

City Council Minutes

Workshop Meeting 04/22/87

City Council Chambers 735 Eighth Street South Naples, Florida 33940

-SUBJECT-	Page
DISCUSSION OF REQUEST BY JOHN F. DONAHUE FOR CITY PARTICIPATION IN EXTENSION OF THE TERMINAL JETTY ON THE NORTH SIDE OF GORDON PASS.	1-3
DISCUSSION OF POLICY FOR DUAL WATER AND WASTEWATER SYSTEMS IN NEW DEVELOPMENTS.	3-4
DISCUSSION/UPDATE WITH REFERENCE TO COMPUTERIZED TRAFFIC CONTROL SYSTEM.	4-5
DISCUSSION OF PRESERVING THE OLD NAPLES BUILDING IN CONJUNCTION WITH VARIANCE PETITION 87-V5, CHARLES A. CAMALIER, JR., TRUSTEE, PETITIONER.	5-6
DISCUSSION WITH REFERENCE TO DOCTORS PASS DREDGING.	6-7

CITY COUNCIL MINUTES Workshop Minutes

City Counci	1 Chambers
735 Eighth St	reet South
Naples, Flo	orida 33940



Time 9:00 a.m.

Date 04/22/87

		ing about da		2.11	vo	TE	
Present:	Edwin J. Putzell, Jr. Mayor Kim Anderson-McDonald	ni tart. Ha said th Séa as béa Diko area	M O T I	SECO	Y		7 E S
	William E. Barnett William F. Bledsoe Alden R. Crawford, Jr.	COUNCIL MEMBERS	0 N	N D	ES	N O	NT
	John T. Graver Lyle S. Richardson Councilmen	th the nord					
Also Pres	sent: Franklin C. Jones, City Manager David W. Rynders, City Attorney Mark W. Wiltsie, Assistant City Manager Gerald L. Gronvold, City Engineer Jon C. Staiger, Ph.D., Natural Resources Manager Jodie M. O'Driscoll, Deputy Clerk	Remarkant autor 201 autor		o 3 aba aba aba aba aba aba aba aba aba ab			
See Suppl	lemental Attendance List - Attachment #1.	1.00.0000		mi		33	
***	***						
Mayor Put of the Na nember to Taurus wh All proce (Naplesca	zell introduced Grover Erickson, Chairman aplescape Committee, who asked each Council o purchase a raffle ticket for the 1987 Ford hich was donated by the Ford Motor Company. eeds will be for the median beautification ape).	ensürler Sonstanner Sonstanner Sonstan Sonstan Sonstan Sonstan			10 1 H H H		
* * *	*** ***	1113863.47 a		101			
	ITEM 1			191			
DISC FOR TERN PASS	CUSSION OF REQUEST BY JOHN F. DONAHUE CITY PARTICIPATION IN EXTENSION OF THE MINAL JETTY ON THE NORTH SIDE OF GORDON 5.				90 90		
Mayor Put only to possible	zell pointed out that this discussion was address the jetty extension and not the placement of spoils from future dredging.					8 0 0 8	
Mr. John of infor included	Donahue presented the Council with a packet mation regarding this extension herein as Attachment #2.			28. 2015		1 (j) (j) (j)	
Mayor Put the City Donahue n placement beaches reiterate the jetty the two w do whatev is placed	tzell asked why Mr. Donahue was requesting to undertake extension of this jetty. Mr. replied that it was because it would assure of sand dredged from Gordon Pass on public to the north. The Mayor, however, ed his position that this discussion address y extension only, but Mr. Crawford said that were interrelated and that the City should yer is necessary to assure that dredged sand it to the north.	ba fartaga sha Mb. En estineres frasherend hasher oly stollo				· · · · · · · · · · · · · · · · · · ·	
City Mana City has funded in (DNR) gra	ager Jones explained that since 1982, the implemented beach improvement projects, a part by a Department of Natural Resources' ant program. This jetty extension project			0 501 8124 8134 8134		2 10 0 0	
	-1-	The Edge Line	100				

CITY OF NAPLES, FLORIDA			-	-		
City Council Minutes Date 04/22/87	COUNCIL MEMBERS	M O T I O N	SECOND	Y E S	N O	A B S E N T
It one time had been submitted to DNR for funding consideration; however, he said, there were other projects which took priority. There has been little support and, in fact, some resistance to this jetty extension. He said that DNR funds had been used for such projects as beach walkovers, restoration of dunes and public areas, removal of timber groins, etc.	i called the dwin J. Pur Mayor in Anderson		1		19	
in response to Mr. Crawford's concern, Mr. Jones noted that each year some beach related projects are budgeted with the money spent on the most critical.	Lilian F.J Iden R. Cr ohn T. Gia Vie S. Ric					
The City had offered to participate in the extension of this jetty, Mr. Jones said, but only to the extent of DNR grant monies; the balance to be funded by Mr. Donahue. Mr. Donahue had, however, not yet responded to the offer. Mr. Jones also pointed out that the nearest public access is a mile north of the proposed jetty and it is the City's responsibility to assure public funds are used for the public's benefit. He said that the U. S. Army Corps of Engineers' current position is that this structure would have no bearing on the placement of sand immediately to the north and the public beach area most in need of the spoils is actually three miles to the north where the platted Gulf Street is under water, Mr. Jones explained.	Council Li Lanklin C. Avid W. Ty Marke Li C. Stal Marke Marke Marke Marke Marke		Pt	* 6		~~~
Irs. Anderson-McDonald suggested that the City obtain a determination about the jetty in writing from the Corps' to support placement of dredged sand to the north. Mr. Crawford concurred. Mr. Barnett noted that the Corps in the past has been less than consistent with their determinations. Reiterating fr. Jones' statement that the Corps considers the presence of the jetty irrelevant, Natural Resources lanager Staiger said that there, in fact, is not enough sand in the ebbtide delta of Gordon Pass to complete a major beach renourishment effort.	all introdu Lascape Con ouronase 2 dh was don la will be "" " "			172) 1848 1849 1849 1849 1849 1849 1849 1849		
Ir. Staiger also explained that the City must file ts initial request for DNR funds before July 1, in anticipation of a 1989 dredging of the Pass and the City would also have to request State support for pumping of sand to the north by May of this year.	TY PARIC					
Ir. Staiger advised that upon Council approval of the Beach Restoration/Renourishment Policy, the staff begin seeking easements for the pumping equipment access. Mr. Graver cautioned, however, that the City would be responsible for the cost of pumping sand farther than the distance allowed by the Corps and Mr. Richardson asked if the staff had obtained estimates.	lacement o chaine pro abion reca a Artachmen oll asked w oundertale					
Ar. Staiger said that it would cost approximately \$40,000 to pump sand three miles and the City would be responsible, after grant funding, for approximately one-eighth of the total cost, or approximately \$40,000.	of sand dis to the h i his positi extonsion o tre interrit					
Ar. Graver also noted that the jetty would benefit only the nearest person's property and Mayor Putzell reminded Council that this discussion was to letermine the City's position with respect to extension of the jetty, not placement of dredged sand. Mr. Crawford, however, disagreed and said, once again, that if the jetty's extension is required to insure the placement of sand to the horth, then they have to be considered jointly.	to the no t ger Jones e implement part by a nt program	695 515 519				

