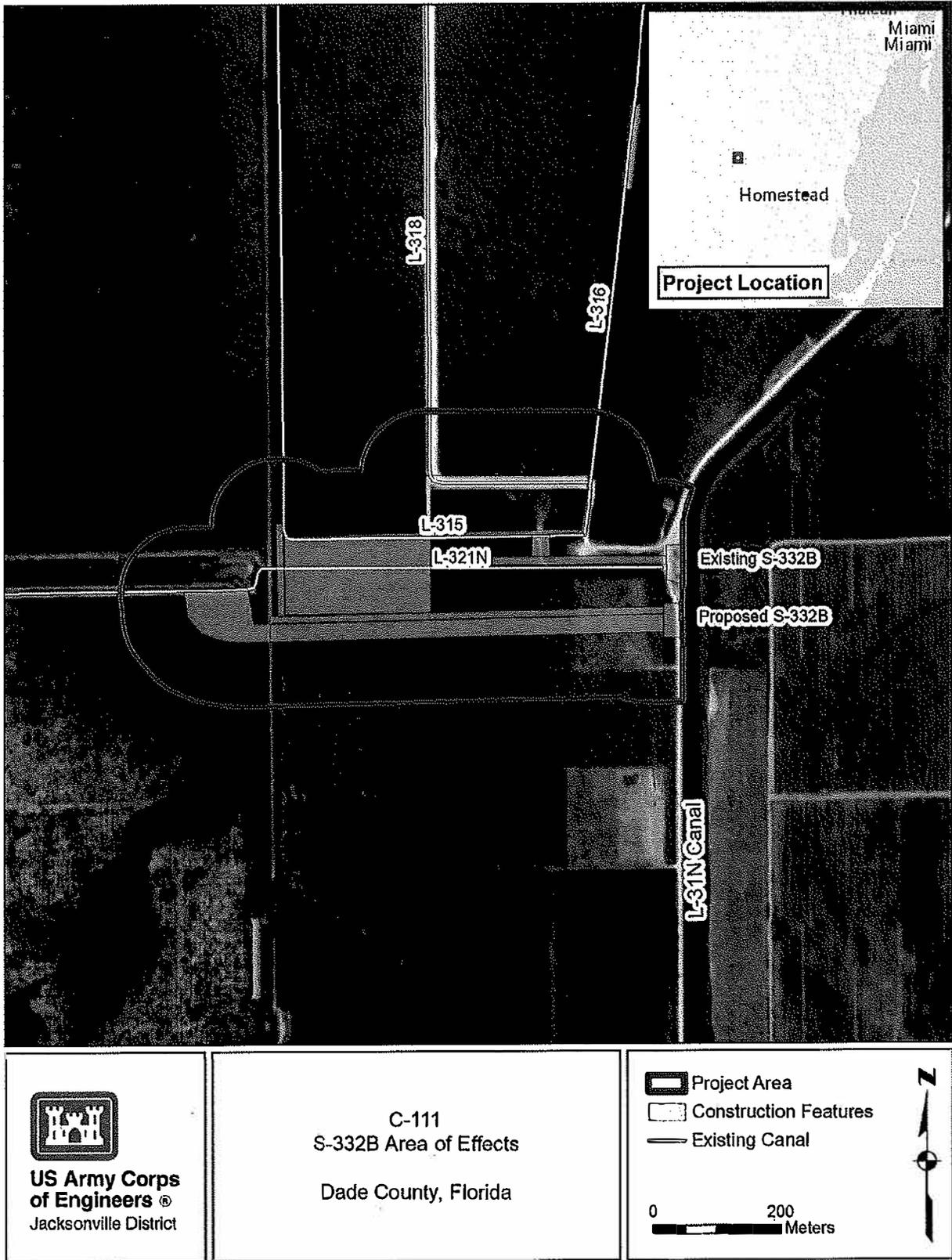


Figure 2. S-332B Project Area Map



Figure 3. S-332C Project Area Map



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
701 SAN MARCO BOULEVARD
JACKSONVILLE, FLORIDA 32207-0019

26 NOV 2019

Planning and Policy Division
Environmental Branch

Ms. Janet Maylen
Tribal Historic Preservation Officer
Thlopthlocco Tribal Town
PO Box 188
Okemah, Ok 74859

Re: *C-111 South Dade Canal, S332B and S332C Pump Station Replacement Miami Dade County, Florida*

Dear Mr. Clouthier:

The U.S. Army Corps of Engineers, Jacksonville District (Corps), is studying the environmental effects associated with modifications to the C-111 South Dade Canal System (SDCS) (Figure 1). Currently, interim pump stations S-332B and S-332C move water from the L-31N Canal to the South and North Detention Areas located in the eastern Everglades National Park, Miami-Dade County (Figure 1, Figure 2). The Corps had previously consulted with your office in regards to the Corps effects determination and area of potential effects (APE) in a letter dated January 14, 2019. After screening the alternative plans, a project design footprint that differs from the previously consulted APE was selected. The updated Recommended Plan consists of constructing new permanent, hardened structures including two pump stations in an offset of approximately 300 feet south and 300 feet west from the existing S-332B and S-332C temporary pump station locations along L-31N canal location of the existing S-332B and S-332C interim pump stations. The plan also includes a short concrete lined discharge channel with an expanded North Detention Area (NDA) connection, which would be connected to the existing South Detention Area (SDA) S-332B flow way by a parallel weir. The NDA southern levee will be relocated south in direction of the offset, resulting in an expansion of approximately 6.1 acres. The short concrete lined discharge channel will replace the existing corrugated metal pipes to connect the pump station releases to the SDA by a parallel weir. The APE for this undertaking now consists of approximately 35 acres, an increase of approximately six acres, with each of the proposed channels extending from the pump station to the existing flow-way in the west.

The APE was surveyed by New South Associates (NSA) in 2006. NSA's report, *Cultural Resources Survey, C-111 Phase II and III*, identified two sites (8DA6514 and 8DA6515) and reconfirmed two previously recorded sites (8DA3210 and 8DA3218) all of which were determined to be potentially eligible for listing in the National Register of Historic Places (NRHP). The State Historic Preservation Officer (SHPO) concurred with these findings in a letter on June 28, 2006 (DHR Project File No.:2006-04979). These four aforementioned prehistoric sites will not be impacted by the proposed construction activities. No recorded archaeological sites exist along the L-31N Canal. The entire project footprint has been previously disturbed by construction and continued maintenance of the interim pump stations. Only existing roads will be utilized for project ingress and egress.

In summary, the Corps maintains its previous determination that the proposed project modifications associated with the C-111 SDCS poses no effect to historic properties listed or eligible for listing in the NRHP. Pursuant to Section 106 of the National Historic Preservation Act (54 USC 300101), as amended and its implementing regulations (36 CFR 800), the Corps kindly requests your comments on the determination of no effect within 30 days from receipt of this letter. If there are any questions or comments, please contact Mr. Ryan Clark at (904) 232-3634 or by e-mail at Ryan.N.Clark@usace.army.mil.

Sincerely,

A handwritten signature in black ink, appearing to read "Angela E. Dunn". The signature is fluid and cursive, with the first name being the most prominent.

