EXECUTIVE SUMMARY

Obtain a recommendation for approval of the 2016 Collier County Beach Renourishment Plan and make a finding that this item promotes Tourism.

OBJECTIVE: Obtain a recommendation for approval and concurrence to proceed with the 2016 Collier County Beach Renourishment Plan, which includes a five (5) year sand supply solicitation, a Request for Proposal (RFP) for engineering services to obtain a Florida Department of Environmental Protection (FDEP) Notice to Proceed (NTP) and concurrence of expected timing, costs and permit restrictions.

CONSIDERATIONS:

The 2016 Collier County Beach Renourishment Plan has been developed by staff and includes:

1. 2016 Beach Renourishment - The physical beach surveys conducted in January/February 2016 indicated that the Vanderbilt Beach, the Park Shore Beach and parts of the Pelican Bay Beach need renourishment in 2016. The beach width measurements and three years of advanced renourishment placement was included in the calculations and indicate that Vanderbilt Beach (R22-R30) will require approximately 30,000 CY's (cubic yards) of renourishment; Park Shore Beach (R44-R53) will require 25,000 CY's to 30,000 CY's of renourishment; and the Pelican Bay Beach will require approximately 34,000 CY's of renourishment. No renourishment is recommended for the Naples Beach (R58- R79). The area south of Doctors Pass will be renourished when Doctors Pass is dredged when the installation of the Erosion Control Structures is complete. These quantities have been confirmed by an independent Peer Review consultation.

Preliminary discussions with the Beach Committee Chairman of the for the Pelican Bay Services Division indicated that a more realistic renourishment quantity that the Services Division is willing to compensate the County for would be approximately 7,500 CY's to 10,000 CY's. No sand will be placed on the Pelican Bay Beaches without an executed Memorandum of Understanding (MOU) outlining the terms and conditions of the Pelican Bay beach renourishment.

Based on this analysis, staff is recommending that the County proceed for planning purposes with a project to be built after November 1, 2016 using truck haul construction and either off road vehicle transport on the beach or sand fluidization and pipeline transport. The sand fluidization and pipeline transport placement approach is being considered to enhance public safety and will be bid as an option. Stated quantities will be used for planning and bidding purposes and will be adjusted prior to construction during the pre-construction survey that the contractor performs.

Cost to complete this work with engineering, sand supply, transport, beach placement, Construction Engineering Inspection (CEI) and certification is expected to be \$3M to \$4.5M after reimbursement of the Pelican Bay renourishments costs.

2. Five (5) year Sand Supply Contract and engineering support – Staff is recommending that the County bid a 5 year sand supply contract for supply of approximately 50,000 CY's per year for a total placement over a 5 year period of 250,000 CY's. The supply contract will be awarded based on "At-Beach" pricing utilizing a mine price per ton plus a specified transportation price of \$.20 per ton per one way haul miles. This will assure that Collier County receives the best overall price of sand delivered to our site. The average grain size will also be increased to .4mm from .33mm to utilize more commercially available sand that still meets the requirements of our FDEP permit. A larger grain size will also hold a steeper angle of repose and better withstand erosion.

An engineering Work Order (WO) not to exceed \$12,000 will be required to develop the specifications, Quality Assurance Plan and bid package to complete this work. Proceeding with the engineering to develop the sand supply contract is critical to completion of this task and recommended by staff.

- 3. Engineering Services The renourishment of beaches in this plan will result in construction costs in excess of \$2M and require a RFP solicitation for engineering support. Staff will proceed with the development of an engineering services package to include design, specifications, construction drawings, procurement support, a Notice-to-Proceed, and project certification. Consultant selection will be based on qualifications however the estimated cost for this work is not expected to exceed \$130,000 and be reimbursable on a time and material basis. This cost is included in the \$3M to \$4.5M. This solicitation will be consistent with previous truck haul beach renourishment projects that the County has performed in the past.
- 4. <u>Sugden Park Lake renourishment</u> The Sugden Park lake shoreline will be renourished with 10,000 CY of beach quality sand in the sailboat launch area, the main park beach and the water ski beach/stands area. Restoration of inland lakes may be funded with tourist development tax funds with a finding that the project promotes tourism. This project is part of the beach renourishment program and will be funded using Fund 195. To fund this project with Fund 183 funds would be inconsistent with the definition of beach park facilities and it has been defined by the County based on historical expenditures. Sugden Park is an inland lake and not a beach park as traditionally defined. Expected cost to be approximately \$400,000.
- 5. Permit Restrictions Both the United State Army Corps of Engineers (USACE) and the FDEP permit restrict sand trucking activities on Corkscrew Road to daylight hours due to Fish and Wildlife Service (FWS) concerns of interference with Florida Panther foraging activities in the twilight hours. This may possibly restrict the number of truck trips a trucker can complete per day and increase costs. This will depend on the mine selected to provide sand and approved truck routes specified by the County.

GROWTH MANAGEMENT IMPACT: There is no impact to the Growth Management Plan related to this action.

FISCAL IMPACT: The Overall 2016 beach renourishment program as outlined will cost between \$3M to \$4.5M including Engineering and CEI services. The sand supply contract including the engineering to develop the RFP package will cost approximately \$750,000 per year for 5 years. The cost of the Pelican Bay beach renourishment is not included in the \$3M to \$4.5M specified costs and will be reimbursed by The Pelican Bay community. The renourishment of Sugden Park lake shoreline will be approximately \$400,000, is not included in the Renourishment estimate of \$3M to \$4.5M and will be paid via Fund 195.

