

TOWN OF NAGS HEAD
FY 19/20 DRAINAGE INFRASTRUCTURE IMPROVEMENTS PHASE 5

BID FORM

TIP No:

DATE:

1/21/2020

COUNTY: DARE

DESCRIPTION: Installation of french drain and stormwater pump system

LINE ITEM	SECT.	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT BID
1	800	Mobilization	1	LS	62,000. ⁰⁰	62,000.00
2	1605	Temporary Silt Fence	5220	LF	3.80	19,836.00
3	1607	Stone for Erosion Control - Class A	75	TON	46.00	3,450.00
4	1607	Geotextile for Drainage	65	SY	2.85	185.25
5	SP	Concrete Washout Structure	2	EA	2,200. ⁰⁰	4,400.00
6	SP	Temporary Traffic Control	1	LS	2,100. ⁰⁰	2,100.00
7	226	Lump Sum Grading	1	LS	22,700. ⁰⁰ #B	22,700.00
8	SP	Removal of Existing Pavement (Driveways and Multi Use Path)	3780	SY	9.58	36,212.40
9	SP	Perforated 24" HDPE Drainage Pipe	4262	LF	50.00	213,100.00
10	310	24" Solid Wall HDPE Drainage Pipe	38	LF	68.25	2,593.50
11	SP	Mesh Screen	8914	SY	2.00	17,828.00
12	SP	Washed #57 Stone	1860	TON	45.00	83,700.00
13	840	Masonry/Precast Drainage Structure - Drop Inlet	41	EA	2,360. ⁰⁰	96,760.00
14	840	Masonry/Precast Drainage Structure - Junction Box	1	EA	3,700. ⁰⁰	3,700.00
15	840	Frame and Grate Std 840.16	41	EA	515.00	21,115.00
16	SP	Project Area 12 Pump Station	1	LS	37,000. ⁰⁰	37,000.00
17	SP	Project Area 13 Pump Station	1	LS	158,000. ⁰⁰	158,000.00
18	SP	6" HDPE Force Main & Fittings (Restrained Joint)	106	LF	169.00	17,914.00
19	SP	6" HDPE Force Main & Fittings (Directional Drill)	1480	LF	50.00	74,000.00
20	SP	6" HDPE Force Main & Fittings (In Infiltration Trench)	683	LF	40.00	27,320.00
21	1515	6" MJ Gate Valve	4	EA	1,565.00	6,260.00
22	1515	4" MJ Gate Valve	4	EA	1,390.00	5,560.00
23	1540	14" O.D. Steel Encasement Pipe	50	LF	553.00	27,650.00
24	SP	Quick Connect for Portable Pump	3	EA	5,500	16,500.00
25	848	6" Concrete Driveway	1650	SY	72.70	119,955.00
26	710	4" Portland Cement Concrete Pavement, Miscellaneous (no dowels)	1945	SY	50.00	97,250.00
27	654	Asphalt Plant Mix, Driveway Repair	168	SY	70.00	11,760.00
28	545	Incidental Stone Base	519	TON	48.00	24,912.00
29	SP	Erection of Signs & Mailboxes	34	EA	125.00	4,250.00

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BID FORM

TIP No:

DATE: 1/21/2020

COUNTY: DARE

DESCRIPTION: Installation of french drain and stormwater pump system

LINE ITEM	SECT.	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT BID
30	SP	Seeding and Mulching	9400	SY	0.72	6,768.00
31	1510	12" DIP Water Main	78	LF	154.00	12,012.00
32	1510	Ductile Iron Water Pipe Fittings	2050	LB	12.90	26,445
			TOTAL AMOUNT BID			1,263,236.15

*one million two hundred
 sixty-three thousand
 two hundred thirty-six
 and 15/100 dollars*



WithersRavenel

Our People, Your Success.

February 12, 2020

David Ryan
Town Engineer
Town of Nags Head
PO Box 99
Nags Head, NC 27959

RE: FY 19/20 Drainage Improvements, Phase 5

Dear Mr. Ryan

WithersRavenel has reviewed the materials you provided following the bid opening on January 30, 2020 and has discusses reasonable modifications to the project with Barnhill Contracting, the selected low bidder. WithersRavenel believes that the materials, including the revised bid tabulation, show general conformance with the plans and specifications as outlined in the Project Manual, Addendum #2, and are consistent with previously discussed modifications to the project limits.