Angela E. Dunn
Chief, Environmental Branch

Enclosures

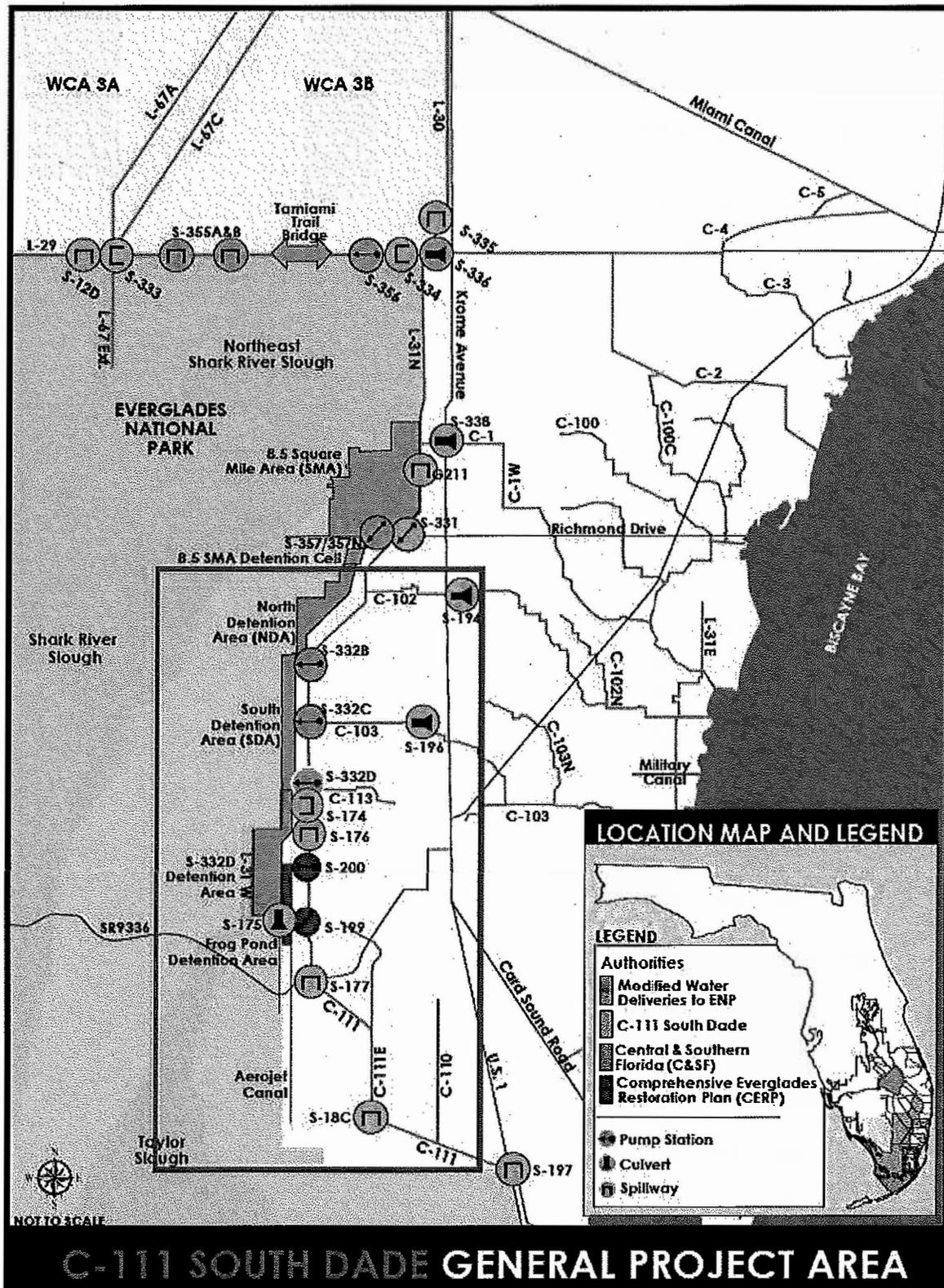
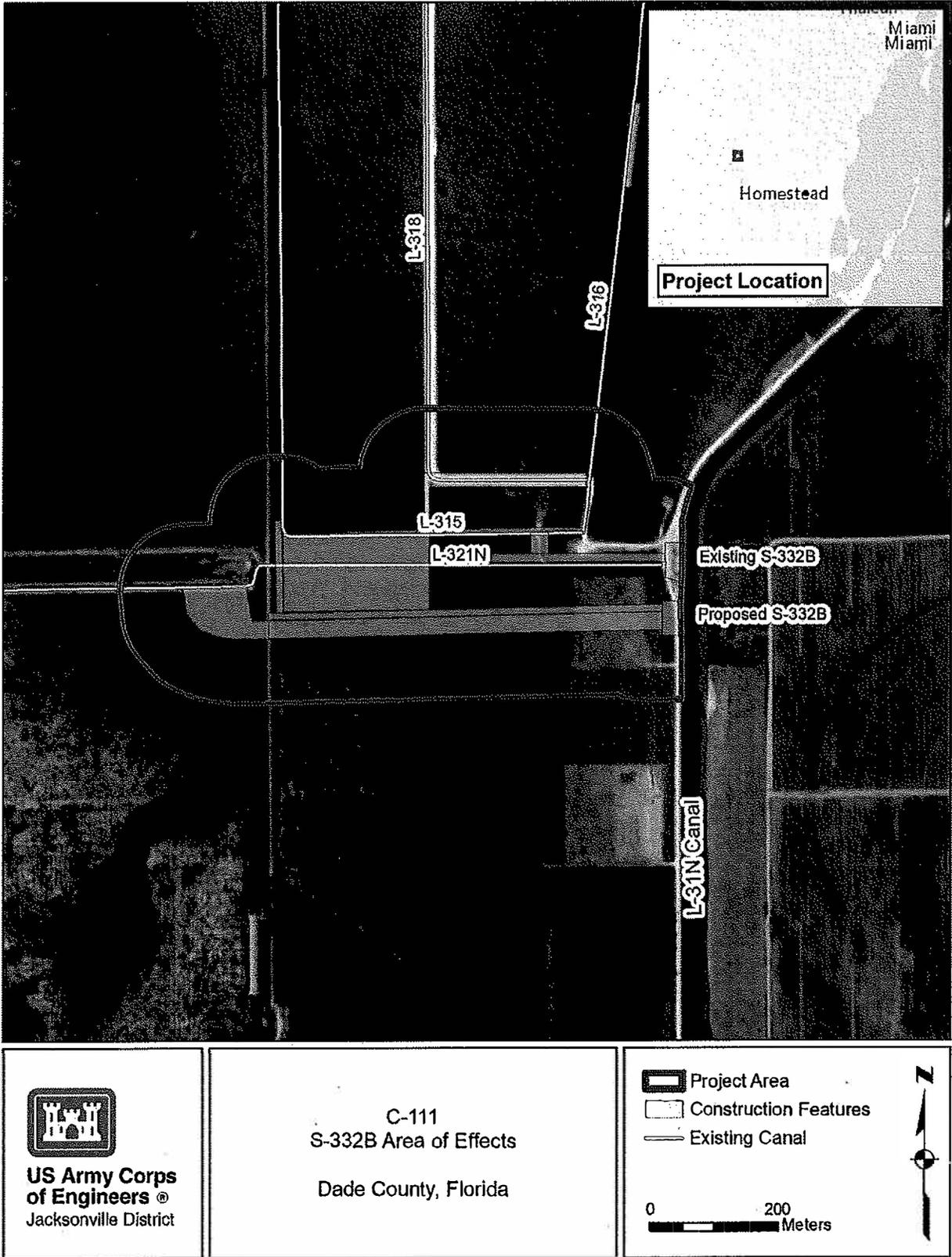


