

**FY 2016/17 Local Government Funding Request
Beach Management Projects**

Project Name: Blind Pass Ecozone Restoration

Project Description:

The project consists of maintenance dredging Blind Pass and sand bypassing to the critically eroded shoreline on northern Sanibel south of R-110.5. The original project, completed August 2009, entailed excavation of approximately 148,000 cubic yards of material with placement along the shoreline of Sanibel Island. Approximately 10,000 cubic yards had to be disposed in an upland facility. The first maintenance dredging was completed in two phases between June 2012 and April 2013. Approximately 63,300 cubic yards of sand were removed from the expanded template in phase one seaward of the bridge and placed on the critically eroded shoreline of Sanibel Island between R-116 and R-118 (completed August 25, 2012). The second phase dredging removed approximately 37,600 cubic yards of sand from the template landward of the bridge and placed it on the critically eroded shoreline of Sanibel Island between R-112 and R-113.5 (completed April 30, 2013).

The project is an element of the long term management of the pass and surrounding ecosystem. The Blind Pass Restoration Project is designed to remove sand that deposits in the pass and place it on the beaches of Sanibel Island, as recommended in the Blind Pass Inlet Management Plan (CP&E, 1993). A feasibility study conducted for the City of Sanibel, Captiva Erosion Prevention District (CEPD), and Lee County, in September 2003 recommends the project to provide a stable tidal connection between Clam Bayou and the Gulf of Mexico.

Use of Requested Program Funds: Funds requested for FY16/17 will be used for costs associated with construction and anticipated permit required monitoring.

Local Government Contact

Name	Title	Email
Stephen Boutelle	Operations Manager	sboutelle@leegov.com
Address 1:	1500 Monroe St	Phone: 239-533-8128
Address 2:	Ft. Myers, FL 33901	Fax: 239-485-8408

Mapping- Maps should be provided as attachments.

Maps should be to scale at a minimum of 1"=200'

Mapping elements include:

- Project Boundary with Critically Eroded Shoreline
- Range Monuments
- Beach Access and Parking- Primary and Secondary, including access widths.
- Public Lodging Establishments- locations and length of property boundaries along project shoreline or street frontage.
- Comprehensive Plan/Current Land Use designations of Commercial and Recreational Facilities and associated property boundaries along the project shoreline.

Length of Project Boundary in Feet (total restored length)

7994 ft

Eligibility: Access Points and Public Lodging Establishments:

Location/Name	Address	R-Mon	Type of Access	Width of Access/ Frontage	Total units	No. units available to Public	Eligible shoreline
Blind Pass Park		R-110	Secondary	Not in fill area	15	15	792
Bowman's Beach Park		R-118	Primary	6,417	100+	100+	6,978
#39 Castaways Beach & Bay Cottages	6460 Sanibel-Captiva Rd	R-110.5	Lodging (link)	224	35	35	224

(Expand table as needed)

Proof of licensure hyperlinked in table above.

Schedule and Budget:

(Include estimated phases for 10 years and estimated project costs for 5 years.)

Year	Proposed Method	Description	Total Estimated Cost	Federal Cost Share	State Cost Share	Local Cost Share
2016/ 2017	Construction	Sand bypass to Sanibel & post con monitoring	1,645,000.00	-	822,500.00	822,500.00
2017/ 2018	Compliance Year 1	physical & biological monitoring	110,000.00	-	55,000.00	55,000.00
2018/ 2019	Compliance Year 2	physical & biological monitoring	85,000.00	-	42,500.00	42,500.00
2019/ 2020	Monitoring Year 3	physical monitoring	50,000.00	-	25,000.00	25,000.00
2020/ 2021	Compliance Year 4	physical monitoring	65,000.00	-	32,500.00	32,500.00
	Design	Permit Update	130,000.00	-	65,000.00	65,000.00
2021/ 2022	Construction	Sand bypass to Sanibel				

2022/ 2023	Compliance Year 1	physical & biological monitoring				
2023/ 2024	Compliance Year 2	physical & biological monitoring				
2024/ 2025	Monitoring Year 3	physical monitoring				
2025/ 2026	Compliance Year 4	physical monitoring				

Severity of erosion: Criterion will be calculated by the Department. Please provide narrative and any data that should be considered in addition to the Department’s database.

