TOWN OF KILL DEVIL HILLS

Land Where Flight Began

MEMORANDUM November 9, 2020

TO: Mayor and Board of Commissioners

FROM: Debora P. Diáz, Town Manager

REF: New Business

1. Recommendations for Bid Acceptance for 2020-2021 Street, Drainage, and Right-Of-Way Improvements Projects (Attached NB-1)

Plans, specifications, and authorization to bid the 2020-2021 street, drainage, and right-of-way improvements project were approved by the Board of Commissioners at its February 12, 2020, meeting. The plan includes drainage, paving, and related work, split into two parts:

- Fall Project Group: Cedar Drive, Captains Lane, Teakwood Lane and Captains Circle
- Spring Project Group: East Helga Street, West Helga Street, Briggs Street, East Fourth Street, East Martin Street, and East Dean Street

Assistant Public Services Director Derek Dail's attached memorandum details the list of streets that will received improvements in the two projects.

Bids were received on October 22, 2020, and have been reviewed by Staff and the Town's Engineer, Pete Burkhimer, on behalf of American Engineering. Staff and Mr. Burkhimer recommend award of the contract for the entire project (Fall and Spring Groups) to the lowest responsible bidder, RPC, Contracting, Inc. The bid tabulation sheet is included with the packet materials for this item. A breakdown of associated costs for this project is as follows:

	Cost Summary			
2020/2021 Spring Project – Between the Highways	**Streets & Drainage**	**Sidewalk**	**Water**	**Total**
RPC Contracting, Inc. – Base Bid + Unit Price Items	$1,267,390.00		$78,080.00	$1,345,470.00
Alternates A & C Parking, St. Extension	$29,080.00			$29,080.00
Alternates B & D Parking, St. Extension		$43,620.00		43,620.00
Contingency (5%)	$64,823.50	$2,181.00		$67,004.50
Engineering	$56,000.00	$4,000.00	$6,000.00	$66,000.00
Grand Totals	$1,417,293.50	$49,801.00	$84,080.00	**$1,551,174.50**

Construction will begin in autumn, with substantial completion scheduled by May 21, 2021, for the Fall Project Group. Substantial completion for the Spring Project Group is scheduled for April 21, 2021.

Staff recommends the Board of Commissioners accept the bid from RPC Contracting, Inc., and authorize the 2020-2021 Street, Drainage, and Right-of-Way Improvement Project, base bid including unit price items, by:

- Approving the contract with RPC Contracting, Inc. for the 2020-2021 Street, Drainage, and Right-Of-Way Improvements Fall and Spring Projects in the amount of $1,418,170.00 (Base Bid + Alternates) and authorize execution by the Town Manager;
- Approving the engineering services agreement with American Engineering in the total amount of $66,000.00 for construction oversight services;
- Approving a 5% not-to-exceed contingency for the streets, drainage, and sidewalk portions of the project in the amount of $67,004.50;
- Authorizing expenditure of $760,000.00 from the Street Construction Capital Reserve Fund; $49,801.00 from the Sidewalks Capital Reserve Fund; $84,080 from the Water Fund; $218,000 from the Powell Bill Fund; $439,293.50 from the fund balance, for a total of $1,551,174.50.; and
- Approving budget amendment #5 to appropriate funds from the Sidewalk Construction Capital Reserve Fund, Street Construction Capital Reserve Fund, and unassigned fund balance for the 2020-2021 street, drainage, and right-of-way improvements fall and spring projects.

A motion will be in order.

TOWN OF KILL DEVIL HILLS
PUBLIC SERVICES

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L. RANDOLPH TURNER
Streets

LYNN E. LINDSEY
Solid Waste

November 9, 2020

Memorandum

To: Debora P. Diaz, Town Manager

From: Derek A. Dail, Assistant Public Services Director

Subject: **Recommendation for Bid Acceptance for 2020-2021 Street, Drainage and Right-Of-Way Improvements Projects**

At the February 12, 2020 meeting, the Board of Commissioners approved the design of the street, drainage and right-of-way improvements projects for fiscal year 2020-2021. The projects include paving, drainage, and related work for over 1.19 miles of town streets in two project groups as follows:

Fall Project Group *(approximately 0.67 miles)* - Improvements will include paving, drainage, water main, and related work:

- **Cedar Drive**: Work will include new drainage, roadway asphalt 3 inch overlay, some driveway work, and hydrant replacements from the Dogwood intersection west.
- **Captains Lane**: Work will include new drainage, roadway asphalt 3 inch overlay, some driveway work and hydrant replacement.
- **Teakwood Lane**: Work will include roadway asphalt 3 inch overlay, drainage work and hydrant replacement.
- **Captains Circle**: Work will include new drainage and roadway asphalt 3 inch overlay.

Spring Project Group *(approximately 0.52 miles)* - Improvements will include paving, drainage, water main, and related work:

- **E. Helga Street**: Work will include some drainage, roadway asphalt widening and 3 inch overlay, areas of concrete curbing and some driveway work.

- **W. Helga Street**: Work will include installation of a concrete sidewalk and associated drainage work from US158 to Susan Drive.
- **Briggs Street**: Work will include some drainage, roadway asphalt 3 inch overlay, and alternate work including improvements to connect to E. Helga and improved parking.
- **E. Fourth Street**: Work will include some drainage, roadway asphalt 3 inch overlay and some driveway work.
- **E. Martin Street**: Work will include drainage improvements, roadway asphalt 3 inch overlay, associated driveway work, curbing, hydrant replacements, and alternates for sidewalk and on street parking.
- **E. Dean Street**: Work will include some drainage, roadway asphalt 3 inch overlay, and associated concrete work.