ADVISORY COMMITTEE RECOMMENDATIONS: At the March 10, 2016 Coastal Advisory Committee meeting this item was unanimously recommended for approval by a 7 to 0 vote.

LEGAL CONSIDERATIONS: This item has been reviewed and approved as to form and legality. As discussed above, the "restoration of an inland lake to which there is public access as these uses relate to the physical preservation of the inland lake" is an authorized expenditure of tourist development funds. Based on the County's Ordinance No. 92-60, as amended and Funding Policy Resolution No. 13-81, this project is eligible for funding using Fund 195 and not Fund 183 beach park facilities. Using Fund 183 would be an inconsistent expansion of the definition of beach park facilities based on the County's historical expenditure. This item requires a finding that the expenditure promotes tourism and majority vote for approval. – CMG

RECOMMENDATION: Recommend approval of the 2016 Beach Renourishment Plan and make a . finding that this item promotes tourism.

Prepared By: J. Gary McAlpin, P.E., Coastal Zone Management, Capital Project Planning, Impact Fees and Program Management Division, Growth Management Department

Attachments:

1) 2016 Beach Renourishment Sand Analysis

COLLIER COUNTY BEACH NOURISHMENT PROJECT METHODOLOGY

DEP PERMIT 0222355-001-JC Mod (012-JN) USACOE Permit SAJ-2003-12405 Mod (MOD-KS)

COLLIER COUNTY

PREPARED BY
HUMISTON & MOORE ENGINEERS
FEBRUARY 2016

This report by Humiston & Moore Engineers (H&M) presents the analysis of a monitoring survey, conducted in January of 2016 used to estimate the immediate future sand renourishment requirements based on the design beach width standard established prior to the 2005/2006 project. This monitoring survey was conducted by Sea Diversified Inc. (SDI) between January 11th and January 26th 2016 subsequent to the December 2013 and 2014 truck haul renourishment projects for the Collier County Beach Nourishment Project. Vanderbilt and Pelican Bay beaches were surveyed prior to a storm impacting the area on the weekend of January 16th and 17th while the beaches south of Clam Pass were surveyed after the storm. In order to document the impact on Vanderbilt and Pelican Bay beaches, a wading depth survey was conducted on February 13, 2016. Project limits for this report were based on the monument range information provided in second and third columns of **Table 1** derived from the 2005/2006 nourishment project fill template.

Table 1. Project Monument Range - Design Standard

Project	North Limit	South Limit	Design	
Area	of Project	of Project	Standard	
Beach	(Monument)	(Monument)	(Ft)	
Vanderbilt	R-22	R-30.5	100	
Pelican Bay	R-30.5	R-37	100	
Park Shore	R-48.5	R-54	85	
Naples	R-58A	R-79	100	

A *Design Standard* beach width and a corresponding fixed baseline were established prior to the 2006 project. The *Design Standard* for the beach width from the baseline is shown in the last column of **Table 1**. The baseline was set at the seawall, edge of vegetation, building line or equivalent, at each monument. The beach width was determined by the distance from the baseline to the mean high water elevation of +0.33 NAVD (+1.61 NGVD) at each DEP reference monument.

Projected erosion rates (shown as a negative number by convention) represent the amount of sand needed in addition to the design beach width to offset the background erosion anticipated in the respective project area to account for the time period between renourishment events in order to maintain a beach width equal to or greater than the *Design Standard*. These estimates shown in **Table 2** for one and three years were provided by CB&I; the three year rate is used in this analysis.

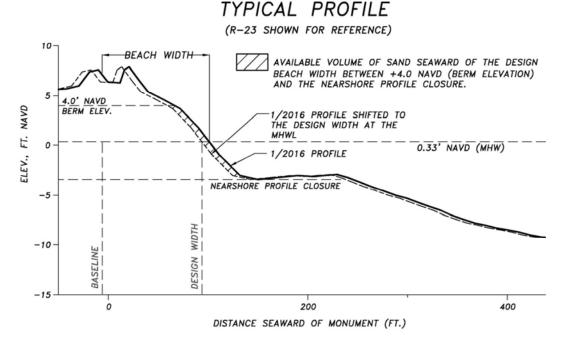
Table 2. Projected Erosion Rates

	*Annual	*3-Year
Project Reach	Erosion	Erosion
	(CY/Yr)	(CY/3 Yrs)
Vanderbilt (R-22+300 to R-30.5)	-9,702	-29,106
Pelican Bay (R-30.5 to R-37)	-3,331	-9,993
Park Shore (R-43+650 to R-54+400)	-11,138	-33,414
Naples (R-58A to R-79)	-27,069	-81,207

^{*}Rates provided by CBI

The sandy beach width from the baseline to the mean high water line was compared to the *Design Standard* for each project area to determine the advance volume remaining at each monument. This volume was calculated using the hatched area as shown in **Figure 1** for beach profiles having widths greater than the *Design Standard*, and the effective distance or the distance between the monuments. This volume was deducted from the 3-year erosion projection to determine the amount of sand needed to offset the projected erosion rate for a 3-year renourishment interval. In cases where the existing profile is landward of the design width at the mean high water line then this amount would be needed in addition to the three year projection.

