

DETAILED SPECIFICATIONS

SCOPE OF WORK

The work shall consist of various geotechnical and materials testing services such as subsurface boring and reporting, concrete coring and testing, sieve analysis, and compaction tests.

TESTING AND REPORTING METHODS

All tests shall be performed in strict accordance with published NYSDoT or ASTM testing procedures.

All processes or materials furnished under this contract shall be in accordance with the most recent New York State Department of Transportation specifications, which is considered to be a part of this specification. Payments shall be made for requested services or materials measured in Customary US units. The selection of bureaus, laboratories, and/or agencies for the inspection and tests of supplies, materials or equipment shall be subject to the approval of the County. Satisfactory documentary evidence that the material has passed or failed the required inspection and tests must be furnished to the County prior to the incorporation of the materials in the work.

ASPHALT PAVEMENT CORE SAMPLING AND LABORATORY TESTING

Asphalt Pavement Core Analysis shall be performed by a laboratory that conforms to the requirements of ASTM D 3666, "Specifications for Minimum Requirements for Agencies Testing and Inspecting Bituminous Paving Materials", and participates in AASHTO's Material Reference Laboratory Proficiency Sample Testing Program. The services shall generally include collection of thin wall core samples from compacted asphalt pavements in accordance with ASTM D 5361; transport of the samples to the laboratory; performance of the following tests, as required: ASTM D 3549, Thickness of Core Samples; ASTM D 2041, Theoretical Maximum Specific Gravity; ASTM D 2726, Bulk Specific Gravity; ASTM D 3203, Percent Air Voids; ASTM D 2172, Quantitative Extraction; ASTM D 136, Marshall Stability and Flow; ASTM D 1586, Absorption Recovery; and ASTM D 5, Penetration of Asphalt Cement. Prepare and distribute a report of the findings.

SOIL - IN PLACE DENSITY AND LABORATORY TESTING

Soil testing shall be performed by a laboratory that conforms to the requirements of ASTM D 3740, "Practice for Evaluation of Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction", and shall generally include collection of stockpile samples in accordance with ASTM D 75, transport of samples to the laboratory; and performance of the following tests, as required: ASTM D 2216 - Natural Moisture Content; ASTM D 422 - Particle-Size Analysis of Soils (with and without hydrometer analysis); ASTM D 1557 OR D 698 - Moisture Density Relationship of Soil-Aggregate; and ASTM D 4318 - Plasticity Index of Soils (Atterberg Limits). In-place density testing shall be conducted in conjunction with ASTM D 2922 - Density of Soil and Soil-Aggregate in Place by Nuclear Methods, and ASTM D 3017 - Water Content of Soil and Rock by Nuclear Methods.

#2023h-19 - SUBSURFACE EXPLORATION & CONSTRUCTION MATERIALS TESTING

PORTLAND CEMENT CONCRETE - FIELD AND LABORATORY TESTING

Concrete testing shall be performed by a laboratory that conforms to the requirements of ASTM C 1077, "Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation", and participates in the Cement and Concrete Laboratory Proficiency Sample Testing Program. These services shall include sampling in accordance with ASTM C 172, Sampling Freshly Mixed Concrete; ASTM C 143, Slump of Hydraulic Cement Concrete; ASTM C 231 or C 173, Air Content of Freshly Mixed technicians shall be certified ACI Field Grade I. Samples shall be transported to the Laboratory in accordance with ASTM C 31 and tested in accordance with ASTM C 39, Compressive Strength of Cylindrical Concrete Specimens. Portland cement concrete coring for bridge decks will be performed in accordance with ASTM C 42.

GEOTECHNICAL REPORTS

GeoTechnical Reports shall include Boring Location Plans derived from USGS quad sheets, or equal; soil boring logs with laboratory classifications; and a thorough narrative which defines:

- the nature of the proposed project,
- testing methods employed,
- soils encountered at each bore location,
- groundwater levels, subsurface drainage and dewatering requirements,
- the suitability of the soils to support the proposed structure,
- the allowable bearing capacity and angle of friction of the soils.
- recommended foundation types, bearing depths, and allowable loading conditions,
- scour potential of foundation soils,
- site preparation and grading recommendations,
- recommendations for the design of laterally loaded walls including lateral earth pressures,
- construction monitoring recommendation,

Two copies of all geotechnical reports and single copies of all sieve analysis, compaction, or related reports will be provided to the Engineering Supervisor in a timely fashion. Single page reports shall be transmitted within 3 work days of the completion of tests, while narrative reports shall be completed and transmitted within 15 work days of the completion of field tests.

PERFORMANCE STANDARDS

It is the responsibility of each Contractor submitting proposals for the work to provide assurance that the testing / evaluation methods to be used are capable of complying with project requirements. The attention of each Vendor submitting a proposal is directed to the portion of the project specifications which require the Vendor to demonstrate to the Engineer the ability of his crew(s) and equipment to comply with the specification requirements and to do so at a rate of production consistent with the time allowed under the contract. The attached qualification and reference outline shall be submitted by each respondent with the bid documents.