On October 22, 2020 bids were received for these projects and reviewed by the Town's engineer, Pete Burkhimer and staff. Please find the attached recommendation of award from Mr. Burkhimer along with the bid tabulation for the project. Staff concurs with Mr. Burkhimer's recommendation that the low bidder, RPC Contracting, Inc. is awarded the contract for both the **Fall and Spring Projects**. A breakdown of the construction related costs is included below:

	Cost Summary			
2020/2021 Spring Project – Between the Highways	**Streets & Drainage**	**Sidewalk**	**Water**	**Total**
RPC Contracting, Inc. – Base Bid + Unit Price Items	$1,267,390.00		$78,080.00	$1,345,470.00
Alternates A & C Parking, St. Extension	$29,080.00			$29,080.00
Alternates B & D Parking, St. Extension		$43,620.00		43,620.00
Contingency (5%)	$64,823.50	$2,181.00		$67,004.50
Engineering	$56,000.00	$4,000.00	$6,000.00	$66,000.00
Grand Totals	$1,417,293.50	$49,801.00	$84,080.00	**$1,551,174.50**

If the Board of Commissioners agrees with these recommendations for the **Fall and Spring Projects**, a motion will be in order to:

- Approve the contract with RPC Contracting, Inc. for the 2020-2021 Street, Drainage, and Right-Of-Way Improvements Fall and Spring Projects in the amount of **$1,418,170.00** (Base Bid + Alternates) and authorize its execution by the Town Manager;
- Approve the engineering services agreement with American Engineering in the total amount of **$66,000.00** for construction oversight services;
- Approve a 5% not-to-exceed contingency for the streets, drainage and sidewalk portions of the project in the amount of **$67,004.50**; and
- Authorize expenditure of **$760,000.00** from the Street Capital Reserve Fund; **$49,801.00** will be from the Sidewalks Capital Reserve Fund; **$84,080** will be Water Fund related expenses; **$218,000** will be expended from the Powell Bill line; **$439,293.50** will be expended from the fund balance: for a total of **$1,551,174.50.**

AMERICAN Engineering

November 2, 2020

Mr. Steve Albright, Director of Public Services
Town of Kill Devil Hills
P. O. Box 1719
Kill Devil Hills, NC 27948

By e-mail

Subject: **V2006, ...07 – Kill Devil Hills 2020-21 Fall & Spring Bid Packages, RECOMMENDATION OF AWARD**

Dear Mr. Albright:

At 11:00 a.m. on Thursday, October 22, 2020, American Engineering, as Town Engineer, received and opened bids for the referenced project. This letter includes our tabulation and analysis of the bids received for the project, and our recommendation to you and to the Town.

To facilitate the use of this letter in discussions, we have numbered the remaining paragraphs.

1. Due to the size of the project, we followed formal bidding procedures. We had only two (2) prospective bidders attend the September 30, 2020 mandatory pre-bid meeting. So, we re-advertised the project in an effort to attract more bidders. We also scheduled a second pre-bid meeting, on October 8, for any additional bidders; but none attended. Thus, two prospective bidders met the requirement of having attended a mandatory pre-bid meeting: RPC Contracting, Inc. and Barnhill Contracting Company.

2. At the October 22, 2020 bid opening, two bids were received, one from each of the firms having attended the pre-bid meeting. Both bids appeared at the time to be in conformity with the requirements of the Contract documents in terms of format, bid bond, license number, etc. There were no irregularities or disqualifying flaws or omissions.

3. The bids were opened and read aloud. Upon subsequent detailed analysis, three minor errors were found in RPC's bid, which are easily resolved as provided in the General Conditions and do not change their status as low bidder. More on that later.

4. The work was broken down into two Bid Packages, Fall and Spring, each consisting of two Projects (Fall: Projects 1 & 2; Spring: Projects 3 & 4). The

Contract Documents allow us to award Bid Packages, individual Projects and Bid Alternates as we deem to be in the interest of the Town.

5. Based on comments from bidders on recent projects, and other factors, we broke out several items from the Base Bid of each Project Group, to be paid on a Unit Price basis, with stipulated quantities for bidding purposes for each Project:

   a. Silt Fence (700 linear feet)

   b. Watering (25 days)

   c. Pre-Patching Pavement (50 square yards Project 1, 100 sy 2, 3 & 4)

   We also provided four additive Alternates, A & B in Spring Bid Package, Project 3 and C & D in Spring Bid Package, Project 4. Briefly described, the Alternates are as follows:

   - A: In Project 3, extend Briggs Street southward from its present terminus to East Helga Street.
   - B: In Project 3, Install sidewalk along the north side of West Helga Street, from US 158 westward to Susan Drive.
   - C: In Project 4, Install four (4) 12' x 24' parallel parking spaces on the south side of East Martin Street, near its intersection with NC 12.
   - D: In Project 4, install 5' concrete sidewalk and curb & gutter along the north side of East Martin Street, from US 158 east to South Memorial Boulevard.