Sincerely,
WithersRavenel

Hunter Freeman
Project Manager

Attachment D - Phase V Value Engineering Matrix

Modification #	Description	Add / Delete / Modify	Line Item #	Line Item Name	Change in Quantity	Unit Price	Change in \$\$	Sub-Total	Notes
1	Mobilization	Modify	1	Mobilization	0	-\$1,500.00	-\$1,500.00	-\$1,500.00	Reduction in bond cost reflected here
2	Selected Silt Fence Areas	Modify	2	Silt Fence	-4220	\$3.80	-\$16,036.00	-\$16,036.00	Estimated, to be confirmed by David @ walk through
3	Adjust Length of Project Area 12	Modify	3	Stone for Erosion Control - Class A	-7	\$46.00	-\$322.00	-\$79,636.90	
		Modify	7	Lump Sum Grading	\$0.00	-\$1,000.00	-\$1,000.00		
		Modify	8	Removal of Existing Pavement	-505	\$9.58	-\$4,837.90		
		Delete	9	Perforated 24" HDPE	-2016	\$50.00	-\$100,800.00		
		Add	9	Perforated 24" HDPE with Sock	1370	\$52.45	\$71,856.50		
		Modify	13	Masonry / Precast Drainage Structure - Drop Inlet	-5	\$2,360.00	-\$11,800.00		
		Modify	15	Frame & Grate Std 840.16	-5	\$515.00	-\$2,575.00		
		Modify	25	6" Concrete Driveway	-175	\$72.70	-\$12,722.50		
		Modify	26	4" Portland Cement Concrete Pavement (no dowels)	-330	\$50.00	-\$16,500.00		
		Modify	28	Incidental Stone Base	-6	\$48.00	-\$288.00		
Modify	30	Seeding and Mulching	-900	\$0.72	-\$648.00				
4	Adjust Length of Project Area 13	Modify	3	Stone for Erosion Control - Class A	-17	\$46.00	-\$782.00	-\$88,793.57	
		Modify	7	Lump Sum Grading	0	-\$1,200.00	-\$1,200.00		
		Modify	8	Removal of Existing Pavement	-319	\$9.58	-\$3,056.02		
		Delete	9	Perforated 24" HDPE	-2246	\$50.00	-\$112,300.00		
		Add	9	Perforated 18" HDPE with Sock	1641	\$45.95	\$75,403.95		
		Delete	10	24" Solid Wall HDPE	-20	\$68.25	-\$1,365.00		
		Modify	13	Masonry / Precast Drainage Structure - Drop Inlet	-9	\$2,360.00	-\$21,240.00		
		Modify	15	Frame & Grate Std 840.16	-9	\$515.00	-\$4,635.00		
		Modify	19	6" HDPE Forcemain & Fittings (Directional Drill)	395	\$50.00	\$19,750.00		
		Modify	20	6" HDPE Forcemain & Fittings (In Infiltration Trench)	-395	\$40.00	-\$15,800.00		
		Modify	25	6" Concrete Driveway	-275	\$72.70	-\$19,992.50		
		Modify	26	4" Portland Cement Concrete Pavement (no dowels)	-44	\$50.00	-\$2,200.00		
		Modify	27	asphalt mix driveway repair	-20	\$70.00	-\$1,400.00		
		Modify	28	Incidental Stone Base	-7	\$48.00	-\$336.00		
Modify	30	Seeding and Mulching	-750	\$0.72	-\$540.00				