### CITY OF NAPLES, FLORIDA 04/22/87 City Council Minutes Date

COUNCIL MEMBERS

:					
-	N	D	s	0	Т
	0	N	E	N	N
	I	0	Y		E
0.55	T	C	1		S
	0	E		1	В
10	m	5			A

Mr. George Gaynor, representing the Keewaydin Club, clarified the reasons for previous placement of dredged sand on Keewaydin Island to the south. After Hurricane Donna (1960), he said, it was necessary to dredge Gordon Pass to make it navigable again and, further, that Mr. Lester Norris paid for the dredging. Although no one wanted the spoils placed on their beaches, Keewaydin agreed to allow the sand to be placed there, at its cost, to prevent dumping into the Gulf, thus creating a small island. Mrs. Anderson-McDonald reiterated her suggestion to contact the Corps for written confirmation regarding placement of sand to the north; and said she hoped for a timely response so that the City could do what else is necessary for beach renourishment. Mayor Putzell reminded the Council that it could not now make a decision on that particular item as there has not been a public hearing nor have any professional opinions been heard. Mr. Crawford said there was a limit to the length of time the City should wait for a response from the Corps. The public hearing process should be commenced in order to have all required action taken in a timely fashion so that the Corps and City may place sand to the north. The City must start obtaining easements for dredging in the fall of 1987, Mr. Staiger confirmed. Mr. Graver said he believed the City should continue

its efforts to place sand north of the Pier where it is needed the most, but Mr. Bledsoe said more information is needed before a determination can be made.

Mr. Richardson reiterated his position that the Council should know as soon as possible the costs of moving sand three miles north.

It was the consensus of Council to contact the U.S. Army Corps of Engineers and obtain, in writing, verification that the City can place the dredged verification that the City can place the dredged sand to the north without the necessity of a jetty extension, and to hold a public hearing by which to obtain input from citizens and professionals in the field.

\*\*\*

\*\*\*

ITEM 2

DISCUSSION OF POLICY FOR DUAL WATER AND WASTEWATER SYSTEMS IN NEW DEVELOPMENTS. REQUESTED BY COUNCILMAN CRAWFORD.

\*\*\*

Mr. Crawford said he believed the Council should develop a policy regarding future placement of excess from the effluent reuse system.

City Manager Jones responded that currently the staff is working on such a policy to address the size of development, locations, extension of / water lines, etc. Consulting engineers Camp, Dresser & McKee, Inc., will assist. The policy should be ready for Council by the end of May, Mr. Jones advised.

Mr. Richardson asked if consumption is entailed in the current golf course effluent reuse agreements and City Manager Jones explained that it is a seasonal matter, which relates to the time of year, rain fall and number of users on a daily flow basis.

-3-

	NAPLES, FLC	ALDA				M	s			1
City Co	ncil Minute	s Date	04/22/87	- 893 m	COUNCIL	O T I O N	ECOND	Y E S	N O	1
The weather supplies wo the rainy s Mr. Crawfor to other de	also plays ould have to eason. d suggested evelopments	a major role be stored fo that the exo for irrigation	e, as the exc or future use cess be diven n.	cess in rted	daynor the reas ad on S triane 0 to dredge turther. 19. fil					
City Manag address any a significa effluent.	er Jones s sewer systent size as	said that the the set of the set	ne policy wo ny development utlet for exc	ould t of cess						
Also, in re explained t using effl presently b	sponse to Mi hat staff is uent on th ave no wate:	r. Graver, Cit s studying the he landscaped r.	ty Manager Jo e possibility d medians wh	ones of hich				0 2 2 0 0		and the second second second
Mr. Richard contact wit	son sugges th the County	ted that the y as the proje	e City maint ect progresses	tain s.	eision on a publico been heat					
***		***		***						
			ITI	EM 3	nould brond		20			
DISCUS COMPUI REQUES	SION/UPDATE ERIZED TR TED BY ENGI	WITH REF AFFIC CONTRO NEERING DEPAR	ERENCE TO DL SYSTEM. IMENT.	1 401374 6 410109 6 1 513			122			
stage, Mr. engineering total proje approximate the City wi \$20,000. M that the C share.	Gronvold sa plans are l ct at \$250, ly \$190,000 ll have to p ir. Gronvol County would	aid, and exp budgeted at 000. The St for actual pay the baland d assured Co also be pay	lained that \$50,000 with ate has budge construction ce, approximate uncilman Blee ying their t	the the eted and tely dsoe fair	ardeon I ard birde and birde hand birdeo hand birdeon hand birdeon hand birdeon hand birdeon hand birdeon					
Mr. Reynold provides co area and controls tr only provid but also s traffic cor and would various are company intersection not yet cor	ls explained mmunication through an affic. Bein les timing supplies the ditions from reduce the eas. Mr. R is current ons, although mplete.	that this clu to each sign IBM/PC mic: ng a two-way control of the e City with m each inters e response eynolds also ently stud h those partic	osed loop sys al in the con- rocomputer will system, it e intersection information ection, he sa time to con- noted that ying spec- cular studies	stem trol hich not ons, on aid, trol his ific are						
Mr. Richard studied and U.S. 41 and combination Solana Roa signalized Point Drive	lson asked wi Mr. Reyno Banyan Ro of interse ad. They intersecti and U.S. 4	hich intersec lds said they ad; the Four ctions at Old are also p on be const 1.	tions were by y were study Corners; and Trail Drive roposing a ructed at R.	eing ying d a and new iver /			M 6 9 0 8			
Mayor Putze	ell asked in 8th Street, ly on the Fo	f the signal South, was ur Corners in •	at Fifth Ave included in tersection, wi	enue the hich	lines, sr & MCNs liss read, advised,					
South and impact stud Mr. Gronvol	ld confirmed						1	1	1	1
South and impact stud Mr. Gronvol In response advised the as it calcu intersectio	d confirmed to Mr. t this new llates the lions working	Crawford, Mr system is mo ogical timing concurrently.	. Reynolds a re "intelliga plan of seve	also ent" eral						