Figure 1. Typical Profile – Available Advance Volume



Vanderbilt and Pelican Bay beaches were originally surveyed prior to a storm impacting the area on the weekend of January 9 and 10, 2016. A wading depth survey was conducted on February 13 at monuments R-23, R-24, R-26, R-30, R-32, R-34, and R-36 in order to document the nearshore changes as a consequence of the storm activity. The beach profiles for this survey follow a typical pattern showing upland loss as the profile slope decreased near the shoreline and there is indication the nearshore bar was impacted as shown in **Figure 3**. These upland losses were estimated (Column 10 of **Table 3**), added to the projected volumes calculated from the advance volume analysis depicted in **Figure 2** to update the projected sand requirements for 2016 shown in **Table 3**.

Figure 3. Typical Wading Depth Beach Profile - February 2016

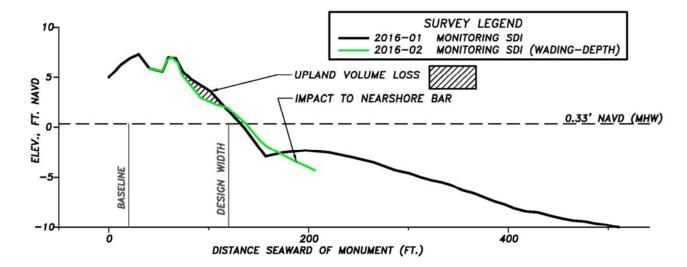


Table 3 shows the project area(s) shaded in light gray and the reaches with sand losses in excess of the projected 3-year erosion rate are shaded dark gray. The results of the advance volume analysis described in **Figure 2** are shown in **Table 3**: **Column 9**, and the results of the upland loss analysis described in **Figure 3** are shown in **Table 3**: **Column 10**. **Columns 11, 12 and 13** show the resultant sand losses by monument, the losses totaled by reach, and the projected beach width at each monument if the losses were to be replenished.

