TOWN OF KILL DEVIL HILLS

Land Where Flight Began

MEMORANDUM September 13, 2021

TO: Mayor and Board of Commissioners

FROM: Debora P. Diáz, Town Manager

REF: New Business

1. Recommendation for Bid Acceptance for 2021-2022 Street, Water Line, Drainage and Right-of-Way Improvements Project (Attached NB-1)

Initial design of the 2021-2022 street, drainage, and right-of-way improvements project was approved by the Board of Commissioners at its November 9, 2020, meeting. The Board then approved a modification of the project's scope that included Option C, replacing the water main, resurfaces, and adds a sidewalk to the entire length of West Third Street (US 158 to Bay Drive). Public Services Director Steve Albright's attached memorandum highlights this approximately .67 mile project and its drainage, paving, sidewalk, water main, and related work.
Bids were received on September 2, 2021, and have been reviewed by Staff and the Town Engineer, Pete Burkhimer, on behalf of American Engineering. Staff and Mr. Burkhimer recommend award of the contract for the entire project to the low bidder, FSC II, LLC (dba Fred Smith Company). The bid tabulation sheet is included with the packet materials for this item. The project's associated cost breakdown as follows:

	Base Bid			
2021/2022 West Third Street Project – US 158 to Bay Drive	**Streets & Drainage**	**Sidewalk**	**Water**	**Total**
FSC II, LLC – Base Bid + Unit Price Items	$1,156,663.60	$266,600	$1,216,112	$2,639,375.60
Contingency	$80,966.45	$18,662	$121,611.20	$221,239.65
Engineering	$32,000	$12,000	$39,800	$83,800
Grand Totals	$1,269,630.05	$297,262.00	$1,377,523.20	**$2,944,415.25**

Construction will begin in autumn, with the project's substantial completion scheduled for May 21, 2022, and substantial completion in the commercial area east of Creek Street being scheduled for April 21, 2022.

Staff recommends the Board of Commissioners accept the bid from FSC II, LLC (dba Fred Smith Company), and authorize the 2021-2022 Street, Water Line, Drainage, and Right-of-Way Improvements Project, base bid including unit price, by the following:

- Approval of the contract with FCS II, LLC for 2021-2022 Street, Water Line, Drainage, and Right-Of-Way Improvements Project in the amount of $2,639,375.60 and authorize its execution by the Town Manager;
- Approval of the engineering services agreement with American Engineering in the total amount of $83,800 for construction oversight services;
- Approval of a 7% not-to-exceed contingency for the streets and sidewalk portions of the project in the amount of $99,628.45 and a 10% contingency for the water portions of the project in the amount of $121,611.20; and
- Authorization of expenditure of $825,111.00 from the Street Construction Capital Reserve Fund; $197,262.00 from the Sidewalks Capital Reserve Fund ($100,000 approved with adopted budget); $972,300.00 from the Water Capital Reserve Fund ($405,223.20 approved with budget); $218,000 from the Powell Bill Fund; $226,519.05 from the fund balance, for a total of $2,944,415.25; and
- Approval of budget amendment #5 to appropriate funds from the Sidewalk Construction Capital Reserve Fund, Street Construction Capital Reserve Fund, and unassigned fund balance for the 2021-2022 street, drainage, and right-of-way improvements project.
- Approval of budget amendment #6 to appropriate funds from the Water Capital Reserve Fund for the 2021-2022 street, drainage, and right-of-way improvements project.

A motion would be in order.

TOWN OF KILL DEVIL HILLS
PUBLIC SERVICES

Post Office Box 1719, 107 Town Hall Drive
Kill Devil Hills, NC 27948
Administration (252) 480-4080 Fax (252) 441-6136
Office Hours: 8:00 a.m. – 5:00 p.m. Mon. – Fri.
Water Plant (252) 480-4090
www.kdhnc.com

STEPHEN F. ALBRIGHT
Director

DEREK A. DAIL
Assistant Director

MARCIA K. OLLIS
Administrative Services

ALFRED BURTON
Water Plant

WILLIAM H. WATERFIELD
Water Systems

L. RANDOLPH TURNER
Streets

LYNN E. LINDSEY
Solid Waste

September 13, 2021

Memorandum

To: Debora P. Diaz, Town Manager

From: Stephen F. Albright, Public Services Director SFA

Subject: **Recommendation for Bid Acceptance for 2021-2022 Street, Drainage and Right-Of-Way Improvements Projects**

At the November 9, 2020 meeting, the Board of Commissioners approved the initial design of the street, drainage and right-of-way improvements projects for fiscal year 2021-2022. At the May 26, 2021 meeting, the Board of Commissioners approved a modification of the scope of the project to include Option C that replaces the water main, repaves and adds the sidewalk to the entire length of West Third Street (US 158 to Bay Drive). The project includes paving, drainage, sidewalk, water main replacement and related work as follows:

West Third Street Project *(approximately 0.67 miles)* - Improvements will include paving, drainage, water main, sidewalk and related work as follows:

- **US 158 to Seminole**: Work will include new drainage, curb and gutter replacement, roadway alignment improvements with asphalt overlay, sidewalk replacement with additions, and water main replacements.
- **Seminole to Bay Drive**: Work will include new drainage, roadway asphalt three-inch overlay, some driveway work, addition of a five-foot wide concrete sidewalk on the south side and water main replacement on the north side. Drainage work will include a new trunk line on the south side to allow future side street connections.