Add	33	18" Solid Wall HDPE	20	\$44.95	\$899.00				
5	Remove Project Area #12 Wet Well & Associated Work	Delete	10	24" Solid Wall HDPE	-18	\$68.25	-\$1,228.50	-\$83,954.00	No new inlet needed, DI @ STA 19+70 will be moved, JB can be deleted.
		Modify	13	Masonry / Precast Drainage Structure - Drop Inlet	0	\$2,360.00	\$0.00		
		Delete	14	Concrete Junction Box	-1	\$3,700.00	-\$3,700.00		
		Modify	15	Frame & Grate Std 840.16	0	\$515.00	\$0.00		
		Delete	16	Project Area #12 Pump Station	-1	\$37,000.00	-\$37,000.00		
		Add	18	6" HDPE Forcemain & Fittings (Restrained Joint)	4	\$169.00	\$676.00		
		Modify	20	6" HDPE Forcemain & Fittings (In Infiltration Trench)	-288	\$40.00	-\$11,520.00		
		Modify	21	6" MJ Gate Valve	-1	\$1,565.00	-\$1,565.00		
		Modify	22	4" MJ Gate Valve	-1	\$1,390.00	-\$1,390.00		
		Modify	24	Quick Connect for Portable Pump	-2	\$5,500.00	-\$11,000.00		
		Modify	31	12" DIP Water Main	-26	\$154.00	-\$4,004.00		
		Modify	32	Ductile Iron Pipe Fittings	-1025	\$12.90	-\$13,222.50		
		6	Driveway Profile to Follow Swale X-Section	Modify	28	Incidental Stone Base	-300		
7	Additional Reduction in # of Inlets	Modify	13	Masonry / Precast Drainage Structure - Drop Inlet	-14	\$2,360.00	-\$33,040.00	-\$40,250.00	In addition to reductions from items #2 and #3, locations TBD
		Modify	15	Frame & Grate Std 840.16	-14	\$515.00	-\$7,210.00		
8	Modifications to Project Area #13 Wet Well	Modify	17	Project Area 13 Pump Station	0	-\$36,400.00	-\$36,400.00	-\$36,400.00	Reduce Depth to 8.5', reduce diameter to 6', delete area light, delete extra pump, delete davit crane, revise panel
9	Path Preservation	Modify	26	4" Portland Cement Concrete Pavement (no dowels)	-571	\$50.00	-\$28,550.00	-\$28,550.00	Estimated by Ricky Brake
10	Path Preservaton	Modify	8	Removal of Existing Pavement	-588	\$9.58	-\$5,633.04	-\$5,633.04	
11	Modified DI Price for 24" x 36"	Modify	13	Masonry / Precast Drainage Structure - Drop Inlet	13	-\$184.00	-\$2,392.00	-\$2,392.00	Per email from Ricky Brake
12	Replace 24" HDPE with Sock Pipe (associated edits)	Delete	11	Mesh Screen	-8914	\$2.00	-\$17,828.00	-\$101,528.00	
		Delete	12	Washed Stone	-1860	\$45.00	-\$83,700.00		
13	Reduction in Sign Repair	Modify	29	Erection of Signs & Mailboxes	-16	\$125.00	-\$2,000.00	-\$2,000.00	
14	Remove Concrete Washout	Delete	5	Concrete Washout	-1	\$2,200.00	-\$2,200.00	-\$2,200.00	

