



August 28, 2024

South Carolina Office of Resilience
632 Rosewood Dr
Columbia, SC 29201

Attn: Smantha Brooks
Email: Samantha.Brooks@scor.sc.gov

Re: Proposal for Materials Testing Services
City of North Myrtle Beach - 18th Ave N Outfall Landward Drain
North Myrtle Beach, South Carolina
Terracon Proposal Number: PER241125

Ms. Smantha Brooks

Terracon Consultants, Inc. (Terracon) appreciates the opportunity to submit this proposal for the construction materials testing and special inspection services during the construction phase of the above referenced project.

1.0 PROJECT INFORMATION

Our Scope of Services is based on our understanding of the project as described by information provided by Smantha Brooks with South Carolina Office of Resilience

Item	Description
Information Provided	Civil Plans dated 2/1/2024 Project Specification dated August 2023
Location	18 th Ave North North Myrtle Beach, SC
Description	The proposed project consists of the installation of stormwater pipe and reconstruction of the roadway.

2.0 SCOPE OF SERVICES

Material Testing Services

The requested inspection and testing services for this project will be conducted by Terracon in accordance with the recommendations and requirements offered by the project contract



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documents, SDCOT standards and specifications, and the applicable ASTM testing and material standards, as well as other applicable referenced standards.

We understand our scope of services for this project will include observations and/or testing of the following areas of construction:

- Roadway Construction
- Project Administration and Reporting

2.1 Roadway Construction

- Terracon will observe proofrolling of final subgrade and base course elevations.
- Bulk samples of proposed subgrade soils and base course will be collected, and laboratory tested. Reports will be issued indicating the materials maximum dry density and optimum moisture content for compaction in accordance with modified proctor test methods for subgrade soils and modified proctor test methods for base course.
- Evaluation of in-place density (compaction testing) within roadway right of way, at the specified frequency, to determine if the in-place dry density of the compacted fill material and base course complies with the project specifications.
- Provide concrete testing of pavements and site concrete as listed:
 - Review concrete batch delivery tickets to verify that the correct mix is used.
 - Observe concrete placement to verify proper application techniques.
 - For concrete curbing, obtain composite samples, mold sets of 5-cylinder samples (4" x 8") for compressive strength testing, and perform tests on fresh concrete for mix temperature, slump, and air content¹ (and unit weight, when applicable) when cylinders are made. Additional cylinders will only be made upon request at an increase to our budget estimate per the included fee schedule.
 - After initial curing, we will transport the cylinders to the laboratory for final moist curing and compressive strength testing. We propose the following ages for compressive strength testing (1 at 7 days, 3 at 28 days and hold 1 in reserve).
 - Observe hot and/or cold weather concrete protective measures for general conformance to ACI 305 and 306.
- Evaluation of in-place density (compaction testing) within asphalt paved areas, to determine if the in-place density of the compacted asphalt material complies with the project specifications utilizing a nuclear gauge, and cores will be extracted from the mat and tested for density.

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- A Senior Engineer will review the project drawings and specifications, attend pre-construction meetings when requested, and have availability to visit the site to address soil-related problems that may arise.

2.2 Project Administration and Reporting

Employee safety is a core value of Terracon and we are committed to achieving a zero-incident workplace. Terracon will dedicate the time, resources and equipment necessary to achieve a zero-incident environment, and no employee will be required to work in unsafe conditions. Terracon employs a full-time Safety and Health Department whose sole responsibility is to administer and refine the Terracon safety program. Safety is a priority in the management of our business, and all employees are expected to perform their job assignments with maintaining an incident and injury free environment as our primary objective. Prior to initiating any work on the site, we would appreciate the opportunity to meet with the site safety officer and coordinate our activities. Furthermore, we would like to be included in any onsite “tool box talk” safety briefings.

We will designate a Project Engineer/Manager to oversee our scope of work for the project and review laboratory and field tests and reports. A Senior Engineer/Manager will be available to provide oversight and technical review, if required.

We plan to utilize our proprietary software, CMELMS™ (Construction Materials Engineering Laboratory Management System) and laptop PCs equipped with wireless communication technology to get the testing and inspection information to all parties as quickly as possible, in real-time. As a result, we are able to provide timely reporting of test results and field observations.

After review by the Terracon Project Engineer/Manager, electronic copies of final field reports will be distributed to the personnel designated by the client. Laboratory test results are available within 24 hours of test completion and reports can be transmitted the following business day upon request.

We request a copy of the current/revised drawings, details, and specifications, and any other clarifying or modifying communication that affect our portion of the work. We would also like the opportunity to attend pre-construction and periodic project meetings during which issues related to our scope of work may be discussed.