On September 2, 2021 bids were received for the project 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, FSC II, LLC doing business as Fred Smith Company is awarded the contract for the **West Third Street Project**. A breakdown of the construction related costs is included below:

	Base Bid			
2021/2022 West Third Street Project – US 158 to Bay Drive	**Streets & Drainage**	**Sidewalk**	**Water**	**Total**
FSC II, LLC – Base Bid + Unit Price Items	$1,156,663.60	$266,600	$1,216,112	$2,639,375.60
Contingency	$80,966.45	$18,662	$121,611.20	$221,239.65
Engineering	$32,000	$12,000	$39,800	$83,800
Grand Totals	$1,269,630.05	$297,262.00	$1,377,523.20	**$2,944,415.25**

If the Board of Commissioners agrees with these recommendations for the **West Third Street Project**, a motion will be in order to:

- Approve the contract with FCS II, LLC. for 2021-2022 Street, Drainage, and Right-Of-Way Improvements Project in the amount of $2,639,375.60 and authorize its execution by the Town Manager;
- Approve the engineering services agreement with American Engineering in the total amount of $83,800 for construction oversight services;
- Approve an 7% not-to-exceed contingency for the streets and sidewalk portions of the project in the amount of $99,628.45 and a 10% contingency for the water portions of the project in the amount of $121,611.20; and
- Authorize expenditure of $825,111.00 from the Street Construction Capital Reserve Fund; $197,262.00 from the Sidewalks Capital Reserve Fund ($100,000 approved with adopted budget); $972,300.00 from the Water Capital Reserve Fund ($405,223.20 approved with budget); $218,000 from the Powell Bill Fund; $226,519.05 from the fund balance, for a total of $2,944,415.25; and
- Approve budget amendment #5 to appropriate funds from the Sidewalk Construction Capital Reserve Fund, Street Construction Capital Reserve Fund, and unassigned fund balance for the 2021-2022 street, drainage, and right-of-way improvements project.
- Approve budget amendment #6 to appropriate funds from the Water Capital Reserve Fund for the 2021-2022 street, drainage, and right-of-way improvements project.

September 3, 2021

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: **V20065 – Kill Devil Hills 2021-22 Project: WEST THIRD STREET, RECOMMENDATION OF AWARD**

Dear Mr. Albright:

At 11:00 a.m. on Thursday, September 2, 2021, 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 four (4) prospective bidders attend the August 12, 2021 mandatory pre-bid meeting. Having concerns that we still might have two or fewer actual bidders, we re-advertised the project in an effort to attract more bidders. We also scheduled a second pre-bid meeting, on August 19, for any additional bidders; but none attended. Thus, four prospective bidders met the requirement of having attended a mandatory pre-bid meeting: Fred Smith Company, Hatchell Concrete, Inc., EnviroTech Unlimited Construction Services and Barnhill Contracting Company.

2. At the September 2, 2021 bid opening, three bids were received, one from each of the firms having attended the pre-bid meeting except EnviroTech. All 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. The bids were opened and read aloud.

3. There were no bid Alternates. As in other recent projects, 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 (1,488 linear feet)
    b. Watering (25 days)

4. However, in response to the legitimate concerns of the bidders about serious problems in the supply chain for construction materials, we offered them two contract time frames:
   a. A base Contract Time (*i. e.*, number of days from Notice to Proceed until Substantial Completion) of April 23, 2022 for the more seasonal-traffic-sensitive area east of Seminole Street and May 21, 2022 for the westerly remainder.
   b. An extended Contract Time, called "Option A" on the Bid Proposal Form: As expected, all bidders quoted lower prices for the extra time, out of concern that uncontrollable delays from their suppliers could leave them with too little time to perform the work on this large project.
5. The Low Bidder for all of the work put out for bid is **FSC II, LLC**, doing business as **Fred Smith Company** (this is the firm which purchased RPC Contracting, Inc.) We'll refer to them as Fred Smith Company for the rest of this recommendation letter. Their Bid was as follows:

   For the earlier time frame: April 23, 2022 / May 21, 2022:

   a. **Base Bid, Street and Drainage Work $1,605,170.00**
   b. **Base Bid, Water Work $1,012,700.00**
   c. Silt Fence ($3.70/lf) ..... $ 5,505.60
   d. Watering ($640.00/day) ..... $ 16,000.00
   e. **Total Bid ..... $ 2,639,375.60**

