REVISED 2020-05-14 MEETING PACKET

May 13, 2020

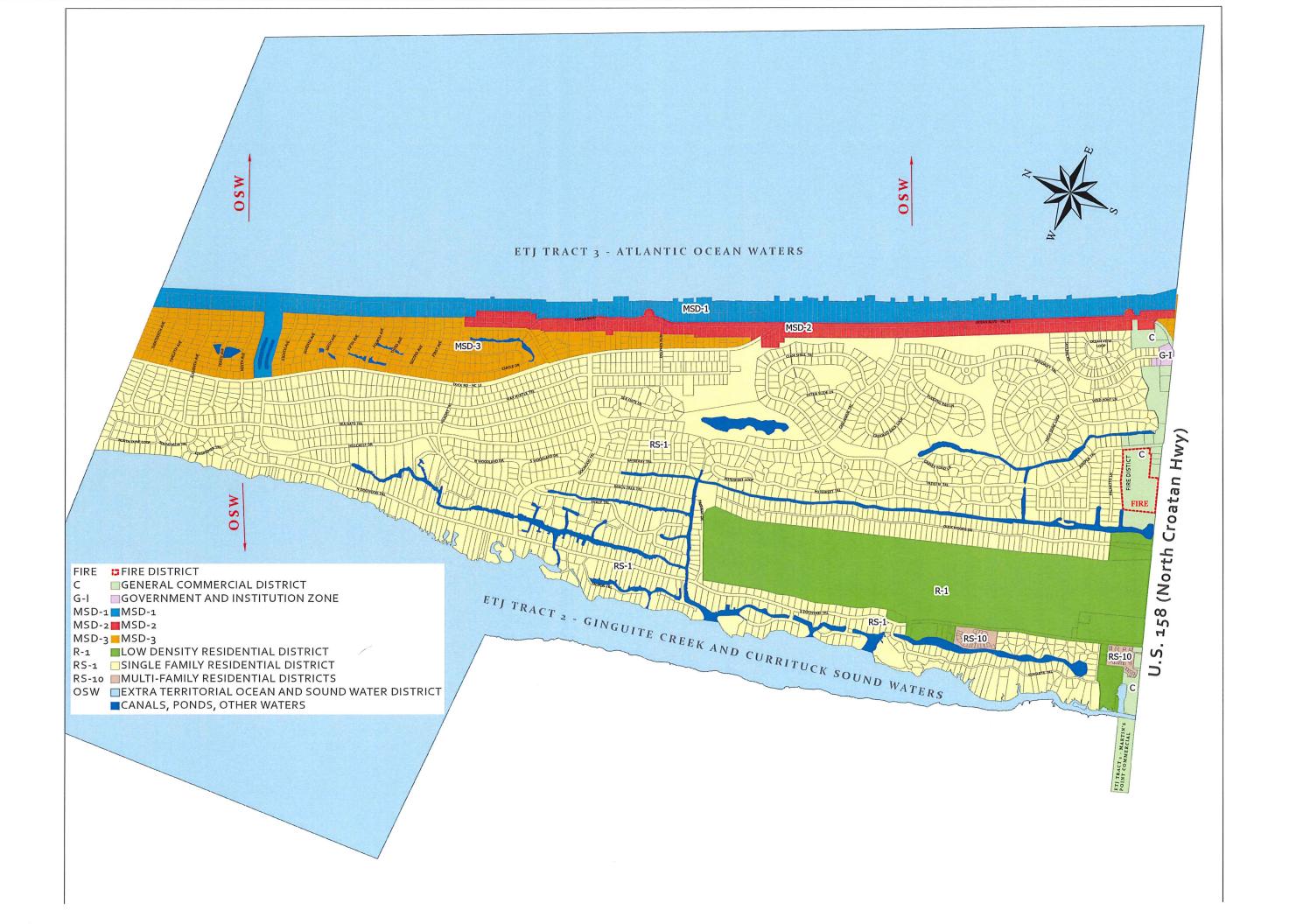
MEMORANDUM

From: Wes Haskett, Interim Town Manager/Planning Director

To: Town Council

RE: Beach Nourishment Funding Models

The funding models prepared by DEC Associates, Inc. have been updated based on input received from Council members. One update includes a revision of the applicable tax rate to the currently proposed revenue neutral rate of 19.58 cents. The other update includes a new column on the Town Raised Revenues spreadsheet that shows the average property value of each proposed Municipal Service District (MSD) and the impacts of the proposed MSD tax rates and 19.58 tax rate. The highlighted percentages shown on that spreadsheet are for discussion purposes only, not recommendations. Should Council decide to move forward with a beach nourishment project, a final decision on the funding of the project will not be required until budget discussions for the fiscal year 2021-2022.



May 13, 2020

\$13,974,200 Project

Version 6a

Option 1

Beach Nourishment Financial Model

Sources:

Other

Cost of Issuance:

Project
Cost of Issuance

<u>Uses:</u>

\$ 13,974,200 \$ 100,000

Total: \$ 14,074,200

Borrowed Funds
County Contributed

7,037,100 7,037,100

Total: \$ 14,074,200

Bond Counsel Bank Counsel

LGC FA

\$ 100,000

PLEDGED FUNDS

	Sales Tax	Ос	cupancy Tax	Coun Interloc	- 1	Total		County Interlocal	Town Raised	Total
2019 \$	918,986	\$ 9	968,641		\$	1,887,627	2019			\$ -
2020 \$	918,986	\$ 9	968,641		\$	1,887,627	2020			\$ -
2021 \$	918,986	\$ 9	968,641		\$	1,887,627	2021			\$ -
2022 \$	918,986	\$ 9	968,641		\$	1,887,627	2022		\$ 1,224,775	\$ 1,224,775
2023 \$	918,986	\$ 9	968,641	\$ 428,94	4 \$	2,316,571	2023 \$	428,944	\$ 1,224,775	\$ 1,653,719
2024 \$	918,986	\$ 9	968,641	\$ 379,68	4 \$	2,267,312	2024 \$	379,684	\$ 1,224,775	\$ 1,604,459
2025 \$	918,986	\$ 9	968,641	\$ 330,42	5 \$	2,218,052	2025 \$	330,425	\$ 1,224,775	\$ 1,555,199
2026 \$	918,986	\$ 9	968,641	\$ 281,16	5 \$	2,168,792	2026 \$	281,165	\$ 1,224,775	\$ 1,505,939
2027 \$	918,986	\$ 9	968,641	\$ 231,90	5 \$	2,119,533	2027 \$	231,905	\$ 1,224,775	\$ 1,456,680
2028 \$	918,986	\$ 9	968,641	\$ -	\$	1,887,627	2028		\$ 1,224,775	\$ 1,224,775

					!						
		- !			ľ			FY Ending			
								Total			Repayment
Fiscal		(3%)	Γotal Debt	Total			E	Beach Fund	Repayment	Pledged	Coverage
Year	Principal	Interest	Service	Revenue	Su	ırplus/Deficit		Balance*	Coverage	Coverage	(w/FB)
2019			\$ - 1	\$ 	\$		\$				
2020			\$	\$ _	\$	-	\$				
2021			\$ <u> </u>	\$ -	\$	1.00	\$	-			
2022			\$	\$ 1,224,775	\$	1,224,775	\$	1,224,775	0.00	0.00	0.00
2023	\$ 1,407,420	\$ 246,299	\$ 1,653,719	\$ 1,653,719	\$	- 1	\$	1,224,775	1.00	1.40	1.74
2024	\$ 1,407,420	\$ 197,039	\$ 1,604,459	\$ 1,604,459	\$	15 15 5 <u>-</u>	\$	1,224,775	1.00	1.41	1.76
2025	\$ 1,407,420	\$ 147,779	\$ 1,555,199	\$ 1,555,199	\$	-	\$	1,224,775	1.00	1.43	1.79
2026	\$ 1,407,420	\$ 98,519	\$ 1,505,939	\$ 1,505,939	\$		\$	1,224,775	1.00	1.44	1.81
2027	\$ 1,407,420	\$ 49,260	\$ 1,456,680	\$ 1,456,680	1\$	-	\$	1,224,775			
2028	\$ _	\$ 	\$ 	\$ 1,224,775	\$	1,224,775	\$	2,449,549			
	\$ 7,037,100	\$ 738,896	\$ 7,775,996								

Beach Nourishment Projects - Issuance April 2022

Estimated Numbers (1-14-20 from Engineers)

Term:

Interest Rate:

5 years 3.50%

Town Project - 2022

\$ 7,037,100

	Principal	Interest	ebt Service		County Contributed	Town Contributed	
2022							
2023	\$ 1,407,420	\$ 246,299	\$ 1,653,719	\$	428,944	\$ 1,224,775	
2024	\$ 1,407,420	\$ 197,039	\$ 1,604,459	\$	379,684	\$ 1,224,775	
2025	\$ 1,407,420	\$ 147,779	\$ 1,555,199	\$	330,425	\$ 1,224,775	
2026	\$ 1,407,420	\$ 98,519	\$ 1,505,939	\$	281,165	\$ 1,224,775	
2027	\$ 1,407,420	\$ 49,260	\$ 1,456,680	\$	231,905	\$ 1,224,775	
2028							
Totals:	\$ 7,037,100	\$ 738,896	\$ 7,775,996	\$	1,652,123	\$ 6,123,873	

Project Costs	
Permitting/Design	\$ 435,000
Construction	\$ 11,758,000
Soft/Monitoring	\$ 510,800
Contingency	\$ 1,270,400

Total:

\$ 13,974,200

Par Amount: \$ 14,074,200

Dare Issue: \$ 7,037,100 SS Issue: \$ 7,037,100

Southern Shores - FY20 Valuation
Penny 7.82¢ Generates
\$ 156,621 **\$ 1,224,775**

Beach Nourishment Financial Model

May 13, 2020

Value Discounts

99.65%

5.00%

Collection Rate:

Reval Appeals:

\$13,974,200 Project

Version 6a

7.82¢= \$ 1,224,775 **Town Raised Revenues** Commerical MSD-1 MSD-2 MSD-3 Town Wide Total District 2022 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2023 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 - \$ 306,194 \$ 1,224,775 2024 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2025 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2026 \$ 673,626 \$ 110,230 \$ 134,725 \$ 2027 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 - \$ 306,194 \$ 1,224,775 2028 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2029 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2030 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2031 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2032 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2033 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2034 \$ 673,626 \$ 110,230 \$ 134,725 \$

								E	xan	nple: \$50	0K Valu	ue		
	Total Value	1¢	% of Raised Revenue	# of ¢ Needed	1 :	New ax for MSDs	Т	w Tax own Vide		Total ew Tax	19.5	urrent 58¢ Tax Rate	Pr	urrent + roposed acrease
	Total value	14	Revenue	# OI ¢ Needed	-	MODS	V	viue	146	ew rax	-	Nate	- 11	ici case
MSD-1	\$ 292,514,359	\$ 29,251	55%	23.03	\$	1,151	\$	98	\$	1,249	\$	979	\$	2,228
MSD-2	\$ 97,658,980	\$ 9,766	9%	11.29	\$	564	\$	98	\$	662	\$	979	\$	1,641
MSD-3	\$ 198,932,775	\$ 19,893	11%	6.77	\$	339	\$	98	\$	436	\$	979	\$	1,415
Commercial District	\$ 36,122,183	\$ 3,612	0%	0.00	\$	-	\$	98	\$	98	\$	979	\$	1,077
Town Wide	\$ 1,566,207,926	\$ 156,621	25%	1.96	\$	-	\$	98	\$	98	\$	979	\$	1,077
			100%											

