

FY 2010-11 Local Government Funding Request

Project Name Captiva Island and Sanibel Island Beach Renourishment

Project Description: The project includes the periodic nourishment and monitoring of the Captiva Island segment of the federally authorized Lee County Shore Protection Project. The project area is located between Florida DEP reference monuments R-84 and R-109 and R-110 to R-118, excluding a 900 foot gap at R116 (Old Clam Pass). The shoreline is entirely within critically eroded areas as designated by the FDEP.

The next nourishment is scheduled for FY2013/14 with the placement of 1.2 million cubic yards along the 6.4 mile shoreline. The sand source is located approximately 8 miles west of Captiva in the Gulf of Mexico. The source will be the same one used during the 2005/06 nourishment.

Use of Requested Program Funds: Funds requested for FY10/11 will be used design and permitting tasks in preparation of construction in FY 12/13 and 5th year physical monitoring activities associated with the 2005 construction.

Local Government Support

Does this sponsor have dedicated support staff whose sole priority is to manage beach erosion control activities?

Yes

Name	Title	Email	Percent Commitment
Robert Neal	Coastal Engineer	rneal@leegov.com	100%
Address 1:	1500 Monroe St.	Phone:	239.533.8566
Address 2:	Ft. Myers, Fl 33901	Fax:	239.485.8408

Quarterly Report Compliance:

2008-2009	End Date	Report Sent	Compliant
Qtr 1 (Sept)	Sept. 30		No
Qtr 2 (Dec)	Dec. 31		No
Qtr 3 (Mar)	Mar. 31	March 24	Yes
Qtr4 (June)	June 30	June 30	Yes

Revenue for the local cost share will be provided by: Local funding for the project will be obtained from special property assessments and the Lee County Tourist Development Council (TDC). The TDC provides a dedicated long term funding source through a 'bed tax'. The tax allocates 1.65% of all revenue generated from short term or seasonal rentals (less than 6 months) for beach and shoreline improvements.

Lee County
Long Range Budget Plan
FY 10/11 – Captiva Island and Sanibel Island Renourishment

Is the funding from a dedicated long term source for this project? Yes

In order to acquire funding, a resolution from the local governmental entity 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
- Funding Source

Has the local sponsor resolution been attached to the application fulfilling all of these requirements? Yes

Previous State cost-share for a feasibility or design/permitting phase of this project:

The Department previously entered into a cost-share agreement for funding the previous restorations, the latest agreement is 02LE2. The project is recommended in the Strategic Beach Management Plan and located in an area that has been designated as critically eroded shoreline by the Department.

Previous State Cost Share percentage 31.05%

10-Year Project Schedule and 5-Year Estimated Budget

Does this project have Congressional Authorization? Yes

Does this project have a Federal Project Cooperative Agreement? Yes

What is the end date of the Federal Authorization? 2037

Federal cost share available for this erosion control project: 27.72%

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
2009/2010 (Revalidation)	-	-	\$0	\$0	\$0	\$0
2010/ 2011	Design	Sediment Budget	\$310,000	\$0	\$96,255	\$213,745
	Monitoring	Phys, Turtles	\$169,433	\$0	\$52,609	\$116,824
2011/ 2012	Design	LRR / GRR	\$310,000	\$0	\$96,255	\$213,745
	Monitoring	Turtles	\$70,000	\$0	\$21,735	\$48,265
2012/ 2013	Design	JCP COE	\$180,000	\$0	\$43,470	\$136,530
	Monitoring	Phys	\$109,376	\$0	\$33,961	\$75,415
2013/ 2014	Design	Plans / Specs	\$40,000	\$11,088	\$8,977	\$19,935
	Construction	Nourishment	\$19,136,000	\$3,960,079	\$4,712,123	\$10,463,797
2014/ 2015	Monitoring	Phys, Turtle	\$169,433	\$0	\$52,609	\$116,824
2015/ 2016	Monitoring	Phys, Turtle				
2016/ 2017	Monitoring	Phys, Turtle				
2017/ 2018	Monitoring	Phys, Turtle				
2018/ 2019	Design	Sediment Budget				
2019/ 2020	Monitoring	Phys, Turtle				
	Design	PCA				

Mapping- Maps are 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.
- Comprehensive Plan designations of Commercial and Recreational Facilities and associated property boundaries along the project shoreline.