6. The Low Bidder for all of the work put out for bid is **RPC Contracting, Inc.**, whose Bid was as follows:

FALL BID PACKAGE

PROJECT 1 (Cedar Drive & Captains Lane)

a. **Base Bid** **$474,640.00**

b. Silt Fence ($3.50/lf) ..... $ 2,450.00

c. Watering ($590.00/day) .....$ 14,750.00

d. Pre-Patching ($56.00/sy) ..... $ 2,800.00

e. Water Items (replace 4 hydrants; lump sum).....$ 27,000.00

f. Total Bid, **Project 1** ..... **$ 521,640.00**

PROJECT 2 (Teakwood Lane & Captains Circle)

g. **Base Bid** .....**$ 91,070.00**
h. Silt Fence ($3.50/lf) ..... $ 2,450.00
i. Watering ($177.00/day) ..... $ 4,425.00
j. Pre-Patching ($56.00/sy) ..... $ 5,600.00
k. Water Items (replace 1 hydrant, add 2" valve) (lump sum)..... $7,500.00
l. Total Bid, **Project 2**..... **$ 111,045.00**

(Note: Items in green represent corrections to errors on the bid. RPC misinterpreted the instructions about the daily price for watering. This occurred on Projects 2, 3 and 4))

SPRING BID PACKAGE

PROJECT 3 (E & W Helga Street, Briggs Street, E Fourth Street)

m. **Base Bid** **$338,800.00**
n. Silt Fence ($3.50/lf) ..... $ 2,450.00
o. Watering ($354.00/day) ..... $ 8,850.00
p. Pre-Patching ($56.00/sy) ..... $ 5,600.00
q. Water Items (relocate 1 hydrant) (lump sum)..... $ 1,000.00
r. Alternate A (extend Briggs St) (lump sum) .....$ 22,660.00
s. Alternate B (W Helga St sidewalk) (lump sum).....$ 23,190.00
t. Total Bid, **Project 3**..... **$ 402,550.00**

PROJECT 4 (East Martin Street & East Dean Street)

u. **Base Bid** ..... **$ 295,130.00**
v. Silt Fence ($3.50/lf) ..... $ 2,450.00
w. Watering ($413.00/day) .....$ 10,325.00
x. Pre-Patching ($56.00/sy) ..... $ 5,600.00
y. Water Items (WM offset, replace hydrant...)(lump sum)$ 42,580.00
z. Alternate C (4 pk spaces, E end/Martin)(lump sum) $ 6,420.00
aa. Alt. D (sidewalk, N side Martin, W 2 blocks (lump sum) $ 20,430.00
bb. Total Bid, **Project 4**..... **$ 382,935.00**

7. **Total Bid**, Spring & Fall Packages + Alternates..**$1,418,170.00**

8. The total bid price, with all alternates, is significantly higher than what we anticipated when we met with the Street Improvement and Special Projects Committee last February, and is above what the Town has budgeted for this year. During this year, the work of these two Bid Packages has evolved during the design process, as you know from your and your staff's active participation. Some of the reasons include:

    a. The early estimates were made without any topographic surveying done and only with limited-scope preliminary engineering. As we began to analyze the topo, during design, we discovered a number of things. For example, to properly drain the areas of Projects 1 and 2 (the "Fall Bid Package,") we needed about 50% more linear feet of pipe than our typical neighborhood project, often having to install pipe on both sides of some streets.

    b. The Board of Commissioners' emphasis on extending sidewalk was factored into this design process, adding work.

    c. The BOC's interest in finding on-street parking opportunities was factored into this design process, adding work.

    d. Conflicts between existing water mains and sewer force mains and our proposed storm drainage pipes were discovered, requiring expensive offsets of those lines. There is about $70,000 of such costs in the intersection of East Martin Street and Wrightsville Boulevard, for example.

    e. At the intersections of East Martin Street and East Dean Street and Wrightsville Boulevard, we decided it would be wise to install in advance short sections of the large storm drainage pipe which we are planning for a Wrightsville project planned for 2 years from now, so our newly-installed pavement won't have to be cut and patched then.

    These are just some examples of the natural evolution of projects as they mature from very rough planning estimates to detailed estimates based on final design. We believe that all of the work is worthwhile, valuable and timely needed. While we prefer to stay within the constraints of our early budget numbers, we believe it is smart to find opportunities to better a design as we develop it. In summary, this is a lot of money, but a large amount of needed, beneficial work at good prices.

9. Let's discuss the specifics of these bids. Our Engineer's Estimate for the entire bundle of work (both Bid Packages, all 4 Projects and all Alternates) was $1,428,256.00. If we had not taken into account the very favorable

current bidding climate, that same estimate would have been about $200,000 higher, using unit prices from other recent jobs. The bidding climate is favorable to us primarily because of NCDOT's financial challenges, resulting in a major delay and reduction of the amount of work they are putting out for bids. Large contractors such a Barnhill and RPC have huge fixed costs for equipment, vehicles, staff, etc., which don't go away when the pipeline of work dries up.

So, even thought we cut our estimate about 15% below "normal" market pricing, RPC Contracting, with their bid of **$1,418,170.00**, still came in a little less than 1% below that low estimate. **We believe that essentially represents getting $1.65 million worth of work for $1.42 million, about a $230,000 savings**.

Barnhill's bid of $1,844,275.00 was not a bad bid, albeit 29% above our low Engineer's Estimate and 30% higher than RPC's bid. If we had not lowered our Engineer's Estimate to reflect market conditions, Barnhill would have been within about 12% of our estimate.

The bottom line: Let's buy as much infrastructure as we can at these favorable prices.

10. Therefore, we recommend award of the contract for **KDH Fall and Spring 2020-21 Bid Packages** to **RPC Contracting, Inc.** in the amount of **$1,418,170.00**, which as noted includes all four (4) projects and accepts Alternates A, B, C and D. Discussion of how the funding categories break down follows a little later.

