TOWN OF KILL DEVIL HILLS

Land Where Flight Began

MEMORANDUM May 8, 2023

TO: Mayor and Board of Commissioners

FROM: Debora P. Diáz, Town Manager

REF: New Business

1. Recommendation for Bid Acceptance for 2023-2024 Street, Drainage, and Right-of-Way Improvements Projects (Attached NB-1)

At its September 12, 2022, meeting, the Board of Commissioners approved the re-bid of the Seminole – Indian - Apache Project, separating it from the 2022-2023 street, drainage, and right-of-way improvements project and deferring it to fiscal year 2023-2024 due to anticipated construction costs. The re-bid project includes paving, drainage, water main replacement and related work as follows:

Seminole – Indian - Apache Project *(approximately 0.39 miles)* - Improvements will include paving, drainage, water main, and related work:

- **Seminole Street**: Includes new drainage, asphalt paving, some driveway work and water main replacement from W. Third Street to Indian Drive.
- **Indian Drive**: Includes water main replacement, asphalt paving, some driveway work and drainage improvements from Seminole Street to Apache Street.
- **Apache Street**: Includes drainage work and associated driveway replacements from W. Third Street to Indian Drive.

Public Services Director Steve Albright's attached memorandum highlights that on April 21, 2023, bids were received for the project and reviewed by the Town's engineer, Patrick Lewis and staff. Staff concurs with Mr. Lewis' recommendation that the low bidder, Hatchell Concrete, Inc. is awarded the contract for the Seminole Street, Indian Drive, and Apache Street Water and Stormwater Improvements Project as outlined in his attached recommendation letter.

TOWN OF KILL DEVIL HILLS
PUBLIC SERVICES

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L. RANDOLPH TURNER
Streets

LYNN E. LINDSEY
Solid Waste

May 8, 2023

Memorandum

To: Debora P. Diaz, Town Manager

From: Stephen F. Albright, Public Services Director

Subject: **Recommendation for Bid Acceptance for 2023-2024 Street, Drainage and Right-Of-Way Improvements Projects**

At the September 12, 2022 meeting, the Board of Commissioners approved the re-bid of the street, drainage and right-of-way improvements project for fiscal year 2023-2024 that was deferred for budget reasons in 2022. The re-bid project includes paving, drainage, water main replacement and related work as follows:

Seminole – Indian - Apache Project Group *(approximately 0.39 miles)* - Improvements will include paving, drainage, water main, and related work as follows:

- **Seminole Street**: Work will include new drainage, asphalt paving, some driveway work and water main replacement from W. Third Street to Indian Drive.
- **Indian Drive**: Work will include water main replacement, asphalt paving, some driveway work and drainage improvements from Seminole Street to Apache Street.
- **Apache Street**: Work will include drainage work and associated driveway replacements from W. Third Street to Indian Drive.

On April 21, 2023 bids were received for the project and reviewed by the Town's engineer, Patrick Lewis and staff. Please find the attached recommendation of award letter from Mr. Lewis along with the bid tabulation for the project. Staff concurs with Mr. Lewis's recommendation that the low bidder, Hatchell Concrete, Inc. is awarded the contract for the **Seminole Street, Indian Drive, and Apache Street Water and Stormwater Improvements Project** as outlined in the attached recommendation letter.

A breakdown of the recommended construction related costs for the **Seminole Street, Indian Drive, and Apache Street Project** is included below:

	Project Breakdown		
Seminole, Indian, & Apache Project	**Streets & Drainage**	**Water**	**Total**
Hatchell Concrete, Inc. – Base Bid + Unit Price Items	$591,918	$635,241	$1,227,159
Contingency	$59,192	$63,524	$122,716
Engineering	$23,390	$35,650	$59,040
Totals	**$674,500**	**$734,415**	**$1,408,915**

If the Board of Commissioners agrees with these recommendations for the **Seminole Street, Indian Drive, and Apache Street Water and Stormwater Improvements Project,** a motion will be in order to:

- Approve the contract with Hatchell Concrete, Inc. for 2023-2024 Street, Drainage, and Right-Of-Way Improvements Project in the amount of $1,227,159 and authorize its execution by the Town Manager;
- Approve the engineering services agreement with American Engineering in the total amount of $59,040 for construction oversight services;
- Approve a 10% not-to-exceed contingency for the streets and drainage portions of the project in the amount of $59,192 and a 10% contingency for the water portions of the project in the amount of $63,524;
- Authorize expenditure of $734,415 from the Water Capital Reserve Fund; $674,500.00 from the fund balance, for a total of $1,408,915; and
- Approve budget amendments to appropriate funds from the Water Capital Reserve Fund, and unassigned fund balance for the 2023-2024 street, drainage, and right-of-way improvements project.