Length of Project Boundary in Feet: 33,590 ft

Length of commercial or recreational property fronting the project shoreline:
4,894

Percentage of project shoreline designated as commercial or recreational property
15%

Eligibility: Access Points and Public Lodging Establishments:

Location/Name	Address	R- Mon	Type of Access	Width of Access/ Frontage	Total units or parking spaces	No. Public	Eligible shoreline
Alison Hagerup Beach Access		R-92	Secondary	201	39	2,260	250
Andy Ross Lane		R-95	Secondary	60	0	0	50
Blind Pass Park		R- 109	Secondary	289	26	26	0
Turner Park		R- 110	Secondary	431	15	15	1,540
Bowmans Beach Park		R- 118	Primary	2,161	100+	100+	8,490
South Seas Resort DBPR # HOT4600251 CND 4600027		R-94	Resort	7,380	617	582	9729
Tween Waters		R-99	Hotel	800			800

Additional Ranking Criteria

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

Yes

Will this project nourish a previously restored shoreline?

Yes

Rate of Erosion as determined by the Bureau based on long term data (ft/yr)

5.2 ft/yr

Severity of erosion:

The entire project area has been designated by FDEP as critically eroded. The Bowman’s Beach area is currently experiencing the most severe erosion rate in the project area, losing an average of 21.8 ft/yr. The northern Sanibel Island Project area (R-110 to R-114) lost an average of 7.9 ft/yr. Erosion on Captiva Island has averaged 5.2 ft/yr since 1996. Shoreline development within the approximately 6.4 mile-long project area consists of nearly 10,000 linear feet of publicly accessible beach in addition to approximately 3,000 feet of shoreline of the Bowman’s Beach park project area. Approximately 950 ft of the shoreline is comprised of commercial development, 650 ft of multifamily residences, with the remainder of the shoreline comprised of single-family residences and undeveloped parcels. Approximately 6,000 ft of State Road 867 and 2,900 ft of County Road 865 lie seaward of the Coastal

Construction Control Line within the project limits. This is the hurricane evacuation route for the islands

Project Benefits:

The project area consists of nearly 10,000 feet of publicly accessible shoreline in addition to Bowman’s Beach. Bowman’s Beach is a heavily utilized 170-acre public park with two miles of gulf-front shoreline (although the project area only encompasses approximately 3,000 feet of the park), 180 parking spaces, and an average visitation of 160,000 people each year. The park shoreline provides nesting habitat to many species including snowy plovers, Wilson’s plovers, and the threatened loggerhead turtle. The park is also a haven for over 100 species of migratory birds in addition to shorebirds.

Use of Innovative Applications of existing technologies:

The CEPD has developed an Emergency Maintenance Plan (December, 1998; adopted 1999) for recovery from a catastrophic hurricane or storm erosion event. The plan includes having a fifteen-year permit in place to allow the performance of periodic maintenance nourishment and to repair damage from severe storm impacts quickly and efficiently.

