



*ENGINEERED
ENVIRONMENTAL
SOLUTIONS,
INC.*

October 10, 2019

Shawn Ouellette, P.G.
Sci.Geologist IV.
Tetra Tech
759 S. Federal Hwy.,
Stuart, FL 34994-2936

**RE: Proposal –Excavation, T&D and Backfilling
College Road Apartments
5224 College Road
Key West, FL**

Dear Mr. Ouellette:

Engineered Environmental Solutions, Inc. (EESI) is pleased to provide you with this proposal to provide environmental services at the above referenced site. It is our understanding that a 3500-ft by 4-ft area of impacted soil will be excavated. EESI is a qualified Professional Engineering, Pollutant Storage Specialty Contractor, and General Contractor.

SCOPE OF WORK

EESI's scope of services includes the following:

- Project management including procurement, scheduling, budgeting, health and safety, on-site meetings, etc.
- EESI spoke with Albi Balliu, Sr Proj Mgr of Engineering of the City of Key West, she stated that no permitting with the City of Key West will be required for this excavation.
- Underground utility locate with Florida One Call.
- Obtain 2 backfill samples (for sand) from Quarry for laboratory analysis up to 3 weeks prior to mobilization. Laboratory analysis will be provided to Tetrattech.
- Install up to 300-LF of silt fencing will be installed along the western and southern boundaries of the fencing that surrounds the work area.
- Mobilize 500-gallon poly tank and 2" trash pump to the site with hose. It is assumed that the tank can be staged adjacent to the excavation area and can be filled by onsite water source that is located within 100-ft. Water will be sprayed over work area as needed for dust control.
- Remove and stockpile onsite the remaining ~150SF of concrete and ~1400 SF of asphalt. It is assumed that it will be disposed of by others.
- Excavate and stockpile an area of impacted soil measuring 3,500 Square feet by 4-ft deep. Perimeter of excavation will be sloped. Wet soil will be stockpiled adjacent to excavation for drainage back into the excavation.

- Load out petroleum impacted soil into dumptrucks for disposal at WM Medley Landfill. 21-ton minimums will be charged per truck.
- Backfill will be brought in during the loading out period and it is assumed that if this occurs simultaneously with excavation, there will be an area where clean backfill can be stockpiled.
- Backfill the excavation with 57-stone to top the water table, top with non-woven geotextile filter fabric. Please note, actual tonnage of 57-stone utilized will be charged.
- Backfill the remainder of the excavation with clean sand in 1-ft lifts. A vibratory roller will be utilized for compaction. Density test of final lift will be performed.

COSTS:

Mobilization/Demobilization	.	.	.	.	.	.	\$8,660.00
Site Preparation	.	.	.	.	.	.	\$8,334.00
Demo and Stockpiling of Pavement	.	.	.	.	.	.	\$3,000.00
Soil Excavation and Loading	.	.	.	.	.	.	\$24,556.00
Soil Transport -Minimum 21 ton Loads (925 tons @ \$31.80/ton)	.	.	.	.	.	.	\$29,415.00
Soil Disposal (925 tons @ 41.40/ton)	.	.	.	.	.	.	\$38,295.00
WM Env Charge (44 loads @\$28.80/Load)	.	.	.	.	.	.	\$1,267.20
WM Waste Profile	.	.	.	.	.	.	\$60.00
WM Manifests	.	.	.	.	.	.	\$100.00
Backfill Testing (2@ \$1,400.00)	.	.	.	.	.	.	\$2,800.00
Backfill and Compaction	.	.	.	.	.	.	\$24,391.00
Sand Backfill (600tons @26.40/ton)	.	.	.	.	.	.	\$15,840.00
57 Stone Backfill (200 tons @ 40.56/ton).	.	.	.	.	.	.	\$8,112.00
Density Testing	.	.	.	.	.	.	\$500.00
Removing Site Controls	.	.	.	.	.	.	\$2,550.00
						TOTAL	\$167,880.20

PAYMENT TERMS:

30 Days

SCHEDULE: 13 WORKING DAYS ONSITE

ASSUMPTIONS & NOTES:

1. EESI shall not be responsible for damage to any underground utilities NOT located by the owner or CALL SUNSHINE by our excavation activities.
2. EESI assumes all materials to be non-hazardous.
3. No Permitting of any kind is included in this proposal.
4. EESI assumes that Tetra Tech will provide all required laboratory analyticals for waste acceptance by WM
5. T&D pricing above is based on the waste being non-hazardous and being accepted for disposal by WM.
6. All work will take place during normal working hours.

7. Costs are based on the quantities specified. Additional costs may be incurred if the quantities exceed these estimates. Backfill, and T&D rates to be billed based on actual quantities, with respective minimums applying for transportation.
8. No liquids T&D is included in this proposal.

Should you have any questions, please call me at 561-721-0062 or on my cell at 954-410-2028. We look forward to working with you on this project.

Sincerely,
ENGINEERED ENVIRONMENTAL SOLUTIONS, Inc.



Erika Rockett
Project Manager

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