   For the Option A, later time frame: June 25, 2022 / July 23, 2022:

   a. **Base Bid, Street and Drainage Work $1,583,470.00**
   b. **Base Bid, Water Work $1,012,700.00**
   c. Silt Fence ($3.70/lf) ..... $ 5,505.60
   d. Watering ($640.00/day) ..... $ 16,000.00
   e. **Total Bid ..... $ 2,617,675.60**

6. The savings obtained with Option A is only $21,700.00. Town Engineer and Town staff believe that, for no more savings than that, we should press for the pre-Memorial Day Substantial Completion. Therefore, all remaining analysis and recommendations in this letter are based on the total bid amount of **$2,639,375.60**.

7. The total Fred Smith Company bid price is 20.4% higher than our Engineer's Estimate, but 10% and 25% lower than the other bids from Barnhill Contracting Company and Hatchell Concrete, Inc, respectively. Frankly, we have never seen a more mixed-up, unpredictable bidding climate, with material suppliers raising prices repeatedly and unwilling to commit to delivery times. It would be ironic for us to call these "good bids," but we do consider them reasonable in the midst of these unreasonable circumstances. And we must thank the three bidders and their subcontractors and suppliers for the effort they've spent getting their bids together.

8. It is helpful to recap all the things that this rather expensive project will accomplish for West Third Street:
    a. It corrects the poor horizontal and vertical alignments near US 158.
    b. It corrects a 32-year old drainage design mistake near US 158.
    c. It provides significant drainage improvements for the entire length.
    d. It sets up future drainage improvements on some of the side streets.
    e. It replaces 3,500' of old AC water main with modern materials.
    f. It replaces old (1989), broken curb and sidewalk east of Creek Street.
    g. It extends new sidewalk for the entire length, Bay Drive to US 158.
    h. It provides a 3" asphalt pavement overlay which will last 25 years.

9. In view of all of the above, we recommend award of the contract for **KDH 2021-22 Project, WEST THIRD STREET** to **FRED SMITH COMPANY** in the amount of **$2,639,375.60**.

10. Therefore, let's see how much total money we need to undertake the whole deal (note that the 7% non-water contingency is a little more than our usual 5%, to cover the small retaining wall we will need to have built by a separate contractor, where the sidewalk is next to the ditch in the Dare Centre front parking area):
    a. We start with the bid price of.....**$2,639,375.60**
    b. Add a 7% contingency (non-water portion only) $99,628.45
    c. Add a 10% contingency (water portion only)..... $121,611.20
    d. Add American's fee for construction oversight $83,800.00
    e. Total funding required: **$2,944,415.25**

11. It may be useful to see this same total amount apportioned into the three categories of construction work:
    a. Street and drainage improvements..... $1,269,630.05
    b. Sidewalks (new W of Seminole, replace E of Seminole).....$297,262.00
    c. Water main replacement..... $1,377,523.20
    d. Sidewalk budget item **$2,944,415.25**

12. We have separately furnished our proposal for this project, dated September 2, 2021 for construction phase services in the amount of **$83,800.00**. This is split $32,000.00 for street and drainage work, $12,000.00 for sidewalk work and $39,800.00 for water system work. This amount is consistent with the size and time duration of this project. We recommend and request that the Board of Commissioners approve this proposal for professional services.

13. If the Board sees fit to award the project, we contemplate a First Day of the Contract Time of Monday, **September 27, 2021**. With the Contract Time being 208 days, this would set the Required Date of Substantial Completion at Friday, **May 21, 2022** for all work, with the work in the busier commercial area east of Creek Street having to be Substantially Complete 30 days earlier, on **April 21, 2022**.

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

September 2, 2021

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: **V20065 – Kill Devil Hills 2021-22 Project: WEST THIRD STREET, 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 9 months, or about 40 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 3.2% of anticipated construction cost, lower than average due to the project's large size.

2021/22 Project: WEST THIRD STREET			
Staff Classification	Rate	Hours	Extension
Principal @ __/hr	$190.00	280	$53,200.00
Senior Engineer @__/hr	$150.00	80	$12,000.00
Survey Party @__/h	$115.00	120	$13,800.00
CADD Operator @ __/hr	$80.00	60	$4,800.00
Subtotals, Estimated Fees by Hours:			$83,800.00
Lump Sum Fees:			**$83,800.00**
Water Portion: $39,800.00	Street & Drainage Portion: $32,000.00 Sidewalk Portion: $12,000.00		

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 April 26, 2021. The following hourly rates will govern all work through the period of this proposal (through June 30, 2022, 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.
Senior Consultant

WPBjr:pb:V:\2020\V20065 - KDH 21-22 Project - W Third St\Construction\07 Proposal - Construction Admin\KDH West Third Street - Construction Phase Services - September 2, 2021.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: _____