April 27, 2023

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: **V23001 – Kill Devil Hills, NC Seminole Street, Indian Drive, and Apache Street Water and Stormwater Improvements Project Recommendation of Award**

Dear Mr. Albright:

At 11:00 a.m. on Thursday, April 21, 2023, American Engineering received and opened bids for the following projects:

- Seminole Street, Indian Drive, and Apache Street. Water and Stormwater Improvements

This project was rebid this year after being bid in 2022 and not recommended for award. 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 three (3) prospective bidders attend the March 16, 2023 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 March 23, for any additional bidders. No additional bidders qualified and so the second pre-bid meeting was not held. Thus, three prospective bidders met the requirement of having attended a mandatory pre-bid meeting: Fred Smith Company, Hatchell Concrete, Inc., Barnhill Contracting Company.

2. At the April 21, 2023 bid opening, three bids were received, one from each of the firms having attended the pre-bid meeting. 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. As in other recent projects, we broke out several items from the Base Bid of each Project. There are two items to be paid on a unit-price basis with specified quantities:

    a. Silt Fence (500 linear feet)
    b. Watering (25 days)

4. There were no bid Alternates for this project.

5. Contractors were allowed 150 days to reach substantial completion from the construction start date, and 185 days to reach final completion.

6. The Low Bidder for this project is **Hatchell Concrete, Inc.** Their Bid was as follows:

   a. **Base Bid, Street and Drainage Work $580,668.00**
   b. **Base Bid, Water Work $635,241.00**
   c. Silt Fence (500 LF)..... $ 2,500.00
   d. Watering (25 days) ..... $ 8,750.00
   e. **Total Bid ..... $ 1,227,159.00**

7. The total Hatchell Concrete, Inc. bid price for this project is 16.4% lower than our Engineer's Estimate, and within 15% of the other bids from Barnhill Contracting Company and Fred Smith Company. Bids that are this close together typically indicate that this pricing accurately reflects the current market.

   We are still in a volatile bidding climate. Material suppliers have been raising prices significantly over the past 18 months and are either unwilling to commit to delivery times or commit to long delivery times. In addition, labor rates have increased significantly within the past 2 years. Based on these conditions, we consider these bids reasonable and are starting to see evidence of pricing stabilization. We would like to thank the three bidders for the effort they've spent getting their bids together.

   Taking into consideration all of the above, we recommend award of the contract for the **Seminole Street, Indian Drive, and Apache Street Water and Stormwater Improvements Project,** to **Hatchell Concrete, Inc.** in the amount of **$1,227,159.00.**

8. We wish to discuss how much total money will be needed to undertake this project:

   a. We start with the bid price of..... **$1,227,159.00**
   b. Add a 10% contingency (non-water portion only)..... $59,192.00
   c. Add a 10% contingency (water portion only)..... $63,524.00
   d. Add American's fee for construction oversight $59,040.00
   e. Total funding required: **$1,408,915.00**

9. It may be useful to see this same total amount apportioned into the two categories of construction work:
   a. Street and drainage improvements $674,500.00
   b. Water main replacement $734,415.00
   c. Total funding required **$1,408,915.00**

10. We have separately furnished our proposal for the construction phase services for this project, dated April 27, 2023 in the amount of **$59,040.00**. This is split $23,390.00 for street and drainage work and $35,650.00 for water system work. We recommend and request that the Board of Commissioners approve this proposal for professional services.

11. If the Board sees fit to award the project, we contemplate that the Contractor will receive Notice to Proceed on Monday, May 15, 2023. The Contractor will complete administrative tasks and order materials, which are anticipated to take 12-16 weeks to be delivered. As such, the first day of construction for the Contract will be set as September 6, 2023. With the Contract Time being 150 days, this would set the Required Date of Substantial Completion as Friday, **February 2, 2024** for all work.