				Е	xample	: A	verage \	/alu	ie in	Area			
				Ne	w Tax				С	urrent	C	urrent +	
		Ne	ew Tax	Т	own		Total		19.	58¢ Tax	Pr	oposed	%
		for	MSDs	٧	Vide	N	ew Tax			Rate	lr	crease	Increase
_	Avg Value	_											
\$	1,240,959	\$	2,858	\$	243	\$	3,100		\$	2,430	\$	5,530	128%
\$	637,603	\$	720	\$	125	\$	844		\$	1,248	\$	2,093	68%
\$	486,657	\$	330	\$	95	\$	425		\$	953	\$	1,378	45%
\$	2,119,828	\$	-	\$	414	\$	414		\$	4,151	\$	4,565	10%
\$	483,345	\$	-	\$	94	\$	94		\$	946	\$	1,041	10%

May 13, 2020 Beach Nourishment Financial Model

5 Year Averages of Revenues

öyr Avg:	\$	918,986	\$	968,641	\$	234,764	\$ -		
2019	φ	950,000	φ	1,000,000	Ψ	223,000			
2018 2019		964,512 950,000	\$ \$	1,014,531 1,000,000	\$ \$	248,575 225,000			
		•	- 0	A CONTRACTOR OF THE CONTRACTOR	1000				
2017		923,481	\$	926,873	\$	222,408			
2016	\$	894,212	\$	948,488	\$	236,759			
2015	\$	862,727	\$	953,313	\$	241,077			
		Sales Tax		Iax		Ιαλ	 Tancinse	 	
		Sales Tax		Tax	Lu	Tax	Franchise		
				Occupancy	La	nd Transfer	Utility		

\$13,974,200 Project

Version 6a

- \$ 2,122,391 All Revenues
- \$ 1,203,405 All Revenues Except Sales Tax

Special Obligation Bond for Beach Nourishment

May 13, 2020

\$16,685,800 Project

Version 6b

Option 3

<u>Uses:</u> Project

Cost of Issuance

\$ 16,685,800 \$ 100,000 Sources:

Borrowed Funds \$ 8,392,900

County Contributed \$ 8,392,900

Other \$ -

<u>\$ -</u> Total: \$ 16,785,800 Cost of Issuance:
Bond Counsel
Bank Counsel

LGC FA

\$ 100,000

Total: \$ 16,785,800

PLEDGED FUNDS

I LLDOLD I	ONDO								The state of the s	
	Sales T	·ax	Occupancy Tax	Cou Interlo	-	Total		County Interlocal	Town Raised	Total
2019 \$	918,98	36 \$	968,641		\$	1,887,627	2019			\$ -
2020 \$	918,98	36 \$	968,641		\$	1,887,627	2020			\$ -
2021 \$	918,98	36 \$	968,641		\$	1,887,627	2021	ū.		\$ -
2022 \$	918,98	36 \$	968,641		\$	1,887,627	2022		\$ 1,224,775	\$ 1,224,775
2023 \$	918,98	36 \$	968,641	\$ 747,5	57 \$	2,635,184	2023 \$	747,557	\$ 1,224,775	\$ 1,972,332
2024 \$	918,98	36 \$	968,641	\$ 688,8	07 \$	2,576,434	2024 \$	688,807	\$ 1,224,775	\$ 1,913,581
2025 \$	918,98	36 \$	968,641	\$ 630,0	56 \$	2,517,684	2025 \$	630,056	\$ 1,224,775	\$ 1,854,831
2026 \$	918,98	36 \$	968,641	\$ 571,3	06 \$	2,458,933	2026 \$	571,306	\$ 1,224,775	\$ 1,796,081
2027 \$	918,98	36 \$	968,641	\$ 512,5	56 \$	2,400,183	2027 \$	512,556	\$ 1,224,775	\$ 1,737,330
2028 \$	•		968,641	\$ -	\$	1,887,627	2028		\$ 1,224,775	\$ 1,224,775

Fiscal Year	Principal		(3%) Interest		Гotal Debt Service	Total Revenue	Su	ırplus/Deficit	1.31	FY Ending Total Beach Fund Balance*	Repayment Coverage	Pledged Coverage	Repayment Coverage (w/FB)
2019		na T		\$		\$	\$		\$				
2020				\$	3702	\$	\$	<u> </u>	\$				
2021				\$		\$	\$		\$				
2022				\$		\$ 1,224,775	\$	1,224,775	\$	1,224,775	0.00	0.00	0.00
2023	\$ 1,678,580	\$	293,752	\$	1,972,332	\$ 1,972,332	\$	<u> </u>	\$	1,224,775	1.00	1.34	1.62
2024	\$ 1,678,580	\$	235,001	\$	1,913,581	\$ 1,913,581	\$	<u>+</u> -	\$	1,224,775	1.00	1.35	1.64
2025	\$ 1,678,580	\$	176,251	\$	1,854,831	\$ 1,854,831	\$	- 2	\$	1,224,775	1.00	1.36	1.66
2026	\$ 1,678,580	\$	117,501	\$	1,796,081	\$ 1,796,081	\$	-	\$	1,224,775	1.00	1.37	1.68
2027	\$ 1,678,580	\$	58,750	\$	1,737,330	\$ 1,737,330	1\$		\$	1,224,775			
2028	\$ - 1	\$	4	\$		\$ 1,224,775	\$	1,224,775	\$	2,449,549			
	\$ 8,392,900	\$	881,255	\$	9,274,155								