11. Specifically regarding the Alternates, RPC's price for the four of them together was only **$72,700.00**. Our Engineer's Estimate had the four alternates at a total of $119,200. While RPC's overall bid is within 1% of our Estimate, their pricing for the Alternates is **39% below our estimate**. Thus, it would seem unwise to decline the alternates and miss the bargain.

12. Of course, Town management and the BOC could see fit to drop a project out of the work to get the total price down, and we have that right under the Contract documents. However, we as Town Engineer have to advise you that there is no "easy" choice as to how to do this. All of this work represents either fixing Poor-rated streets before they disintegrate, providing drainage relief to areas which have waited decades, or providing needed pedestrian or parking facilities. There just isn't an easy one to scratch.

13. Therefore, let's see how much total money we need to undertake the whole deal:

    a. We start with the bid price of $1,418,170.00
    b. Add a 5% contingency (non-water portion only)..... $67,004.50
    c. Add American's fee for construction oversight..... $66,000.00
    d. Total funding required: **$1,551,174.50**
    e. It should also be noted that some funding will be required to do the surveying and design of the $2021-22 project, which should begin next month to keep us on schedule.

14. Funds currently budgeted for this capital project include:

    a. General Fund, for street capital projects.....$760,000.00
    b. Powell Bill Funds.....$218,000.00
    c. Subtotal, for street and drainage work.....$918,000.00
    d. Sidewalk budget item $100,000.00
    e. Water funds for WM adjustments on capital projects...$225,000.00

15. The breakdown of the **$1,551,174.50** total is as follows:

    a. Water line improvements and adjustments:..... $78,080.00 (This is the actual value of "Water Items" from RPC's bid. Also, $6,000 of our fee for construction oversight is water, resulting in a total of..... **$84,080.00**.
    b. Alternates B (W Helga SW) and D (E Martin SW)..... $43,620.00 (However, the Base Bid work includes other sidewalk related work, such as striping the eastern block of the E Martin asphalt walk, adding crosswalk striping to existing sidewalk areas, etc. This work also creates its own need for contingency and construction oversight, adding over $4,000. Additionally, the sidewalk efforts benefit from being part of the larger project (economy of scale, etc.). We suggest that $49,801be applied to this year's projects..... **$49,801.00**.
    c. $1,551,174.50 -$100.00.00 - $65,000.00 leaves $1,386,174.50 still to be funded. Subtracting the $918,000 in the budget (General Fund and Powell Bill Funds for street/drainage capital work) leaves a shortfall of **$439,293.50**. We respectfully suggest that this amount be appropriated from reserves.

16. We have separately furnished our proposal for this project, dated October 23, 2020 for construction phase services in the amount of **$66,000.00**. This is split $60,000.00 for street and drainage work and $6,000.00 for water system work. This amount is consistent with the size of this project, and the fact that is in some respects two projects instead of one. We recommend and request that the Board of Commissioners approve this proposal for professional services.

17. If the Board sees fit to award the project, we contemplate a First Day of the Contract Time of Monday, **November 23, 2020**. With the Contract Time being 180 days, this would set the Required Date of Substantial Completion at Friday, **May 21, 2021** for all work, with the work of the Spring Bid Package (Projects 3 and 4, "between the highways") having to be Substantially Complete 30 days earlier, on **April 21, 2021**.

We appreciate the continuing opportunity to be of service to Kill Devil Hills. Please let me know if there are any questions regarding this information.

Sincerely,

Walton P. Burkhimer, Jr., P. E.
Senior Consultant

American Engineering Associates – Southeast, PA

WPBjr:pb:V:\2020\V20006 - KDH 20-21 Fall Project\Construction\06 Bid Tabulation Award NTP\Albright WPB Recommend Award FallSpring 20-21 November 2 2020.docx

Cc: Ms. Mary E. Quidley, Town Clerk, 252-441-7946

AMERICAN Engineering

October 22, 2020

Mr. Steve Albright, Director of Public Services
Town of Kill Devil Hills
P. O. Box 1719
Kill Devil Hills, NC 27948

By e-mail

Subject: **V20006 & 20007 – Kill Devil Hills 2020-21 FALL & SPRING Bid Packages, CONSTRUCTION PHASE SERVICES**

Dear Mr. Albright:

American Engineering is pleased to provide this proposal for services during the Construction Phase of this group of projects, for which bids were recently opened.

For the **Construction Phase** work, our scope of services shall be as follows:

Assist with contract execution; set survey control and provide survey stakeout, field engineering oversight, review contractors' applications for payment, as-built surveys of storm drainage structures and other key elevations.

Field oversight will not constitute Construction Management, nor full-time inspection, but frequent oversight to assist in assuring construction complies with Contract Documents.

The program we propose will include:

- An average of 1 hour per day (1-2 brief visits)
- An average of one 3 to 4-hour visit for some major meeting, walk-through, issue or effort, about twice per month.
- Approximately five days during the project for an event needing full-time oversight, such as observing paving.

We see a total project life of 6 months, or about 33 weeks. The program above will average out to about 8 hours per week, with a few skipped weeks for holiday or bad weather periods. Also included in this effort is overall project management tasks such as pay application processing, change order processing, weekly updates, etc. The fee below is about 4.7% of construction cost.