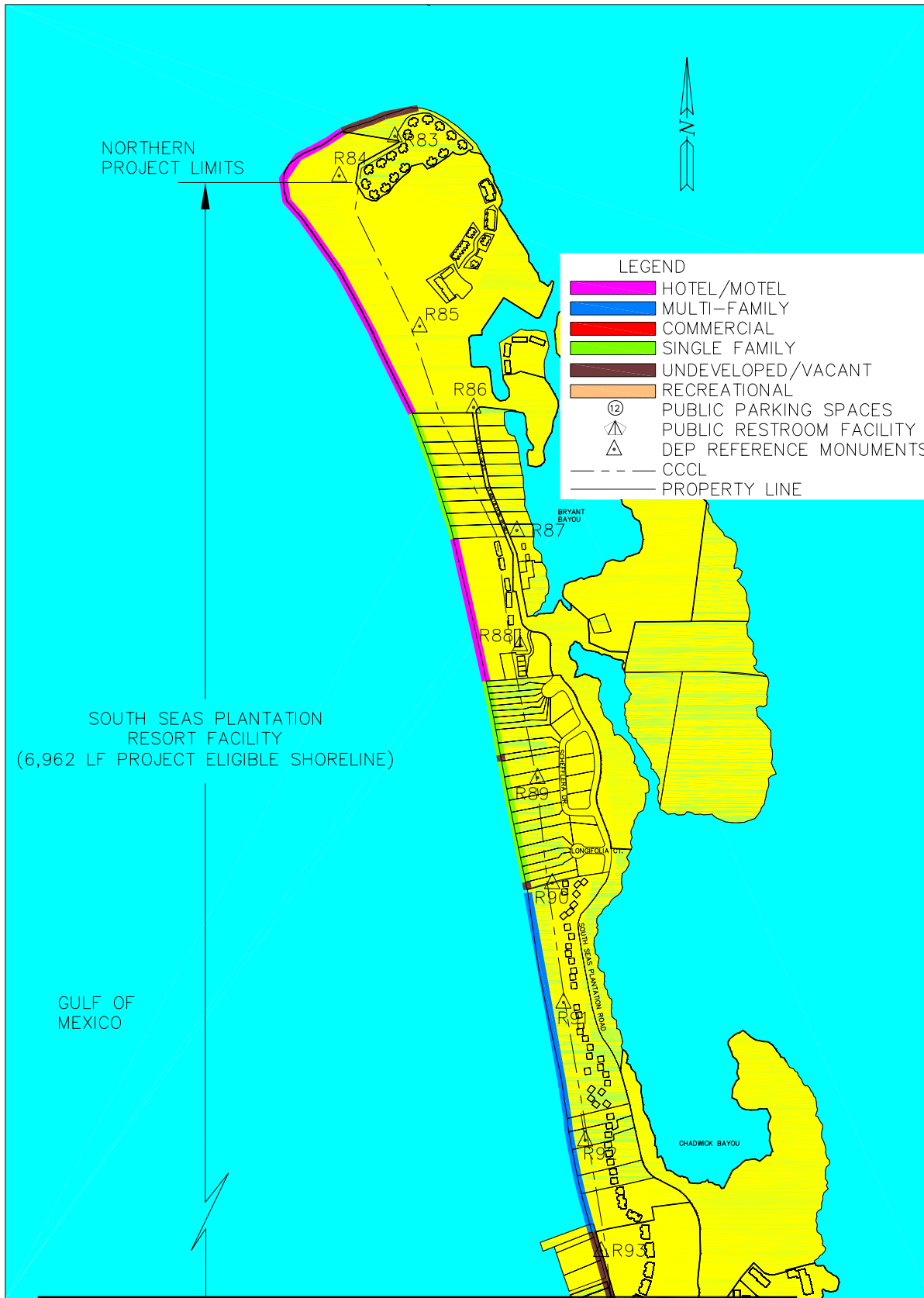
Nourishment Interval (years):

7

Project Performance

The Captiva Island project was constructed in 1988/89 with 1.6 million cubic yards of sand dredged from the Redfish Pass ebb tidal shoal. The Project created 4.5 miles of protective beach with a 40-foot protective berm between R-94 and R-109, and advance nourishment between reference monuments R-85 and R-109. Comparison of pre-construction (August 1988) to October 1993 surveys revealed that the project lost 248,700 cubic yards of sand (59,700 cy/yr). The protective berm was compromised at two erosion “hot spots” by October 1993. The “hot spots” were located at R-97 and between R-106 and R-107.