Beach Nourishment Projects - Issuance April 2022

Term:

Interest Rate:

5 years 3.50%

Estimated Numbers (1-14-20 from Engineers)

Town Project - 2022

\$ 8,392,900

					County	Town	
	Principal	Interest	ebt Service		Contributed	Contributed	
2022							
2023	\$ 1,678,580	\$ 293,752	\$ 1,972,332	5	\$ 747,557	\$ 1,224,775	
2024	\$ 1,678,580	\$ 235,001	\$ 1,913,581	(\$ 688,807	\$ 1,224,775	
2025	\$ 1,678,580	\$ 176,251	\$ 1,854,831	,	\$ 630,056	\$ 1,224,775	
2026	\$ 1,678,580	\$ 117,501	\$ 1,796,081	,	\$ 571,306	\$ 1,224,775	
2027	\$ 1,678,580	\$ 58,750	\$ 1,737,330	,	\$ 512,556	\$ 1,224,775	
2028							
				_			
Totals:	\$ 8,392,900	\$ 881,255	\$ 9,274,155	,	\$ 3,150,282	\$ 6,123,873	

Project Costs	
Permitting/Design	\$ 435,000
Construction	\$ 14,146,000
Soft/Monitoring	\$ 587,900
Contingency	\$ 1,516,900
Total:	\$ 16,685,800
Par Amount:	\$ 16,785,800

Dare Issue: SS Issue:

Southern	n Shores - F	Y20	0 Valuation
Penny		7.8	32¢ Generates
\$	156,621	\$	1,224,775

\$ 8,392,900

\$ 8,392,900

Special Obligation Bond for Beach Nourishment

2034 \$ 673,626 \$ 110,230 \$ 134,725 \$

May 13, 2020

- \$ 306,194 \$ 1,224,775

\$16,685,800 Project

Version 6b

7.82¢= \$ 1,224,775 Town Raised Revenues Commerical Town Wide MSD-1 MSD-2 MSD-3 District Total 2022 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2023 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 - \$ 306,194 \$ 1,224,775 2024 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2025 \$ 673,626 \$ 110,230 \$ 134,725 \$ 2026 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 - \$ 306,194 \$ 1,224,775 2027 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2028 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2029 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2030 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2031 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2032 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2033 \$ 673,626 \$ 110,230 \$ 134,725 \$

					ļ
			% of Raised		
	Total Value	1¢	Revenue	# of ¢ Needed	
MSD-1	\$ 292,514,359	\$ 29,251	55%	23.03	١
MSD-2	\$ 97,658,980	\$ 9,766	9%	11.29	1
MSD-3	\$ 198,932,775	\$ 19,893	11%	6.77	1
nmercial District	\$ 36,122,183	\$ 3,612	0%	0.00	1
Town Wide	\$ 1,566,207,926	\$ 156,621	25%	1.96	
			100%		

99.65%

5.00%

Value Discounts

Collection Rate:

Reval Appeals:

	New Tax for MSDs		To	v Tax own		Total ew Tax	19.5	irrent 8¢ Tax	Current + Proposed Increase			
┝	IV	ISDS	V\	/ide	INE	ew rax		Rate		Increase		
3	3	1,151	\$	98	\$	1,249	\$	979	\$	2,22		
9	3	564	\$	98	\$	662	\$	979	\$	1,64		
5	3	339	\$	98	\$	436	\$	979	\$	1,41		
5	3	-	\$	98	\$	98	\$	979	\$	1,07		
,	3	-	\$	98	\$	98	\$	979	\$	1,07		

Example: \$500K Value

	Example: Average Value in Area														
				Ne	w Tax				C	urrent	С	urrent +			
		Ne	w Tax	Т	own		Total		19.58¢ Tax Proposed			oposed	%		
		for	MSDs	V	Vide	Ne	ew Tax	_	Rate Increase Increase						
1	Avg Value														
\$	1,240,959	\$	2,858	\$	243	\$	3,100		\$	2,430	\$	5,530	128%		
\$	637,603	\$	720	\$	125	\$	844		\$	1,248	\$	2,093	68%		
\$	486,657	\$	330	\$	95	\$	425		\$	953	\$	1,378	45%		
\$	2,119,828	\$	-	\$	414	\$	414		\$	4,151	\$	4,565	10%		
\$	483,345	\$	-	\$	94	\$	94		\$	946	\$	1,041	10%		

May 13, 2020

\$16,685,800 Project Special Obligation Bond for Beach Nourishment

5 Year Averages of Revenues

	 Sales Tax		Occupancy Tax	La	nd Transfer Tax	10-10 pm 100
2015 2016 2017	\$ 862,727 894,212 923,481	\$ \$ \$	953,313 948,488 926,873	\$	241,077 236,759 222,408	
2018 2019	\$ 964,512 950,000	\$ \$	1,014,531	\$	248,575 225,000	
5yr Avg:	\$ 918,986	\$	968,641	\$	234,764	\$ -

- \$ 2,122,391 All Revenues
- \$ 1,203,405 All Revenues Except Sales Tax

Version 6b

Special Obligation Bond for Beach Nourishment

Total: \$ 14,855,600

May 13, 2020

\$14,755,600 Project

Version 6c

Option 4

Bond Counsel

Cost of Issuance:

Bank Counsel

LGC

FΑ

100,000

<u>Uses:</u>

Project \$ 14,755,600 Cost of Issuance \$ 100,000 Sources: **Borrowed Funds**

\$ 7,427,800 County Contributed \$ 7,427,800

Other

Total: \$ 14,855,600

PLEDGED FUNDS

	Sales Tax	Occupancy Tax	Cou Interlo	٠,١	Total		County Interlocal	Town Raised	Total
2019 \$	918,986	\$ 968,641		\$	1,887,627	2019			\$ -
2020 \$	918,986	\$ 968,641		\$	1,887,627	2020			\$ -
2021 \$	918,986	\$ 968,641		\$	1,887,627	2021			\$ -
2022 \$	918,986	\$ 968,641		\$	1,887,627	2022		\$ 1,224,775	\$ 1,224,775
2023 \$	918,986	\$ 968,641	\$ 520,75	58 \$	2,408,386	2023 \$	520,758	\$ 1,224,775	\$ 1,745,533
2024 \$	918,986	\$ 968,641	\$ 468,76	64 \$	2,356,391	2024 \$	468,764	\$ 1,224,775	\$ 1,693,538
2025 \$	918,986	\$ 968,641	\$ 416,76	S9 \$	2,304,397	2025 \$	416,769	\$ 1,224,775	\$ 1,641,544
2026 \$	918,986	\$ 968,641	\$ 364,7	75 \$	2,252,402	2026 \$	364,775	\$ 1,224,775	\$ 1,589,549
2027 \$	918,986	\$ 968,641	\$ 312,78	30 \$	2,200,407	2027 \$	312,780	\$ 1,224,775	\$ 1,537,555
2028 \$	918,986	\$ 968,641	\$ -	\$	1,887,627	2028		\$ 1,224,775	\$ 1,224,775

Fiscal Year	F	^o rincipal	(3%) Interest	 	Total Debt Service	Total Revenue	Su	ırplus/Deficit	FY Ending Total Beach Fund Balance*	Repayment Coverage	Pledged Coverage	Repayment Coverage (w/FB)
2019	1.1			\$		\$	\$		\$			
2020				\$	landa k	\$	\$	A 14 1 4	\$			
2021				\$		\$	\$	- 4	\$			
2022				\$		\$ 1,224,775	\$	1,224,775	\$ 1,224,775	0.00	0.00	0.00
2023	\$	1,485,560	\$ 259,973	\$	1,745,533	\$ 1,745,533	\$	+	\$ 1,224,775	1.00	1.38	1.70
2024	\$	1,485,560	\$ 207,978	\$	1,693,538	\$ 1,693,538	\$	~	\$ 1,224,775	1.00	1.39	1.72
2025	\$	1,485,560	\$ 155,984	\$	1,641,544	\$ 1,641,544	\$	- -	\$ 1,224,775	1.00	1.40	1.75
2026	\$	1,485,560	\$ 103,989	\$	1,589,549	\$ 1,589,549	\$		\$ 1,224,775	1.00	1.42	1.77
2027	\$	1,485,560	\$ 51,995	\$	1,537,555	\$ 1,537,555	1\$		\$ 1,224,775			
2028	\$		\$	\$		\$ 1,224,775	\$	1,224,775	\$ 2,449,549			
	\$	7,427,800	\$ 779,919	\$	8,207,719							

Beach Nourishment Projects - Issuance April 2022

Term:

Interest Rate:

5 years 3.50%

Estimated Numbers (1-14-20 from Engineers)

Town Project - 2022

\$ 7,427,800

					County	Town	
	Principal	Interest	ebt Service		Contributed	Contributed	
2022							
2023	\$ 1,485,560	\$ 259,973	\$ 1,745,533	\$	520,758	\$ 1,224,775	
2024	\$ 1,485,560	\$ 207,978	\$ 1,693,538	\$	468,764	\$ 1,224,775	
2025	\$ 1,485,560	\$ 155,984	\$ 1,641,544	\$	416,769	\$ 1,224,775	
2026	\$ 1,485,560	\$ 103,989	\$ 1,589,549	\$	364,775	\$ 1,224,775	
2027	\$ 1,485,560	\$ 51,995	\$ 1,537,555	\$	312,780	\$ 1,224,775	
2028							
Totals:	\$ 7,427,800	\$ 779,919	\$ 8,207,719	\$	2,083,846	\$ 6,123,873	

Project Costs	
Permitting/Design	\$ 435,000
Construction	\$ 12,505,000
Soft/Monitoring	\$ 474,200
Contingency	\$ 1,341,400
Total:	\$ 14,755,600
Par Amount:	\$ 14,855,600

Dare Issue:

SS Issue:

Southern Shores - FY20 Valuation
Penny 7.82¢ Generates
\$ 156,621 **\$ 1,224,775**

\$ 7,427,800

\$ 7,427,800

Special Obligation Bond for Beach Nourishment

2032 \$ 673,626 \$ 110,230 \$ 134,725 \$

2033 \$ 673,626 \$ 110,230 \$ 134,725 \$ 2034 \$ 673,626 \$ 110,230 \$ 134,725 \$ May 13, 2020

- \$ 306,194 \$ 1,224,775

- \$ 306,194 \$ 1,224,775

\$14,755,600 Project

Version 6c

7.82¢= \$ 1,224,775 **Town Raised Revenues** Commerical MSD-2 MSD-3 Town Wide MSD-1 District Total 2022 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 - \$ 306,194 | \$ 1,224,775 2023 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2024 \$ 673,626 \$ 110,230 \$ 134,725 \$ 2025 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 - \$ 306,194 \$ 1,224,775 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2027 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2028 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 | \$ 1,224,775 2029 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 | \$ 1,224,775 2030 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2031 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775

