COASTAL PLANNING & ENGINEERING OF NORTH CAROLINA, INC.

4038 MASONBORO LOOP ROAD, WILMINGTON, NC 28409 910-791-9494 PHONE 910-791-4129 FAX

May 31, 2017

Robert L. Outten
Dare County
954 Marshall C Collins Dr. Room 286
Manteo, NC 27954

Re: Dare County Beach Nourishment Project
Recommendation for Payment of Invoice 001 (May 31, 2017)
Great Lakes Dredge and Dock (GLDD)

Dear Mr. Outten:

Attached is GLDD's invoice for work performed through May 24, 2017. **We recommend payment in the amount of $5,019,553.00.** The line items contained in the invoice are discussed below.

Item # I.A: Mobilization & Demobilization

GLDD has commenced dredging and requested payment for mobilization. GLDD has met the specification GC-10.2 requiring placement of at least 10,000 cubic yards of material within the beach fill template in twenty-four (24) hours and is therefore eligible for payment of 60% of the lump sum price. Therefore, we recommend payment in the requested amount of $4,890,000 less 5% retainage.

Item # I.B: Performance and Payment Bond

GLDD has mobilized to the project site and commenced dredging and requested payment for the performance and payment bond. GLDD has met the specification GC-11 stating that upon completion of the criteria for mobilization specified in GC-10, payment shall be made equal to 100%. Therefore, we recommend payment in the requested amount of $300,000 less 5% retainage.

Item # I.C: Compliance Surveys of the Borrow Area

GLDD has conducted pre-construction compliance surveys of the borrow areas and submitted the surveys to the Engineer. GLDD has met the specifications of GC-12 and is therefore eligible for payment of 50% of the lump sum price. Therefore, we recommend payment in the requested amount of $32,000 less 5% retainage.

Item # II.B: Staging Area Beach Access Mats

GLDD has installed Staging Area Beach Mats along those portions of the staging area agreed to by GLDD and the USACE Field Research Facility. GLDD has submitted a survey of the centerline of

the Staging Area Beach Access Mats, which has been verified by the Engineer. GLDD has met the specifications of GC-15 and is therefore eligible for payment of 80% of the linear footage price. Therefore, payment for 80% of the 735 linear footage of installed beach access mats is eligible for payment, we recommend payment in the requested amount of $61,740 less 5% retainage.

Retainage

The contract specifies a 5% retainage on all payments. The cost of the work performed during this pay period is $5,283,740.00. The retainage for this invoice is $264,187.00.

Payment Summary

Item No.	Item	Unit	Quantity	Unit Prices	CO#1 Cost	Invoice #1 Quantity	Invoice #1 Total
I. A.	Mobilization/Demobilization	L.S.	1	$8,150,000.00	$8,150,000.00	60.0%	$4,890,000.00
I. B.	Performance and Payment Bond	L.S.	1	$300,000.00	$300,000.00	1	$300,000.00
I. C.	Compliance Surveys of Borrow Area	L.S.	1	$64,000.00	$64,000.00	50.0%	$32,000.00
I. D.	Sea Turtle Abundance Trawling	Days	0	$4,600.00	$0.00	0	$0.00
II. A.	Hydraulic Beach Fill (Town of Duck)	C.Y.	1,180,000	$8.60	$10,148,000.00	0	$0.00
II. A-1.	Optional Additional 20% Beach Fill if only Borrow Area C is used to Construct the Town of Duck	C.Y.	236,000	$0.00	$0.00	0	$0.00
II. B.	Staging Area Beach Access Mats	L.F.	1,120	$105.00	$117,600.00	588	$61,740.00
III. A.	Hydraulic Beach Fill (Town of Kitty Hawk)	C.Y.	1,765,000	$7.65	$13,502,250.00	0	$0.00
IV. A.	Hydraulic Beach Fill (Town of Kill Devil Hills)	C.Y.	840,000	$7.40	$6,216,000.00	0	$0.00
	Additive Items						
V. A.	Sand Fencing (Kitty Hawk)	10 Ft Sections	1,900	$40.00	$76,000.00	0	$0.00
	Discretionary Items						
VI. A.	Mobilization/Demobilization for Beach Discharge Screening	L.S.	0	$70,000.00	$0.00	0	$0.00
VI. B.	Beach Discharge Screening	Days	0	$3,500.00	$0.00	0	$0.00
VI. C.	Removal of Screened Beach Discharge Material	C.Y.	0	$11.55	$0.00	0	$0.00
VI. D.	Dredge Intake Screening	C.Y.	0	$2.30	$0.00	0	$0.00
VI. E.	Mobilization for Removal of Oversized Material from Constructed Beach	L.S.	0	$8,000.00	$0.00	0	$0.00
VI. F.	Removal of Oversized Material from Constructed Beach	Days	0	$3,200.00	$0.00	0	$0.00
VII. A.	Turbidity Monitoring	Days	0	$2,250.00	$0.00	0	$0.00
VII. B.	Mobilization/Demobilization for Tilling	L.S.	0	$5,500.00	$0.00	0	$0.00
VII. C.	Beach Tilling	Acre	0	$585.00	$0.00	0	$0.00