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jec	Er	Column #	4 **Fill	Weighted	1/2016	Width	***2016	Net	Upland	Total	Project	Projected
Pro	ear	FDEP	Effective	3 Year	Beach	less	Advance	Advance	Volume	Volume	Volume	Beach
	3-Year	Mon.	Distance	Erosion	Width	Des. Std.	Volume	Volume	Loss-Feb.	Reg'd	Reg'd	Width
	*		(Feet)	(CY/3 Yrs)	(Feet)	(Feet)	(CY)	(CY)	(CY)	(CY)	(CY)	(Ft)
		R-22	145	-506	105	5	173	-333	-182	-514	(- /	120
4		R-23	1,013	-3,533	107	7	2,037	-1,496	-1,268	-2,764		116
Vanderbilt Beach		R-24	1,070	-3,732	112	12	3,210	-522	-1,427	-1,948		119
	90	R-25	1,033	-3,603	98	-2	-693	-4,296	-2,053	-6,349		116
rbil	-29,106	R-26	989	-3,449	117	17	5,058	1,609	-2,611	-1,002	-30,577	120
nde	1,4	R-27 R-28	1,095	-3,817 -3,577	98 108	-2 8	-584	-4,401	-2,795	-7,196 2,004		123 122
Va		R-20 R-29	1,026 942	-3,286	108	9	2,203 2,289	-1,374 -997	-2,530 -2,781	-3,904 -3,778		124
		R-30	1,033	-3,603	113	13	4,033	430	-3,550	-3,121		123
h		R-31	1,022	-1,676	123	23	6,964	5,289	-3,584	1,704		720
Pelican Bay Beach		R-32	1,012	-1,659	119	19	5,869	4,210	-3,621	589	2,294	
V B	33	R-33	1,022	-1,676	102	2	734	-942	-3,727	-4,669		115
Ba	-9,993	R-34	1,012	-1,659	94	-6	-1,911	-3,571	-3,759	-7,329		117
san	Ÿ	R-35	998	-1,637	83	-17	-5,186	-6,823	-3,950	-10,773	-33,921	118
Jeliu		R-36	764 264	-1,253 424	81	-19 -9	-4,355 700	-5,607	-3,209	-8,816 2.224		119
4		R-37 R-38	264	-434	91 102	-9	-790 Notes:	-1,224	-1,110	-2,334		118
S		R-38 R-39			102 107		*Provided b	v CBI				
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m	N/A	R-41			146				•		e design bead	ch width
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		R-43			47		closure.					
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		R-44	438	-1,373	70	-15	-2,842	-4,215		-4,215		
		R-44 R-45	1,078	-3,379	84	-2	-571	-3,950	216	-3,950	-12,514	94
ıch		R-44 R-45 R-46	1,078 1,040	-3,379 -3,262	84 82	-2 -3	-571 -1,087	-3,950 -4,348	6/2016	-3,950 -4,348	-12,514	
Beach	4	R-44 R-45 R-46 R-47	1,078 1,040 953	-3,379 -3,262 -2,989	84 82 104	-2 -3 19	-571 -1,087 4,505	-3,950 -4,348 1,516	1/26/2016	-3,950 -4,348 1,516	-12,514 1,948	94
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Shore Beach	-33,414	R-44 R-45 R-46 R-47 R-48	1,078 1,040 953	-3,379 -3,262 -2,989	84 82 104 96	-2 -3 19 11	-571 -1,087 4,505	-3,950 -4,348 1,516	1/18 to 1/26/2016	-3,950 -4,348 1,516	1,948	94 95
ark Shore Beach	-33,414	R-44 R-45 R-46 R-47 R-48 R-49	1,078 1,040 953 1,000 1,077	-3,379 -3,262 -2,989 -3,136 -3,376	84 82 104 96 90	-2 -3 19 11 5	-571 -1,087 4,505 3,567 1,910	-3,950 -4,348 1,516 431 -1,466	red 1/18 to 1/26/2016	-3,950 -4,348 1,516 431 -1,466	1,948	94 95
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Park Shore Beach		R-44 R-45 R-46 R-47 R-48 R-49 T-50 R-51 R-52 R-53 T-54 U-55 R-56 T-57 R-58A R-58 R-59 R-60	1,078 1,040 953 1,000 1,077 1,208 1,108 967 1,060 729 517 790 1,033 1,081	-3,379 -3,262 -2,989 -3,136 -3,376 -3,787 -3,473 -3,032 -3,322 -2,286 -2,286 -2,248 -3,433 -4,491 -4,700	84 82 104 96 90 115 97 86 96 114 121 153 167 40 103 115 98	-2 -3 19 11 5 30 12 1 11 29 -60 3 15 -2	-571 -1,087 4,505 3,567 1,910 12,884 4,197 244 2,982 6,610 -11,363 813 3,827 -717	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417	Sul	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 octors Pass -13,611 -2,620 -664 -5,417	1,948 -1,466 9,821 -3,128 4,324	94 95 93 96 97
Park Shore Beach		R-44 R-45 R-46 R-47 R-48 R-49 T-50 R-51 R-52 R-53 T-54 U-55 R-56 T-57 R-58A R-58 R-59 R-60 R-61	1,078 1,040 953 1,000 1,077 1,208 1,108 967 1,060 729 517 790 1,033 1,081 1,049	-3,379 -3,262 -2,989 -3,136 -3,376 -3,787 -3,473 -3,032 -3,322 -2,286 -2,248 -3,433 -4,491 -4,700 -4,559	84 82 104 96 90 115 97 86 96 114 121 153 167 40 103 115 98 138	-2 -3 19 11 5 30 12 1 11 29 -60 3 15 -2 38	-571 -1,087 4,505 3,567 1,910 12,884 4,197 244 2,982 6,610 -11,363 813 3,827 -717 11,463	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904	Sul	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 octors Pass -13,611 -2,620 -664 -5,417 6,904	1,948 -1,466 9,821 -3,128 4,324	94 95 93 96 97 112 111 118 116