2020/21 FALL & SPRING Bid Packages			
Staff Classification	Rate	Hours	Extension
Principal @ __/hr	$190.00	240	$45,600.00
Senior Engineer @__/hr	$150.00	40	$6,000.00
Survey Party @__/h	$115.00	100	$11,500.00
CADD Operator @ __/hr	$80.00	36	$2,880.00
Subtotals, Estimated Fees by Hours:			$65,980.00
Lump Sum Fees:			**$66,000.00**
Water Portion: $6,000.00	Street & Drainage Portion: $60,000.00		

Work not covered within the scope outlined above shall be performed at our hourly rates, which are the same as presented in our General Services proposal of February 3, 2020. The following hourly rates will govern all work through the period of this proposal (through June 30, 2021, unless otherwise mutually agreed.)

Additional Services

Our hourly rates for the term of this proposal, which will be the basis for calculating lump sum fees and the basis of billing hourly work, are set forth below (increased rates are noted in **bold**):

Staff Categories	Hourly Rates
Principal Professional /Engineer	$180.00
Senior Consultant (W. P. Burkhimer, Jr.)	$190.00
Senior Professional /Engineer	$150.00
Project Engineer	$110.00
Engineering or Surveying Technician	$85.00
4 Person Survey Party	$150.00
3 Person Survey Party	$135.00
2 Person Survey Party/Party Chief w/Robotic Instrument	$115.00
CADD Operator	$80.00
Other Project Representative	$50.00
Clerical	$50.00

Reimbursable Expenses

Reimbursable expenses are those which are associated with professional services performed on a time and materials basis and include out-of-pocket expenditures advanced in the interest of the project. Almost all printing and copying are done in-house and are invoiced at the unit rates specified, except they are included in lump-sum project fees. Our rates for any reimbursable expenses incurred will be:

Copies of maps, plats, deeds, plans, data, etc.	cost +10%
Long distance/Conference phone calls	cost +10%
Overnight delivery (UPS, FedEx)	cost +10%
Mileage (not charged for travel to KDH from office, & back)	$0.54 / mile
Prints/Copies on:	
Bond	$0.20/square foot
Vellum	$1.50/square foot
Mylar	$3.00/square foot
Color Prints on Bond	
Letter	$1.00/copy
Legal	$2.00/copy
12" x 24"	$3.00/copy
Large Scale	$1.50/square foot
Specialty Printing/Plotting/Mounting	cost +10%
Printing/copying/mounting by others	cost +10%

Electronic copies of drawing files prepared at our hourly rates; requires recipient to sign release form

We propose to perform this work subject to the terms and conditions set forth in our General Services proposal to the Town of Kill Devil Hills, dated February 3, 2020.

We appreciate the opportunity to offer this information to you. If you find this proposal acceptable, please indicate by the signature, name, title and date of the appropriate official in the space provided below. This will serve as our authorization to proceed.

AMERICAN ENGINEERING ASSOCIATES—SOUTHEAST, PA

W. P. Burkhimer, Jr., P. E.
Chief Engineer, Virginia Beach

WPBjr:pb: V:\2020\V20006 - KDH 20-21 Fall Project**Construction**\07 Proposal - Construction Admin\KDH 2020-21 Fall and Spring Packages - Construction Phase Services - October 22, 2020.docx

Cc: Ms. Mary E. Quidley, Town Clerk, 252-441-7946

We accept this proposal and agree to its provisions, as set forth above.

TOWN OF KILL DEVIL HILLS

By:

Auth. Signature_____ .....

Name: _____ .....

Title: _____

Date: _____

Tabulation of Bids Received at: 11 a.m. on Thursday, October 22, 2020 by the Town of Kill Devil Hills, North Carolina

Project: 2020-21 Fall & Spring Bid Packages

American Engineering
448 Viking Drive, Suite 170, Virginia Beach, VA 23452

Estimate 84.0%

	Engineer's Post-Design Estimate	Barnhill Contracting Company, Inc.	RPC Contracting, Inc.
Percent of Engineer's Estimate --->	129.1%	99.3%	
Percent of Lowest Bid --->	130.0%	100.0%	
Project ID:	V20006	V20007	