					L
	Total Value	1¢	% of Raised Revenue	# of ¢ Needed	
MSD-1	\$ 292,514,359	\$ 29,251	55%	23.03	1
MSD-2	\$ 97,658,980	\$ 9,766	9%	11.29	1
MSD-3	\$ 198,932,775	\$ 19,893	11%	6.77	1
nmercial District	\$ 36,122,183	\$ 3,612	0%	0.00	1
Town Wide	\$ 1,566,207,926	\$ 156,621	25%	1.96	1
			100%		

Value Discounts	
Collection Rate:	99.65%
Reval Appeals:	5.00%

			E	xar	nple: \$50	00K Valu	Э				
	New	Nev	v Tax			Cu	rrent	Cı	ırrent +		
Т	Tax for Town				Total	19.5	8¢ Tax	Proposed			
N	MSDs Wide				ew Tax	ax Rate Increase					
\$	1,151	\$	98	\$	1,249	\$	979	\$	2,228		
\$	564	\$	98	\$	662	\$	979	\$	1,641		
\$	339	\$	98	\$	436	\$	979	\$	1,415		
\$	-	\$	98	\$	98	\$	979	\$	1,077		
\$ - \$ 98					98	\$	979	\$	1,077		

	Example: Average Value in Area														
				Ne	w Tax				С	urrent	С	urrent +			
		Ne	ew Tax	Т	own	2)	Total		19.58¢ Tax Proposed			%			
		for	MSDs	٧	Vide	Ne	ew Tax		Rate Increase				Increase		
,	Avg Value														
\$	1,240,959	\$	2,858	\$	243	\$	3,100		\$	2,430	\$	5,530	128%		
\$	637,603	\$	720	\$	125	\$	844		\$	1,248	\$	2,093	68%		
\$	486,657	\$	330	\$	95	\$	425		\$	953	\$	1,378	45%		
\$	2,119,828	\$	-	\$	414	\$	414		\$	4,151	\$	4,565	10%		
\$	483,345	\$	-	\$	94	\$	94		\$	946	\$	1,041	10%		

May 13, 2020

Special Obligation Bond for Beach Nourishment

5 Year Averages of Revenues

5yr Avg:	\$	918,986	\$ 968,641	\$	234,764	\$ -
	,	1	 	~**	a commenced (194 See See	
2019		950,000	\$ 1,000,000	\$	225,000	
2018	\$	964,512	\$ 1,014,531	\$	248,575	
2017	\$	923,481	\$ 926,873	\$	222,408	
2016	\$	894,212	\$ 948,488	\$	236,759	
2015	\$	862,727	\$ 953,313	\$	241,077	
		Sales Tax	Tax		Tax	Franchise
			Occupancy	La	nd Transfer	Utility

\$14,755,600 Project

Version 6c

- \$ 2,122,391 All Revenues
- \$ 1,203,405 All Revenues Except Sales Tax

May 13, 2020

\$16,196,500 Project

Version 6d

Option 5

Special Obligation Bond for Beach Nourishment

Sources:

Borrowed Funds

County Contributed

Cost of Issuance:

Bond Counsel

Project \$ 16,196,500 Cost of Issuance \$ 100,000 **\$ 8,148,250** \$ 8,148,250

Bank Counsel

LGC

Other

FA

Total: \$ 16,296,500

Total: \$ 16,296,500

\$ 100,000

PLEDGED FUNDS

<u>Uses:</u>

	Sales Tax	Occupancy Tax	100		Coun Interloc	•	Total
2019 \$	918,986	\$ 968,641		\$ 1,887,627	2019		\$ -
2020 \$	918,986	\$ 968,641		\$ 1,887,627	2020		\$ -
2021 \$	918,986	\$ 968,641		\$ 1,887,627	2021		\$ -
2022 \$	918,986	\$ 968,641		\$ 1,887,627	2022	\$ 1,224,775	\$ 1,224,775
2023 \$	918,986	\$ 968,641	\$ 690,064	\$ 2,577,692	2023 \$ 690,064	\$ 1,224,775	\$ 1,914,839
2024 \$	918,986	\$ 968,641	\$ 633,026	\$ 2,520,654	2024 \$ 633,026	\$ 1,224,775	\$ 1,857,801
2025 \$	918,986	\$ 968,641	\$ 575,989	\$ 2,463,616	2025 \$ 575,989	\$ 1,224,775	\$ 1,800,763
2026 \$	918,986	\$ 968,641	\$ 518,951	\$ 2,406,578	2026 \$ 518,95°	\$ 1,224,775	\$ 1,743,726
2027 \$	918,986	\$ 968,641	\$ 461,913	\$ 2,349,541	2027 \$ 461,913	\$ 1,224,775	\$ 1,686,688
2028 \$	918,986	\$ 968,641	\$ -	\$ 1,887,627	2028	\$ 1,224,775	\$ 1,224,775

Fiscal Year	F	Principal	(3%) Interest	Fotal Debt Service	Total Revenue	Sı	ırplus/Deficit	FY Ending Total Beach Fund Balance*	Repayment Coverage	Pledged Coverage	Repayment Coverage (w/FB)
2019				\$ -	\$	\$	-	\$			
2020				\$ - 1	\$ -	\$	<u>-</u>	\$ · ·			
2021				\$ -	\$	\$	-	\$ -			
2022				\$	\$ 1,224,775	\$	1,224,775	\$ 1,224,775	0.00	0.00	0.00
2023	\$	1,629,650	\$ 285,189	\$ 1,914,839	\$ 1,914,839	\$		\$ 1,224,775	1.00	1.35	1.64
2024	\$	1,629,650	\$ 228,151	\$ 1,857,801	\$ 1,857,801	\$	-	\$ 1,224,775	1.00	1.36	1.66
2025	\$	1,629,650	\$ 171,113	\$ 1,800,763	\$ 1,800,763	\$	5.4	\$ 1,224,775	1.00	1.37	1.68
2026	\$	1,629,650	\$ 114,076	\$ 1,743,726	\$ 1,743,726	\$	-	\$ 1,224,775	1.00	1.38	1.70
2027	\$	1,629,650	\$ 57,038	\$ 1,686,688	\$ 1,686,688	1\$	-	\$ 1,224,775			
2028	\$		\$	\$	\$ 1,224,775	\$	1,224,775	\$ 2,449,549			
	\$	8,148,250	\$ 855,566	\$ 9,003,816							