City Council	Minutes Date <u>04/22/87</u>	COUNCIL MEMBERS	O T I O N	ECOND	YES
For example, Mr. to determine le minimize the cor allowing it to f	Reynolds said coordination is u oft turns from a side street ngestion of side street traffic flow into the mainstream.	ised to and			
Mr. Graver asked else in the area it was currently	d if this system was in use anywh a; Mr. Reynolds said that he belie y being used in Ft. Myers.	nere eved			
Mayor Putzell t would indicate t certain intersec Reynolds replic protected left t	then inquired whether this system the need for left-turn-only lights ttions. This computer system, ed, will indeed determine if turn lane is warranted.	stem s at Mr. a			
Also in respons estimated that t by late July a Department of Tr in the process.	se to Mayor Putzell, Mr. Reynd the system design would be compl and, further, that the State cansportation are aware of each s	olds lete and step			
City Engineer Gr it would take ap the construction been let for bio	convold additionally pointed out to oproximately nine months to compl h of the system after the project d, sometime in October.	that lete has			
* * *	* * *	***			
	ITH	EM 4			
BUILDING D PETITION 87 TRUSTEE, PI AT REGULAR	IN CONJUNCTION WITH VARIANCE 7-V5, CHARLES A CAMALIER, JR., ETITIONER. PURSUANT TO ACTION MEETING OF APRIL 15, 1987.				
Mr. John Gandy, that they cannot their planned of leasing the ad have no interes asserted, howeve business of dest have a reputat: asked the Counc: parking: these presently grand; if the building	, representing Speyhawk, explain consider the Old Naples Building development as they will be of jacent Berg Building and there st in the Old Naples Building. er, that his company is not in troying historic sights and, in fa- ion for saving such buildings. il to consider only the variance 19 parking spaces, he said, fathered in at the Berg property B is torn down, it loses those space	ined g in only fore He the act, He for are but, ces.		(2) (0) (3) (3)	
Mayor Putzell d unaware that two the project and until so informe said that the O day before, had the Old Naples These are factor revealed much ea reasonable dete concurred.	told Mr.Gandy that the Council o separate interests were involved d in the Old Naples Building s ed at the April 15, meeting. He a Council members, as recently as learned that the present tenants Building had a long term lear rs, he said, which should have b arlier so the Council could make ermination. Mrs. Anderson-McDon	was d in site also the of ase. been e a nald			
Mr. Gandy stress time to destroy of the outcome o	sed that there are no plans at the Old Naples Building, regard of the proposed variance.	this less			
Mr. Davis Camali position but fun considering deve Old Naples Build	ier not only reiterated Mr. Gand ther advised that his family is elopment of the property on which ling stands.	dy's not the			Statement of the second s
	-5-	Si sinottali manufati			
		and the second second			

CITY OF NAPLES	FLORIDA	AUINOLI	SBIDVK 40	1	10	VO	TE	
City Council M	inutes Date 04/22/87	, aostan 	COUNCIL	MOTION	SECOND	YES	NO	A B S E N T
Mayor Putzell ask inspection had bee determine if it cou- location, but Mr. the City preferred present site, the survey. Several verbally affirmed t without damaging expressed concern t it would lose much In response to a meeting, Mr. Camali	ed Mr. Camalier if a en performed on the build actually be moved to Camalier responded that to keep the building y did not pursue the local contractors, h that the building could build it, he said. Mayor that if the building were of its historic value. suggestion made at a er advised that his group	termite ding to another because at its termite however, e moved Putzell moved, previous was not	ple: Mr. 8 mine left it to flo it to flo the area: wirently i mineseet intersect a replied a left tw	ian last last last last last last last last	e Mia Voli Voli Voli Voli Voli Voli Voli			-
Mayor Putzell ren approves or disappr no assurance that remain intact. Mr position that the S in the Old Naples	the Speyhawk Company. inded Council that when oves the variance, there the Old Naples Building, peyhawk Company has no Building, only the Berg	ther it is still ng will ted his interest Building	response ed that th ant of Tra process, primer Gro id take api retriction	i ja hat het het het het het het het het het he				
Mr. Graver said tha parking variance preservation should items and Mr. Crawf Old Naples Buildir soundly built, it expressed concern a occur.	at he believed the Berg 1 and Old Naples 1 be considered as two a ord said he believed that ng was not, in all prob eventually would deterior as to what use of that land	Building Building separate as the ability, ate and d would	NOISSION PILITAN Sentitan 83 PILITAN 84 PILITAN 85 PILITAN 85					1
Mayor Putzell advis not trying to stri however, the Counci an historical site	ed Mr. Camalier that the p him of any ownership l was concerned about pr like the Old Naples Build	City was rights; eserving ing.	ha Jandy hay childy planned -					
***	***	***			sd			
		ITEM 5 ·						
DISCUSSION WIT DREDGING. REQ	TH REFERENCE TO DOCTORS P. QUESTED BY CITY MANAGER.	ASS						
City Manager Jones dredging project wo Although proposal approximately \$45,0 a smaller area. Th until the Council o canal maintenance t	advised that the Docto ould cost approximately s have been submitt 000, one alternative is to be staff recommends this, can develop a regular pro chrough taxing districts.	rs Pass \$30,000. ed for dredge he said, gram of	<ul> <li>biliding</li> <li>boltaling</li> <li>boltaling&lt;</li></ul>					
Mr. Graver said he \$25,000 with the affirmed his support dredging would for channel and could p rapidly.	understood the City had a County contributing \$10, It for this proposal beca low the natural contour prevent sand from accumula	llocated 000 and use the of the ting as /						
Mr. Bledsoe advised dredging a reduced	i that he was also in f area.	avor of	to dentro he outcome					
In response to May that the channel of eight feet where a	or Putzell, Mr. Graver could not be dredged deep rock bed exists.	advised er than		10				
Mrs. Anderson-McDon area could possibly	hald asked if dredging a create further complicat	reduced ions in		0.0				

\_\_\_\_\_

COUNCIL

OE

TIC

Τ

ONE

NDSOT

OY

B

S

Ε

NN

the future, but Mr. Graver pointed out that the channel will need to be dredged again in three to four years regardless, although the proposed dredging will satisfy the current need.

Mayor Putzell noted that this was the last year the City would pay for such dredging activities and that a taxing district will in the future have to defray the cost of dredging and maintaining Doctor's Pass.

In response to a further inquiry from Mr. Richardson, City Manager Jones explained that it would, however, take approximately three months to implement a taxing district program because taxpayers must approve it by referendum. The staff is now investigating the cost of a special election as well as the time frame involved, he added.

Mayor Putzell asked how long it would take to complete the paperwork for Council's approval of the district and City Attorney Rynders advised that the first reading could be as soon as May 6, 1987.

City Manager Jones pointed out, however, that the staff was not comfortable in presenting Council with this at first reading until they have verified the proposed millage rate for the district; however, if the Council wished to proceed, the second reading of the ordinance could be postponed until the millage rates are verified.

Mr. Richardson said he did not believe a referendum was necessary and suggested Council go ahead with an assessment district.

Mayor Putzell asked about the advantages of implementing a taxing district versus an assessment. City Manager Jones said that one advantage is that ad valorem taxes are income tax deductible and that the procedures for establishing an assessment district are rather cumbersome. The assessment would only cover a period of seven years, Mr. Jones added, but Mr. Richardson noted that the Charter could be amended to increase the span of the assessment.

It was the consensus of Council to go forward with respect to the reduced dredging of Doctors Pass but that thereafter the City not fund any further dredging of such Pass.

\*\*\*

\*\*\*

\*\*\*

ADJOURN: The Council adjourned from the Chamber at 11:15 a.m. to continue the meeting in City Hall Conference Room 224 to interview applicants for the Planning Advisory Board.

EDWIN J. PUTZELL, JR., Mayor

JANET CASON CITY CLERK

JODIE M. O'DRISCOLL DEPUTY CLERK

These minutes of the Naples City Council were approved on \_\_\_\_\_.

-7-

# SUPPLEMENTAL ATTENDANCE LIST

Charlie Andrews M/M George Gaynor Lodge McKee John Donahue

Dave Tackney Joan Hertz Debra Hilgeman Gregg Brooks Dave Tackney Jack Conroy Herb Anderson C. C. Holland Carlo Paterno

OTHER INTERESTED CITIZENS AND VISITORS

# NEWS MEDIA

William Upham, Naples Times Lori Rosza, Miami Herald Marty Bonvechio, Naples Daily News Dave Fuller, WNOG

-8-

### JOHN F. DONAHUE

Federated Investors Tower Pittsburgh, Pennsylvania 15222-3779

MAR 2 1 1987 CITY MANACER CITY OF HARLES, FLA.