Non-compliant tests or observations will be promptly reported to contractor personnel so corrective action can be taken and documented. Pre-designated project team members can be contacted following any uncorrected discrepancy or failing test, if requested.

Our services will be performed on an as-requested basis with scheduling by an authorized client representative or contractor field personnel. We request our services be scheduled a minimum of one working day in advance and two working days prior to the commencement of each category of activities. All requests for periodic services should be submitted to our direct scheduling phone (843-286-2500) between 8:00am and 5:00pm, Monday through Friday. Messages left on the scheduling line or sent to our dispatch email address outside of these hours on weekdays or on Saturday, Sunday and Holidays will be received the next business day

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3.0 TERMS

3.1 Compensation

Based on our review of the project drawings and the specifications, Terracon has estimated the following budgets to provide material testing, special inspection, and engineering services as detailed in this proposal. A detailed budget estimate for Terracon's services for this project is attached. Based upon our experience with other similar local projects, we estimate the following cost for our services.

Item	Budget Estimate
Material Testing and SWPPP Services	\$56,890.00

3.2 Assumptions

For billing purposes, Terracon assumes that:

- Your designated scheduling representative will make good effort to provide clear notification to Terracon at least 24 hours prior to the desired on-site arrival time of our technicians to perform the requested inspection / testing services (this is so we may schedule qualified personnel trained in the appropriate discipline), and
- The material(s) requested to be inspected / tested are actually ready to be inspected / tested upon our technician's arrival to the site (this is to eliminate / reduce any standby / equipment delay / etc. charges which could be incurred if the materials requested to be inspected / tested are, in fact, not ready for such upon our technician's arrival to the site).

Please note that **we will only be on-site as you or your representative schedule our services**, and as our cost for services are most dependent on the contractor's schedule, our costs may vary accordingly. **Terracon understands at this time a construction schedule for this project has not been developed. Once a construction schedule is generated, Terracon requests the opportunity to review the schedule to ensure the estimated budget allots enough units for the services listed in scope listed in Section 2.0 and detailed in the attached budget estimate.** All additional services outside of the scope listed in Section 2.0 and detailed in the attached budget estimate of this proposal will be billed according to the respective unit rates established in the cost estimate.

If you believe we need to increase or decrease our scope of services / trip frequency please notify us so we can make the appropriate changes. Our fees include all anticipated charges for mileage, travel, equipment, personnel, etc. for the anticipated scope of services. Terracon will provide you with monthly invoices for approval of payment.

3.3 Exclusions

Unless arrangements are made to perform the work in a different manner, the responsibility of our field personnel will consist of making observations, performing tests, and then reporting their

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findings to an authorized person such as the site superintendent for appropriate action. If substandard work is being performed or if materials of inferior quality are being used, it will be the responsibility of your authorized person to have these conditions corrected. Should it be possible to correct such conditions amicably on the basis of oral recommendations by our technician, it can be done in this manner. However, if it becomes necessary to reject material or to discontinue the work, we expect that someone other than our personnel make such decisions.

Client shall secure all necessary site related approvals, permits, licenses, and consents necessary to commence and complete the Services and will execute any necessary site access agreement. Consultant will be responsible for supervision and site safety measures for its own employees but shall not be responsible for the supervision or health and safety precautions for any third parties, including Client’s contractors, subcontractors, or other parties present at the site. In addition, Consultant retains the right to stop work without penalty at any time Consultant believes it is in the best interests of Consultant’s employees or subcontractors to do so in order to reduce the risk of exposure to the coronavirus. Client agrees it will respond quickly to all requests for information made by Consultant related to Consultant’s pre-task planning and risk assessment processes. Client acknowledges its responsibility for notifying Consultant of any circumstances that present a risk of exposure to the coronavirus or individuals who have tested positive for COVID-19 or are self-quarantining due to exhibiting symptoms associated with the coronavirus.

3.4 Authorization

Please indicate your acceptance of this proposal if the project is awarded. Upon receipt of the executed Agreement for Services, Terracon will proceed with our professional services for this project as detailed in this proposal.

We appreciate the opportunity to provide this proposal and look forward to continuing to work with you on this project

Sincerely,

Terracon Consultants, Inc.

Handwritten signature of Nathaniel Tracy in black ink.

Nathaniel Tracy

Office Manager

Handwritten signature of Chris Wollard in blue ink.