Figure 1. South Dade Canal System Location Map




**US Army Corps
of Engineers**®
 Jacksonville District

C-111
 S-332B Area of Effects

 Dade County, Florida


 Project Area
 Construction Features
 Existing Canal

0 200
 Meters



Figure 2. S-332B Project Area Map



Figure 3. S-332C Project Area Map



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
701 San Marco Boulevard
JACKSONVILLE, FLORIDA 32207-8175

Planning and Policy Division
Environmental Branch

MAR 05 2019

Mr. Larry Williams, Field Supervisor
U.S. Fish and Wildlife Service
1339 20th Street
Vero Beach, FL 32960

Dear Mr. Williams:

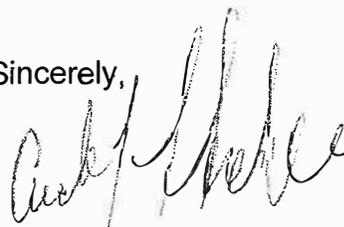
The Jacksonville District, U.S. Army Corps of Engineers (Corps) is beginning preparation of an Integrated National Environmental Policy Act (NEPA) Environmental Assessment and Limited Re-evaluation Report (LRR) to assess a pump station replacement project consisting of building new permanent 332B and 332C pump stations with reconfigured outflow structures. Project alternatives include construction in existing pump station footprint or build the new stations adjacent to the existing structures, while maintaining water delivery and flood control to Everglades National Park (ENP) and Canal 111 (C-111) South Dade Projects (C-111 SD) per approved water control plan. The action area is located in Miami-Dade County between the City of Homestead and the eastern Everglades in Southern Florida.

The existing 332B and 332C interim pump stations were built quickly as a temporary solution to water delivery requirements for the recovery of the Cape Sable Seaside Sparrow (CSSS). The purpose of these pump stations are to maintain the flood damage reduction level of service for the C-111 Basin, as well as to generate the hydraulic ridge between the L-31N Borrow Canal and ENP. The hydraulic ridge reduces the seepage loss from ENP to maintain CSSS habitat. The current temporary pump stations deliver water from the L-31N borrow canal to the C-111SD detention areas. S-332B is located between structures S-331 and S-176; S-332C is located downstream south of S-332B (Figure Attached), with each structure having a 575 cubic feet per second (cfs) capacity. Construction was completed in 2002, under the C-111 SD Project and management of each was transferred to the South Florida Water Management District (SFWMD) in 2010 and 2012.

These pump stations were built for temporary purposes, and are now having reliability concerns because they were not designed for long-term use. In addition, they are poorly protected from storm damage and are at risk of catastrophic damage.

Pursuant to the Endangered Species Act, as amended, the Corps is requesting written confirmation of species or their critical habitat either listed or proposed for listing that may be present within the referenced project area (Figure 1) within 30 days upon receipt of this letter. The Corps has tentatively determined that the following list of threatened and endangered species may be present within the project area as illustrated in Tables 1 and 2. If you have any questions, or need further information, please contact Stacie Auvenshine by email at Stacie.j.auvenshine@usace.army.mil or telephone 904-314-7614. Thank you for your assistance in this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy LoSchiavo". The signature is written in a cursive, flowing style.