March 20, 1987

Edwin J. Putzell Mayor Naples City Hall 735 8th Street South Naples, Florida 33940

Dear Mayor Putzell:

Enclosed is a copy of the Naples Daily News article dated March 16, 1987. The article states that "Putzell said today he agreed to sponsor Donahue's proposal, but can do nothing until the Naples resident submits something to him in writing." In response to this, I hereby formally request that the City of Naples immediately take all steps necessary to extend the terminal jetty 200' on the north side of Gordon Pass and that City Council address this project as a specific agenda item at its next available council meeting.

Enclosed for your review is a copy of the chronology of certain events involving the jetty project, past dredgings of Gordon Pass, sand placement and professional studies of these matters. (This is the chronology I included in the February 26, 1987 letter to you)

It's clear that the repair and extension of the jetty is the way Naples public beaches will be assured of receiving sand from the next dredging and at the least possible cost.

Action must be taken immediately. Through inaction, Naples has already permanently lost from the beach system over 1 million cubic yards of priceless sand. Naples public beaches north of the Pass have not received one bucket of sand from the five dredgings of Gorden Pass. We must prepare well in advance of the next dredging if the Naples public beaches are to benefit.

Importantly, the DNR and the Governor and his cabinet in their role as the Board of Trustees of the Internal Improvement Trust Fund, have recently agreed that the sand from the next dredging should go north of the Pass and that the jetty project should be completed (See Chronology Exhibit O, Settlement Agreement).

-9-

Exhibit C of the Chronology includes copies of the engineering drawings for the jetty project prepared by the engineer who conducted the 1980 Naples Beach Study.

PERCEBURGH. PenneyEvania 15221-3779.

Regarding the funding of the project, the Naples Daily News reports that "there are no funds budgeted by the City of Naples for such work". I have enclosed a copy of a Miami Herald article which indicated that apparently \$25,000 had been allocated for the jetty repair work in the present budget. Could you please explain what happened to the money that was apparently budgeted? Also could you please let me know the status of any requests for state funding for the jetty project, since it has been a priority item on the State list for each of the last five years?

In any event, in comparison with other budget items and priorities, I am sure that you would agree, along with three previous unanimous votes of City Council since 1980, that this jetty must be built for the long term benefit of the City of Naples.

Please act with a sense of urgency and please keep me informed about your action in this matter. If you need anything else, from me, please let me know.

Sincerely, /gbr Enclosures

cc: Members of Naples City Council Naples City Manager

# Naples budget designed to give city a new look

### By LORI ROZSA Herald Staff Writer

Toys for tot lots, new garbage cans, resurfaced tennis courts and more trees are some of the more visible improvements Naples residents will see once the city starts spending its \$26.5 million budget.

The city council approved the \$26.5 million budget last week without making any cuts. One department, community services, even got more than department head Chris Holley asked for.

Holley's department is getting \$400,000 for the Lets Keep Naples Green project. The project, proposed by Mayor Edwin Putzell earlier this year, means taxes in Naples will go up for the first time in 10 years.

> The tax increase of 21 cents for every \$1,000 of taxable property means the owner of a \$125,000 home will pay about 41 cents per week for the greenery project. The tax will be charged for only two years.

Holley said there is a special emphasis on greenery and landscaping of city property in this year's budget. Tree planting projects on 6th Street North and 11th Street North, among other streets, are included in the budget.

Holley also said the city is studying neighborhoods to find out where trees have died and need to be replaced.

Other projects in this year's budget include \$10,000 for tot lot equipment that will replace aging seesaws, swings and other equipment in all of the city's parks.

The city will contribute \$50,000 to an \$85,000 service center project for Anthony Park. The service center, planned by the Black Betterment Committee, will have dental and medical facilities.

The city will spend \$20,000 to replace old stop and yield signs, and \$12,000 to replace "unsightly, rusted oil drums that do not fit into the parks or beach aesthetics" of Naples. The new garbarge cans will be heavy, solid pre-cast containers bearing the city's logo.

City tennis and raquetball players will be playing on smoother surfaces once the city spends \$10,000 to resurface cracked and buckling courts. The shuffleboard courts at Cambier Park also will get a \$6,000 facelift.

Assistant City Manager Mark Wiltsie said the city will accomplish a lot this year with its \$26.5 million.

"We're happy with the budget, the city council seems to be happy with it," Wiltsie said. "We think we'll get a lot of nice projects done with it."



Y NEWS Mon., March 16, 1987

ATTACHMEN

#2

Page

# 1-Use Proponel **F**State Backin

# By ED O'DONOGHUE Staff Writer

n the public beaches if the city and from the next dredging placed and dredged from Gordon Pass to enourish Naples' beaches said rst adds 200 feet to an existing ave agreed in writing to have he city also will go along with it. ort from the state Cabinet - If tty to reduce beach erosion. fonday the plan now has the sup-John Donahue said state officials The leading proponent for using

ont acres on the pass's northern Donahue, who owns five Gulf-

> mostly under private ownership. which has limited access and is the channel on Keewaydin Island, expense from being placed across to prevent sand dredged at public tip, tried unsuccessfully last year

Trust Fund. nor and his Cabinet acting as trustees of the Internal Improvement was signed by the Department of Natural Resources and the gover-Donoghue said the agreement

thirds of the cost, however, might cost about \$100,000. Up to twowork required of the city would He estimated the construction

> sald. be available through the state, he

navigable waterway. don Pass, which is maintained as a quantities of sand are shifted from action of the winds and sea, great lion, at today's prices. By natural nine years is \$2 million to \$3 milthe public beaches south into Gorfrom the channel every three to The value of the sand dredged

until last week. but it did not become effective lation with the state in February. He said he entered into the stipu-

for the issue to go before the city would consider funding the projweeks ago that the City Council leaders. ect, but he offered no time frame Naples Mayor Edwin Putzell a few Donahue said he was assured by

can do nothing until the Naples sponsor Donahue's proposal, but in writing. resident submits something to him Putzell said today he agreed to

sald. today, but we could get something in next year's budget," the mayor "There's no money in the budget

> eral months," he said. discussed anything about it for sev-It would pass. The council hasn't "I don't have the slightest idea if

benefit. ing operations used for the public's have the rewards of future dredg-Monday was intended to generate new interest among residents to Donahue said his announcement

prove his property, reducing wind Pass jetty system would also imany improvements to the Gordon He acknowledged, however, that

Currently, there exists a small

shorefront. have new sand placed along his the structure made sand tight, and said he is privately paying to have Gulf from Donahue's property. He 40-year-old jetty stretching into the

ern tip of Keewaydin Island, a 1,700-foot-long jetty juts into the Across the channel, on the north

and dumped it on Keewaydin is Gulf. has dredged out the shifted sand the U.S. Army Corps of Engineers Five times in the past 25 years,

land, Donahue said.

and water erosion.

IN THE DISTRICT COURT OF APPEAL FOR THE FIRST DISTRICT OF FLORIDA

JOHN F. DONAHUE and RHODORA J. DONAHUE, husband and wife,

Appellants,

vs.

STATE OF FLORIDA, DEPARTMENT OF NATURAL RESOURCES, and THE BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND,

Appellees.