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,

Patrick W. Lewis, P.E., ENV SP
Senior Engineer

American Engineering Associates – Southeast, PA

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Cc: Mr. Michael O'Dell, Town Clerk, 252-441-7946

Tabulation of Bids Received at: **11 a.m. on Thursday, April 20, 2023** by the Town of Kill Devil Hills, North Carolina

Project: **2023-24 Project: Seminole, Indian, and Apache Water and Stormwater Improvements**

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

	Engineer's Post-Design Estimate	Barnhill Contracting Company	Fred Smith Company	Hatchell Concrete Inc.
Percent of Engineer's Estimate ---->	98.6%	94.0%	83.6%	
Percent of Lowest Bid ---->	117.9%	112.4%	100.0%	

Project ID: V23001

	ITEM # and DESCRIPTION	Length/ Quantity	Engineer's Post-Design Estimate			Barnhill Contracting Company			Fred Smith Company			Hatchell Concrete Inc.		
			Street & Drainage Cost	Waterline Cost	TOTAL COST	Street & Drainage Cost	Waterline Cost	TOTAL COST	Street & Drainage Cost	Waterline Cost	TOTAL COST	Street & Drainage Cost	Waterline Cost	TOTAL COST
	Seminole, Indian, and Apache: The project includes the overlay and reconstruction of pavement storm drainage piping and grading improvements and asbestos cement pipe replacements. Concrete work will also include partial removal and construction of existing 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. Existing 6" asbestos-cement water main will be replaced with PVC pipe, including fittings, valves, fire hydrant assemblies, tie-ins of side street mains and transfer of all water services from the existing main to the new main. All areas shall include incidental clearing, pavement cuts/patch, reseeding and restoration, etc. As a general indication to prospective bidders of the size of the project, the approximate total length of pavement overlay/reconstruction is 2,100 linear feet (LF); length of water main replacement is approximately 1,600 LF; and length of stormwater pipe is approximately 2,100 LF.													
1	Base Bid (non-water)		$854,222.00		$854,222.00	$1,049,328.00		$1,049,328.00	$860,845.00		$860,845.00	$580,668.00		$580,668.00
2	Base Bid (water work)			$589,254.00	$589,254.00		$379,327.00	$379,327.00		$498,330.00	$498,330.00		$635,241.00	$635,241.00
3	Total Base Bid				$1,443,476.00			$1,428,655.00			$1,359,175.00			$1,215,909.00
4	Base Bid Silt Fence	500	$2,500.00		$2,500.00	$2,375.00		$2,375.00	$2,000.00		$2,000.00	$2,500.00		$2,500.00
5	Base Bid Watering	25	$21,500.00		$21,500.00	$15,625.00		$15,625.00	$18,125.00		$18,125.00	$8,750.00		$8,750.00
6	Total Bid				$1,467,476.00			$1,446,655.00			$1,379,300.00			$1,227,159.00

Bid Requirements Checkoff:	Engineer's Post-Design Estimate	Barnhill Contracting Company	Fred Smith Company	Hatchell Concrete 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 through #4?	✓	✓	✓	✓

Total Contract, if Awarded by BOC:	$1,467,476.00	$1,446,655.00	$1,379,300.00	$1,227,159.00

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

Engineer's Post-Design Estimate			Barnhill Contracting Company			Fred Smith Company			Hatchell Concrete Inc.		
Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total
$87,822.00	$58,925.00	$146,747.00	$106,733.00	$37,933.00	$144,666.00	$88,097.00	$49,833.00	$137,930.00	$59,192.00	$63,524.00	$122,716.00

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

Engineer's Post-Design Estimate			Barnhill Contracting Company			Fred Smith Company			Hatchell Concrete Inc.		
Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total	Street & Drainage	Waterline	Total
$23,390.00	$35,650.00	$59,040.00	$23,390.00	$35,650.00	$59,040.00	$23,390.00	$35,650.00	$59,040.00	$23,390.00	$35,650.00	$59,040.00

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

Seminole, Indian, and Apache Water and Stormwater Improvements	Engineer's Post-Design Estimate			Barnhill Contracting Company			Fred Smith Company			Hatchell Concrete Inc.		
	Street & Drainage Cost	Water Cost	TOTAL COST	Street & Drainage Cost	Water Cost	TOTAL COST	Street & Drainage Cost	Water Cost	TOTAL COST	Street & Drainage Cost	Water Cost	TOTAL COST
	$989,434.00	$683,829.00	$1,673,263.00	$1,197,451.00	$452,910.00	$1,650,361.00	$992,457.00	$583,813.00	$1,576,270.00	$674,500.00	$734,415.00	$1,408,915.00
Total Bid, all costs	$1,673,263.00			$1,650,361.00			$1,576,270.00			$1,408,915.00		