Chris Wollard
Project Manager

Attachments: Detailed Budget Estimate for Inspections and Testing Services
State Contract Rates

Proposal for Materials Testing and Inspection Services

City of North Myrtle Beach - 18th Ave N Outfall Landward Drain ■ North Myrtle Beach, SC
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EXHIBIT C - FEE ESTIMATE

Materials Testing and Inspection Services

City of North Myrtle Beach - 18th Ave N Outfall Landward Drain ■ North Myrtle Beach, SC
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SERVICES	UNIT RATES			QTY	TOTAL
2.1 Roadway Construction					
Soil Inspection (00013)					
Subgrade Observations and Density Testing, and Sampling	\$70.00 per hour	60 visits	5 hours/visit	300	\$21,000.00
Base Course Observations, Density Testing, and Sampling	\$70.00 per hour	5 visits	5 hours/visit	25	\$1,750.00
Site Concrete Field Observations, Concrete Testing and Sampling	\$70.00 per hour	15 visits	5 hours/visit	75	\$5,250.00
Concrete Sample Pick Up	\$70.00 per hour	15 visits	2.5 hour/visit	37.5	\$2,625.00
Asphaltic Concrete Observations, Density Testing, and Sampling	\$70.00 per hour	10 visit	10 hours/visit	100	\$7,000.00
Laboratory Services					
Subgrade Modified Proctor Laboratory Testing (ASTM D1557)-00033	\$155.00 each	4 proctor		4	\$620.00
Base Course Modified Proctor Laboratory Testing (ASTM D1557)-000334	\$155.00 each	2 proctor		2	\$310.00
Grain Size Test with Wash #200 Sieve (ASTM D-6913, D-1140)-00039	\$80.00 each	4 test		4	\$320.00
Atterberg Limits Test (ASTM D-4318)-00037	\$65.00 each	4 test		4	\$260.00
Nuclear Gauge Rental	\$35.00 per day	75 rentals		75	\$2,625.00
Concrete Compressive Strength-00044	\$14.00 per cyl.	15 sets	5 cys./set	75	\$1,050.00
Concrete Equipment Rental-00054	\$30.00 per day	15 rentals		15	\$450.00
Asphalt Core Rig Rental	\$200.00 per day	10 rentals		10	\$2,000.00
				Subtotal	\$45,260.00
Site Visits					
Vehicle Charge (32 miles round trip @ 0.67mile)	\$21.00 per visit	105 visits	1 roundtrip	105	\$2,205.00
				Subtotal	\$2,205.00
2.2 Project Administration and Reporting					
Project Manager	\$100.00 per hour		75 hours	75	\$7,500.00
Clerical Support	\$55.00 per hour		35 hours	35	\$1,925.00
				Subtotal	\$9,425.00
TOTAL ESTIMATED BUDGET:					\$56,890.00

Note: This worksheet is a cost estimate based upon the above-listed hours, trips, and quantities and is not a guaranteed maximum price. Cost estimates for above mentioned testing were based on project documents. no work schedule was provided.

STATE OF SOUTH CAROLINA
SFAA, DIV. OF PROCUREMENT SERVICES, MMO
1201 MAIN STREET, SUITE 600
COLUMBIA SC 29201

Intent to Award

Posting Date: January 02, 2020



PROCUREMENT SERVICES

[Refresh](#)

Contract 4400023202

[Back to Initial Screen](#)

Validity Start **01/14/2020**

Validity End **12/15/2024**

Target Value \$ 7,868.00

FEIN 42-1249917

Bid Invitation [5400018150](#)

Contract Notes

Vendor 7000120990

Vendor Address TERRACON CONSULTANTS INC
521 CLEMSON ROAD
COLUMBIA SC 29229

District LEXINGTON

Telephone (803) 741-9000

Minority Status Not Applicable

Home Page <http://www.terracon.com>

E-mail

Fax Number

Other URL

Solicitation: 5400018150
Description: STC BUILDING INSPECTION SERVICES
Agency: Statewide Term Contract

The State intends to award contract(s) noted below. Unless otherwise suspended or canceled, this document becomes the final Statement of Award effective **January 14, 2020**. Unless otherwise provided in the solicitation, the final statement of award serves as acceptance of your offer.

Contractor should not perform work on or incur any costs associated with the contract prior to the effective date of the contract. Contractor should not perform any work prior to the receipt of a purchase order from the using governmental unit. The State assumes no liability for any expenses incurred prior to the effective date of the contract and issuance of a purchase order.

CERTIFICATES OF INSURANCE COVERAGE TO BE FURNISHED PRIOR TO COMMENCEMENT OF SERVICES UNDER CONTRACT.

If you are aggrieved in connection with the award of the contract, you may be entitled to protest, but only as provided in Section 11-35-4210. To protest an award, you must (i) submit notice of your intent to protest within seven business days of the date the award notice is posted, and (ii) submit your actual protest within fifteen days of the date the award notice is posted. Days are calculated as provided in Section 11-35-310(13). Both protests and notices of intent to protest must be in writing and must be received by the appropriate Chief Procurement Officer within the time provided. See clause entitled "Protest-CPO". The grounds of the protest and the relief requested must be set forth with enough particularity to give notice of the issues to be decided.