Andy LoSchiavo
Acting Chief, Environmental Branch

Enclosure

cc:

Mr. Miles Meyer, U.S. Fish and Wildlife Service, 1339 20th Street, Vero Beach, Florida
32960

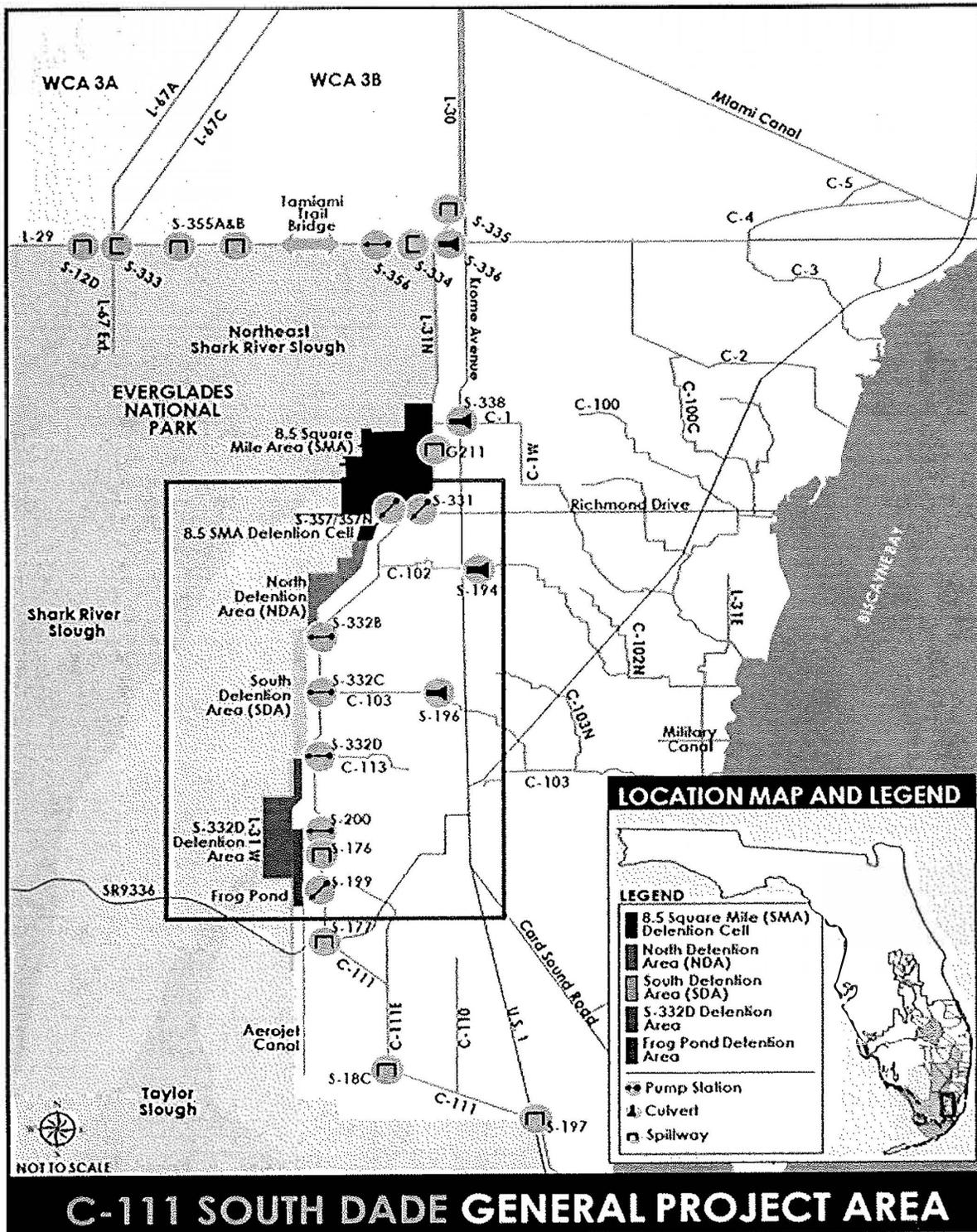


Figure 1. Project Area

Table 1. List of Federally Threatened and Endangered Species within the project area (E: Endangered, T: Threatened, SA: Similarity of Appearance, CH: Critical Habitat, C: Candidate Species; PT: Proposed Threatened; PE: Proposed Endangered)

Common Name	Scientific Name	Status
Mammals		
Florida panther	<i>Puma concolor coryi</i>	E
Florida manatee	<i>Trichechus manatus latirostris</i>	E, CH
Florida bonneted bat	<i>Eumops floridanus</i>	E
Birds		
Cape Sable seaside sparrow	<i>Ammodramus maritimus mirabilis</i>	E, CH
Everglade snail kite	<i>Rostrhamus sociabilis plumbeus</i>	E, CH
Piping plover	<i>Charadrius melodus</i>	T
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Roseate tern	<i>Sterna dougallii</i>	T
Wood stork	<i>Mycteria Americana</i>	T
Reptiles		
American Alligator	<i>Alligator mississippiensis</i>	T, SA
American crocodile	<i>Crocodylus acutus</i>	T, CH
Eastern indigo snake	<i>Drymarchon corais couperi</i>	T
Gopher tortoise	<i>Gopherus polyphemus</i>	C
Green sea turtle*	<i>Chelonia mydas</i>	E
Hawksbill sea turtle*	<i>Eretmochelys imbricate</i>	E
Kemp's Ridley sea turtle*	<i>Lipodochelys kempii</i>	E
Leatherback sea turtle*	<i>Dermochelys coriacea</i>	E
Loggerhead sea turtle*	<i>Caretta</i>	T
Fish		
Smalltooth sawfish*	<i>Pristis pectinata</i>	E
Invertebrates		
Bartram's hairstreak butterfly	<i>Strymon acis bartrami</i>	E
Elkhorn coral*	<i>Acropora palmata</i>	T, CH
Florida leafwing butterfly	<i>Anaea troglodyta floridaalis</i>	E
Miami blue butterfly	<i>Cyclargus thomasi bethunebakeri</i>	E
Schaus swallowtail butterfly	<i>Heraclides aristodemus ponceanus</i>	E
Staghorn coral*	<i>Acropora cervicornis</i>	T, CH