Tabulation of Bids Received at: **11 a.m. on Thursday, April 20, 2023** by the Town of Kill Devil Hills, North Carolina

Project: **2023-24 Project: Seminole, Indian, and Apache Water and Stormwater Improvements**

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

Project ID: V23001

Item #	Description			Unit	Engineer's Post-Design Estimate	Barnhill Contracting Company	Fred Smith Company	Hatchell Concrete Inc.	
					Unit Price	Unit Price	Unit Price	Unit Price	
1	Concrete Curb & Gutter, 24" / 50 (1.5 x this price to Remove & Replace			per LF	$60.00	$64.00	$50.00	$45.00	$53.00
2	Concrete Curb & Gutter, 30" / 50 (1.5 x this price to Remove & Replace			per LF	$70.00	$87.00	$60.00	$47.00	$64.67
3	Concrete Curb, 6" / 50 (1.5 x this price to Remove & Replace			per LF	$50.00	$53.00	$40.00	$45.00	$46.00
4	Asphalt Base Course, Type B25.0B, in place / 50			per TON	$280.00	$335.00	$225.00	$14.50	$191.50
5	Asphalt Intermediate Course, Type I19.0B, in place / 50			per TON	$280.00	$415.00	$185.00	$578.00	$392.67
6	Asphalt Surface Course, Type SF9.5A, in place / 50			per TON	$280.00	$225.00	$185.00	$287.00	$232.33
7	Cut out and patch, designated failed areas of existing pavement with 3" thick (min.) I19.0E or SF9.5A, per Spot Patch Repair Detail, C-502 (field-measured) / 50			per SY	$120.00	$145.00	$150.00	$287.00	$194.00
8	Same as 7 above, except where Engineer determins heavier section is needed. Increase I19.0B to 5", installed in one lift. / 50			per SY	$160.00	$192.00	$195.00	$58.00	$148.33
9	Aggregate Base Course (ABC) Stone, in place / 50			per TON	$90.00	$92.00	$85.00	$65.00	$80.67
10	Clearing / 0.1			per ACRE	$30,000.00	$21,000.00	$25,000.00	$3,500.00	$16,500.00
11	Select Fill, in place / 50			per CY	$36.00	$45.00	$40.00	$25.00	$36.67
12	Concrete Driveway REMOVAL / 200			per SF	$4.00	$3.50	$4.50	$9.00	$5.67
13	Concrete Driveway REPLACEMENT – Regular / 200			per SF	$12.00	$13.00	$12.50	$10.00	$11.83
14	Concrete Driveway REPLACEMENT –Exposed Aggregate / 200			per SF	$14.00	$17.00	$20.00	$12.00	$16.33
15	Seeding & Mulching, watered and maintained until full establishment of grass			per SF	$0.20	$0.09	$0.15	$0.35	$0.20
16	Sod, Centipede or Bermuda, in place, watered and maintained until fully established, quantity per installation....	16	Base Quantity 40	per SY	$40.00	$9.00	$20.00	$5.00	$11.33
17		17	Base Quantity 160	per SY	$16.00	$9.00	$10.00	$5.00	$8.00
18	Excelsior Matting, installed / 100			per SY	$8.00	$3.00	$4.00	$2.00	$3.00
19	Unsuitable Soil Material, Excavation, Removal and Disposal / 100			per CY	$30.00	$44.00	$30.00	$30.00	$34.67
20	Class "A" Rip-Rap, in place / 4			per TON	$200.00	$155.00	$250.00	$95.00	$166.67
21	Class "B" Rip-Rap, in place / 4			per TON	$200.00	$155.00	$250.00	$95.00	$166.67
22	2" Schedule 80 PVC Water Main / 100			per LF	$48.00	$33.00	$30.00	$20.00	$27.67
23	6" PVC Water Main / 100			per LF	$70.00	$63.00	$45.00	$40.00	$49.33
24	8" PVC Water Main / 100			per LF	$104.00	$88.00	$63.00	$49.00	$66.67
25	4" DI Water Main (incl. adapters & reducesrs to 2" Sch 80 PVC) / 100			per LF	$100.00	$96.00	$64.00	$84.00	$81.33
26	6" DI Water Main / 100			per LF	$120.00	$100.00	$78.00	$59.00	$79.00
27	8" DI Water Main / 100			per LF	$140.00	$135.00	$100.00	$75.00	$103.33
28	Fire Hydrant Assembly (incl. 6" pipe, 6" GV, tee) / 2			per LF	$10,000.00	$11,550.00	$10,000.00	$8,300.00	$9,950.00
29	2" Ball Valve / 2			per EACH	$2,000.00	$1,550.00	$1,500.00	$1,000.00	$1,350.00