Original Bid:	\$1,263,236.15	Projected Cost Reduction:	-\$503,273.51
		New Estimated Base Bid:	<u>\$759,962.64</u>
		Contingency	<u>\$40,037.36</u>
		New Estimated Project Cost:	\$800,000.00

Attachment E- Barnhill Contracting Modified Bid

**TOWN OF NAGS HEAD
FY 19/20 DRAINAGE INFRASTRUCTURE IMPROVEMENTS PHASE 5**

**BID FORM
REVISED PER DISCUSSION WITH BARNHILL**

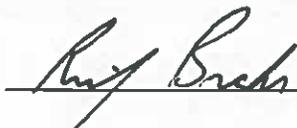
DATE: 2/12/2020

COUNTY: DARE

DESCRIPTION: Installation of french drain and stormwater pump system

LINE ITEM	SECT.	DESCRIPTION	QTY	UNIT	Barnhill Contracting	
					UNIT PRICE	EXTENSION
1	800	Mobilization	1	LS	\$60,500.00	\$60,500.00
2	1605	Temporary Silt Fence	1000	LF	\$3.80	\$3,800.00
3	1607	Stone for Erosion Control - Class A	51	TON	\$46.00	\$2,346.00
4	1607	Geotextile for Drainage	65	SY	\$2.85	\$185.25
5	5P	Concrete Washout Structure	1	EA	\$2,200.00	\$2,200.00
6	5P	Temporary Traffic Control	1	LS	\$2,100.00	\$2,100.00
7	226	Lump Sum Grading	1	LS	\$20,500.00	\$20,500.00
8	5P	Removal of Existing Pavement (Driveways and Multiuse Path)	2368	SY	\$9.58	\$22,685.44
9	5P	Perforated 24" HDPE Drainage Pipe w/sock	1370	LF	\$52.45	\$71,856.50
10	310	Perforated 18" HDPE Drainage Pipe w/sock	1641	LF	\$45.95	\$75,403.95
11	5P	Mesh Screen	0	SY	\$2.00	\$0.00
12	5P	Washed #57 Stone	0	TON	\$45.00	\$0.00
13	840	Masonry Drainage Structure - Drop Inlet	13	EA	\$2,176.00	\$28,288.00
14	840	Masonry Drainage Structure - Junction Box	0	EA	\$3,700.00	\$0.00
15	840	Frame & Gate Std. 840.16	13	EA	\$515.00	\$6,695.00
16	5P	Project Area 12 Pump Station	0	LS	\$37,000.00	\$0.00
17	5P	Project Area 13 Pump Station	1	LS	\$121,600.00	\$121,600.00
18	5P	6" HDPE Force Main & Fittings (Restrained Joint)	110	LF	\$169.00	\$18,590.00
19	5P	6" HDPE Force Main & Fittings (Directional Drill)	1875	LF	\$50.00	\$93,750.00
20	5P	6" HDPE Force Main & Fittings (In Infiltration Trench)	0	LF	\$40.00	\$0.00
21	1515	6" MJ Gate Valve	3	EA	\$1,565.00	\$4,695.00
22	1515	4" MJ Gate Valve	3	EA	\$1,390.00	\$4,170.00
23	1540	14" O.D. Steel Encasement Pipe	50	LF	\$553.00	\$27,650.00
24	5P	Quick Connect for Portable Pump	1	EA	\$5,500.00	\$5,500.00
25	848	6" Concrete Driveway	1200	SY	\$72.70	\$87,240.00
26	710	4" Portland Cement Concrete Pavement	1000	SY	\$50.00	\$50,000.00
27	654	Asphalt Plant Mix, Driveway Repair	148	SY	\$70.00	\$10,360.00
28	545	Incidental Stone Base	206	TON	\$48.00	\$9,888.00
29	5P	Erection of Signs & Mailboxes	18	EA	\$125.00	\$2,250.00
30	5P	Seeding and Mulching	7750	SY	\$0.72	\$5,580.00
31	1510	12" DIP Water Main	52	LF	\$154.00	\$8,008.00
32	1510	Ductile Iron Water Pipe Fittings	1025	LB	\$12.90	\$13,222.50
33	1510	18" Solid Wall HDPE	20	LF	\$44.95	\$899.00
TOTAL AMOUNT BID						\$759,962.64

Signed: _____



Barnhill Contracting

C-510**Notice of Award**Date: February 18, 2020Project: FY 19-20 Drainage Infrastructure Improvement Projects, *Nags Head, Dare County, NC*Owner: *Town of Nags Head, North Carolina*

Owner's Contract No.: -

Contract: FY 19-20 Drainage Infrastructure Improvement Projects, *Nags Head, Dare County, NC*Engineer's Project No.: **N/A**Bidder: *Barnhill Contracting Company*Bidder's Address: *PO Box 1050, Kitty Hawk, NC 27949*

You are notified that your Bid dated 30 Jan 2020 for the above Contract has been considered. You are the successful lowest, responsive, responsible bidder and are awarded a Contract for the scope of work described in the Contract Documents for the Town of Nags Head Capital Improvement Project – FY 19-20 Drainage Infrastructure Improvement Projects.

- **Project Area #12:** *French drain installation on the east side of Old Oregon Inlet Road between James St. and Juncos St..*
- **Project Area #13:** *French drain installation, generally on the east side of Old Oregon Inlet Rd. between Hargrove St. to Harvest St., wet well and pump installation near Harvest Dr., with connecting force main discharging to a west side infiltration basin north of Fire Station 21.*

The Contract Price of your Contract is Seven-hundred fifty-nine thousand, nine hundred sixty-two dollars and sixty four cents (\$759,962.64).

3 copies of the proposed Contract Agreement (except Drawings) accompany this Notice of Award.

3 sets of the Drawings will be delivered separately or otherwise made available to you immediately.

You must comply with the following conditions precedent within [15] days of the date you receive this Notice of Award.

1. Deliver to the Owner (3) three fully executed counterparts of the Contract Documents.
2. Other conditions precedent: The contractor shall provide insurance certificates, 100% payment and performance bonds and Minority Business documents as required by the Instructions to Bidders, General Conditions and the Supplementary Conditions in the contract documents.
3. Execution of the Final Contract is contingent on the Town Board of Commissioners Approval, Owner's Legal Review, Financial Approval and issuance of State Permit approvals.

Failure to comply with these conditions within the time specified will entitle Owner to consider you in default, annul this Notice of Award, and declare your Bid security forfeited.

Within fifteen days after you comply with the above conditions, Owner will return to you one fully executed counterpart of the Contract Documents.

Town of Nags Head

Owner

By: _____

Authorized Signature

Town Manager

Title

Copy to Engineer