PROVISIONS FOR TRAFFIC AND PROSECUTION OF WORK

The work shall be progressed in such a manner as to allow for passage of thru traffic at all times. Access to abutting property is to be provided as necessary. Maintenance of traffic is the responsibility of Contractor, unless special provisions are made with the Owner. Basic Maintenance and Protection of Traffic shall include traffic cones and signage, IAW the MUTCD. Advance M&PT shall include cones, signage and a single flagger, IAW the MUTCD. Should more advance M&PT provisions be required, the Contractor is to coordinate with the County Superintendent of Highways.

#2023h-19 - SUBSURFACE EXPLORATION & CONSTRUCTION MATERIALS TESTING

UTILITIES

The Contractor shall contact the UFPO and respective utility companies and must be exceedingly careful not to disturb or break existing aerial or buried cables; manholes, catch basins, valve boxes and other castings which may be located below the surface.

OWNERSHIP OF DOCUMENTS, RIGHTS

All reports, documents, drawings, studies, specifications, subject data, memoranda, estimates, computations, etc. secured by and for the Contractor in the prosecution of this service, shall become and remain the County upon termination or completion of the work. The County shall have the right to use same for any public purpose without compensation to the Contractor. Reports and data shall be kept in strictest confidence and shall not be released to any other persons or agency without the express written permission of the Superintendent of Highways.

TO BE DONE BY OTHERS

The County will provide for right of entry of the employees or agents of the Contractor. The County will perform, or have performed, all clearing and grubbing, snow removal, overburden or brush removal, drainage, re-set signs, mailbox, and guard rails and divot repair as required. The Contractor shall furnish localized traffic control including barricades, warning lights, etc., as required, line and grading stakes, unless otherwise directed by Owner.

EQUIPMENT

A list of equipment to be provided for Owner's project shall be provided with the bid. All equipment must be approved by the County Highway Superintendent. The Contractor is responsible for all repair, maintenance and parts for equipment utilized for the project.

QUANTITIES ESTIMATED AND MAY VARY

Quantities given are approximate and are used solely for the purposes of determining the low gross sum bid: the actual requirement may be more or less. The Contractor certifies that he has, or they have, made a thorough site investigation and have made themselves aware of the scope of the work and of the amounts of material and labor necessary to complete the work.

NOTICE TO PROCEED AND COMPLETION TIME

The notice to the successful proposer by the issuance of a purchase order will constitute and create a contract to furnish the materials or services as set forth in the quote. Completed geotechnical reports for subsurface exploration shall be submitted within 14 calendar days. Sieve analysis and compression reports shall be reported within 16 work hours of submission of the materials. Compaction or related tests shall be reported immediately upon completion.

METHOD OF MEASUREMENT

The amount to be paid shall be for the number of tests or reports requested or, in the case of the subsurface exploration, for the number of linear feet of boring required to complete the site evaluation, in accordance with the work order or as amended by Change Order.

#2023h-19 - SUBSURFACE EXPLORATION & CONSTRUCTION MATERIALS TESTING

BASIS OF PAYMENT

The unit price bid shall include the cost of furnishing all labor, materials and equipment necessary to complete the work as specified. The quoted price per test, report, or linear foot shall include the furnishings of all materials (except as otherwise herein specified), the performing of all the labor requisite or proper, the providing of all necessary machinery, tools, apparatus and other means of evaluation, the performance of the above-mentioned work in the manner set forth, described and shown in the specifications and on the drawings for the work and in the form of contract and the completion thereof within the time limits stipulated in the agreement or work order. Payment will be made under one of several options, as outlined on the bid page.

CONTRACT PRICE ADJUSTMENTS

All prices submitted must remain firm for a period of one hundred twenty (120) days from the date of award. Beginning September 1, 2023 subsequent price adjustments will be considered by the County. All requests for price adjustments must be submitted to the County a minimum of thirty (30) days prior to the date of the requested price adjustment. The change in price structure (increase or decrease) must be based on fluctuations in the latest published Consumer Price Index (CPI) for all urban consumers, as published by the U.S. Department of Labor, Bureau of Labor Statistics which is available at <https://stats.bls.gov>.

If, during the Contract term, the awarded vendor is unable to meet contractual requirements in whole or in part based on the price structure of the contract, it shall immediately notify the County in writing. The County may, but is not required to, consider an adjustment in the contract terms and/or pricing.

Should the County in its sole discretion determine during the Contract term that the contract price structure results in prices which are unreasonable, excessive, or not truly reflective of current market conditions, and no adjustment in the contract terms and/or pricing is mutually agreeable, the County may terminate the contract through written notice to the vendor, purchase from an alternate source, or rebid the contract.

#2023h-19 - SUBSURFACE EXPLORATION & CONSTRUCTION MATERIALS TESTING

BID FORM

COMPANY NAME: _____

In Compliance with the NOTICE TO BIDDERS, the undersigned, proposes and agrees as follows:

That being duly licensed to conduct business within the State of New York, and being experienced and responsible for the performance of the same, agrees to furnish equipment with operators for work in conjunction with the Jefferson County Highway Department work forces and equipment in the reconstruction of roads and bridges at unit prices as per the specifications hereto annexed.