The project shoreline from R110 to R118 experienced an average erosion rate of -25 ft/yr during the first year after the 2009 maintenance, (CEC, 2011). The entire project area has been designated by FDEP as critically eroded.

Threat to Upland Structures: Criterion will be calculated by the Department. Please provide narrative and any data that should be considered in addition to the Department’s database.

The shoreline from R-110.5 to R118 consists of two single-family residential properties, one hotel, and the balance of the project area is public recreational land (Bowman’s Beach Park). Scarping at the hotel in 2013 caused an access and safety concern. Threats to the roadway near R-111 caused the City of Sanibel to truck in sand in 2015 under a control line permit.

Recreational and Economic Benefit: The percentage of linear footage of properties within the project boundaries zoned commercial, recreational, or Public Lodging Establishment, or the equivalent, in the current local government land use map 94%

Availability of Federal Funds:

Is the project Federally authorized by WRDA? **NO**
 Provide date of authorization expiration. **N/A**
 Does this project phase have a Federal Project Cooperative Agreement, or similar for the current phase? Provide a copy of the document. **N/A**
 Federal cost share percentage available for this project: **N/A**

Is this project funded through FEMA for storm repairs? **CEPD PW for TS Debby pending FEMA decision.**

Provide a copy of the signed Project Worksheet.

Local Sponsor Financial and Administrative Commitment

Is funding for the project in the local sponsor’s 10-year comprehensive financial plan? **Yes**
 Please provide copy or web link to the plan.

Is funding provided through a source established by referendum? **Ordinance 13-14**
 Please provide a copy or web link to the referendum.

<https://www.leegov.com/bocc/Ordinances/13-14.pdf>

Is funding provided by a third party? **No**
 What is the percentage of total project costs provide by the third party? **N/A**
 Please provide a copy of the cost sharing agreement.

Quarterly Report Compliance:

FY2014/2015	End Date	Report Remitted	Compliant (yes/no)
Qtr 1 (Sept)	10/31/2014	10/29/2014	Yes
Qtr 2 (Dec)	01/31/2015	1/30/2015	Yes
Qtr 3 (Mar)	04/30/2015	4/28/2015	Yes
Qtr4 (June)	7/31/2015	7/24/2015	Yes

Are there active federal and state permits for the project? **YES**
 Federal permit #: SAJ-2006-03865(IP-LBD) Expiration date: January 17, 2017
 State permit #: 0265943-001-JC Expiration date: June 6, 2017

Have local funds been secured for the project? **YES**
 Explain: Budgeted in accordance with financial plan referenced above.

In order to acquire state funding, a resolution from the local sponsor must be provided by the application deadline which declares:

- Support from the Sponsor for the Proposed Project
- Willingness to serve as the Local Sponsor
- Ability to provide the full Local Cost Share
- And the source of the funding

Please provide copy of the resolution.

Resolution has been routed to BOCC for approval and will be sent to DEP Pending BOCC Action. Draft attached for reference.

Previous State Commitment:

Has the Department previously cost shared, reviewed, and approved a feasibility or design phase for this project? **YES**

Previous State Cost Share percentage **50%**

Will this project enhance or increase the longevity of a previously-constructed project? How?

Yes. Regular sand bypassing from Blind Pass will reduce the need for traditional nourishment previously undertaken in conjunction with CEPD nourishment of Captiva Island.

Will this project nourish a previously restored shoreline? (Full beach nourishment. Dune-only projects do not qualify.) **YES**

Project Performance:

Nourishment Interval (Years): 5

Mitigation of Inlet Effects:

Criterion is calculated by the Department. Please provide any supplemental information that may assist in determining if the project is located with the area of inlet influence and provides supplemental nourishment for an inlet that is not balancing its sediment budget as defined by the Inlet Management Plan or Strategic Beach Management Plan.

Implements FDEP SBMP. Strategy: Bypass 37,250 cubic yards of beach compatible sand to the downdrift shoreline south of the inlet on an annual average basis; implement a comprehensive beach, inlet and offshore monitoring program to validate or redefine the sediment budget.