PROTEST - CPO ADDRESS - MMO: Any protest must be addressed to the Chief Procurement Officer, Materials Management Office,

and submitted in writing

(a) by email to protest-mmo@mmo.sc.gov, or

(b) by post or delivery to 1201 Main Street, Suite 600, Columbia, SC 29201.

NOTE: Contracts are awarded to Contractors for those services they made an offer for and were found to be responsive and responsible. In order for Contractors to provide services outside of those directly awarded, provisional contracts are established. Details for use of provisional contracts may be found in Section III.E.2 of the contract.

Contract Number: 4400023202

Awarded To: TERRACON CONSULTANTS INC (7000120990)
521 CLEMSON ROAD
COLUMBIA SC 29229

Total Potential Value: \$ 100,000.00

Initial Contract Period: January 14, 2020 through December 15, 2020

Maximum Contract Period: January 14, 2020 through December 15, 2024

Item	Description	Unit Price
00001	Project Management	\$ 100.00
00002	Clerical Support	\$ 55.00
00003	Building Inspection	\$ 75.00
00004	Plumbing Testing	\$ 75.00
00005	Electrical Inspection	\$ 75.00
00006	Mechanical Inspection	\$ 75.00
00007	Prestressed Concrete Inspection	\$ 75.00
00008	Reinforced Concrete Inspection	\$ 70.00
00009	Structural Masonry Inspection	\$ 70.00
00010	Spray-applied Fireproofing Inspection	\$ 70.00
00011	Structural Steel & Bolting Inspection	\$ 75.00
00012	Structural Steel Welding Inspection	\$ 75.00
00013	Soils Inspection	\$ 70.00
00014	Testing Technician (minimum NICET I)	\$ 55.00
00015	Testing Technician (minimum NICET II)	\$ 60.00
00016	Testing Technician (minimum NICET III)	\$ 65.00
00017	Post Tensioning Inst.(PTI) Certif. Lvl 1	\$ 70.00
00018	Post Tensioning Inst.(PTI) Certif. Lvl 2	\$ 85.00
00019	Pre-stressedConcrete Inst(PCI) Inspector	\$ 85.00
00020	PrestressedConc(PCI)Tech/Inspector Lvl 1	\$ 65.00
00021	AWS Certified Welding Inspector(CWI)	\$ 90.00
00022	AWS Cert Assoc Welding Inspector (CAWI)	\$ 65.00
00023	AWS D1.1 CertAssocWeldingInspector(CAWI)	\$ 65.00
00024	AmerSocNondestruct.Testing(ASNT)Lvl III	\$ 110.00
00025	AmerSocNondestruct.Testing(ASNT) Lvl II	\$ 90.00
00026	ACI Concrete Construction Spec.Inspector	\$ 70.00
00027	ACI Assoc Concrete Const Spec Inspector	\$ 65.00
00028	ACI Field Testing Technician, Grade I	\$ 60.00
00029	NCMA Concrete Masory Testing Proc Certif	\$ 65.00
00030	AWCI EIFS Inspector Certificate	\$ 65.00
00031	UL Firestop Certif or FM Firestop Certif	\$ 65.00
00032	Standard Proctor Test	\$ 140.00
00033	Modified Proctor Test	\$ 155.00
00034	Stone/Aggregate Density Test	\$ 155.00
00035	California Bearing Ratio Test	\$ 450.00
00036	Soil Moisture Content Test	\$ 15.00
00037	Atterberg Limits Test	\$ 65.00
00038	Wash 200 Fines Test	\$ 55.00

00039	GrainSieveAnaly w/o Hydro-Coarse or Fine	\$ 80.00
00040	Grain Sieve Analysis w/ Hydro	\$ 110.00
00041	Soil Specific Gravity Test	\$ 50.00
00042	Concrete Beam Strength Test	\$ 45.00
00043	Concrete Cores Strength Test	\$ 35.00
00044	Concrete Cylinders, Cure & Test	\$ 14.00
00045	Grout Prism Strength Test	\$ 40.00
00046	Mortar Cube Strength Test	\$ 14.00
00047	CMU Compressive Test-test on 3 specimens	\$ 160.00
00048	MasonryCompressiveTest(1 setof 3 prisms)	\$ 215.00
00049	Masonry Testing	\$ 50.00
00050	Concrete Coring Equipment	\$ 150.00
00051	PDA Pile Test Equipment	\$ 3,500.00
00052	Bolt Torque Wrench	\$ 35.00
00053	Ultrasonic Testing Equipment	\$ 45.00
00054	Nuclear Density Test Equipment (soil)	\$ 35.00

Procurement Officer



DeAna Reed-Sharpe