Park Shore Beach		R-44 R-45 R-46 R-47 R-48 R-49 T-50 R-51 R-52 R-53 T-54 U-55 R-56 T-57 R-58A R-58 R-59 R-60 R-61 T-62	1,078 1,040 953 1,000 1,077 1,208 1,108 967 1,060 729 517 790 1,033 1,081 1,049 1,015	-3,379 -3,262 -2,989 -3,136 -3,376 -3,787 -3,473 -3,032 -3,322 -2,286 -2,286 -2,248 -3,433 -4,491 -4,700 -4,559 -4,410	84 82 104 96 90 115 97 86 96 114 121 153 167 40 103 115 98 138	-2 -3 19 11 5 30 12 1 11 29 -60 3 15 -2 38 2	-571 -1,087 4,505 3,567 1,910 12,884 4,197 244 2,982 6,610 -11,363 813 3,827 -717 11,463 819	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591	Sul	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 octors Pass -13,611 -2,620 -664 -5,417 6,904 -3,591	1,948 -1,466 9,821 -3,128 4,324 -8,701	94 95 93 96 97 112 111 118 116
Park Shore Beach		R-44 R-45 R-46 R-47 R-48 R-49 T-50 R-51 R-52 R-53 T-54 U-55 R-56 T-57 R-58A R-58 R-59 R-60 R-61 T-62 R-63	1,078 1,040 953 1,000 1,077 1,208 1,108 967 1,060 729 517 790 1,033 1,081 1,049 1,015 967	-3,379 -3,262 -2,989 -3,136 -3,376 -3,787 -3,473 -3,032 -3,322 -2,286 -2,248 -3,433 -4,491 -4,700 -4,559 -4,410 -4,204	84 82 104 96 90 115 97 86 96 114 121 153 167 40 103 115 98 138	-2 -3 19 11 5 30 12 1 11 29 -60 3 15 -2 38 2 13	-571 -1,087 4,505 3,567 1,910 12,884 4,197 244 2,982 6,610 -11,363 813 3,827 -717 11,463 819 4,292	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88	Sul	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88	1,948 -1,466 9,821 -3,128 4,324	94 95 93 96 97 112 111 118 116
Park Shore Beach		R-44 R-45 R-46 R-47 R-48 R-49 T-50 R-51 R-52 R-53 T-54 U-55 R-56 T-57 R-58A R-58 R-59 R-60 R-61 T-62 R-63 R-64	1,078 1,040 953 1,000 1,077 1,208 1,108 967 1,060 729 517 790 1,033 1,081 1,049 1,015 967 854	-3,379 -3,262 -2,989 -3,136 -3,376 -3,787 -3,473 -3,032 -3,322 -2,286 -2,248 -3,433 -4,491 -4,700 -4,559 -4,410 -4,204 -3,713	84 82 104 96 90 115 97 86 96 114 121 153 167 40 103 115 98 138 102 113 91	-2 -3 19 11 5 30 12 1 11 29 -60 3 15 -2 38 2 13 -9	-571 -1,087 4,505 3,567 1,910 12,884 4,197 244 2,982 6,610 -11,363 813 3,827 -717 11,463 819 4,292 -2,433	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146	North of Do	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146	1,948 -1,466 9,821 -3,128 4,324 -8,701	94 95 93 96 97 112 111 118 116
		R-44 R-45 R-46 R-47 R-48 R-49 T-50 R-51 R-52 R-53 T-54 U-55 R-56 T-57 R-58A R-58 R-59 R-60 R-61 T-62 R-63	1,078 1,040 953 1,000 1,077 1,208 1,108 967 1,060 729 517 790 1,033 1,081 1,049 1,015 967	-3,379 -3,262 -2,989 -3,136 -3,376 -3,787 -3,473 -3,032 -3,322 -2,286 -2,248 -3,433 -4,491 -4,700 -4,559 -4,410 -4,204	84 82 104 96 90 115 97 86 96 114 121 153 167 40 103 115 98 138	-2 -3 19 11 5 30 12 1 11 29 -60 3 15 -2 38 2 13	-571 -1,087 4,505 3,567 1,910 12,884 4,197 244 2,982 6,610 -11,363 813 3,827 -717 11,463 819 4,292	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365	North of Do	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88	1,948 -1,466 9,821 -3,128 4,324 -8,701	94 95 93 96 97 112 111 118 116
	. N/A	R-44 R-45 R-46 R-47 R-48 R-49 T-50 R-51 R-52 R-53 T-54 U-55 R-56 T-57 R-58A R-59 R-60 R-61 T-62 R-63 R-64 T-65	1,078 1,040 953 1,000 1,077 1,208 1,108 967 1,060 729 517 790 1,033 1,081 1,049 1,015 967 854 804	-3,379 -3,262 -2,989 -3,136 -3,376 -3,787 -3,473 -3,032 -3,322 -2,286 -2,248 -3,433 -4,491 -4,700 -4,559 -4,410 -4,204 -3,713 -3,495	84 82 104 96 90 115 97 86 96 114 121 153 167 40 103 115 98 138 102 113 91	-2 -3 19 11 5 30 12 1 11 29 -60 3 15 -2 38 2 13 -9 12	-571 -1,087 4,505 3,567 1,910 12,884 4,197 244 2,982 6,610 -11,363 813 3,827 -717 11,463 819 4,292 -2,433 3,860	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146	North of Do	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365	1,948 -1,466 9,821 -3,128 4,324 -8,701	94 95 93 96 97 112 111 118 116