Use of Innovative Applications of existing technologies:

Does the project address erosion in a method that is economically competitive with nourishment, that will not adversely affect the conservation of fish and wildlife, including endangered or threatened species, or their habitats, and that is designed to demonstrate an innovative application of existing technologies?

N/A

Has the project been documented to be effective and demonstrated technologies previously untried in the state?

N/A

Regionalization:

Is this project being planned or constructed in cooperation with another local government to reduce contracting costs? Explain and attach a signed copy of the interlocal agreement between the two local sponsors.

Yes. Monitoring coordinated with Captiva Erosion Prevention District and Sanibel to reduce duplication and costs. Interlocal Agreement sections 4a, 5e, 6g at:

<http://minutes.leeclerk.org/Minutes/Mins2004-PDF/Documents2004/062204R/062204R-c8a.pdf>

Note that this ILA has expired but is still being voluntarily followed as seen in monitoring May-June 2015. All parties (County, CEPD, and Sanibel) have agreed to negotiate a new agreement pending results of a cooperative Blind Pass IMP study expected to begin September 2015.

Significance:

What is the volume of advanced nourishment lost since the last sand placement event of a beach restoration or nourishment project as measured landward of the Mean High Water Line?

Has the project eroded into the design template?
If so, please list those R-monuments.

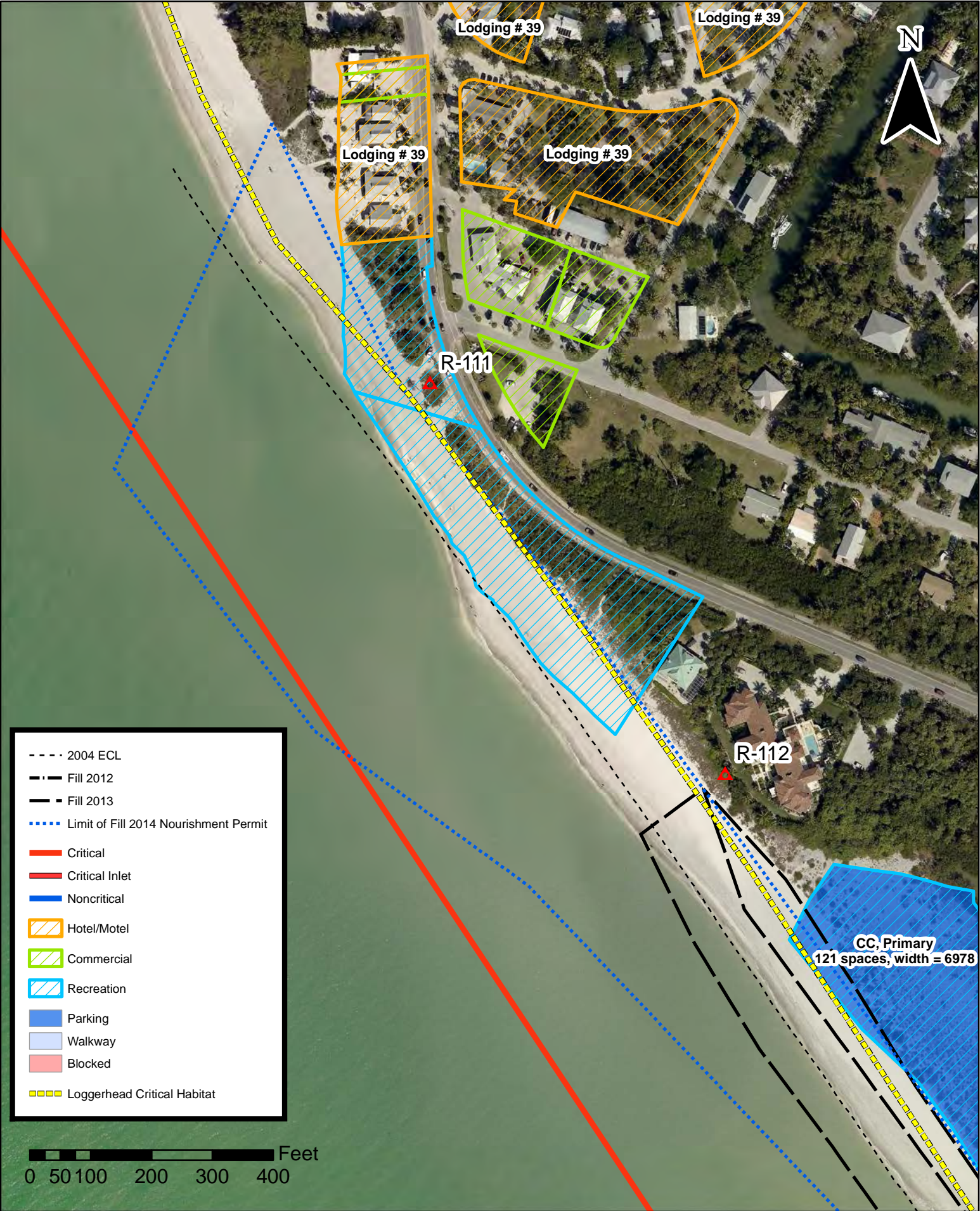
No

What is the proposed placement volume?

+/- 30,000 CY/Yr

Calculations of erosion rates since the 2012/2013 project were confounded at Year 1 by overlapping nourishment impacts from Captiva work completed December 2013. Year 2 monitoring has been completed but not yet fully analyzed to quantify erosion rates over the second year. Reduced tidal prism in Blind Pass as measured in 2014 and visible shoaling suggest that maintenance will be advised in FY16/17. Using this sand for nourishment of the Sanibel shoreline will be a proactive and cost effective way to minimize negative erosional impacts in the project area.