The Captiva Erosion Prevention District implemented the first renourishment of their authorized federal beach erosion control project in 1996. The authorized project provided a protective beach along 4.5 miles of Captiva Island (R-85 to R-109). The District included the northern 1.0-mile of Sanibel Island (R-110 to R-114) in their 1996 beach nourishment project. The project has lost 341,000 cubic yards of sand from Captiva Island since May 1996. The northern Sanibel fill area (R-110 to R-114) has lost 81,200 cy in the same time frame. It is anticipated that an eight-year nourishment interval will be attained, as the project specifically addresses hot spot erosion and provides for 20-year storm protection (CP&E, March 1997). The next full nourishment is scheduled for FY 2014/2015.



LEGEND

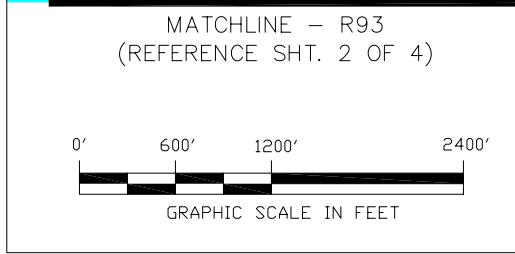
	HOTEL/MOTEL
	MULTI-FAMILY
	COMMERCIAL
	SINGLE FAMILY
	UNDEVELOPED/VACANT
	RECREATIONAL
	PUBLIC PARKING SPACES
	PUBLIC RESTROOM FACILITY
	DEP REFERENCE MONUMENTS
	CCCL
	PROPERTY LINE

TITLE: LONG RANGE BUDGET PLAN
 2010 / 11 SUBMITTAL
 CAPTIVA ISLAND / BLIND PASS
 RESTORATION

NATURAL RESOURCES DIV
 1500 Monroe St. Fort Myers, Florida 33901
 Ph. (239) 533-8109/10 Fax. (239) 485-8408

LEE COUNTY
 SOUTH WEST FLORIDA

FILE: S:\NATRES\MARINE\BEACHMANAGEMENT\
DEP_LONG-RANGE-PLAN\09SUBMITTAL\
DRAWINGS\CAPTIVA-BLINDPASS.dwg
DESIGN:
DRAWN:
APPROVED:



- NOTES:
1. CCCL AND PLAT INFORMATION PROVIDED BY LEE COUNTY APPRAISER'S OFFICE.
 2. DNR MONUMENT LOCATIONS PROVIDED BY FDEP.
 3. REF. ATTACHED SHT. FOR ELIGIBILITY CALCULATION.

SCALE:
 1" = 1200'
 SHEET:
 01 OF 04

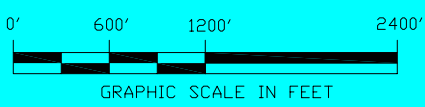
MATCHLINE - R93
(REFERENCE SHT. 1 OF 4)

SOUTH SEAS PLANTATION
RESORT FACILITY (cont)
(6,962 PROJECT ELIGIBLE SHORELINE)

GULF OF MEXICO

PROJECT ELIGIBLE
SHORELINE
(3,280 LF)