### , Ne S IFT PERSON AND

Appeal No. BP-308

ATTACHMENT #2

- Page

MAR 23 1987

CITY MANAGER GITY OF MAPLES, FLA

# STIPULATION AND SETTLEMENT AGREEMENT

This is a stipulation and settlement agreement which is entered into this 1871 day of February, 1987, between John F. Donahue and Rhodora J. Donahue (collectively referred to as Donahues), the State of Florida Department of Natural Resources (Department or DNR), and the Board of Trustees of the Internal Improvement Trust Fund (Trustees).

On September 11, 1985, the Department issued a letter to the U.S. Army Corps of Engineers (Corps) stating that the Department had no objection to the Corps' plan to conduct maintenance dredging in Gordon Pass in Naples, Florida. The Corps planned to deposit dredged sand on Keywaydin Island, which is located south of Gordon Pass. Since the sand was to be obtained from submerged sovereignty lands, the sand belonged to the State of Florida and its disposal was subject to the recommendations of the Department and the decisions of the Trustees.

ATTACHMENT #2 - Page 6

On October 2, 1985, the Donahues filed a timely petition for a formal administrative hearing to determine whether the Department and Trustees should deny the Corps' request to dredge the sand and deposit it on Keywaydin Island.

On August 11, 1986, the Trustees approved the Corps' request. On September 10, 1986, the Donahues filed a notice of appeal in the District Court of Appeal for the First District of Florida.

The Donahues, Department, and Trustees agree that settlement of this case is in the public interest and that entry of this stipulation without further litigation is the most appropriate means of resolving this matter.

Accordingly, the Donahues, Department and Trustees stipulate and agree to the following facts:

The Corps dredged Gordon Pass in 1962, 1967, 1970, 1979-1980, and 1986. In each instance, the Corps placed the dredged material (beach quality sand) on Keywaydin Island. More than 1,000,000 cubic yards of beach quality sand have been placed on Keywaydin Island as a result of the Corps' dredging projects.

The Corps has not placed any sand on the public beaches located north of Gordon Pass. These public beaches are important natural resources. They provide opportunities for public recreation and they are heavily used by residents and tourists. Keywaydin Island is privately owned and virtually unused by the public.

-14-

The need and justification for placement of sand on the beaches to the north are recognized in view of past sand placements and the recreational usage and critical erosion of these public beaches.

Most of the sand in Gordon Pass moved into the Pass from the north. As a coastal engineering principle, it is appropriate to place that sand in accordance with the natural sand transport patterns.

Several studies of the Naples beaches have recommended the repair and 200' extension of the terminal groin located immediately north of Gordon Pass. If repaired and extended, the groin would enable the Corps to deposit sand to the north of Gordon Pass and would slow the movement of sand from the north into Gordon Pass.

WHEREFORE, the Department and Trustees stipulate and agree that they shall support sand placement from Gordon Pass on the public beaches north of Gordon Pass. They will use their best efforts to ensure that all of the sand from the next dredging of Gordon Pass is placed on the public beaches north of Gordon Pass. Following that dredging event, sand shall be placed in accordance with the recommendations developed in the State Beach Management Plan, and in light of the areas of need, the natural sand transport patterns, and the public interest.

The Department and Trustees also support the repair and extension of the terminal groin that is located immediately north of Gordon Pass. They shall use their best efforts to cooperate and provide assistance with the plans to repair and extend the groin prior to the next dredging event. If possible, they will

-15-

help obtain local, state or federal funding for this project provided, however, that nothing contained herein shall be interpreted to require the Department or Trustees to provide funds for this project.

In consideration of the other agreements made herein, the Donahues stipulate and agree to dismiss their appeal within 10 days after this stipulation is executed by the parties.

DONAHUE

El Li. DONAHUE

18/87 DATE

DR. ELTON GISSENDANNER Executive Director, Department of Natural Resources, and duly authorized representative of the Board of Trustees of the Internal Improvement Trust Fund

87

DATE

DSD/vc:DRAFT-3

Approved as to Form and Legalit DNR Attorney

erns, and the public interest.

ATTACHMENT #2 - Pagz 9

*	SEGMENT	TRANSECT	MEAN WIDTH ACTIVE BEACH (B)	WIDTH OF DUNE/WASHOVER ZONE (D)	BEACH/DUNE WIDTH: TRANSECT (B + D)	BEACH/DUNE WIDTH: SEGMENT (B + D)
DO	CTORS PAS	S	*4683	314417 1314 - 414		
	14	23 24 25	63 108 65	75 90 60	138 198 125	154
	15	26 27	64 80	80 80	144 160	152
	16	28 29	56 65	ND 80	ND 145	145
NO	RTH COUNT	Y		a dan dan dati dak dan	an agus agus gun gun ann ann agus ann agus ann agus ann agus ann a	
	17	30 31	84 75	90 80	174 155	165
	18	32 33 34	41 78 59	· 80 75 100	121 153 159	144
GO	RDON PASS					an air an an an
	19	35 36	294 93	180 310	474 403	439
	, 20	37 38	71 60	120 180	191 240	216
	21	39 40	94 63	170 165	264 228	246
	22	41 42	80 80	190 150	270 230	250
	23	43 44 45	96 109 58	250 300 300	346 409 358	371
	24	46 47	251 169	700 575	951 744	848

-117-

SCURCE: COASTAL BARRIER DYNAMICS AND RESOURCES IN COLLIER COUNTY, FLORIDA

ya neroo Jučy, 1933

-17-



Figure 25. Beach segment location map, Collier County.

ATTACHMENT #2 - Page



735 EIGHTH STREET, SOUTH . STATE OF FLORIDA 33940

OFFICE OF THE CITY MANAGER

March 13, 1986

Mr. John F. Donahue 421 Seventh Avenue North Pittsburgh, Pennsylvania 15219

Dear Mr. Donahue:

I have received your letter of March 7, requesting that an item be placed on the City Council agenda of March 19, to consider a resolution that "sand from the current dredging should be placed on the Naples publicly-used beaches provided that any delay in dredging will not prevent navigation in Gordon Pass."

In reviewing prior Council actions to determine if it is necessary for the Council to consider this issue, I find that six months ago at their August 7, 1985, meeting, the Council considered this very issue, primarily at your request. At that meeting I believe the City Council took the exact position which you are suggesting. As a result of that meeting, letters were sent to both the Army Corps of Engineers and the Florida Department of Natural Resources. Responses from each of these agencies indicate their complete understanding of the City's position favoring the placing of the spoils from the dredging of Gordon Pass to the north of the inlet.

Since the City Council has adopted the position which you are suggesting and has transmitted that position to the agencies involved, I feel no useful purpose could be served from any further action by the City Council.