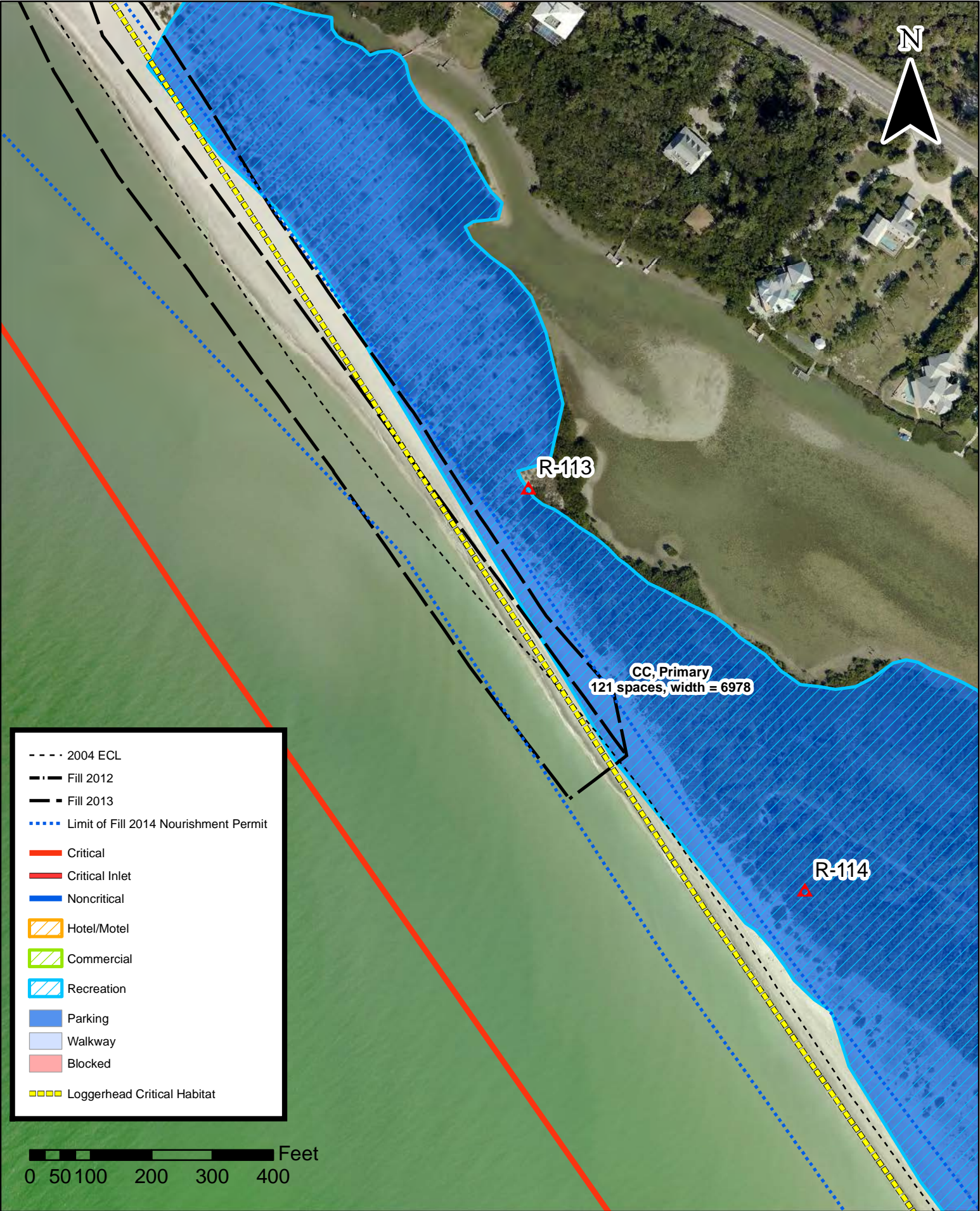
Blind Pass, Lee County



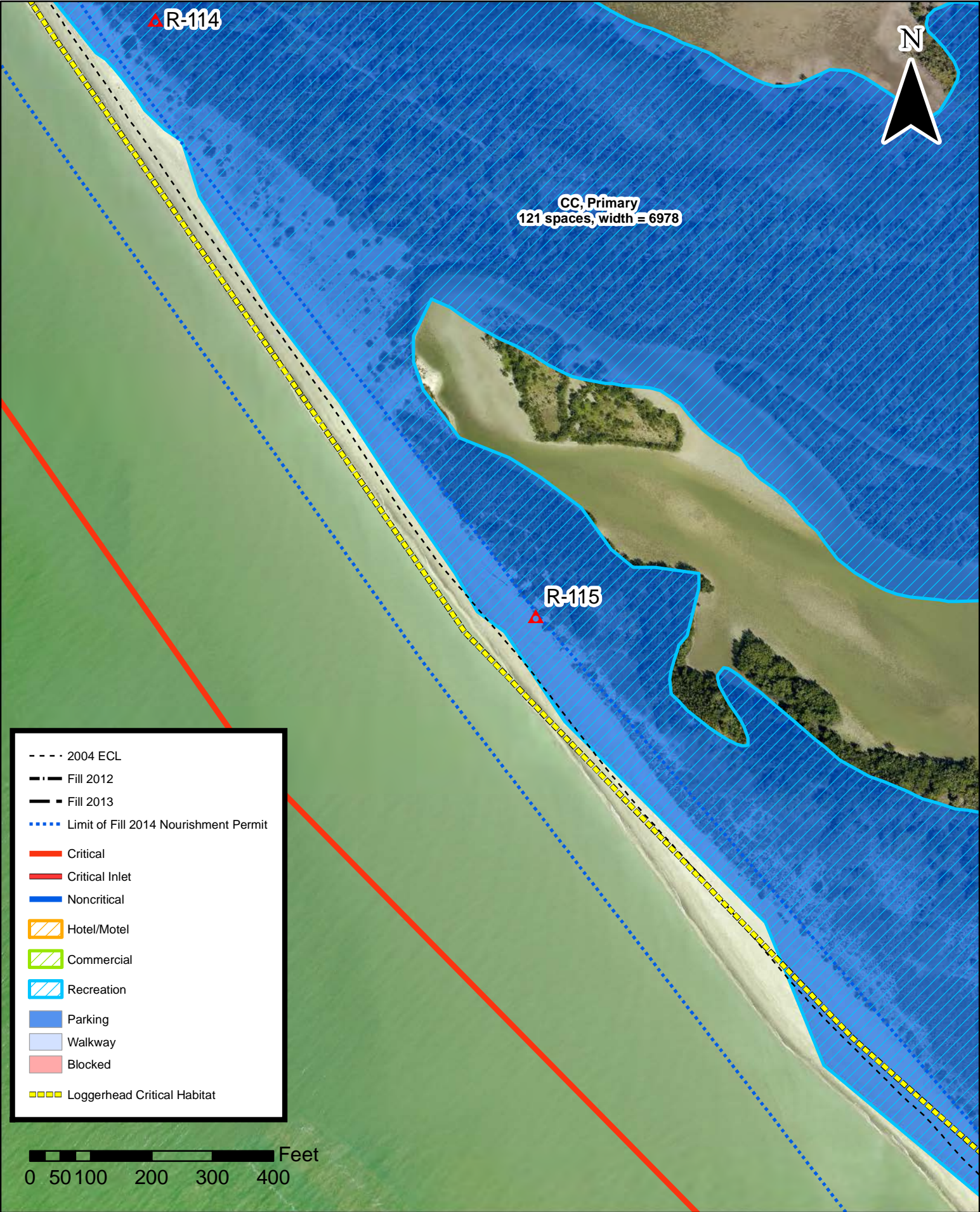
- 2004 ECL
- · - · - · Fill 2012
- Fill 2013
- · · · · Limit of Fill 2014 Nourishment Permit
- Critical
- Critical Inlet
- Noncritical
- ▨ Hotel/Motel
- ▨ Commercial
- ▨ Recreation
- ▨ Parking
- ▨ Walkway
- ▨ Blocked
- ▨ Loggerhead Critical Habitat