TOWN OF KILL DEVIL HILLS
BUDGET AMENDMENT REQUEST

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

INCREASE (DECREASE)			INCREASE (DECREASE)		
CODE	**ACCOUNT DESCRIPTION**	**AMOUNT**	**CODE**	**ACCOUNT DESCRIPTION**	**AMOUNT**
5600 577010	C/O – Street Construction Capital Reserve	276,630.05	10 499191	Fund Balance Appr – Street Reserve	50,111.00
5600 577015	C/O – Sidewalk Construction	97,262.00	10 499155	Fund Balance Appr – Sidewalks	97,262.00
			10 499100	Fund Balance Appr – Undesignated	226,519.05
TOTAL		$373,892.05	TOTAL		$373,892.05

JUSTIFICATION: To appropriate funds for 2021-2022 street, drainage, and right-of-way improvements fall and spring projects.

RECOMMENDED: _____ APPROVED: _____

DATE: September 13, 2021

TOWN OF KILL DEVIL HILLS
BUDGET AMENDMENT REQUEST

Finance Department Use Only
Budget Amendment Number: 6
Finance Officer: AD

INCREASE (DECREASE)			INCREASE (DECREASE)		
CODE	**ACCOUNT DESCRIPTION**	**AMOUNT**	**CODE**	**ACCOUNT DESCRIPTION**	**AMOUNT**
36 587003	Transfer to Water fund	648,300.00	36 499100	Fund Balance - Undes	648,300.00
8180 573000	C/O – Other Improvements	972,300.00	30 499998	Transfer from Capital Reserve Fund	972,300.00
TOTAL		$1,620,600.00	TOTAL		$1,620,600.00

JUSTIFICATION: To appropriate funds for the Water fund portion of the 2021-2022 street, drainage, and right-of-way improvements fall and spring projects.

RECOMMENDED: _____ APPROVED: _____

DATE: September 13, 2021

Tabulation of Bids Received at: 11 a.m. on Thursday, September 2, 2021 by the Town of Kill Devil Hills, North Carolina

Project: 2021-22 Project: WEST THIRD STREET: As Negotiated

American Engineering
830 Greenbrier Circle, Suite 110, Chesapeake, VA 23320

Percent of Engineer's Estimate ---> 173.3% Option A | 121.3% | 159.2%
Percent of Lowest Bid ---> 111.4% Option A | 100.0% | 131.3%

Project ID: V2006

Original Timeframe

Low bidder is 10.2% lower than this bidder. | Low bidder | Low bidder is 24.5% lower than this bidder.

	ITEM # and DESCRIPTION	Length/ Quantity	Engineer's Post-Design Estimate				Barnhill Contracting Company, Inc.				Fred Smith Company					Hatchell Concrete, Inc.				Fredericks Unlimited Construction Services			
			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	Sidewalk Cost	TOTAL COST	Cost per LF	Street & Drainage Cost	Waterline Cost	TOTAL COST	Cost per LF	Street & Drainage Cost	Waterline Cost	TOTAL COST	Cost per LF
1	WEST THIRD STREET The overlay and reconstruction of pavement, removal and replacement of existing curb & gutter and sidewalk and installation of new sidewalk. Concrete work will also include partial removal and construction of new driveway segments as necessary, and construction or replacement of curb & gutter at specified intersections Storm drainage improvements will be installed, including HDPE pipe and "sock drain", associated drainage structures, and grass swales within the entire project area. An existing 8" asbestos-cement water main will be replaced with 8" and 6" PVC and ductile iron pipe, including fittings, valves, fire hydrant assemblies, tie-ins of side street mains and transfer of all water services from the old main to the new. All areas shall include incidental clearing, pavement cuts/patch, reseeding and restoration, etc. the approximate total lengths of pavement overlay/reconstruction is 3,525 linear feet.	3,525	$1,234,000.00	$920,000.00	$2,154,000.00		No Bid				$1,135,158.00	$1,216,112.00	$266,600.00	$2,617,870.00		$2,361,605.50		$3,440,725.50		No Bid			
2	Silt Fence, , LF	1,488	$7,440.00		$7,440.00	$5.00					$5,505.60			$5,505.60	$3.70								
3	Watering, , Days	25	$15,000.00		$15,000.00	$600.00					$16,000.00			$16,000.00	$640.00								
4	Total Bid		$1,256,440.00	$920,000.00	$2,176,440.00						$1,156,663.60	$1,216,112.00	$266,600.00	$2,639,375.60	$748.76	$2,386,545.50		$3,465,665.50					

$2,639,375.60 Checksum w/Bid BEFORE negotiation
$0.00 Difference (zero = validation, total Bid amount UNCHANGED)