Beach Nourishment Projects - Issuance April 2022

Term:

Interest Rate:

5 years 3.50%

Estimated Numbers (1-14-20 from Engineers)

Town Project - 2022

\$ 8,148,250

	Principal	Interest	ebt Service	_	County Contributed	Town Contributed	
2022							
2023	\$ 1,629,650	\$ 285,189	\$ 1,914,839		\$ 690,064	\$ 1,224,775	
2024	\$ 1,629,650	\$ 228,151	\$ 1,857,801		\$ 633,026	\$ 1,224,775	
2025	\$ 1,629,650	\$ 171,113	\$ 1,800,763		\$ 575,989	\$ 1,224,775	
2026	\$ 1,629,650	\$ 114,076	\$ 1,743,726		\$ 518,951	\$ 1,224,775	
2027	\$ 1,629,650	\$ 57,038	\$ 1,686,688		\$ 461,913	\$ 1,224,775	
2028							
				_			
Totals:	\$ 8,148,250	\$ 855,566	\$ 9,003,816		\$ 2,879,943	\$ 6,123,873	

Project Costs

Permitting/Design	\$ 435,000
Construction	\$ 13,783,000
Soft/Monitoring	\$ 506,100
Contingency	\$ 1,472,400
Total:	\$ 16,196,500

Par Amount:

\$ 16,296,500

Dare Issue:

\$ 8,148,250

SS Issue:

\$ 8,148,250

Southern Shores - FY20 Valuation

Penny

7.82¢ Generates

156,621 **\$ 1,224,775**

Special Obligation Bond for Beach Nourishment

May 13, 2020 \$16,196,500 Project

Value Discounts

Collection Rate:

Reval Appeals:

Version 6d

7.82¢= \$ 1,224,775 **Town Raised Revenues** Commerical MSD-2 MSD-3 District Town Wide Total MSD-1 2022 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 - \$ 306,194 \$ 1,224,775 2023 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2024 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 Co 2025 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2026 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 | \$ 1,224,775 2027 \$ 673,626 \$ 110,230 \$ 134,725 \$ 2028 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2029 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 | \$ 1,224,775 2030 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2031 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2032 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2033 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775 2034 \$ 673,626 \$ 110,230 \$ 134,725 \$ - \$ 306,194 \$ 1,224,775

			% of Raised	
	Total Value	1¢	Revenue	# of ¢ Needed
MSD-1	\$ 292,514,359	\$ 29,251	55%	23.03
MSD-2	\$ 97,658,980	\$ 9,766	9%	11.29
MSD-3	\$ 198,932,775	\$ 19,893	11%	6.77
Commercial District	\$ 36,122,183	\$ 3,612	0%	0.00
Town Wide	\$ 1,566,207,926	\$ 156,621	25%	1.96
			100%	

99.65%

5.00%

	Example: \$500K Value													
	New	Nev	v Tax		Cı	ırrent	Cı	Current +						
Т	ax for	To	own		Total	19.5	8¢ Tax	Pr	oposed					
MSDs Wide				Ne	ew Tax	F	Rate	In	crease					
\$	1,151	\$	98	\$	1,249	\$	979	\$	2,228					
\$	564	\$	98	\$	662	\$	979	\$	1,641					
\$	339	\$	98	\$	436	\$	979	\$	1,415					
\$	-	\$	98	\$	98	\$	979	\$	1,077					
\$	-	\$	98	\$	98	\$	979	\$	1,077					

	Example: Average Value in Area												
				Ne	С	urrent	Cı	urrent +					
		New Tax Town Total							19.58¢ Tax Proposed			oposed	%
		for	MSDs	١	Vide	N	ew Tax			Rate	In	crease	Increase
1	Avg Value												
\$	1,240,959	\$	2,858	\$	243	\$	3,100		\$	2,430	\$	5,530	128%
\$	637,603	\$	720	\$	125	\$	844		\$	1,248	\$	2,093	68%
\$	486,657	\$	330	\$	95	\$	425		\$	953	\$	1,378	45%
\$	2,119,828	\$	-	\$	414	\$	414		\$	4,151	\$	4,565	10%
\$	483,345	\$	-	\$	94	\$	94		\$	946	\$	1,041	10%

May 13, 2020

\$16,196,500 ProjectVersion 6d

Special Obligation Bond for Beach Nourishment

5 Year Averages of Revenues

		Occupancy	La	nd Transfer	er Utility
	Sales Tax	Tax		Tax	x Franchise
2015	\$ 862,727	\$ 953,313	\$	241,077	
2016	\$ 894,212	\$ 948,488	\$	236,759)
2017	\$ 923,481	\$ 926,873	\$	222,408	
2018	\$ 964,512	\$ 1,014,531	\$	248,575	j
2019	\$ 950,000	\$ 1,000,000	\$	225,000	
5yr Avg:	\$ 918,986	\$ 968,641	\$	234,764	+ \$ -

- \$ 2,122,391 All Revenues
- \$ 1,203,405 All Revenues Except Sales Tax

Town Kill Devil Hills	Town-Wide Increase 0.3	GF Revenues <u>Appropriated</u>	MSD 0.33	% of General Fund Revenue 8%	% of MSD 92%	Notes *only 1 MSD was established
Nags Head	0		17.5	25%	75%	2 MSD's established
Duck	0	about 200,000	MSD A-0.148 MSD B 0.315	20%	51% Paid by MSD A 29% Paid by MSD B	MSD A- all project area MSD B- oceanfront only
Kitty Hawk	0.2	0.4 of tax rate dedicated to beach nourishment	0.12			

COASTAL PROTECTION ENGINEERING OF NORTH CAROLINA, INC.