0 50 100 200 300 400 Feet

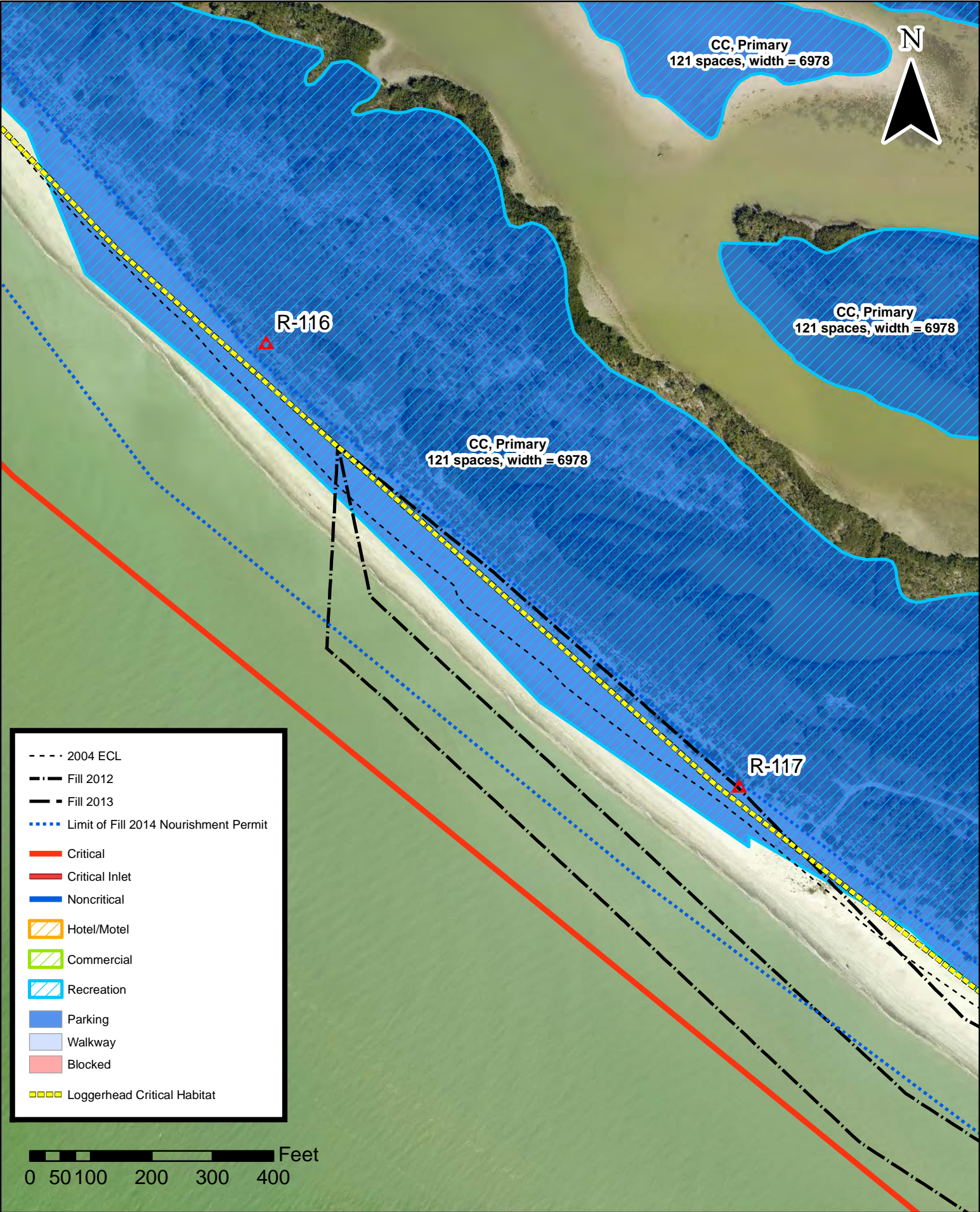
Blind Pass, Lee County



Blind Pass, Lee County



Blind Pass, Lee County



CC, Primary
121 spaces, width = 6978

N

CC, Primary
121 spaces, width = 6978

R-116

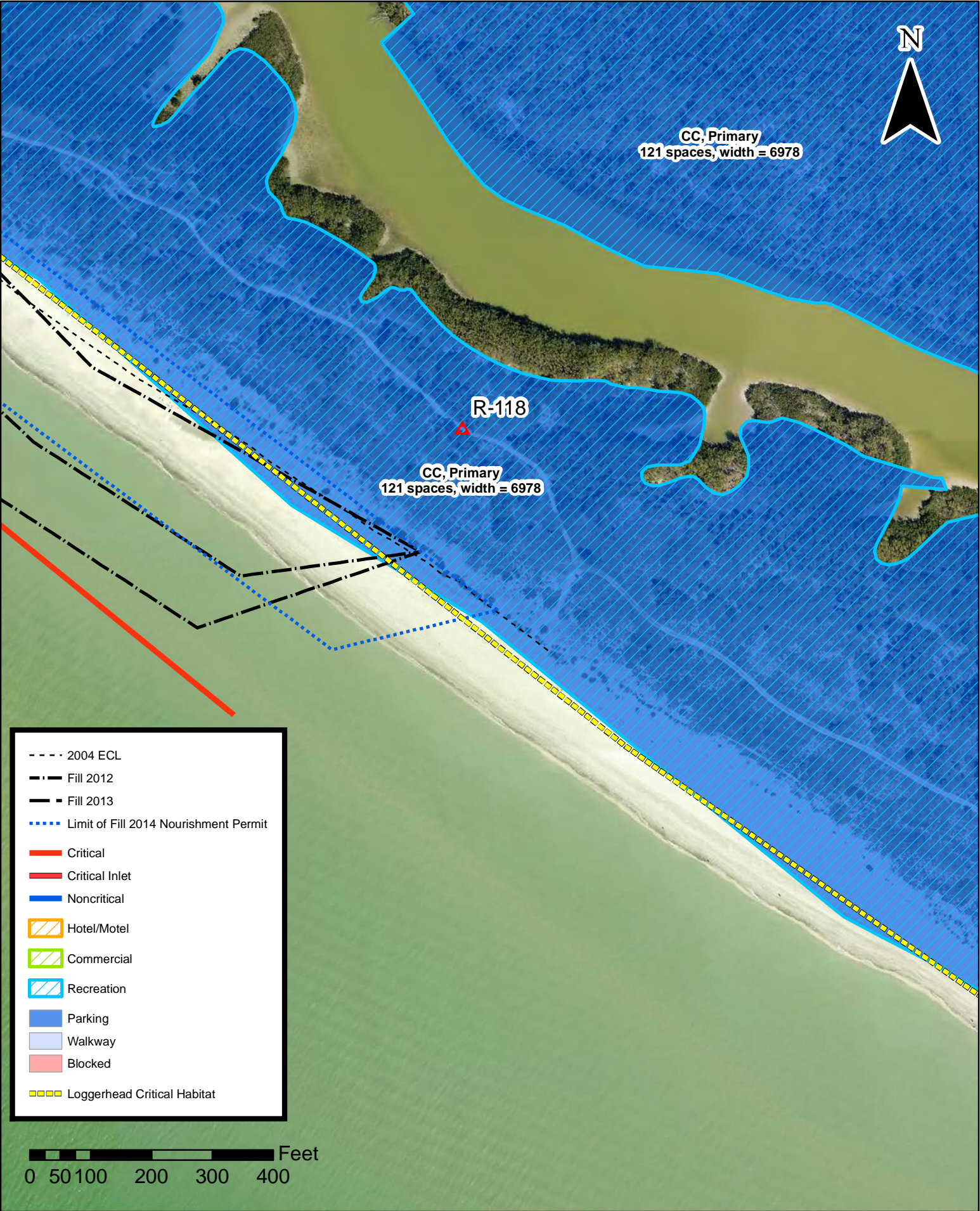
CC, Primary
121 spaces, width = 6978

R-117

- 2004 ECL
- .- Fill 2012
- .- Fill 2013
- Limit of Fill 2014 Nourishment Permit
- Critical
- Critical Inlet
- Noncritical
- ▨ Hotel/Motel
- ▨ Commercial
- ▨ Recreation
- ▨ Parking
- ▨ Walkway
- ▨ Blocked
- ▨ Loggerhead Critical Habitat

0 50 100 200 300 400 Feet

Blind Pass, Lee County



RESOLUTION NO. _____

A RESOLUTION OF THE BOARD OF COUNTY COMMISSIONERS OF LEE COUNTY, FLORIDA, APPROVING AND SUPPORTING THE PROPOSED ACTIVITIES AS OUTLINED IN THE 2016/2017 LOCAL GOVERNMENT FUNDING REQUEST TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND AFFIRMING THE COUNTY'S COMMITMENT TO PROVIDE LOCAL FUNDING

WHEREAS, beaches provide vital economic, recreational, storm damage reduction, and environmental benefits, and