Option A Timeframe: 63 additional days to attain Substantial Completion

	ITEM # and DESCRIPTION	Length/ Quantity	Engineer's Post-Design Estimate				Barnhill Contracting Company, Inc.				Fred Smith Company					Hatchell Concrete, Inc.				Fredericks Unlimited Construction Services			
			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	Sidewalk Cost	TOTAL COST	Cost per LF	Street & Drainage Cost	Waterline Cost	TOTAL COST	Cost per LF	Street & Drainage Cost	Waterline Cost	TOTAL COST	Cost per LF
6	WEST THIRD STREET The overlay and reconstruction of pavement, removal and replacement of existing curb & gutter and sidewalk and installation of new sidewalk. Concrete work will also include partial removal and construction of new driveway segments as necessary, and construction or replacement of curb & gutter at specified intersections Storm drainage improvements will be installed, including HDPE pipe and "sock drain", associated drainage structures, and grass swales within the entire project area. An existing 8" asbestos-cement water main will be replaced with 8" and 6" PVC and ductile iron pipe, including fittings, valves, fire hydrant assemblies, tie-ins of side street mains and transfer of all water services from the old main to the new. All areas shall include incidental clearing, pavement cuts/patch, reseeding and restoration, etc. the approximate total lengths of pavement overlay/reconstruction is 3,525 linear feet.	3,525	$1,222,000.00	$910,000.00	$2,132,000.00		$2,137,725.60	[illegible]	$2,896,206.60		$1,316,870.00	$1,012,700.00	$266,600.00	$2,596,170.00		$2,361,605.50	[illegible]	$3,440,725.50		No Bid			
7	Silt Fence, , LF	1,488	$7,440.00		$7,440.00	$5.00	[illegible]		[illegible]	[illegible]	$5,505.60			$5,505.60	$3.70	[illegible]		[illegible]	[illegible]				
8	Watering, , Days	25	$15,000.00		$15,000.00	$600.00	[illegible]		[illegible]	[illegible]	$16,000.00			$16,000.00	$640.00	[illegible]		[illegible]	[illegible]				
9	Total Bid		$1,244,440.00	$910,000.00	$2,154,440.00		$2,156,386.00	[illegible]	$2,914,867.00		$1,338,375.60	$1,012,700.00	$266,600.00	$2,617,675.60	$742.60	$2,386,545.50	[illegible]	$3,465,665.50					

$21,700.00 premium for earlier completion

Bid Requirements Checkoff:					
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, if Awarded by BOC:	$2,176,440.00	$0.00	$2,639,375.60	$3,465,665.50	NO BID

$2,914,867.00 | 1.07 = Factor | 1.10 =WaterFactor

ALLOWANCE FOR **CONTINGENCIES** AND USE OF **UNIT PRICE ITEMS** AT 7 **PERCENT for NON-WATER WORK AND** 10 **PERCENT for WATER WORK**

	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Sidewalk	Total	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total
	$87,950.80	$92,000.00	$179,950.80	$150,947.02	[illegible]	$226,795.12	$80,966.45	$121,611.20	$18,662.00	$221,239.65	$167,658.19	[illegible]	$274,970.39			

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

	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Sidewalk	Total	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total
	$44,000.00	$39,800.00	$83,800.00	$44,000.00	[illegible]	$83,800.00	$32,000.00	$39,800.00	$12,000.00	$83,800.00	[illegible]	[illegible]	$83,800.00			
		3.85%	$83,800.00		[illegible]	$83,800.00		3.17%		$83,800.00		2.42%	$83,800.00			

ESTIMATED **TOTAL CONSTRUCTION COST** BY PROJECT, including BASE BID, ALTERNATES marked above as "Accepted? YES," 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.				Fred Smith Company					Hatchell Concrete, Inc.				Fredericks Unlimited Construction Services			
		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	Sidewalk Cost	TOTAL COST	Cost per LF	Street & Drainage Cost	Water Cost	TOTAL COST	Cost per LF	Street & Drainage Cost	Water Cost	TOTAL COST	per LF
	3,525	$1,376,390.80	$1,041,800.00	$2,418,190.80	$686.01	$2,751,335.02	[illegible]	$3,225,462.12	$915.02	$1,269,630.05	$1,377,523.20	$297,262.00	$2,944,415.25	$835.30	$2,597,605.69	[illegible]	$3,824,435.69	$1,084.95				
Total Bid, all costs		$2,418,190.80				$3,225,462.12				$2,944,415.25					$3,824,435.69				NO BID			

Tabulation of Bids Received at: 11 a.m. on Thursday, September 2, 2021 by the Town of Kill Devil Hills, North Carolina

Project: **2021-22 Project: WEST THIRD STREET: As Bid**

American Engineering
830 Greenbrier Circle, Suite 110, Chesapeake, VA 23320

Project ID: V20065

	Barnhill	Fred Smith	Hatchell	EnviroTech
Percent of Engineer's Estimate —>	173.3% Option A	120.3%	159.2%	
Percent of Lowest Bid —>	111.4% Option A	100.0%	132.4%	
	10.2%		24.5%	