ITEM # and DESCRIPTION	Length/Quantity	Engineer's Post-Design Estimate				Barnhill Contracting Company, Inc.				RPC Contracting, Inc.			
		Street & Drainage Cost	Waterline Cost	TOTAL COST	Cost per LF/unit	Street & Drainage Cost	Waterline Cost	TOTAL COST	Cost per LF	Street & Drainage Cost	Waterline Cost	TOTAL COST	Cost per LF
FALL BID PACKAGE, Project 1: **Cedar Drive** (north intersection with W First St, around the loop, through south intersection with W First St and eastward to and slightly beyond the Dogwood Trail intersection) and **Captains Lane** (from northwest intersection with Cedar Drive to south intersection): : all of the Work described above, except Water Items and 3 unit price items noted below.	3,332	$470,148		$470,148		$625,950		$625,950		$474,640		$474,640	
Silt Fence, Project 1, LF	700	$2,800		$2,800	$4	$2,100		$2,100	$3	$2,450		$2,450	$3.50
Watering, Project 1, 25 Days (at UP Item #53 price x Multiplier of 1.0)	25	$15,000		$15,000	$600	$11,500		$11,500	$460	$14,750		$14,750	$590.00
Pre-Patching, Project 1, SY (at UP Item #7 price)	50	$3,000		$3,000	$60	$5,150		$5,150	$103	$2,800		$2,800	$56.00
Water Items, Project 1, LS (4 FH replacements, etc.)	1		$20,000	$20,000			$28,060	$28,060			$27,000	$27,000	
Total Bid, Project 1		$490,948	$20,000	$510,948	$153	$644,700	$28,060	$672,760	$202	$494,640	$27,000	$521,640	$156.57
FALL BID PACKAGE, Project 2: **Teakwood Lane** (intersection with W First Street to Captains Circle) **and Captains Circle** (north end to south end), except the 7 items noted below.	750	$106,596		$106,596		$115,762		$115,762		$91,070		$91,070	
Silt Fence, Project 2, LF	700	$2,800		#VALUE!	$4	$2,100		$2,100	$3	$2,450		$2,450	$3.50
Watering, Project 2, 25 Days (at UP Item #53 price x Multiplier of 0.3)	25	$5,000		$0	$200	$3,450		$3,450	$138	$4,425		$4,425	$177.00
Pre-Patching, Project 2, SY (at UP Item #6 price)	100	$6,000		$0	$60	$10,300		$10,300	$103	$5,600		$5,600	$56.00
Water Items, Project 2, LS (FH replacements, add 2" valve, etc.)	1		$7,000	$7,000			$7,800	$7,800			$7,500	$7,500	
Total Bid, Project 2		$120,396	$7,000	$127,396	$170	$131,612	$7,800	$139,412	$186	$103,545	$7,500	$111,045	$148.06
SPRING BID PACKAGE, Project 3: **Briggs Street** (north intersection with E Arch St, south to intersection with E Helga St; **East Helga Street** (US 158 east to NC 12); **East Fourth Street** (NC 12 west to dead end, including storm drain in NC12 and easement to pond): all of the Work described above, except Water Items and 3 unit price items noted below.	1,530	$299,544		$299,544		$505,421		$505,421		$338,800		$338,800	
Silt Fence, Project 3, LF	700	$2,800		$2,800	$4	$2,100		$2,100	$3	$2,450		$2,450	$3.50
Watering, Project 3, 25 Days (at UP Item #53 price x Multiplier of 0.6)	25	$9,000		$9,000	$360	$6,900		$6,900	$276	$8,850		$8,850	$354.00
Pre-Patching, Project 3, SY (at UP Item #6 price)	100	$6,000		$6,000	$60	$10,300		$10,300	$103	$5,600		$5,600	$56.00
Water Items, Project 3, LS (FH relocation)	1		$1,500	$1,500			$1,000	$1,000			$1,000	$1,000	
Alternate A, LS: extend Briggs St south from dead end to E Helga St	1	$25,900		$25,900		$22,170		$22,170		$22,660		$22,660	
Alternate B, LS, Sidewalk, related work, **W Helga St**, Susan to US 158	1	$37,800		$37,800		$20,000		$20,000		$23,190		$23,190	
Total Bid, Project 3		$381,044	$1,500	$382,544	$250	$566,891	$1,000	$567,891	$371	$401,550	$1,000	$402,550	$263.10
SPRING BID PACKAGE, Project 4: East Martin Street (US 158 east to NC 12) and **East Dean Street** (intersection with US 158 W First Street east to Wrightsville Blvd), except the 7 items noted below.	1,220	$302,568		$302,568		$366,562		$366,562		$295,130		$295,130	
Silt Fence, Project 4, LF	700	$2,800		$2,800	$4	$2,100		$2,100	$3	$2,450		$2,450	$3.50
Watering, Project 4, 25 Days (at UP Item #53 price x Multiplier of 0.7)	25	$10,500		$10,500	$420	$8,050		$8,050	$322	$10,325		$10,325	$413.00
Pre-Patching, Project 4, SY (at UP Item #6 price)	100	$6,000		$6,000	$60	$10,300		$10,300	$103	$5,600		$5,600	$56.00
Water Items, Project 3, LS (FH replacement, (2) 6" WM offsets, etc.)	1		$30,000	$30,000			$42,000	$42,000			$42,580	$42,580	
Alternate C, LS: 12' X 96' parking area, east end of E Martin, south side	1	$11,000		$11,000		$8,200		$8,200		$6,420		$6,420	
Alternate D, LS, Sidewalk, CVS entr., etc., **W Martin St**, US 158 to S Mem., N side	1	$44,500		$44,500		$27,000		$27,000		$20,430		$20,430	
Total Base Bid, Project 4		$377,368	$30,000	$407,368	$334	$422,212	$42,000	$464,212	$381	$340,355	$42,580	$382,935	$313.88
Total, Fall Bid Package		$611,344	$27,000	$638,344	$156	$776,312	$35,860	$812,172	$199	$598,185	$34,500	$632,685	$155.01
Total, Spring Bid Package, all Alternates		$758,412	$31,500	$789,912	$287	$989,103	$43,000	$1,032,103	$375	$741,905	$43,580	$785,485	$285.63
Total, Spring Bid Package, NO Alternates		$639,212	$31,500	$670,712	$244	$911,733	$43,000	$954,733	$347	$669,205	$43,580	$712,785	$259.19
Total, Alternates A + B + C + D		$119,200				$77,370				$72,700			
Total Bid, Both Bid Packages, NO Alternates		$1,250,556	$58,500	$1,309,056	$192	$1,688,045	$78,860	$1,766,905	$259	$1,267,390	$78,080	$1,345,470	$196.95
Total Bid, Both Bid Packages, WITH/Alternates		$1,369,756	$58,500	$1,428,256	$209	$1,765,415	$78,860	$1,844,275	$270	$1,340,090	$78,080	$1,418,170	$207.59
		$119,200.00				$77,370.00				$72,700.00			