Sincerely in C. Jones City Manager

FCJ/tan xc: Mayor and City Council

# EXCERPTS [Emphasis Added] FROM:

BEACH EROSION CONTROL STUDY - 1972 COLLIER COUNTY, FLORIDA

# DEPARTMENT OF THE ARMY Jacksonville District, Corps of Engineers P.O. Box 4970 Jacksonville, Florida 32201

# 1. Conclusions

a. It is concluded that the most practical plan of improvement for beach erosion control in Collier County consists of artificial fill, <u>periodic nourishment</u> and a <u>terminal groin</u> for the most severely eroded area...Doctors Pass to Gordon Pass.

b. ... Use of Gordon Pass as a source of fill material for a portion of the initial fill and future nourishment is feasible and desirable.... [Page 31, No. 81]

# 2. Public Interest

The data and information concerning the considered action, as well as the stated views of other interested agencies and the concerned public, have been reviewed and evaluated in the light of the overall public interest relative to the various practicable alternatives in accomplishing remedial measures for beach erosion control in Collier County....[Page 29, No. 78]

# 3. Method of Correcting Problem Conditions

....The most natural and practical method of correcting the serious problem is by sand placement to restore the beach to a width commensurate with practical protection and recreational use requirements. This would cause waves to break seaward of the backshore, offering protection against waves breaking directly on backshore structures and preventing wave overtopping during most severe storms. Periodic nourishment would be required to maintain the proper beach width provided by initial sand placement. The problem area needing immediate attention is the area between Doctors Pass and Gordon Pass. [Page 19, No. 57] ...That same area is also the only area that is experiencing severe erosion. [Page 19, No. 58]

4. Plan of Improvement

General.--A type of protection has been developed for the reach Doctors Pass to Gordon Pass which can meet the needs of the area. The most natural and feasible plan of improvement is by initial sand fill together with a terminal groin at the north shore of Gordon Pass and periodic nourishment when needed....[Page 23, No. 67] Plan for Doctors Pass to Gordon Pass -- a. Beach fill --Initial fill is required for 29,600 linear feet (5.6 miles) of gulf shore between Doctors Pass and Gordon Pass... The estimated volume of material required for initial fill is 230,000 cubic yards. Periodic nourishment of the improved beach, which would be provided when needed, is estimated at about 35,000 cubic yards annually.

b. Terminal groin. -- Analysis indicates that provisions of a 200-foot groin at the north shore of Gordon Pass would be required to hold the fill material in place and prevent excessive shoaling of Gordon Pass. The groin would be of rubble-mound construction with a sand tight core...[Page 24, No. 70]

# 5. Design criteria

The proposed protective measure is designed to provide protection against ordinary storm conditions of comparatively frequent occurrence and to serve adequately as a recreational beach. Although it would not afford complete protection against rare and extreme storms, a substantial amount of protection would be provided under those conditions.... [Page 20, No. 60]

# 6. Other Alternatives

Other methds of correcting problem conditions were considered. These included groins, groins and beachfill, revetments, offshore breakwaters, and combinations of one or more of those methods. However, none were as feasible or would provide as much protection and benefits as the method of sand placement....Maximum utilization would be made of suitable material from future maintenance dredging of Gordon Pass....[Page 19, No. 59]

... There is not sufficient sand in usable quantities or acceptable quality offshore of the proposed project area... There is also no available upland source in Collier County to obtin suitable sand for the proposed project... [Page 23, No. 69]

# EXCERPTS [Emphasis Added] FROM:

# 1980 SUB-OCEANIC REPORT

# 1. Terminal Groin, Gordon Pass

Sand transport into Gordon Pass represents one of the major sources of sand loss to the beach system. The magnitude of the sand loss could be reduced with the construction of a terminal groin on the north side of the pass. It is therefore recommended that the rubble groin on the north side of Gordon Pass be modified and extended approximately 200 feet. (Page 16)

# 2. Use Of Dredging Sand

The spoil from the maintenance dredging was deposited on Keewaydin Island and did not benefit the beach within the study area. (Page 32)

Sand dredged from Gordon Pass has been by-passed to Keewaydin Island at an equivalent rate of 23,000 cubic yards per year.(Page 52)

# EXCERPTS [Emphasis Added] FROM:

# 1983 BRIGGS REPORT

# Conclusion on the Condition of the Beach and Its Preservation

Our committee discussed, at length, the various methods of beach stabilization in case it should ever be necessary. Included among these were breakwaters, artificial reefs, bypassing sand from one side of a pass to another and beach scraping. At this point, none of these procedures is deemed necessary and is not recommended at this time. The Committee does recommend and unanimously passed the following motion:

Motion: That when Gordon Pass is dredged, a portion of the spoil, if suitable, be placed on the north side of the inlet. (Page 1).

ATTACHMENT #2 - Page /

5 m 5 F

STATUS OF BARRIER BEACH SHORELINE COLLIER COUNTY, FLORIDA: SUMMARY OF OBSERVATIONS AND CONCLUSIONS:

A Report to the Collier County Conservancy

among these were breakwaters, artificial reefs, bypassing sand from one side of a pass to another and beach acraping. At this point, none of these procedures is deamed necessary and is not recommended

> Albert C. Hine, PhD\* Earth Surface Research 5920 - 17th Street NE St. Petersburg, FL 33703

\*Assistant Professor of Marine Science Department of Harine Science University of South Florida 830 First Street South St. Petersburg, FL 33701

# Introduction

Upon the request of Dr. Bernie Yokel of the Horris Marine Research Center and the Collier County Conservancy, Dr. Norbert Psutey of Rutgers University and I spent two days (April 2-3, 1981) assessing the status of beach erosion, the effectiveness of the present coastal engineering structures and the potential effectiveness of proposed stabilization structures This was done by direct observation from the water, from hiking around selected sites, from aircraft, and from a brief analysis of aerial photographs.

From north to south, the specific areas of local concern that were pointed out to us are: (1) Wiggins Pass; (2) Gordon's Pass; (3) the engineering structures fronting the condominiums along Marco Island; (4) and the proposed nourishment/jetty-groin type structure proposed for south Marco Island.

# General Geological Setting

The Collier County coast is dominated by a complex barrier island system. Only Naples Beach appears to be a mainland beach setting wherein no back-barrier lagoon is present. This entire area is a low wave energy, low tidal range setting. The dominant variable seems to be the tidal pris (volume of water going in and out of the inlets; measured in m<sup>3</sup> or yd<sup>3</sup>

The size of the tidal prism, as well as the magnitude of the longshor transport system, affect inlet behavior. Inlet stability or instability i a function of the balance between the amount of sand transported along a coastal sector by wave action and the flushing capability of the inlet.

<u>Wave Dominated Beach/Inlet Systems</u>. Where the net longshore transpor is relatively high compared to the flushing capability of an inlet (small tidal prism, the inlet and surrounding beach system is called "wave-

-25-

2

dominated." Here, the waves transport sands to primarily one side of the inlet (the updrift side). These new sediments partially infill that side of the channel and force it to move laterally against the barrier island on the down-drift side. If enough sand is introduced into the inlet channel, the inlet will close. Otherwise, this type of inlet will migrate very quickly in the direction of net longshore sand transport. This will form a long, narrow inlet channel that runs parallel to the beach before it turns and discharges seaward. Ultimately, the channel becomes too long and too inefficient. The inlet closes and frequently, a new opening will form farther updrift -- perhaps back at its earlier, initial location. The cycle of rapid downdrift migration and closing repeats itself again. This is the situation at Little Marco Pass. This is a highly unstable system with rapid erosion occurring downdrift (south) of the inlet mouth. This is called a "wave-dominated" system because the waves control and dominate inlet behavior. Obviously, any planning for development should take into account the nature, history, and rate of inlet movement. Other good examples of wave-dominated inlet-beach systems are the south shore of Long Island and the North Carolina Outer Banks.