Stock Island tree snail	<i>Orthalicus reses</i> (not incl. <i>nesodryas</i>)	T
Plants		
Crenulate lead plant	<i>Amorpha crenulata</i>	E
Deltoid spurge	<i>Chamaesyce deltoidea</i> spp. <i>deltoidea</i>	E
Garber's spurge	<i>Chamaesyce garberi</i>	T
Johnson's seagrass*	<i>Halophila johnsonii</i>	E, CH
Okeechobee gourd	<i>Cucurbita okeechobeensis</i> ssp. <i>okeechobeensis</i>	E
Small's milkpea	<i>Galactia smallii</i>	E
Tiny polygala	<i>Polygala smallii</i>	E
Big pine partridge pea	<i>Chamaecrista lineata</i> var. <i>keyensis</i>	E
Blodgett's silverbush	<i>Argythamnia blodgettii</i>	T
Cape Sable thoroughwort	<i>Chromolaena frustrata</i>	E, CH
Carter's small-flowered flax	<i>Linum carteri</i> var. <i>carteri</i>	E, CH
Everglades bully	<i>Sideroxylon reclinatum</i> spp. <i>austrofloridense</i>	T
Florida brickell-bush	<i>Brickellia mosieri</i>	E, CH
Florida bristle fern	<i>Trichomanes punctatum</i> spp. <i>floridanum</i>	E
Florida semaphore cactus	<i>Consolea corallicola</i>	E, CH
Sand flax	<i>Linum arenicola</i>	E
Florida pineland crabgrass	<i>Digitaria pauciflora</i>	T
Florida pineland sandmat	<i>Chaemaesyce deltoidea</i> <i>pinetorium</i>	T
Florida prairie clover	<i>Dalea carthagenesis floridana</i>	E

* Marine species under the purview of National Marine Fisheries Service (NMFS), the Corps will conduct separate consultation with NMFS.

Table 2. List of State Listed Species within the project area (E: Endangered, T: Threatened, SC: Species of Special Concern)

Common Name	Scientific Name	Status
Mammals		
Everglades mink	<i>Mustela vison evergladensis</i>	T
Florida mastiff bat	<i>Eumops glaucinus floridanus</i>	E
Birds		
Snowy plover	<i>Charadrius alexandrinus</i>	T
American oystercatcher	<i>Haematopus palliatus</i>	E
Black skimmer	<i>Rynchops niger</i>	SC
Least tern	<i>Sterna antillarum</i>	T
White-crowned pigeon	<i>Columba leucocephalus</i>	T
Little blue heron	<i>Egretta caerulea</i>	SC
Tricolored heron	<i>Egretta tricolor</i>	SC
Reddish egret	<i>Egretta rufescens</i>	SC
Roseate spoonbill	<i>Ajaja ajaja</i>	SC
Invertebrates		
Miami blue butterfly	<i>Cyclargus [=Hermiargus] thomasi bethunebakeri</i>	E
Plants		
Pine-pink orchid	<i>Bletia purpurea</i>	T
Lattace vein fern	<i>Thelypteris reticulata</i>	E
Eatons spikemoss	<i>Selaginella eatonii</i>	E
Wright's flowering fern	<i>Anemia wrightii</i>	E
Tropical fern	<i>Schizaea pennula</i>	E
Mexican vanilla	<i>Manilla mexicana</i>	E



United States Department of the Interior



FISH AND WILDLIFE SERVICE
South Florida Ecological Services Office
1339 20th Street
Vero Beach, Florida 32960

March 20, 2019

Andy LoSchiavo.
Acting Chief, Environmental Branch
U.S. Army Corps of Engineers
701 San Marco Boulevard
Jacksonville, Florida 32207-8175

Service Federal Activity Code: 41420-2009-FA-0385
Date Received: March 8, 2019
Project: C-111SD S-332B and S-332C
Pump Station Replacement Project
County: Miami-Dade