WHEREAS, Lee County has supported previous federal, state and local initiatives in correcting beach erosion problems throughout the County, and

WHEREAS, Lee County prepared and submitted a Long Range Beach Erosion Control Budget Plan (Budget Plan) in March 1997, and has annually submitted updated information in accordance with guidelines developed by the Florida Department of Environmental Protection, and

WHEREAS, Lee County seeks to update the Budget Plan for the next Florida Department of Environmental Protection Fixed Capital Outlay Legislative Budget Request, and

WHEREAS, Lee County supports the Florida Department of Environmental Protection's beach and coastal management programs in accordance with Section 161.101 and 161.161, Florida Statutes, and

WHEREAS, Lee County supports all components of the Budget Plan consistent with the Lee County Comprehensive Plan and agrees to fund the local government share of all County beach and inlet projects approved for funding by the Florida Legislature in Fiscal Year 2016-2017 through the existing dedicated bed tax revenues, special taxing units, or other funding resources as applicable, and

WHEREAS, Lee County agrees to serve as the local sponsor for all County projects identified in the Budget Plan.

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners, Lee County, Florida, that Lee County is requesting state funding and providing its support for the Bonita Beach Nourishment, Estero Island Nourishment, and Blind Pass / Northern Sanibel Projects, and affirms its ability to provide the local match as necessary to implement state-funded beach and inlet projects as requested.

Commissioner _____ made the motion to adopt the foregoing resolution, seconded by Commissioner _____. The vote was as follows:

John Manning	_____
Cecil L Pendergrass	_____
Larry Kiker	_____
Brian Hamman	_____
Frank Mann	_____

DULY PASSED AND ADOPTED this ___ day of _____, 2015.

ATTEST:
LINDA DOGGETT, CLERK

BOARD OF COUNTY COMMISSIONERS
OF LEE COUNTY, FLORIDA

BY: _____
DEPUTY CLERK

BY: _____
[Signature]

[Type or Print Name]
Deputy Clerk

[Type or Print Name]
Chair / Vice-Chair

APPROVED AS TO FORM FOR THE
RELIANCE OF LEE COUNTY ONLY:

BY: _____
Lee County Attorney's Office