Original Timeframe

	ITEM # and DESCRIPTION	Length/ Quantity	Engineer's Post-Design Estimate				Barnhill Contracting Company, Inc.				Fred Smith Company				Hatchell Concrete, Inc.				EnviroTech Unlimited Construction Services			
			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	Street & Drainage Cost	Waterline Cost	TOTAL COST	Cost per LF	Street & Drainage Cost	Waterline Cost	TOTAL COST	Cost per LF
1	WEST THIRD STREET The overlay and reconstruction of pavement, removal and replacement of existing curb & gutter and sidewalk and installation of new sidewalk. Concrete work will also include partial removal and construction of new driveway segments as necessary, and construction or replacement of curb & gutter at specified intersections Storm drainage improvements will be installed, including HDPE pipe and "sock drain", associated drainage structures, and grass swales within the entire project area. An existing 8" asbestos-cement water main will be replaced with 8" and 6" PVC and ductile iron pipe, including fittings, valves, fire hydrant assemblies, tie-ins of side street mains and transfer of all water services from the old main to the new. All areas shall include incidental clearing, pavement cuts/patch, reseeding and restoration, etc. the approximate total lengths of pavement overlay/reconstruction is 3,525 linear feet.	3,525	$1,234,000.00	$920,000.00	$2,154,000.00		No Bid				$1,605,170.00	$1,012,700.00	$2,617,870.00		$2,361,605.50	$1,079,120.00	$3,440,725.50		$1,31 No Bid			
2	Silt Fence, , LF	1,488	$7,440.00		$7,440.00	$5.00					$5,505.60		$5,505.60	$3.70	$7,440.00		$7,440.00	$5.00	$6,696.00		$6,696.00	$4.50
3	Watering, , Days	25	$15,000.00		$15,000.00	$600.00					$16,000.00		$16,000.00	$640.00	$17,500.00		$17,500.00	$700.00	$15,625.00		$15,625.00	$625.00
4	Total Bid		$1,256,440.00	$920,000.00	$2,176,440.00						$1,626,675.60	$1,012,700.00	$2,639,375.60	$748.76	$2,386,545.50	$1,079,120.00	$3,465,665.50		$1,335,452.00	$876,543.00	$2,211,995.00	$627.52

Option A Timeframe: 63 additional days to attain Substantial Completion

	ITEM # and DESCRIPTION	Length/ Quantity	Engineer's Post-Design Estimate				Barnhill Contracting Company, Inc.				Fred Smith Company				Hatchell Concrete, Inc.				EnviroTech Unlimited Construction Services			
			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	Street & Drainage Cost	Waterline Cost	TOTAL COST	Cost per LF	Street & Drainage Cost	Waterline Cost	TOTAL COST	Cost per LF
6	WEST THIRD STREET The overlay and reconstruction of pavement, removal and replacement of existing curb & gutter and sidewalk and installation of new sidewalk. Concrete work will also include partial removal and construction of new driveway segments as necessary, and construction or replacement of curb & gutter at specified intersections Storm drainage improvements will be installed, including HDPE pipe and "sock drain", associated drainage structures, and grass swales within the entire project area. An existing 8" asbestos-cement water main will be replaced with 8" and 6" PVC and ductile iron pipe, including fittings, valves, fire hydrant assemblies, tie-ins of side street mains and transfer of all water services from the old main to the new. All areas shall include incidental clearing, pavement cuts/patch, reseeding and restoration, etc. the approximate total lengths of pavement overlay/reconstruction is 3,525 linear feet.	3,525	$1,222,000.00	$910,000.00	$2,132,000.00		$2,137,725.60	$758,481.00	$2,896,206.60		$1,583,470.00	$1,012,700.00	$2,596,170.00		$2,361,605.50	$1,079,120.00	$3,440,725.50		No Bid			
7	Silt Fence, , LF	1,488	$7,440.00		$7,440.00	$5.00	$4,910.40		$4,910.40	$3.30	$5,505.60		$5,505.60	$3.70	$7,440.00		$7,440.00	$5.00				
8	Watering, , Days	25	$15,000.00		$15,000.00	$600.00	$13,750.00		$13,750.00	$550.00	$16,000.00		$16,000.00	$640.00	$17,500.00		$17,500.00	$700.00				
9	Total Bid		$1,244,440.00	$910,000.00	$2,154,440.00		$2,156,386.00	$758,481.00	$2,914,867.00		$1,604,975.60	$1,012,700.00	$2,617,675.60	$742.60	$2,386,545.50	$1,079,120.00	$3,465,665.50					
													$21,700.00									

Bid Requirements Checkoff:	Barnhill	Fred Smith	Hatchell	EnviroTech
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, if Awarded by BOC:	$2,176,440.00	$2,914,867.00	$2,617,675.60	$3,465,665.50	NO BID