	. N/A	R-44 R-45 R-46 R-47 R-48 R-49 T-50 R-51 R-52 R-53 T-54 U-55 R-56 T-57 R-58A R-58 R-60 R-61 T-62 R-63 R-64 T-65 R-66 R-67 R-68	1,078 1,040 953 1,000 1,077 1,208 1,108 967 1,060 729 517 790 1,033 1,081 1,049 1,015 967 854 804 813 805 810	-3,379 -3,262 -2,989 -3,136 -3,376 -3,787 -3,473 -3,032 -3,322 -2,286 -2,248 -3,433 -4,491 -4,700 -4,559 -4,410 -4,204 -3,713 -3,495 -3,533 -3,497 -3,521	84 82 104 96 90 115 97 86 96 114 121 153 167 40 103 115 98 138 102 113 91 112 127 171 166	-2 -3 19 11 5 30 12 1 11 29 -60 3 15 -2 38 2 13 -9 12 27 71 66	-571 -1,087 4,505 3,567 1,910 12,884 4,197 244 2,982 6,610 -11,363 813 3,827 -717 11,463 819 4,292 -2,433 3,860 9,291 21,627 22,867	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346	North of Do	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346	1,948 -1,466 9,821 -3,128 4,324 -8,701	94 95 93 96 97 112 111 118 116
		R-44 R-45 R-46 R-47 R-48 R-49 T-50 R-51 R-52 R-53 T-54 U-55 R-56 T-57 R-58A R-58 R-60 R-61 T-62 R-63 R-64 T-65 R-66 R-67 R-68 T-69	1,078 1,040 953 1,000 1,077 1,208 1,108 967 1,060 729 517 790 1,033 1,081 1,049 1,015 967 854 804 813 805 810 805	-3,379 -3,262 -2,989 -3,136 -3,376 -3,787 -3,473 -3,032 -3,322 -2,286 -2,248 -3,433 -4,491 -4,700 -4,559 -4,410 -4,204 -3,713 -3,495 -3,533 -3,497 -3,521 -3,498	84 82 104 96 90 115 97 86 96 114 121 153 167 40 103 115 98 138 102 113 91 112 127 171 166 137	-2 -3 19 11 5 30 12 1 11 29 -60 3 15 -2 38 2 13 -9 12 27 71 66 37	-571 -1,087 4,505 3,567 1,910 12,884 4,197 244 2,982 6,610 -11,363 813 3,827 -717 11,463 819 4,292 -2,433 3,860 9,291 21,627 22,867 12,457	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346 8,960	North of Do	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346 8,960	1,948 -1,466 9,821 -3,128 4,324 -8,701 6,904 -9,649	94 95 93 96 97 112 111 118 116
	. N/A	R-44 R-45 R-46 R-47 R-48 R-49 T-50 R-51 R-52 R-53 T-54 U-55 R-56 T-57 R-58A R-58 R-60 R-61 T-62 R-63 R-64 T-65 R-66 R-67 R-68 T-69 R-70	1,078 1,040 953 1,000 1,077 1,208 1,108 967 1,060 729 517 790 1,033 1,081 1,049 1,015 967 854 804 813 805 810 805 800	-3,379 -3,262 -2,989 -3,136 -3,376 -3,787 -3,473 -3,032 -3,322 -2,286 -2,248 -3,433 -4,491 -4,700 -4,559 -4,410 -4,204 -3,713 -3,495 -3,533 -3,497 -3,521 -3,498 -3,479	84 82 104 96 90 115 97 86 96 114 121 153 167 40 103 115 98 138 102 113 91 112 127 171 166 137 133	-2 -3 19 11 5 30 12 1 11 29 -60 3 15 -2 38 2 13 -9 12 27 71 66 37 33	-571 -1,087 4,505 3,567 1,910 12,884 4,197 244 2,982 6,610 -11,363 813 3,827 -717 11,463 819 4,292 -2,433 3,860 9,291 21,627 22,867 12,457 10,824	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346 8,960 7,345	North of Do	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346 8,960 7,345	1,948 -1,466 9,821 -3,128 4,324 -8,701	94 95 93 96 97 112 111 118 116
	. N/A	R-44 R-45 R-46 R-47 R-48 R-49 T-50 R-51 R-52 R-53 T-54 U-55 R-56 T-57 R-58A R-58 R-60 R-61 T-62 R-63 R-64 T-65 R-66 R-67 R-68 T-69 R-70 R-71	1,078 1,040 953 1,000 1,077 1,208 1,108 967 1,060 729 517 790 1,033 1,081 1,049 1,015 967 854 804 813 805 800 803	-3,379 -3,262 -2,989 -3,136 -3,376 -3,787 -3,473 -3,032 -3,322 -2,286 -2,248 -3,433 -4,491 -4,700 -4,559 -4,410 -4,204 -3,713 -3,495 -3,533 -3,497 -3,521 -3,498 -3,479 -3,491	84 82 104 96 90 115 97 86 96 114 121 153 167 40 103 115 98 138 102 113 91 112 127 171 166 137 133 139	-2 -3 19 11 5 30 12 1 11 29 -60 3 15 -2 38 2 13 -9 12 27 71 66 37 33 39	-571 -1,087 4,505 3,567 1,910 12,884 4,197 244 2,982 6,610 -11,363 813 3,827 -717 11,463 819 4,292 -2,433 3,860 9,291 21,627 22,867 12,457 10,824 13,933	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346 8,960 7,345 10,442	North of Do	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346 8,960 7,345 10,442	1,948 -1,466 9,821 -3,128 4,324 -8,701 6,904 -9,649	94 95 93 96 97 112 111 118 116