Bid Requirements Checkoff:	Engineer's Post-Design Estimate	Barnhill Contracting Company, Inc.	RPC Contracting, Inc.
Contractor's License Number Indicated?	✓		✓
Bid Bond Provided?	✓		✓
Minority Participation Information Provided?	✓		✓
Liability Insurance Information Provided?	✓		✓
Worker's Compensation Information Provided?	✓		✓
Receipt Acknowledged of Addenda #1 & #2?	✓		✓

Total Contract (ALL Alternates):	$1,428,256.00	$1,844,275.00	$1,418,170.00

ALLOWANCE FOR **CONTINGENCIES** AND USE OF **UNIT PRICE ITEMS** AT 5 **PERCENT** 1.05 = Factor

	Engineer's Post-Design Estimate			Barnhill Contracting Company, Inc.			RPC Contracting, Inc.		
	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total
	$68,487.80	$0.00	$68,487.80	$88,270.75	$0.00	$88,270.75	$67,004.50	$0.00	$67,004.50

ENGINEERING COSTS, CONSTRUCTION PHASE (CONTRACT ADMINISTRATION. SURVEY STAKEOUT, SURVEY AS-BUILT DRAINAGE STRUCTURE RIMS & INVERTS)

	Engineer's Post-Design Estimate			Barnhill Contracting Company, Inc.			RPC Contracting, Inc.		
	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total
	$60,000.00	$6,000.00	$66,000.00	$60,000.00	$6,000.00	$66,000.00	$60,000.00	$6,000.00	$66,000.00
		4.62%	$66,000.00			$66,000.00			$66,000.00

ESTIMATED **TOTAL CONSTRUCTION COST** BY PROJECT, including BASE BID, ALTERNATES marked above as "Accepted," potential cost of WATER LINE ADJUSTMENTS, allowance for CONTINGENCIES & USE OF UNIT PRICE ITEMS, and CONSTRUCTION-PHASE ENGINEERING

ITEM # and DESCRIPTION	Length	Engineer's Post-Design Estimate				Barnhill Contracting Company, Inc.				RPC Contracting, Inc.			
		Street & Drainage Cost	Water Cost	TOTAL COST	Cost per LF	Street & Drainage Cost	Water Cost	TOTAL COST	Cost per LF	Street & Drainage Cost	Water Cost	TOTAL COST	Cost per LF
	6,832	$1,498,243.80	$64,500.00	$1,562,743.80	$228.75	$1,913,685.75	$84,860.00	$1,998,545.75	$292.54	$1,467,094.50	$84,080.00	$1,551,174.50	$227.06
Total Bid, all costs		$1,562,743.80				$1,998,545.75				$1,551,174.50			

Tabulation of Bids Received at: **11 a.m. on Thursday, October 22, 2020** by the Town of Kill Devil Hills, North Carolina

Project: **2020-21 Fall & Spring Bid Packages**

American Engineering
448 Viking Drive, Suite 170 / Virginia Beach, VA 23452 / (757) 468-6800;
fax 468-4966 / sburkhimer@american-ea.com