TWEEN WATER INN - 800 LF
PROJECT ELIGIBLE
SHORELINE - 800 LF



LEGEND

- HOTEL/MOTEL
- MULTI-FAMILY
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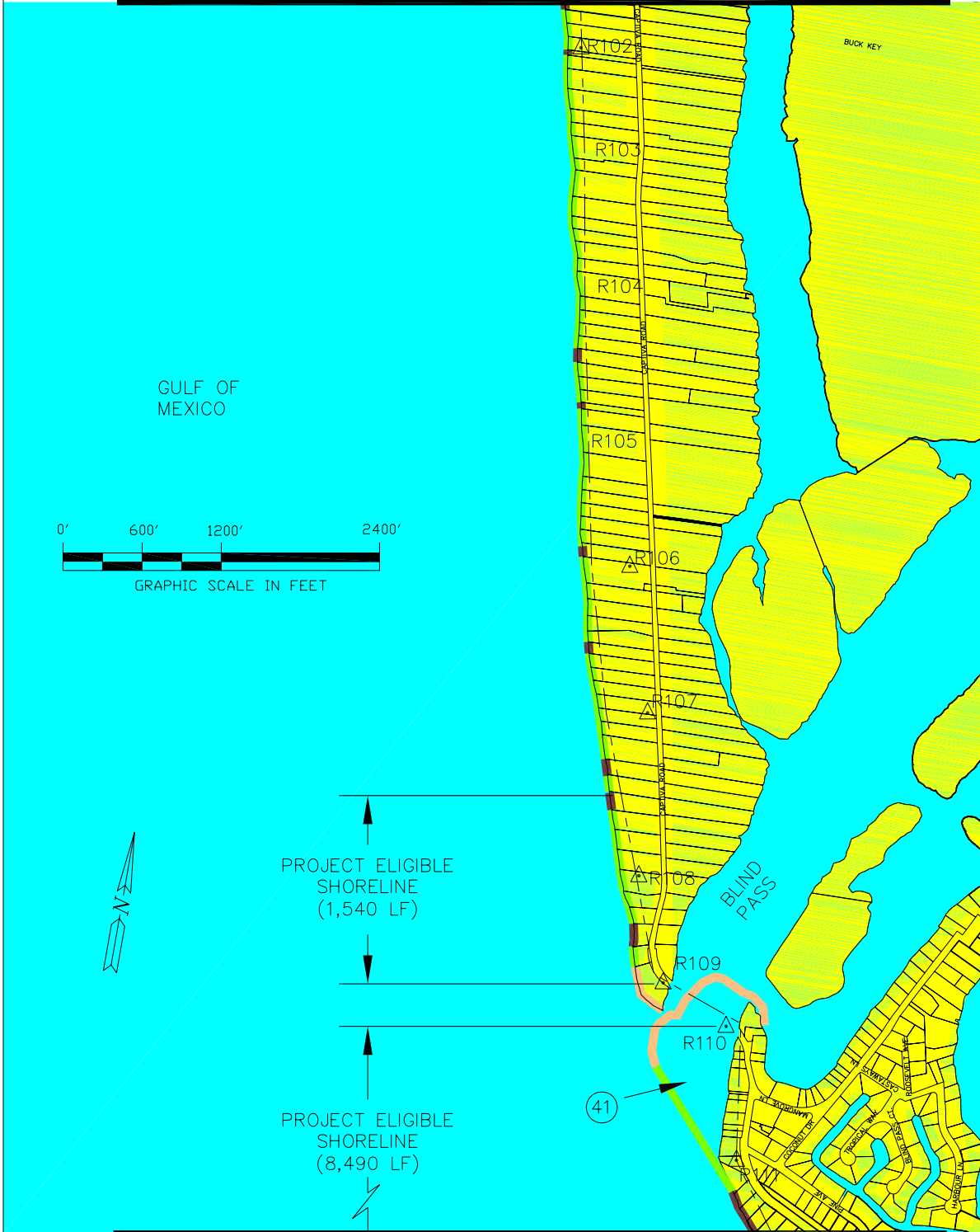
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SHEET:
02 OF 04

MATCHLINE - R101.5
(REFERENCE SHT. 2 OF 4)