<u>Tide Dominated Beach/Inlet Systems</u>. Where the tidal prism of an inlet is relatively large compared to the net longshore transport, the inlet is less likely to migrate laterally substantial distances. These inlets are also ebb-dominant meaning that the ebb-tidal currents are faster than the flood-tidal currents. Because of these two factors plus the relatively low energy wave climate (compared to North Carolina, for example), large, seaward-extending shoals called ebb-tidal deltas develop. These shoals caus extensive wave refraction which in turn controls the direction and rate sand movement on the beaches. As these seaward shoals change shape and size

-26-

3

the stability of the neighboring beaches changes in response. It is a carefully linked system. The two inlets that define Marco Island are tide dominated inlets. They have large ebb-tidal deltas. These shoals, particularly the Big Marco Pass ebb-tidal delta, significantly affect the shoreline behavior over much of northern Marco Island. The shoals off Caxambas Pass significantly affect. Kice Island, but also affect Marco Island as well -- particularly when the waves are approaching from the southwest.

Sediment Supply. There are no new sources of sand being introduced into this barrier-island system. No rivers are contributing new sands and no large bluffs are contributing new sands. This is a "closed budget" system. Sands lost to the beach are trapped on the ebb-tidal delta shoals for the most part. Other sediment sinks include the offshore (outside of the influence of the inlets), the migrating recurved spits (the northern beach adjacent to Little Marco Pass), washover fans, dunes, and the inner portions (flood-tidal deltas) of inlets. There seems to be an abundance of sand in the total geologic system. The problem is that a lot of it is not on the beaches.

An additional problem relates to a long-term geological phenomenon. When the <u>rate</u> of sea-level rise slowed considerably approximately 3,000 -5,000 yrs. B.P. (before present), many shorelines were supplied by an "excess" of sand residing in the nearshore/inner continental shelf region. Many islands widened/grew seaward by the addition of beach ridges. Marco Island is an excellent example of this seaward widening. As the "excess" sand became depleted, the rate of widening decreased. Presently, all the "excess" sand resides within the barrier island-lagoon system. The offshore is no longer providing as much (if any) sand to the beach. As a

-27-

result, the beaches have changed in the past 300 - 1,000 years from growi seaward to eroding landward.

# Recent Sea Level Rise

Tide guage data extending back some 90 years show that sea level is presently rising at the rate of 1 ft/100 yrs. This is an approximate value. In some places, sea level is rising even faster due to a local sinking of the ground. So, even if there were no waves to erode and transport sediments away from the beach, the beach line would retreat landward because of this world-wide flooding and increase of the water volume in the oceans due to melting glaciers.

# Summary of Geologic Setting

The Collier County shoreline thus is situated in an area dominated by unstable inlet systems where either the inlets themselves migrate or the ebb-tidal deltas fluctuate. No new sources of sand are present. Superimposed upon this system is a history of depleted offshore sand supplies and a recent rapid rise in sea level. The result is a highly dynamical, fluctuating coastline marked by long-term, widespread beach retreat.

# What is the Problem? A Statement of Priorities and a Philosophy are Needed.

Given that the beach is eroding and will continue to erode even though there may be some temporary beach accretion in some places, and given the fact that expensive, long-life buildings have been placed very close to the beach, one can easily envision a dilemma: you can't move the buildings and you can't stop beach erosion -- certainly not in the 25-100 year time interval. Does one try to engineer a structure that will protect the buildings or does one try to maintain a wide, useful beach? The two are usually mutually exclusive. Whose interests are at stake? Who will benefit? Who

-28-

5

will pay for beach stabilization? Are stabilization structures expected t last over the life of the buildings? Has a moving set back line been esta blished? Will the coastal engineering structures cost more than the total value of the property they were designed to protect? Will the taxpayer be committed to an open-ended, seemingly permanent program of maintenance and the installation of new structures where older ones have failed? Has a long-term development plan even been generated? What happens when the federal taxpayer no longer participates in local beach stabilization programs. This is very likely to happen. Will or can the local communities alone pay for \$500,000 groins and beach nourishment projects where costs range from \$5-10/yd<sup>3</sup> and a moderate project is 300,000 yd<sup>3</sup> -- to be repeated every 3-5 years?

In short, what does the community want? Does it have a clear idea where it's headed? Has it determined what is important -- the public use of a resource, private property, buildings, or beaches? Why build a condominium so close to the beach when it is plain to all that expensive stabilization means will be necessary in the near future? Why put jetties on an inlet and risk unknown problems when the local economy or safety clearly doesn't justify it?

The community is going to have to ask and answer these questions <u>befo</u> the problems arrive not after. The community should also realize that tax payer assistance in funding and maintaining coastal engineering structures as well as underwriting flood insurance is being carefully questioned at all levels of government.

# Specific Recommendations

<u>Wiggins Pass</u>. This is an unstable, small inlet that probably will no close. It probably can maintain a channel suitable for small boats. Even

-29-

though the channel will move, navigational aids can be moved around acco ingly to indicate the deeper water. Jetties are clearly not needed.

If jetties are placed on this inlet, the down-drift side (the south side) will experience rapid erosion. Continuous sand nourishment would have to be performed to maintain the beach at this public facility. Also, the sand nourishment material commonly contains large shell and rock fragments. These become concentrated on the beach and degrade its use and appearance.

Keep this inlet in its natural state as long as possible. Does it really need to be stabilized?

<u>Gordon's Pass</u>. This is an inlet having severe erosion on the north side and partially stabilized on the south side by a poorly constructed, highly permeable jetty. The volume of boat traffic indicates that continue maintenance of the jetty is justified, although the jetty should be rebu-Also, the construction of a north jetty and the nourishment of those beache by dredge spoil could be desirable. However, there should be no illusions that jetty maintenance, dredging, sand nourishment, and even artificial sand by-passing from one side of the inlet to another will not be a permanent expense and way of life. Beach erosion on either side could resultbec the two impermeable jetties. The solution is sand pumping across the inlet beach nourishment.

North Marco Island Condominiums. These structures were built near that zone of the island where maximum erosion is likely to occur. Waves approaching from the northwest are refracted around the ebb-tidal delta of Big Marco Pass. These waves finally strike the beach from the southwest. This sets up a northerly transport of sand in a zone that extends from 1/4 to 1/3 of the way down Marco Island from this northern inlet.

6

-30-

7

Beyond this zone, the northwest approaching waves pass by the ebb-tidal delta, are unrefracted, and strike the beach setting up a southerly longshore transport of sand. Hence, that portion of island fronting the condominiums is presently supplying both the north and south ends of the island with sand. This erosion at the center and deposition at the ends has caused the high degree of curvature in the island's geomorphology. Ob viously, the ends of the island can erode as well -- in response to changing behavior of the inlet and its associated shoals.

To protect the condominium structures and to provide for a useful beach, the only alternative is to nourish the beach and to continue to nourish the beach through time as needed. Perhaps, some inobtrusive offshore breakwater can be emplaced to absorb wave energy and reduce longshore transport. The survivability of such a structure through the high energy events without dispersing boulders or other components throughout the environment should be determined. Also, the "end or side effects" on the beach where this offshore structure terminates should be ascertained. The long range (50-75 years) life of such a feature should be known as well as the upkeep. An environmental impact analysis should be conducted.