	. N/A	R-44 R-45 R-46 R-47 R-48 R-49 T-50 R-51 R-52 R-53 T-54 U-55 R-56 T-57 R-58A R-58 R-60 R-61 T-62 R-63 R-64 T-65 R-66 R-67 R-68 T-69 R-70 R-71 R-72	1,078 1,040 953 1,000 1,077 1,208 1,108 967 1,060 729 517 790 1,033 1,081 1,049 1,015 967 854 804 813 805 800 803 808	-3,379 -3,262 -2,989 -3,136 -3,376 -3,787 -3,473 -3,032 -3,322 -2,286 -2,248 -3,433 -4,491 -4,700 -4,559 -4,410 -4,204 -3,713 -3,495 -3,533 -3,497 -3,521 -3,498 -3,479 -3,491 -3,510	84 82 104 96 90 115 97 86 96 114 121 153 167 40 103 115 98 138 102 113 91 112 127 171 166 137 133 139 170	-2 -3 19 11 5 30 12 1 11 29 -60 3 15 -2 38 2 13 -9 12 27 71 66 37 33 39 70	-571 -1,087 4,505 3,567 1,910 12,884 4,197 244 2,982 6,610 -11,363 813 3,827 -717 11,463 819 4,292 -2,433 3,860 9,291 21,627 22,867 12,457 10,824 13,933 25,349	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346 8,960 7,345 10,442 21,838	North of Do	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346 8,960 7,345 10,442 21,838	1,948 -1,466 9,821 -3,128 4,324 -8,701 6,904 -9,649	94 95 93 96 97 112 111 118 116
	. N/A	R-44 R-45 R-46 R-47 R-48 R-49 T-50 R-51 R-52 R-53 T-54 U-55 R-56 T-57 R-58A R-58 R-59 R-60 R-61 T-62 R-63 R-64 T-65 R-66 R-67 R-68 T-69 R-70 R-71 R-72 R-73	1,078 1,040 953 1,000 1,077 1,208 1,108 967 1,060 729 517 790 1,033 1,081 1,049 1,015 967 854 804 813 805 800 803 808 814	-3,379 -3,262 -2,989 -3,136 -3,376 -3,787 -3,473 -3,032 -3,322 -2,286 -2,248 -3,433 -4,491 -4,700 -4,559 -4,410 -4,204 -3,713 -3,495 -3,533 -3,497 -3,521 -3,498 -3,479 -3,491 -3,510 -3,537	84 82 104 96 90 115 97 86 96 114 121 153 167 40 103 115 98 138 102 113 91 112 127 171 166 137 133 139 170 178	-2 -3 19 11 5 30 12 1 11 29 -60 3 15 -2 38 2 13 -9 12 27 71 66 37 33 39 70 78	-571 -1,087 4,505 3,567 1,910 12,884 4,197 244 2,982 6,610 -11,363 813 3,827 -717 11,463 819 4,292 -2,433 3,860 9,291 21,627 22,867 12,457 10,824 13,933 25,349 27,381	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346 8,960 7,345 10,442 21,838 23,844	Sul	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346 8,960 7,345 10,442 21,838 23,844	1,948 -1,466 9,821 -3,128 4,324 -8,701 6,904 -9,649	94 95 93 96 97 112 111 118 116
Naples Beach	. N/A	R-44 R-45 R-46 R-47 R-48 R-49 T-50 R-51 R-52 R-53 T-54 U-55 R-56 T-57 R-58A R-58 R-59 R-60 R-61 T-62 R-63 R-64 T-65 R-66 R-67 R-68 T-69 R-70 R-71 R-72 R-73 R-74	1,078 1,040 953 1,000 1,077 1,208 1,108 967 1,060 729 517 790 1,033 1,081 1,049 1,015 967 854 804 813 805 810 805 800 803 808 814 803	-3,379 -3,262 -2,989 -3,136 -3,376 -3,787 -3,473 -3,032 -3,322 -2,286 -2,248 -3,433 -4,491 -4,700 -4,559 -4,410 -4,204 -3,713 -3,495 -3,533 -3,497 -3,521 -3,498 -3,479 -3,491 -3,510 -3,537 -3,490	84 82 104 96 90 115 97 86 96 114 121 153 167 40 103 115 98 138 102 113 91 112 127 171 166 137 133 139 170 178 187	-2 -3 19 11 5 30 12 1 11 29 -60 3 15 -2 38 2 13 -9 12 27 71 66 37 33 39 70 78 87	-571 -1,087 4,505 3,567 1,910 12,884 4,197 244 2,982 6,610 -11,363 813 3,827 -717 11,463 819 4,292 -2,433 3,860 9,291 21,627 22,867 12,457 10,824 13,933 25,349 27,381 29,526	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346 8,960 7,345 10,442 21,838 23,844 26,037	North of Do	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346 8,960 7,345 10,442 21,838 23,844 26,037	1,948 -1,466 9,821 -3,128 4,324 -8,701 6,904 -9,649	94 95 93 96 97 112 111 118 116 113 113
	. N/A	R-44 R-45 R-46 R-47 R-48 R-49 T-50 R-51 R-52 R-53 T-54 U-55 R-56 T-57 R-58A R-58 R-59 R-60 R-61 T-62 R-63 R-64 T-65 R-66 R-67 R-68 T-69 R-70 R-71 R-72 R-73 R-74 R-75	1,078 1,040 953 1,000 1,077 1,208 1,108 967 1,060 729 517 790 1,033 1,081 1,049 1,015 967 854 804 813 805 810 805 800 803 808 814 803 795	-3,379 -3,262 -2,989 -3,136 -3,376 -3,787 -3,473 -3,032 -3,322 -2,286 -2,248 -3,433 -4,491 -4,700 -4,559 -4,410 -4,204 -3,713 -3,495 -3,533 -3,497 -3,521 -3,498 -3,479 -3,491 -3,510 -3,537 -3,490 -3,456	84 82 104 96 90 115 97 86 96 114 121 153 167 40 103 115 98 138 102 113 91 112 127 171 166 137 133 139 170 178 187 115	-2 -3 19 11 5 30 12 1 11 29 -60 3 15 -2 38 2 13 -9 12 27 71 66 37 33 39 70 78	-571 -1,087 4,505 3,567 1,910 12,884 4,197 244 2,982 6,610 -11,363 813 3,827 -717 11,463 819 4,292 -2,433 3,860 9,291 21,627 22,867 12,457 10,824 13,933 25,349 27,381 29,526 2,118	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346 8,960 7,345 10,442 21,838 23,844 26,037 -1,339	North of Do	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346 8,960 7,345 10,442 21,838 23,844 26,037 -1,339	1,948 -1,466 9,821 -3,128 4,324 -8,701 6,904 -9,649	94 95 93 96 97 112 111 118 116 113 113 113