Dear Mr. LoSchiavo:

The U.S. Fish and Wildlife Service (Service) has reviewed the U.S. Army Corps of Engineers' (Corps) letter received on March 8, 2019, requesting confirmation of federally-listed species and their designated critical habitat and candidate species for listing that may be present within the action area of the of the project as described in the Integrated National Environmental Policy Act (NEPA) Environmental Assessment and Limited Re-evaluation Report (LRR) to assess a pump station replacement project. The project consists of building new permanent S-332B and S-332C pump stations with reconfigured outflow structures. The 'species list' is a National Environmental Policy Act (42 U.S. Code (U.S.C) § 4321) requirement for the environmental analysis. This species list is also provided in accordance with the Endangered Species Act of 1973, as amended (Act) (87 Stat. 884; 16 U.S.C. 1531 *et seq.*). The project area lies within Miami-Dade County.

Project Description

The C-111 South Dade (C-111SD) S-332B and S-332C Pump Station Replacement Project is described in the Integrated National Environmental Policy Act (NEPA) Environmental Assessment and Limited Re-evaluation Report (LRR) as a pump station replacement project consisting of building new permanent S-332B and S-332C pump stations with reconfigured outflow structures. Project alternatives include construction in the existing pump station footprint or building the new stations adjacent to the existing structures, while maintaining water delivery and flood control to Everglades National Park (ENP) and Canal 111 (C-111) South Dade Projects (C-111SD) per the approved water control plan. The action area is located in Miami-Dade County between the City of Homestead and the eastern Everglades in southern Florida.

The existing S-332B and S-332C interim pump stations were built as a temporary solution to water delivery requirements. The purpose of these pump stations are to maintain the flood damage reduction level of service for the C-111 basin, as well as to generate the hydraulic ridge between the L-31N Borrow Canal and ENP. The hydraulic ridge reduces the seepage loss from ENP and maintains Cape Sable Seaside Sparrow (CSSS) habitat. The current temporary pump stations deliver water from the L-31N borrow canal to the C-111SD detention areas. S-332B is located between structures S-331 and S-176; S-332C is located downstream south of S-332B (figure attached), with each structure having a capacity of 575 cubic feet per second (cfs). Construction of the current temporary pumps was completed in 2002, under the C-111SD project and management of each was transferred to the South Florida Water Management District (SFWMD) in 2010 and 2012.

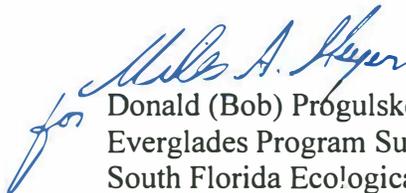
These pump stations were built for temporary purposes, and are now having reliability concerns because they were not designed for long-term use. In addition, they are poorly protected from storm damage and are at risk of catastrophic damage

Threatened and Endangered Species

The list presented below (Table 1) represents the federally threatened and endangered species that may be found within the project area. It is similar to the list provided by the Corps in their correspondence dated March 5, 2019, except for corrections made to several genus and/or species names, updates to status, and spelling errors. Table 2 is a list of State Listed species that may be found in the project area, and is similar to the list provided by the Corps except for corrections as mentioned above. The complete species list provided in this correspondence concludes the statutory requirements set forth in 50 CFR §402.12(d) of the Act. As you are aware, verification of current accuracy of the species list is for a time period not to exceed 90 days as stated in 50 CFR §402.12(e) of the Act. The Service looks forward to reviewing the NEPA documentation regarding this action and will respond accordingly.

Thank you for your cooperation in the effort to conserve fish and wildlife resources. If you have questions concerning this consultation process, please contact the project biologist, Rebecca Smith, at 772-469-4240 or by e-mail at Rebecca_Smith@fws.gov.

Sincerely yours,



Donald (Bob) Progulsk
Everglades Program Supervisor
South Florida Ecological Services Office

cc: electronic only
Corps, Jacksonville, Florida

Table 1. List of Federally Threatened and Endangered Species within the project area (E: Endangered, T: Threatened, SA: Similarity of Appearance, CH: Critical Habitat, C: Candidate Species; PT: Proposed Threatened; PE: Proposed Endangered)