The source area for the sand nourishment should be the neighboring ebb-tidal delta shoals and not the immediate offshore. However, a waverefraction analysis over the proposed borrow sites should be conducted to assess the impact of artificially changing the bottom contours. If the wave pattern is to be altered, a subtle but important response may occur on the beaches.

To protect against storms, either severe frontal passages or mild hurricanes, a wide artificially nourished berm as previously mentioned backed by a high, wide, vegetated sand dune would suffice. The sand tied up in the

-31-

berm and the dune would be refashioned into a wide, flat beach profile du a high energy event. This would absorb and dissipate the energy of the stor waves. Much of this sand would also be moved rapidly offshore during the early period of the storm to form an offshore bar. This offshore bar would cause the storm waves to break seaward and dissipate most of their energy there. After the storm, the beach would partially recover. However, it would be up to the community to artificially restore the beach to its prestorm appearance.

To protect against a Hurricane Camille size storm is pointless. This hurricane had sustained 200 mph winds and a storm surge of 25 feet. Waves and currents generated by such a hurricane would destroy any rock or concrete structure. If such a storm struck, a rapid evacuation is the only thing that anyone could do. Rock revetements or rock cored dunes will do no good as such objects could easily be hurled at the buildings they are trying to protect. Additionally, rock structures are not needed during the less intense storms as the wide berm and wide, high sand dune would be sufficient. So, keep the rocks off the beach. <u>They don't belong there</u> <u>and they are not needed</u>. Groins also have a poor track record and should be avoided. Besides, such an engineering technique requires many groins, not one or two. If sand is not constantly renourished in a groin field, they become undermined, fail, and can locally accelerate erosion.

South Marco Island. There is rapid erosion here. The sands are being carried around the stabilized point and are deposited out on the ebb-tidal delta associated with Caxambas Pass. Sand nourishment along this beach would help. The sands should come from the ebb-tidal delta. The proposed short single jetty to hold this beach is probably a good idea. However one should recognize that continued maintenance costs and renourishment

3

-32-

costs will occur permanently. The taxpayer should not be expected to foot this bill if there is no public benefit. Also, the channel associated wit Caxambas Pass could undermine the jetty and the entire south end of Marco Island which appears now to be completely covered by rip-rap.

It is doubtful that the jetty, by stopping some of the southerly long shore transport will have much of an impact on the next island down -- Kic Island and Cape Romano.

The beach along the southern end of Marco Island would also ultimatel benefit from a sand nourishment project at the northern one-third of the island as much of this sand would be transported to the south.

Finally, one should ask the hard question: "Is this shoreline really worth all this effort and money?". The notion that it <u>has</u> to be stabilize is faulty. Let the beach erode, just build the structures along a set-bac line so when the beach has eroded back to that line, the structures have reached their life expectancy and should be taken down anyway.

# Concluding Remarks

Avoid engineering structures whenever possible. Build behind set bac lines. Once a network of groins, seawalls, jetties, and revetements has been established, an endless, costly maintenance program is necessary with the possible loss of the beach and much of the natural environment that people come in the first place to see. Do not try to protect the shoreline from the major storm. That is an enormous undertaking that has a goo chance of failing. Where the immovable structures exist, maintain wide berms and build dunes for protection against the northwest blows or the occasional tropical storm.

-33-

Respectfully submitted,

:0

Albert C. Hine, PhD\* Earth Surface Research 5920 - 17th Street NE St. Petersburg, FL 33703

\* Assistant Professor Department of Marine Science University of South Florida 830 First Street South St. Petersburg, FL 33701

Finally, one should ask the hard question: "Is this shoreline really

is faulty. Let the beach grode, just build the structures along a set-ba

reached their life expectancy and should be taken down anyway.

been established, an endlass, costly maintenance program is necessa

people come in the first place to see. Do not try to protect the shore-

berms and build dunes for protection against the morthwest blows or the

line from the major storm. (That is an enormous undertaking that has a gov

benefit from a sand nourishment project at the northern one-third of the

The taxpayer should not be expected to

. •



1 Maples Daily News 4/3/86

# Jones Tells Dredge Pane Knew of No Sand Option By CHUCK CURRY Staff Writer when it was decided to dump sand

City Manager Frank Jones testified this morning that he thought Naples was locked into Keewaydin Island as a dumping site for sand now being dredged from Gordon Pass and there was no option of placing sand on the public beach.

His testimony came this morning during the fourth day of a state administrative hearing on the Gordon Pass dredging controversy.

WEDNESDAY, TWO ex-mayors of Naples said they did not know

> when it was decided to dump sand onto Keewaydin Island, while the city's ex-engineer said Jones made the decision.

Former mayors Stanley Billick and Roland Anderson and ex-City Engineer John McCord highlighted testimony given during the Wednesday session.

Billick, Anderson and McCord said they support the idea of having the sand dumped on the public beach north of Gordon Pass.

Part-time Naples resident John Donahue is trying to stop the

> dredging project. Donahue believes the U.S. Army Corps of Engineers is improperly dumping the dredged sand on Keewaydin Island, while it should be placed on the public beach.

"I wasn't even aware when the site committee met," Billick said of a 1984 meeting to decide where the sand would be dumped.

"Did the city manager (Jones) act independently in choosing the south portion of the pass (for dumping?)" asked Corps of Engineers attorney Harrison Ford.



"He did not have direction from the council and he did not have direction from me," Billick said.

Anderson, too, said he was not aware that the city had made a decision on where to dump the sand and joined Billick in saying the issue was not controversial until Donahue became involved in 1985.

(Please see SAND, Page 2A)

-36-

# Sand

McCord said Jones told him that it was the city's position to have the sand dumped on Keewaydin Island.

It was McCord who met with state and federal officials in 1984.

"I expressed the city's position ... that the project was to be handied in the same way as the 1980 project ... that the sand should go to the south as it had in the past," McCord said.

Asked who authorized him to state the city's position, McCord said, "The city manager." Attorneys for the Corport France

Attorneys for the Corps of Engineers and the state Department of Natural Resources also asked if Jones had the authority to make the decision.

"You'll have to ask that question of the city manager," McCord re-

> plied. "Was anybody in charge of the city?" asked DNR attorney Spiro Kypress

Kypreos. Today, Ford asked Jones, "Did you give any direction to the city engineer ... with regard to where the sand should go?"

"I believe our position was that at that point the Corps of Engineers had given us a position that without a jetty on the north side" of Gordon Pass, no sand would be dumped on the public beach," Jones said.

Jones said after the hearing that Billick may not have been told of the details surrounding the dredging, but Billick was aware that the Corps of Engineers would not dump sand on the public beach without a jetty built on the north

# From Page 1A

side of the pass.

A jetty armors the south side of the pass, which is the north tip of Keewaydin Island. In 1982, both city and state funds were available for building a jetty on the north side.

However, based on criticism headed by Lavern Gaynor, whose family owns much of Keewaydin Island, Billick ordered Jones to yank the city's portion of the funding -- killing the jetty project. On Donahue's complaint leading to this weak's horizont the fund-

On Donahue's complaint leading to this week's hearings, both the Corps of Engineers and the DNR believe that the city of Naples expressed its opinion on where the sand should go and that all proper procedures were used in selecting Keewaydin Island.