Naples Beach	. N/A	R-44 R-45 R-46 R-47 R-48 R-49 T-50 R-51 R-52 R-53 T-54 U-55 R-56 T-57 R-58A R-58 R-59 R-60 R-61 T-62 R-63 R-64 T-65 R-66 R-67 R-68 T-69 R-70 R-71 R-72 R-73 R-74	1,078 1,040 953 1,000 1,077 1,208 1,108 967 1,060 729 517 790 1,033 1,081 1,049 1,015 967 854 804 813 805 810 805 800 803 808 814 803	-3,379 -3,262 -2,989 -3,136 -3,376 -3,787 -3,473 -3,032 -3,322 -2,286 -2,248 -3,433 -4,491 -4,700 -4,559 -4,410 -4,204 -3,713 -3,495 -3,533 -3,497 -3,521 -3,498 -3,479 -3,491 -3,510 -3,537 -3,490	84 82 104 96 90 115 97 86 96 114 121 153 167 40 103 115 98 138 102 113 91 112 127 171 166 137 133 139 170 178 187	-2 -3 19 11 5 30 12 1 11 29 -60 3 15 -2 38 2 13 -9 12 27 71 66 37 33 39 70 78 87 15	-571 -1,087 4,505 3,567 1,910 12,884 4,197 244 2,982 6,610 -11,363 813 3,827 -717 11,463 819 4,292 -2,433 3,860 9,291 21,627 22,867 12,457 10,824 13,933 25,349 27,381 29,526	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346 8,960 7,345 10,442 21,838 23,844 26,037	North of Do	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346 8,960 7,345 10,442 21,838 23,844 26,037	1,948 -1,466 9,821 -3,128 4,324 -8,701 6,904 -9,649	94 95 93 96 97 112 111 118 116 113 113
	. N/A	R-44 R-45 R-46 R-47 R-48 R-49 T-50 R-51 R-52 R-53 T-54 U-55 R-56 T-57 R-58A R-58 R-60 R-61 T-62 R-63 R-64 T-65 R-66 R-67 R-68 T-69 R-70 R-71 R-72 R-73 R-74 R-75 R-76	1,078 1,040 953 1,000 1,077 1,208 1,108 967 1,060 729 517 790 1,033 1,081 1,049 1,015 967 854 804 813 805 810 805 800 803 808 814 803 795 799	-3,379 -3,262 -2,989 -3,136 -3,376 -3,787 -3,473 -3,032 -3,322 -2,286 -2,248 -3,433 -4,491 -4,700 -4,559 -4,410 -4,204 -3,713 -3,495 -3,533 -3,497 -3,521 -3,498 -3,479 -3,491 -3,510 -3,537 -3,490 -3,456 -3,475	84 82 104 96 90 115 97 86 96 114 121 153 167 40 103 115 98 138 102 113 91 112 127 171 166 137 133 139 170 178 187 115 1115	-2 -3 19 11 5 30 12 1 11 29 -60 3 15 -2 38 2 13 -9 12 27 71 66 37 33 39 70 78 87 15 11	-571 -1,087 4,505 3,567 1,910 12,884 4,197 244 2,982 6,610 -11,363 813 3,827 -717 11,463 819 4,292 -2,433 3,860 9,291 21,627 22,867 12,457 10,824 13,933 25,349 27,381 29,526 2,118 2,268	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346 8,960 7,345 10,442 21,838 23,844 26,037 -1,339 -1,207	North of Do	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346 8,960 7,345 10,442 21,838 23,844 26,037 -1,339 -1,207	1,948 -1,466 9,821 -3,128 4,324 -8,701 6,904 -9,649 142,063	94 95 93 96 97 112 111 118 116 113 113 113
	. N/A	R-44 R-45 R-46 R-47 R-48 R-49 T-50 R-51 R-52 R-53 T-54 U-55 R-56 T-57 R-58A R-58 R-60 R-61 T-62 R-63 R-64 T-65 R-66 R-67 R-68 T-69 R-70 R-71 R-72 R-73 R-74 R-75 R-76 R-77	1,078 1,040 953 1,000 1,077 1,208 1,108 967 1,060 729 517 790 1,033 1,081 1,049 1,015 967 854 804 813 805 810 805 800 803 808 814 803 795 799 782	-3,379 -3,262 -2,989 -3,136 -3,376 -3,787 -3,473 -3,032 -3,322 -2,286 -2,248 -3,433 -4,491 -4,700 -4,559 -4,410 -4,204 -3,713 -3,495 -3,533 -3,497 -3,521 -3,498 -3,479 -3,491 -3,510 -3,537 -3,490 -3,456 -3,475 -3,399	84 82 104 96 90 115 97 86 96 114 121 153 167 40 103 115 98 138 102 113 91 112 127 171 166 137 133 139 170 178 187 115 111 119	-2 -3 19 11 5 30 12 1 11 29 -60 3 15 -2 38 2 13 -9 12 27 71 66 37 33 39 70 78 87 15 11 19	-571 -1,087 4,505 3,567 1,910 12,884 4,197 244 2,982 6,610 -11,363 813 3,827 -717 11,463 819 4,292 -2,433 3,860 9,291 21,627 22,867 12,457 10,824 13,933 25,349 27,381 29,526 2,118 2,268 4,099	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346 8,960 7,345 10,442 21,838 23,844 26,037 -1,339 -1,207 699	North of Do	-3,950 -4,348 1,516 431 -1,466 9,097 724 -2,788 -340 4,324 -13,611 -2,620 -664 -5,417 6,904 -3,591 88 -6,146 365 5,758 18,129 19,346 8,960 7,345 10,442 21,838 23,844 26,037 -1,339 -1,207 699	1,948 -1,466 9,821 -3,128 4,324 -8,701 6,904 -9,649 142,063	94 95 93 96 97 112 111 118 116 113 113 113