30	6" Gate Valve / 2			per EACH	$4,000.00	$2,900.00	$2,500.00	$1,500.00	$2,300.00
31	8" Gate Valve / 2			per EACH	$6,000.00	$3,630.00	$3,000.00	$2,100.00	$2,910.00
32	Connection to Existing 6" Water Main / 2			per EACH	$5,000.00	$3,000.00	$4,000.00	$3,500.00	$3,500.00
33	Connection to Existing 8" Water Main / 2			per EACH	$7,000.00	$3,300.00	$5,000.00	$4,700.00	$4,333.33
34	New Residential Water Service, w/sleeve on new or existing Water Line, installed / 2			per EACH	$3,000.00	$2,900.00	$3,800.00	$3,800.00	$3,500.00
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 / 2	per EACH	$4,000.00	$2,860.00	$4,000.00	$3,800.00	$3,553.33
36		36	3" WM or SFM / 2	per EACH	$6,000.00	$7,200.00	$25,000.00	$28,000.00	$20,066.67
37		37	4" WM or SFM / 2	per EACH	$12,000.00	$7,200.00	$15,000.00	$15,000.00	$12,400.00
38		38	6" WM or SFM / 2	per EACH	$16,000.00	$9,600.00	$15,000.00	$15,500.00	$13,366.67
39		39	8" WM or SFM / 2	per EACH	$20,000.00	$11,700.00	$25,000.00	$23,000.00	$19,900.00
40	12" HDPE, "N-12" culvert/storm drain, installed / 80			per LF	$70.00	$61.00	$55.00	$35.00	$50.33
41	15" HDPE, "N-12" culvert/storm drain, installed / 80			per LF	$80.00	$71.00	$65.00	$42.00	$59.33
42	18" HDPE, "N-12" culvert/storm drain, installed / 80			per LF	$96.00	$90.00	$80.00	$50.00	$73.33
43	24" HDPE, "N-12" culvert/storm drain, installed / 80			per LF	$130.00	$133.00	$100.00	$70.00	$101.00
44	12" HDPE, "N-12" sock drain culvert/storm drain, installed / 80			per LF	$132.00	$69.00	$65.00	$35.00	$56.33
45	15" HDPE, "N-12" sock drain culvert/storm drain, installed / 80			per LF	$134.00	$84.00	$75.00	$40.00	$66.33
46	18" HDPE, "N-12" sock drain culvert/storm drain, installed / 80			per LF	$136.00	$111.00	$100.00	$45.00	$85.33
47	24" HDPE, "N-12" sock drain culvert/storm drain, installed / 80			per LF	$138.00	$170.00	$150.00	$70.00	$130.00
48	Remove and Dispose of existing 12", 15" or 18" Pipe (any type) / 80			per LF	$40.00	$23.00	$25.00	$20.00	$22.67
49	Repair Existing Drainage Structure, 1 or 2 connecting pipe / 2			per EACH	$3,000.00	$1,725.00	$2,000.00	$2,000.00	$1,908.33
50	Repair Existing Drainage Structure, more than 2 connecting pipes / 2			per EACH	$4,000.00	$2,000.00	$3,500.00	$3,500.00	$3,000.00
51	Removal of Existing Storm Structures / 2			per EACH	$1,600.00	$1,725.00	$2,000.00	$2,500.00	$2,075.00
52	New Standard Drop Inlet, precast, with boots for all pipe connections / 2			per EACH	$5,000.00	$5,117.00	$4,000.00	$2,700.00	$3,939.00
53	Construct New Standard Drop Inlet, precast, with boots for all pipe connections / 2			per EACH	$5,000.00	$5,300.00	$5,000.00	$4,900.00	$5,066.67
	Grade, seed, fertilize, mulch & water new roadside swale, until vegetation is fully established, average depth:	54	Less than 1' / 200	per LF	$20.00	$21.00	$30.00	$50.00	$33.67
		55	1' to 2' / 200	per LF	$30.00	$21.00	$45.00	$50.00	$38.67
	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 56 and 57 shall not be more than triple and double, respectively, of Item 58.	56	Base Quantity 75	per LF	$20.00	$4.75	$10.00	$6.00	$8.92
		57	Base Quantity 500	per LF	$16.00	$4.75	$6.50	$6.00	$5.75
		58	Base Quantity 1,200	per LF	$12.00	$4.75	$4.00	$6.00	$4.92
59	Watering, in full accordance with Sec. 3.13.E.1.d) of Technical Specifications / 30 NOTE: This Unity Price shall be for one day of Watering for the Seminole Street, Indian Drive, and Apache Street Project			per DAY	$800.00	$625.00	$725.00	$350.00	$566.67