$2,914,867.00 1.05 = Factor 1.10 =WaterFactor

ALLOWANCE FOR **CONTINGENCIES** AND USE OF **UNIT PRICE ITEMS** AT 5 **PERCENT for NON-WATER WORK AND** 10 **PERCENT for WATER WORK**

	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total
	$62,822.00	$92,000.00	$154,822.00	$107,819.30	$75,848.10	$183,667.40	$80,248.78	$101,270.00	$181,518.78	$119,327.28	$107,912.00	$227,239.28			

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

Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total
$44,000.00	$39,800.00	$83,800.00	$44,000.00	$39,800.00	$83,800.00	$44,000.00	$39,800.00	$83,800.00	$44,000.00	$39,800.00	$83,800.00			
	3.85%	$83,800.00		2.87%	$83,800.00		3.20%	$83,800.00		2.42%	$83,800.00			

ESTIMATED TOTAL CONSTRUCTION COST BY PROJECT, including BASE BID, ALTERNATES marked above as "Accepted? YES," 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.				Fred Smith Company				Hatchell Concrete, Inc.				EnviroTech Unlimited Construction Services			
		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	Street & Drainage Cost	Water Cost	TOTAL COST	Cost per LF	Street & Drainage Cost	Water Cost	TOTAL COST	Cost per LF
	3,525	$1,351,262.00	$1,041,800.00	$2,393,062.00	$678.88	$2,308,205.30	$874,129.10	$3,182,334.40	$902.79	$1,729,224.38	$1,153,770.00	$2,882,994.38	$817.87	$2,549,872.78	$1,226,832.00	$3,776,704.78	$1,071.41				
Total Bid, all costs		$2,393,062.00				$3,182,334.40				$2,882,994.38				$3,776,704.78				NO BID			

Tabulation of Bids Received at: **11 a.m. on Thursday, September 2, 2021** by the Town of Kill Devil Hills, North Carolina

Project: **2021-22 Project: WEST THIRD STREET: As Bid**

American Engineering
448 Viking Drive, Suite 170-1 Virginia Beach, VA 23452 / (757) 468-6800 fax 468-4968 / pburkhimer@american-ez.com