VII. D.	Sea Turtle Relocation Trawling	Days	180	$4,550.00	$819,000.00	0	$0.00
VII. E.	Hopper Dredge Standby Rate (Per Dredge)	Days	0	$210,000.00	$0.00	0	$0.00
VII. F.	Cutterhead Dredge Standby Rate (Per Dredge)	Days	0	$177,500.00	$0.00	0	$0.00
VIII. A.	Sand Fencing (Kill Devil Hills)	10 Ft Sections	0	$40.00	$0.00	0	$0.00
VIII. B.	Sand Fencing (Duck)	10 Ft Sections	0	$40.00	$0.00	0	$0.00
					Total Earned To Date:		**$5,283,740.00**
					Retainage (5%):		**$264,187.00**
					Earnings Minus Retainage:		**$5,019,553.00**
					Previous Paid:		**$0.00**
					Earnings This Period:		**$5,283,740.00**
					Retainage This Period:		**$264,187.00**
					Amount Due This Invoice:		**$5,019,553.00**

Note Quantities and Unit Price represent values established in CO #1.

The following table provides a breakdown of costs incurred for each Town's project based on Invoice 001. Items I.A through I.D are being paid for at a pro-rated basis by the Towns of Duck, Kitty Hawk and Kill Devil Hills with respect to the percent of the initial contract volume being placed in each Town. These pro-rated percentages are Town of Duck – 31.2%, Town of Kitty Hawk – 46.6%, and Town of Kill Devil Hills – 22.2%. The Town of Southern Shores has a separate mobilization and demobilization fee for which it will pay 100% of the cost.

Town	Item	Invoice #1 Total
Duck	Items I.A. - I.D.	$1,629,264.00
	Staging Areas Beach Access Mats	$61,740.00
	Hydraulic Beach Fill	$0.00
	SUB TOTAL:	$1,691,004.00
	RETAINAGE (5%)	$84,550.20
	TOTAL DUE:	**$1,606,453.80**
Southern Shores	Items I.A. - I.D.	$0.00
	Hydraulic Beach Fill	$0.00
	SUB TOTAL:	$0.00
	RETAINAGE (5%)	$0.00
	TOTAL DUE:	**$0.00**
Kitty Hawk	Items I.A. - I.D.	$2,433,452.00
	Hydraulic Beach Fill	$0.00
	Sand Fencing	$0.00
	SUB TOTAL:	$2,433,452.00
	RETAINAGE (5%)	$121,672.60
	TOTAL DUE:	**$2,311,779.40**

Kill Devil Hills	Items I.A. - I.D.	$1,159,284.00
	Hydraulic Beach Fill	$0.00
	SUB TOTAL:	$1,159,284.00
	RETAINAGE (5%)	$57,964.20
	TOTAL DUE:	**$1,101,319.80**
	Earnings This Period:	**$5,283,740.00**
	Retainage This Period:	**$264,187.00**
	Amount Due This Invoice:	**$5,019,553.00**

Please call me if you have any questions.

Sincerely,

COASTAL PLANNING & ENGINEERING, INC.

Julien Devisse, P.E.
Project Manager

cc: Ken Willson, CPE-NC
Chris Layton, Town of Duck
Peter Rascoe, Town of Southern Shores
Andy Stewart, Town of Kitty Hawk
Debbie Diaz, Town of Kill Devil Hills

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