Tabulation of Bids Received at: 11 a.m. on Thursday, April 20, 2023 by the Town of Kill Devil Hills, North Carolina

Project: **2023-24 Project: Seminole, Indian, and Apache Water and Stormwater Improvements**

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

Project ID: V23001

Item #	Description			Unit	Engineer's Post-Design Estimate Unit Price	Barnhill Contracting Company Unit Price	Fred Smith Company Unit Price	Hatchell Concrete Inc. Unit Price	
1	Concrete Curb & Gutter, 24" / 50 (1.5 x this price to Remove & Replace			per LF	$60.00	$64.00	$50.00	$45.00	$53.00
2	Concrete Curb & Gutter, 30" / 50 (1.5 x this price to Remove & Replace			per LF	$70.00	$87.00	$60.00	$47.00	$64.67
3	Concrete Curb, 6" / 50 (1.5 x this price to Remove & Replace			per LF	$50.00	$53.00	$40.00	$45.00	$46.00
4	Asphalt Base Course, Type B25.0B, in place / 50			per TON	$280.00	$335.00	$225.00	$14.50	$191.50
5	Asphalt Intermediate Course, Type I19.0B, in place / 50			per TON	$280.00	$415.00	$185.00	$578.00	$392.67
6	Asphalt Surface Course, Type SF9.5A, in place / 50			per TON	$280.00	$225.00	$185.00	$287.00	$232.33
7	Cut out and patch, designated failed areas of existing pavement with 3" thick (min.) I19.0E or SF9.5A, per Spot Patch Repair Detail, C-502 (field-measured) / 50			per SY	$120.00	$145.00	$150.00	$287.00	$194.00
8	Same as 7 above, except where Engineer determins heavier section is needed. Increase I19.0B to 5", installed in one lift. / 50			per SY	$160.00	$192.00	$195.00	$58.00	$148.33
9	Aggregate Base Course (ABC) Stone, in place / 50			per TON	$90.00	$92.00	$85.00	$65.00	$80.67
10	Clearing / 0.1			per ACRE	$30,000.00	$21,000.00	$25,000.00	$3,500.00	$16,500.00
11	Select Fill, in place / 50			per CY	$36.00	$45.00	$40.00	$25.00	$36.67
12	Concrete Driveway REMOVAL / 200			per SF	$4.00	$3.50	$4.50	$9.00	$5.67
13	Concrete Driveway REPLACEMENT – Regular / 200			per SF	$12.00	$13.00	$12.50	$10.00	$11.83
14	Concrete Driveway REPLACEMENT –Exposed Aggregate / 200			per SF	$14.00	$17.00	$20.00	$12.00	$16.33
15	Seeding & Mulching, watered and maintained until full establishment of grass			per SF	$0.20	$0.09	$0.15	$0.35	$0.20
16	Sod, Centipede or Bermuda, in place, watered and maintained until fully established, quantity per installation....	16	Base Quantity 40	per SY	$40.00	$9.00	$20.00	$5.00	$11.33
17		17	Base Quantity 160	per SY	$16.00	$9.00	$10.00	$5.00	$8.00
18	Excelsior Matting, installed / 100			per SY	$8.00	$3.00	$4.00	$2.00	$3.00
19	Unsuitable Soil Material, Excavation, Removal and Disposal / 100			per CY	$30.00	$44.00	$30.00	$30.00	$34.67
20	Class "A" Rip-Rap, in place / 4			per TON	$200.00	$155.00	$250.00	$95.00	$166.67
21	Class "B" Rip-Rap, in place / 4			per TON	$200.00	$155.00	$250.00	$95.00	$166.67
22	2" Schedule 80 PVC Water Main / 100			per LF	$48.00	$33.00	$30.00	$20.00	$27.67
23	6" PVC Water Main / 100			per LF	$70.00	$63.00	$45.00	$40.00	$49.33
24	8" PVC Water Main / 100			per LF	$104.00	$88.00	$63.00	$49.00	$66.67
25	4" DI Water Main (incl. adapters & reducesrs to 2" Sch 80 PVC) / 100			per LF	$100.00	$96.00	$64.00	$84.00	$81.33
26	6" DI Water Main / 100			per LF	$120.00	$100.00	$78.00	$59.00	$79.00
27	8" DI Water Main / 100			per LF	$140.00	$135.00	$100.00	$75.00	$103.33
28	Fire Hydrant Assembly (incl. 6" pipe, 6" GV, tee) / 2			per LF	$10,000.00	$11,550.00	$10,000.00	$8,300.00	$9,950.00
29	2" Ball Valve / 2			per EACH	$2,000.00	$1,550.00	$1,500.00	$1,000.00	$1,350.00