Common Name	Scientific Name	Status
Mammals		
Florida panther	<i>Puma concolor coryi</i>	E
West Indian manatee	<i>Trichechus manatus latirostris</i>	T, CH
Florida bonneted bat	<i>Eumops floridanus</i>	E
Birds		
Cape Sable seaside sparrow	<i>Ammodramus maritimus mirabilis</i>	E, CH
Everglade snail kite	<i>Rostrhamus sociabilis plumbeus</i>	E, CH
Piping plover	<i>Charadrius melodus</i>	T
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Roseate tern	<i>Sterna dougallii dougallii</i>	T
Wood stork	<i>Mycteria americana</i>	T
Reptiles		
American Alligator	<i>Alligator mississippiensis</i>	T, SA
American crocodile	<i>Crocodylus acutus</i>	T, CH
Eastern indigo snake	<i>Drymarchon corais couperi</i>	T
Gopher tortoise	<i>Gopherus polyphemus</i>	C
Green sea turtle*	<i>Chelonia mydas</i>	E
Hawksbill sea turtle*	<i>Eretmochelys imbricata</i>	E
Kemp's Ridley sea turtle*	<i>Lepidochelys kempii</i>	E
Leatherback sea turtle*	<i>Dermochelys coriacea</i>	E
Loggerhead sea turtle*	<i>Caretta caretta</i>	T
Fish		
Smalltooth sawfish*	<i>Pristis pectinata</i>	E
Invertebrates		
Bartram's hairstreak butterfly	<i>Strymon acis bartrami</i>	E
Elkhorn coral*	<i>Acropora palmata</i>	T, CH
Florida leafwing butterfly	<i>Anaea troglodyta floridaalis</i>	E
Miami blue butterfly	<i>Cyclargus thomasi bethunebakeri</i>	E
Schaus swallowtail butterfly	<i>Heraclides aristodemus ponceanus</i>	E
Staghorn coral*	<i>Acropora cervicornis</i>	T, CH

Stock Island tree snail	<i>Orthalicus reses</i> (not incl. <i>nesodryas</i>)	T
Plants		
Crenulate lead plant	<i>Amorpha crenulata</i>	E
Deltoid spurge	<i>Chamaesyce deltoidea</i> spp. <i>deltoidea</i>	E
Garber's spurge	<i>Chamaesyce garberi</i>	T
Johnson's seagrass*	<i>Halophila johnsonii</i>	T, CH
Okeechobee gourd	<i>Cucurbita okeechobeensis</i> ssp. <i>okeechobeensis</i>	E
Small's milkpea	<i>Galactia smallii</i>	E
Tiny polygala	<i>Polygala smallii</i>	E
Big pine partridge pea	<i>Chamaecrista lineata</i> var. <i>keyensis</i>	E
Blodgett's silverbush	<i>Argythamnia blodgettii</i>	T
Cape Sable thoroughwort	<i>Chromolaena frustrata</i>	E, CH
Carter's small-flowered flax	<i>Linum carteri</i> var. <i>carteri</i>	E, CH
Everglades bully	<i>Sideroxylon reclinatum</i> spp. <i>austrofloridense</i>	T
Florida brickell-bush	<i>Brickellia mosieri</i>	E, CH
Florida bristle fern	<i>Trichomanes punctatum</i> spp. <i>floridanum</i>	E
Florida semaphore cactus	<i>Consolea corallicola</i>	E, CH
Sand flax	<i>Linum arenicola</i>	E
Florida pineland crabgrass	<i>Digitaria pauciflora</i>	T
Florida pineland sandmat	<i>Chaemaesyce deltoidea</i> <i>pinetorum</i>	T
Florida prairie clover	<i>Dalea carthagenesis floridana</i>	E

* Marine species under the purview of National Marine Fisheries Service (NMFS), the Corps will conduct separate consultation with NMFS.

Table 2. List of State Listed Species within the project area (E: Endangered, T: Threatened, SC: Species of Special Concern)

Common Name	Scientific Name	Status
Mammals		
Everglades mink	<i>Mustela vison evergladensis</i>	T
Florida mastiff bat	<i>Eumops glaucinus floridanus</i>	E
Birds		
Snowy plover	<i>Charadrius nivosus</i>	T
American oystercatcher	<i>Haematopus palliatus</i>	T
Black skimmer	<i>Rynchops niger</i>	T
Least tern	<i>Sternula antillarum</i>	T
White-crowned pigeon	<i>Patagioenas leucocephala</i>	T
Little blue heron	<i>Egretta caerulea</i>	T
Tricolored heron	<i>Egretta tricolor</i>	T
Reddish egret	<i>Egretta rufescens</i>	T
Roseate spoonbill	<i>Platalea ajaja</i>	T
Invertebrates		
Miami blue butterfly	<i>Cyclargus [=Hermiargus] thomasi bethunebakeri</i>	E
Plants		
Pine-pink orchid	<i>Bletia purpurea</i>	T
Lattace vein fern	<i>Thelypteris reticulata</i>	E
Eatons spikemoss	<i>Selaginella eatonii</i>	E
Wright's flowering fern	<i>Anemia wrightii</i>	E
Tropical fern	<i>Schizaea pennula</i>	E
Mexican vanilla	<i>Manilla mexicana</i>	E