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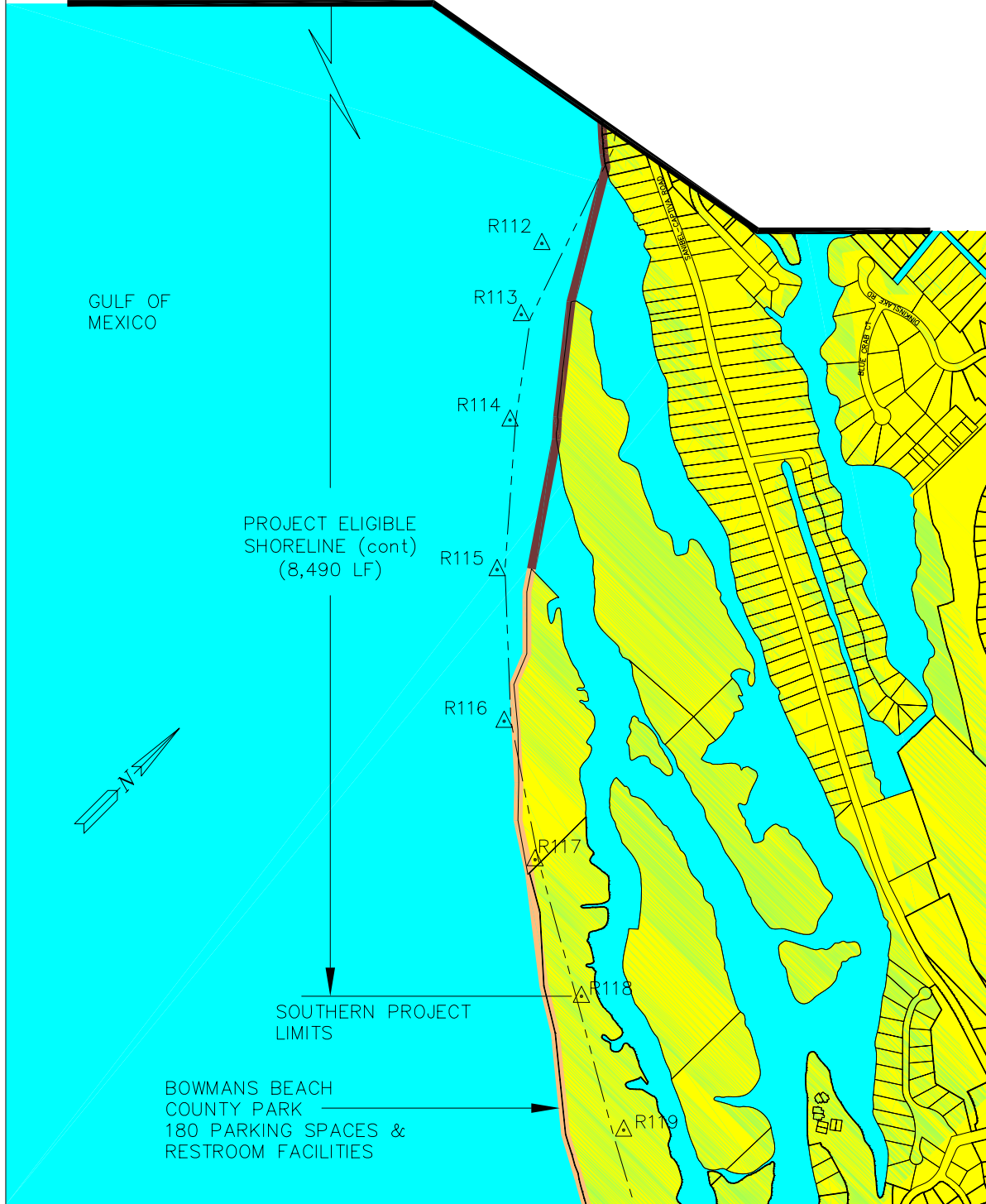
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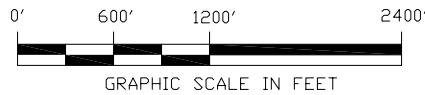
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03 OF 04

MATCHLINE - R111
(REFERENCE SHT. 3 OF 4)



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