30	6" Gate Valve / 2			per EACH	$4,000.00	$2,900.00	$2,500.00	$1,500.00	$2,300.00
31	8" Gate Valve / 2			per EACH	$6,000.00	$3,630.00	$3,000.00	$2,100.00	$2,910.00
32	Connection to Existing 6" Water Main / 2			per EACH	$5,000.00	$3,000.00	$4,000.00	$3,500.00	$3,500.00
33	Connection to Existing 8" Water Main / 2			per EACH	$7,000.00	$3,300.00	$5,000.00	$4,700.00	$4,333.33
34	New Residential Water Service, w/sleeve on new or existing Water Line, installed / 2			per EACH	$3,000.00	$2,900.00	$3,800.00	$3,800.00	$3,500.00
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 / 2	per EACH	$4,000.00	$2,860.00	$4,000.00	$3,800.00	$3,553.33
36		36	3" WM or SFM / 2	per EACH	$6,000.00	$7,200.00	$25,000.00	$28,000.00	$20,066.67
37		37	4" WM or SFM / 2	per EACH	$12,000.00	$7,200.00	$15,000.00	$15,000.00	$12,400.00
38		38	6" WM or SFM / 2	per EACH	$16,000.00	$9,600.00	$15,000.00	$15,500.00	$13,366.67
39		39	8" WM or SFM / 2	per EACH	$20,000.00	$11,700.00	$25,000.00	$23,000.00	$19,900.00
40	12" HDPE, "N-12" culvert/storm drain, installed / 80			per LF	$70.00	$61.00	$55.00	$35.00	$50.33
41	15" HDPE, "N-12" culvert/storm drain, installed / 80			per LF	$80.00	$71.00	$65.00	$42.00	$59.33
42	18" HDPE, "N-12" culvert/storm drain, installed / 80			per LF	$96.00	$90.00	$80.00	$50.00	$73.33
43	24" HDPE, "N-12" culvert/storm drain, installed / 80			per LF	$130.00	$133.00	$100.00	$70.00	$101.00
44	12" HDPE, "N-12" sock drain culvert/storm drain, installed / 80			per LF	$132.00	$69.00	$65.00	$35.00	$56.33
45	15" HDPE, "N-12" sock drain culvert/storm drain, installed / 80			per LF	$134.00	$84.00	$75.00	$40.00	$66.33
46	18" HDPE, "N-12" sock drain culvert/storm drain, installed / 80			per LF	$136.00	$111.00	$100.00	$45.00	$85.33
47	24" HDPE, "N-12" sock drain culvert/storm drain, installed / 80			per LF	$138.00	$170.00	$150.00	$70.00	$130.00
48	Remove and Dispose of existing 12", 15" or 18" Pipe (any type) / 80			per LF	$40.00	$23.00	$25.00	$20.00	$22.67
49	Repair Existing Drainage Structure, 1 or 2 connecting pipe / 2			per EACH	$3,000.00	$1,725.00	$2,000.00	$2,000.00	$1,908.33
50	Repair Existing Drainage Structure, more than 2 connecting pipes / 2			per EACH	$4,000.00	$2,000.00	$3,500.00	$3,500.00	$3,000.00
51	Removal of Existing Storm Structures / 2			per EACH	$1,600.00	$1,725.00	$2,000.00	$2,500.00	$2,075.00
52	New Standard Drop Inlet, precast, with boots for all pipe connections / 2			per EACH	$5,000.00	$5,117.00	$4,000.00	$2,700.00	$3,939.00
53	Construct New Standard Drop Inlet, precast, with boots for all pipe connections / 2			per EACH	$5,000.00	$5,300.00	$5,000.00	$4,900.00	$5,066.67
	Grade, seed, fertilize, mulch & water new roadside swale, until vegetation is fully established, average depth:	54	Less than 1' / 200	per LF	$20.00	$21.00	$30.00	$50.00	$33.67
		55	1' to 2' / 200	per LF	$30.00	$21.00	$45.00	$50.00	$38.67
	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 56 and 57 shall not be more than triple and double, respectively, of Item 58.	56	Base Quantity 75	per LF	$20.00	$4.75	$10.00	$6.00	$6.92
		57	Base Quantity 500	per LF	$16.00	$4.75	$6.50	$6.00	$5.75
		58	Base Quantity 1,200	per LF	$12.00	$4.75	$4.00	$6.00	$4.92
59	Watering, in full accordance with Sec. 3.13.E.1.d) of Technical Specifications / 30 NOTE: This Unity Price shall be for one day of Watering for the Seminole Street, Indian Drive, and Apache Street Project			per DAY	$800.00	$625.00	$725.00	$350.00	$566.67