4038 MASONBORO LOOP ROAD WILMINGTON, NC 28409 910-399-1905

May 14, 2020

Wes Haskett
Interim Town Manager/Planning Director
Town of Southern Shores
5375 N. Virginia Dare Trail
Southern Shores, NC 27949

Re: Tentative Schedule for Beach Nourishment Project Proposed for 2022

Dear Mr. Haskett:

For your convenience, I have provided this tentative schedule of milestones for the proposed 2022 beach nourishment project for the Town of Southern Shores. A description of each of the items included in the schedule is provided below:

- Project Initiation / Inter-agency Meeting This meeting, sometimes referred to as a project kickoff
 meeting, is to provide general project details to both the federal and state regulatory and resource
 agencies that will review the environmental documents and render a decision on whether to issue
 permits for the project. This meeting was held on April 29, 2020 and was attended by
 representatives of the four Dare County Towns of Duck, Southern Shores, Kitty Hawk, Kill Devil Hills.
- Borrow Area Development This task includes offshore geophysical and geotechnical investigations aimed at identifying suitable sand to use for beach nourishment. These efforts should result in a borrow area design, which includes sediment compatibility analysis to support a permit being issued for use of the site for beach nourishment.
- Engineering Design At present, a general concept has been developed through the studies conducted to date. However, the work included in the Engineering Design item in the schedule will include finalizing background erosion rates, determining the specific beach fill configuration (berm height/berm width/dune height/dune width), optimizing the beach fill design and designing transitions on the north and south ends of the projects. This information along with the borrow area design will be incorporated into the permit applications.
- Federal Permitting In order to construct the project, the Town will need to secure a Dept. of the Army Permit from the US Army Corps of Engineers, which will also require the US Fish and Wildlife Service and National Marine Fisheries Service to consult on the action. If the borrow area is located in federal waters, which is likely, the Bureau of Ocean Energy Management (BOEM) will also be involved in the regulatory review process. Furthermore, BOEM will need to issue a lease for the use of sediment dredged from federal waters. Efforts included in this task are the development of environmental documents, the submittal of a Dept. of Army Permit application, and the coordination of the lease agreement with BOEM. This item is expected to conclude with issuance of the Dept. of Army Permit and BOEM Lease.
- State Permitting In order to construct the project, the Town will need to secure a CAMA Major Permit from the NC Division of Coastal Management. Efforts included in this task are the preparation



- of the permit application and regulatory review of the application. This item is expected to conclude with issuance of the State Permit.
- Obtaining Easements for Construction This is a process that the Town and its legal council are
 expected to complete, which will entail securing construction easements from oceanfront property
 owners to allow for the construction of the project.
- Development of Construction Plans & Specifications This work entails developing bid documents to solicit bids from dredge contractors for the combined Multi-Town project. The work includes finalizing engineering plans and the development of contract and specification documents that will be considered by dredge contractors in their development of bids.
- Establishment of MSDs This item represents the timeframe in which the Town would establish Municipal Service Districts (MSDs) if such an approach is chosen to fund a portion of the project. The process whereby the MSDs are established requires public noticing and a public hearing.
- Solicitation of Bids Once the Construction Plans & Specifications have been drafted, reviewed by Town and County staff, finalized, and incorporated into a bid package, the package will be advertised to dredge contractors. The documents are typically advertised for 30 days; however, that period may be extended if addenda are needed or if after the initial advertising period, three bids are not received.
- Award of Construction Contract This includes evaluation of bids and negotiations between the
 dredge contractor, County, and Towns on the final terms of the dredge contract. This item is
 expected to conclude with the execution of a construction contract.
- Construction The time included in the schedule is an estimate for the construction of the entire project. We do not recommend dictating to the dredge contractor the order in which the projects are to be completed, and therefore it is not possible to estimate when in the construction timetable, the Southern Shores section would be built.

Tentative Schedule for Beach Nourishment Project Proposed for 2022.

Milestone	Start Date	Completion Date	Number of Months
Project Initiation / Interagency Meeting	April 2020	April 2020	1
Borrow Area Development	May 2020	January 2021	9
Engineering Design	June 2020	January 2020	8
Federal Permitting	April 2020	June 2021	15
State Permitting	January 2020	June 2021	6
Obtaining Easements for Construction	January 2021	January 2022	12
Development of Construction Plans & Specifications	January 2021	June 2021	6
Establishment of MSDs*	March 2021	June 2021	4
Solicitation of Bids	June 2021	July 2021	1.5
Award Construction Contract	July 2021	August 2021	1.5
Construction	May 2022	October 2022	5

^{*} Dates provided for the Establishment of MSDs were provided by DEC Associates.



Please understand that all project schedules are subject to change. There are numerous aspects of this schedule that are out of the control of CPE-NC. That said, we have used our professional experience and judgement to develop this schedule and commit to the Town to provide them timely updates to the schedule, should revisions be required.

Please let me know if you have any questions about the schedule or project in general.

Sincerely,

Ken Willson

Senior Program Manager

Coastal Protection Engineering of North Carolina, Inc.

Office: 910-399-1905 Mobile: 910-443-4471

kwillson@coastalprotectioneng.com