Project ID: V18100

Item #			Unit	Engineer's Post-Design Estimate Unit Price	Barnhill Contracting Company, Inc. Unit Price	Fred Smith Company Unit Price	Hatchell Concrete, Inc. Unit Price		
1	Concrete Curb & Gutter, 24"		per LF	$30.00	$38.00	$35.00	$32.00	$35.00	
2	Concrete Curb & Gutter, 30"		per LF	$35.00	$40.00	$50.00	$35.00	$41.67	
3	Concrete Curb, 6"		per LF	$25.00	$30.00	$30.00	$30.00	$30.00	
4	Asphalt Base Course, Type B25.0B, in place		per TON	$140.00	$175.00	$200.00	$200.00	$191.67	
5	Asphalt Intermediate Course, Type I19.0B, in place		per TON	$140.00	$160.00	$150.00	$180.00	$183.33	
6	Asphalt Surface Course, Type SF9.5A, in place		per TON	$140.00	$157.00	$125.00	$180.00	$154.00	
7	existing pavement with 3" thick (min.) I19.0B or SF9.5A (field-measured)		per SY	$60.00	$165.00	$60.00	$120.00	$115.00	
8	section is needed. Increase I19.0B to 5", installed in one lift.		per SY	$80.00	$220.00	$92.50	$130.00	$147.50	
9	Aggregate Base Course (ABC) Stone, in place		per TON	$45.00	$61.00	$60.00	$55.00	$58.67	
10	Clearing		per ACRE	$15,000.00	$32,000.00	$13,000.00	$2,500.00	$16,500.00	
11	Select Fill, in place		per CY	$18.00	$35.00	$25.00	$28.00	$26.67	
12	Concrete Driveway REMOVAL		per SF	$2.00	$1.10	$3.00	$3.00	$2.37	141.6667
13	Concrete Driveway REPLACEMENT – Regular		per SF	$6.00	$7.50	$8.00	$7.00	$7.50	
14	Concrete Driveway REPLACEMENT –Exposed Aggregate		per SF	$7.00	$9.50	$12.00	$9.00	$10.17	
15	Seeding & Mulching (watering paid separately)		per SF	$0.10	$0.11	$0.15	$3.00	$1.09	
16	Sod, Centipede or Bermuda, in place, watered and maintained until fully established, quantity per installation.....	16 Less than 80 SY	per SY	$20.00	$10.00	$20.00	$10.00	$13.33	
17		17 80 SY or more	per SY	$8.00	$10.00	$10.00	$12.00	$10.67	
18	Excelsior Matting, Installed		per SY	$4.00	$3.50	$4.00	$5.00	$4.17	
19	Unsuitable Soil Material, Excavation, Removal and Disposal		per CY	$15.00	$28.00	$20.00	$20.00	$22.67	
20	Class "A" Rip-Rap, in place		per TON	$100.00	$130.00	$150.00	$60.00	$106.67	
21	Class "B" Rip-Rap, in place		per TON	$100.00	$130.00	$150.00	$65.00	$108.33	
22	2" Schedule 80 PVC Water Main		per LF	$24.00	$31.00	$28.00	$20.00	$26.33	
23	6" PVC Water Main		per LF	$35.00	$54.00	$35.00	$38.00	$42.33	
24	8" PVC Water Main		per LF	$52.00	$65.00	$59.00	$52.00	$58.67	
25	4" DI Water Main (incl. adapters & reducesrs to 2" Sch 80 PVC)		per LF	$50.00	$67.00	$60.00	$60.00	$62.33	
26	6" DI Water Main		per LF	$60.00	$76.00	$60.00	$60.00	$65.33	
27	8" DI Water Main		per LF	$70.00	$77.00	$75.00	$65.00	$72.33	
28	Fire Hydrant (complete assembly: Tee, 6" branch main, FH, restraint)		per LF	$3,000.00	$12,000.00	$11,500.00	$7,000.00	$10,166.67	
29	2" Ball Valve		per EACH	$1,000.00	$2,400.00	$2,350.00	$850.00	$1,866.67	
30	6" Gate Valve		per EACH	$2,000.00	$2,575.00	$2,450.00	$1,300.00	$2,108.33	
31	8" Gate Valve			$3,000.00	$3,675.00	$3,500.00	$1,800.00	$2,991.67	
32	Connection to Existing 6" Water Main		per EACH	$2,500.00	$2,270.00	$2,150.00	$1,000.00	$1,806.67	
33	Connection to Existing 8" Water Main		per EACH	$3,500.00	$3,416.00	$3,250.00	$1,500.00	$2,722.00	
34	New Residential Water Service, w/sleeve on new or existing Water Line, installed		per EACH	$1,500.00	$4,092.00	$3,500.00	$2,500.00	$3,364.00	
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	per EACH	$2,000.00	$8,400.00	$6,000.00	$2,000.00	$5,466.67	
36		36 3" WM	per EACH	$3,000.00	$17,096.00	$12,500.00	$11,000.00	$13,532.00	
37		37 4" WM	per EACH	$6,000.00	$14,038.00	$12,500.00	$8,500.00	$11,679.33	
38		38 6" WM	per EACH	$8,000.00	$11,960.00	$12,500.00	$8,500.00	$10,986.67	
39		39 8" WM	per EACH	$30,000.00	$34,731.00	$14,000.00	$10,500.00	$13,077.00	
40	1) 12" HDPE, "N-12" culvert/storm drain, installed; Add $3 per LF for sock drain		per LF	$35.00	$69.00	$35.00	$15.00	$39.67	
41	2) 15" HDPE, "N-12" culvert/storm drain, installed; Add $3 per LF for sock drain		per LF	$40.00	$70.00	$40.00	$50.00	$53.33	
42	3) 18" HDPE, "N-12" culvert/storm drain, installed; Add $3 per LF for sock drain		per LF	$48.00	$75.00	$47.50	$63.00	$61.83	
43	4) 24" HDPE, "N-12" culvert/storm drain, installed; Add $3 per LF for sock drain		per LF	$65.00	$95.00	$75.00	$74.00	$81.33	
44	5) Remove and Dispose of existing 12", 15" or 18" Pipe (any type)		per LF	$20.00	$10.00	$20.00	$20.00	$16.67	
45	Repair Existing Drainage Structure	45 1 or 2 connecting pipes	per EACH	$1,500.00	$2,200.00	$1,750.00	$2,500.00	$2,150.00	
46		46 more than 2 connecting pipes	per EACH	$2,000.00	$2,400.00	$2,000.00	$3,500.00	$2,633.33	
47	Removal of Existing Storm Piping and Structures		per EACH	$800.00	$950.00	$850.00	$2,000.00	$1,266.67	
48	New Standard Drop Inlet, precast, with beofs for all pipe connections		per EACH	$2,500.00	$3,100.00	$3,250.00	$2,000.00	$2,783.33	
49	Grade, seed, fertilize, mulch & water new roadside swale, until vegetation is fully established, average depth:	49 Less than 1'	per LF	$10.00	$3.00	$25.00	$2.50	$10.17	
50		50 1' to 2'	per LF	$15.00	$3.50	$37.50	$3.00	$14.67	
51	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.	51 Up to 100 LF	per LF	$10.00	$3.30	$10.00	$4.50	$5.93	
52		52 100 LF to 500 LF	per LF	$8.00	$3.30	$6.50	$5.00	$4.93	
53		53 Over 500 LF	per LF	$6.00	$3.30	$3.70	$4.00	$3.67	
54	Watering, in full accordance with Sec. 3.13.E.1.d) of Technical Specifications		per DAY	$400.00	$550.00	$640.00	$750.00	$546.67	