Project ID: V18100

	Item # and Description		Unit	Engineer's Post-Design Estimate Unit Price	Barnhill Contracting Company, Inc. Unit Price	RPC Contracting, Inc. Unit Price	Other Bidder (N/A) Unit Price
1	Concrete Curb & Gutter, 24"		per LF	$31.00	$34.00	$35.00	
2	Concrete Curb & Gutter, 30"		per LF	$35.00	$36.00	$50.00	
3	Concrete Curb, 6"		per LF	$25.00	$25.00	$30.00	
4	Asphalt Base Course, Type B25.0B, in place		per TON	$120.00	$160.00	$200.00	
5	Asphalt Intermediate Course, Type I19.0B, in place		per TON	$120.00	$150.00	$150.00	
6	Asphalt Surface Course, Type SF9.5A, in place		per TON	$120.00	$135.00	$125.00	
7	Cut out and patch, prior to overlay, designated failed areas of existing pavement with 3" thick (min.) I19.0B or SF9.5A (field-measured) /50		per SY	$60.00	$103.00	$56.00	
8	Same as 7 above, except where Engineer determines heavier section is needed, increase I19.0B to 5", installed in 1 lift / 50		per SY	$60.00	$137.00	$86.00	
9	Aggregate Base Course (ABC) Stone, in place		per TON	$40.00	$45.00	$50.00	
10	Clearing		per ACRE	$15,000.00	$20,000.00	$15,000.00	
11	Select Fill, in place		per CY	$30.00	$45.00	$25.00	
12	Concrete Driveway REMOVAL		per SF	$2.50	$2.70	$2.25	
13	Concrete Driveway REPLACEMENT – Regular		per SF	$5.00	$6.00	$5.50	
14	Concrete Driveway REPLACEMENT –Exposed Aggregate		per SF	$7.00	$8.00	$10.00	
15	Seeding & Mulching (watering paid separately)		per SF	$0.10	$0.10	$0.15	
16	Sod, Centipede or Bermuda, in place, watered and maintained until fully established, quantity per installation....	16 Less than 80 SY	per SY	$12.00	$15.50	$20.00	
17		17 80 SY or more	per SY	$8.00	$8.50	$10.00	
18	Excelsior Matting, installed		per SY	$4.00	$3.00	$4.00	
19	Unsuitable Soil Material, Excavation, Removal and Disposal		per CY	$20.00	$30.00	$20.00	
20	Class "A" Rip-Rap, in place		per TON	$130.00	$120.00	$150.00	
21	Class "B" Rip-Rap, in place		per TON	$130.00	$120.00	$150.00	
22	2" PVC Water Main		per LF	$20.00	$60.00	$31.00	
23	6" PVC Water Main		per LF	$40.00	$110.00	$35.00	
24	8" PVC Water Main		per LF	$60.00	$120.00	$50.00	
25	2" DI Water Main (incl. adapters & reducers to 2" Sch 80 PVC / 100		per LF	$40.00	$80.00	$11.00	
26	6" DI Water Main / 100		per LF	$50.00	$120.00	$35.00	
27	8" DI Water Main / 100		per LF	$70.00	$135.00	$50.00	
28	Fire Hydrant (complete assembly: Tee, 6" branch main, FH, restraint)		per LF	$4,000.00	$4,000.00	$8,650.00	
29	2: Ball Valve / 2		per EACH	$600.00	$600.00	$1,150.00	
30	6" Gate Valve / 2		per EACH	$1,500.00	$1,400.00	$1,750.00	
31	8" Gate Valve / 2		per EACH	$2,000.00	$1,700.00	$2,000.00	
32	Connection to Existing 6" Water Main / 2		per EACH	$3,000.00	$3,300.00	$3,500.00	
33	Connection to Existing 8" Water Main / 2		per EACH	$4,000.00	$4,600.00	$4,000.00	
34	New Residential Water Service, w/sleeve on new or existing Water Line, installed		per EACH	$1,000.00	$630.00	$1,875.00	
35	Instances of lowering or raising existing Water Line or Sewer Force Main by up to 18"*, using Ductile Iron Pipe on all legs of offset except 2" shall be PVC Sch 80, including all labor, equipment, materials, patching. Base Quantity 2 for each size. *This price will be multiplied by 1.2 for offsets 18"-30"	35 2" WM or SFM	per EACH	$2,000.00	$2,200.00	$3,230.00	
36		36 3" WM or SFM	per EACH	$3,000.00	$2,300.00	$4,870.00	
37		37 4" WM or SFM	per EACH	$4,000.00	$3,200.00	$4,870.00	
38		38 6" WM or SFM	per EACH	$6,000.00	$7,500.00	$6,450.00	
39		39 8" WM or SFM	per EACH	$8,000.00	$9,500.00	$7,370.00	
40	12" HDPE, "N-12" culvert/storm drain, installed / 80		per LF	$30.00	$48.00	$30.00	
41	15" HDPE, "N-12" culvert/storm drain, installed / 80		per LF	$36.00	$49.00	$35.00	
42	18" HDPE, "N-12" culvert/storm drain, installed / 80		per LF	$44.00	$52.00	$40.00	
43	Remove and Dispose of existing 12", 15" or 18" Pipe (any type) / 80		per LF	$10.00	$10.00	$15.00	
44	Repair Existing Drainage Structure	44 connecting pipes	per EACH	$2,000.00	$4,800.00	$1,750.00	
45		45 connecting pipes	per EACH	$2,500.00	$6,500.00	$2,000.00	
46	Removal of Existing Storm Structures / 2		per EACH	$1,000.00	$3,500.00	$600.00	
47	New Standard Drop Inlet, precast, with boots for all pipe connections		per EACH	$2,000.00	$3,000.00	$1,500.00	
48	Grade, seed, fertilize, mulch & water new roadside swale, until vegetation is fully established, average depth:	48 Less than 1' / 200	per LF	$5.00	$1.70	$20.00	
49		49 1' to 2' / 200	per LF	$8.00	$3.70	$30.00	
50	Silt Fence: Install if and where directed, per details on the Drawings, and maintain/repair /replace as required during life of project.. Unit prices for Items 53 and 54 shall not be more than triple and double, respectively, of Item 55.	50 Up to 100 LF	per LF	$12.00	$3.00	$10.00	
51		51 100 LF to 500 LF	per LF	$8.00	$3.00	$6.00	
52		52 Over 500 LF	per LF	$4.00	$3.00	$3.50	
53	Watering, in full accordance with Sec. 3.13.E.1.d) of Technical Specifications / 30 NOTE: This Unit Price shall be for one day of Watering for Project 1 in the Fall Project Group. For each of the other project groups, the actual price paid, per DAY, shall be this price times a MULTIPLIER which is stated in the Bid From for each Project.		per DAY	$600.00	$460.00	$590.00	

141.6667

TOWN OF KILL DEVIL HILLS
BUDGET AMENDMENT REQUEST

Finance Department Use Only
Budget Amendment Number: 5
Finance Officer:

INCREASE (DECREASE)			INCREASE (DECREASE)		
CODE	**ACCOUNT DESCRIPTION**	**AMOUNT**	**CODE**	**ACCOUNT DESCRIPTION**	**AMOUNT**
5600 577030	C/O Sidewalk Reserve	$423.00	10 499155	Sidewalk Construction CRF	$423.00
5600 577010	C/O Street Construction	499,293.50	10 499191	Street Construction CRF	$60,000.00
			10 499100	Unassigned Fund Balance	$439,293.50
TOTAL		$499,716.50	TOTAL		$499,716.50

JUSTIFICATION: To appropriate funds from Capital Reserves and Unassigned fund balance to fund the recommended 2020-2021 Street, Drainage and ROW improvement projects

RECOMMENDED: _____ APPROVED: _____

DATE: November 9, 2020