April 27, 2023

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: **V23001 – Kill Devil Hills Fall 2023-24 Projects: SEMINOLE, INDIAN, AND APACHE CONSTRUCTION PHASE SERVICES**

Dear Mr. Albright:

American Engineering is pleased to provide this proposal for services during the Construction Phase of this project.

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

Administrative tasks to assist with contract execution including review of contractor submittal reviews for conformance to the Contract Documents; review of proposed construction change orders; field engineering oversight; attendance of bi-weekly construction progress meetings; and review of contractors' applications for payment; and preparation of Construction Record Drawings. We have estimated four (4) submittal reviews, including one resubmittal each and four (4) change order reviews.

Field survey tasks to include setting survey control; providing construction survey stakeout; and as-built surveys of storm drainage structures and other key elevations.

Should the Contractor require for us to re-establish already-completed survey stakeout at the site, he will be required to enter into a separate contract with American Engineering to complete these services.

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

The field inspection program we propose will include:

- An average of 1.5 hours in site visits per week (1-2 brief visits)
- An average of two 1-2-hour, on-site visits for a major meeting or unscheduled walk-through. It is anticipated that this will happen once every 2 months.
- Substantial Completion and Final Completion Walkthrough inspections.

Per the Contract Documents, this contract is expected to be awarded in late May 2023, with construction starting in early September 2023. Based on the Contract Documents, the construction duration for this contract is 5 months. The inspection program above will average out to about 2 hours per week, with a few skipped weeks for holiday or bad weather periods.

2022/23 Projects: Durham, Croatan, and Fifth			
Staff Classification	**Hours**	**Rate per Hour**	**Extension**
Senior Consultant (W. P. Burkhimer, Jr.)	60	$190.00	$11,400.00
Senior Project Engineer (Patrick Lewis)	48	$155.00	$7,440.00
Project Engineer (Emily Zeltmann)	144	$130.00	$17,160.00
CADD Operator (Hooten/Mills)	48	$ 90.00	$4,320.00
Licensed Surveyor	8	$160.00	$1,280.00
Survey Party Chief w/Robotic Instrument	100	$125.00	$12,500.00
Engineering Technician (Frye)	40	$95.00	$3,800.00
Clerical	10	$60.00	$600.00
Reimbursables for Reproduction			$540.00
Lump Sum Fees:			**$59,040.00**
Water Portion: $35,650.00		Street & Drainage Portion: $23,390.00	

Work not covered within the scope outlined above shall be performed at our hourly rates, which are listed below. The following hourly rates will govern all work through the period of this proposal (through June 30, 2024, 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	**$155.00**
Project Engineer	**$130.00**
Engineering or Surveying Technician	**$95.00**
4 Person Survey Party	**$165.00**
3 Person Survey Party	**$150.00**
2 Person Survey Party/Party Chief w/Robotic Instrument	**$125.00**
CADD Operator	**$90.00**
Other Project Representative	$50.00
Clerical	**$60.00**

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 when 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)	$0.655 / 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 will be prepared at our hourly rates. Recipients other than the Town of Kill Devil Hills and their construction contractor will be required to sign a release to receive drawing files.

We propose to perform this work subject to the terms and conditions set forth in our General Services contract with the Town of Kill Devil Hills, dated July 1, 2022 and the rates listed above.

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.

Patrick W. Lewis, P.E., ENV SP
Senior Project Engineer

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

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Cc: Mr. Michael O'Dell, 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: _____