Quantities listed are merely for the purpose of preparing an estimate. They do not represent specific requirements for any project or series of projects. Actual quantities may vary.

	UNIT BID		TOTAL BID
A. Subsurface Exploration at Selected Locations:			
SITE WORK			
Mobilization / Demobilization (truck mount)	_____ each site	X 1 ea	_____
Mobilization / Demobilization (ATV mount)	_____ each site	X 1 ea	_____
Basic Maintenance & Protection of Traffic	_____ each site	X 1 ea	_____
Advance Maint & Protection of Traffic	_____ each site	X 1 ea	_____
Advance hollow stem augers with continuous split spoon sampling to depths requested:			
up to 50 blows per foot:	_____ lf of boring	X 200=	_____
more than 50 blows per foot:	_____ lf of boring	X 100=	_____
Advance hollow stem augers with 5' split spoon sampling to depths requested:			
up to 50 blows per foot:	_____ lf of boring	X 400=	_____
more than 50 blows per foot:	_____ lf of boring	X 200=	_____
Provide 5' rock core if rock is encountered	_____ per each	X 2 ea	_____
Flush joint casing/air wet rotary drilling. Flush joint casing should be utilized in situations:			
where borings are advanced to depths greater than 75 feet; where borings will be advanced through glacial till (75 blow material); or where borings will be advanced in areas with frequent cobbles and boulders.			
	_____ lf of casing	X 150=	_____
Temporary observation wells for future groundwater measurements	_____ lf of boring	X 100=	_____

#2023h-19 - SUBSURFACE EXPLORATION & CONSTRUCTION MATERIALS TESTING

BID FORM

COMPANY NAME: _____

Page 2 of 3

In Compliance with the NOTICE TO BIDDERS, the undersigned, proposes and agrees as follows:

That being duly licensed to conduct business within the State of New York, and being experienced and responsible for the performance of the same, agrees to furnish equipment with operators for work in conjunction with the Jefferson County Highway Department work forces and equipment in the reconstruction of roads and bridges at unit prices as per the specifications hereto annexed.

Quantities listed are merely for the purpose of preparing an estimate. They do not represent specific requirements for any project or series of projects. Actual quantities may vary.

LAB WORK

Shelby Tubes	_____ per each	X 2 ea	_____
Atterberg Limits	_____ per each	X 2 ea	_____
Sieve Analysis	_____ per each	X 2 ea	_____
Moisture Content	_____ per each	X 2 ea	_____
Unconfined compression tests	_____ per each	X 1 ea	_____
Shear Strength of Cohesive Soils	_____ per each	X 1 ea	_____
California Bearing Ratio	_____ per each	X 1 ea	_____
Prepare typed boring logs with a brief project description and summary of subsurface conditions	_____ LS	X 1 ea	_____
Prepare a formal Geotechnical Report per specs herein	_____ LS	X 1 ea	_____

GROSS SUM for Section A _____

	UNIT BID		TOTAL BID
B. Materials Testing			
Sieve analysis for Subbase Materials, with report	_____ each	X 30	_____
Sampling charge from stockpile or mine face	_____ each	X 2	_____
Field Density Testing of (with report)			
Asphalt Pavement (ASTM D 2950)	_____ per each	X 10	_____
Subbase Course (ASTM D 1556)	_____ per each	X 6	_____
Embankments (ASTM D 1556)	_____ per each	X 4	_____
Analyze loose bituminous mixtures in Laboratory	_____ per each	X 2	_____

#2023h-19 - SUBSURFACE EXPLORATION & CONSTRUCTION MATERIALS TESTING

BID FORM

COMPANY NAME: _____

Page 3 of 3

Asphalt Pavement Core Analysis (with report)	_____ per each	X 4	_____
Portland Cement Concrete (with report) Deck Core Analysis	_____ per each	X 8	_____
Abutment Core Analysis – Includes concrete coring	_____ per each	X 2	_____
Cylinder Breaks from Fresh Mix (cylinders provided by County)	_____ per each	X 40	_____
Concrete Field Testing Technician – Includes Air & Slump Testing	----- ½ Day		----- Full Day
Making Concrete Cylinders from Fresh Concrete	----- Per Each		
Pick-up Cylinders	-----		
Break Cylinders	-----		

GROSS SUM for Section B _____

GROSS SUM BID for Sections A & B _____

Bidder must complete all sections of the Bid Proposal for bid to be considered complete.

Attached Bid Checklist, Non-Collusive/Signature Page, and Iran Notice must be signed to complete the bid.

#2023h-19 - SUBSURFACE EXPLORATION & CONSTRUCTION MATERIALS TESTING

BID CHECKLIST

The documents required to complete this bid are indicated below.

- (X) Insurance Certificates See Exhibit A, pages F-G
- (X) Iran Notice See Pages 33i – 33j

- _____ We have reviewed and have submitted the items required under the Mandatory Submission Requirements.
- _____ The Bid Page(s), Signature/Non-Collusive Page, and Iran Notice are completed and included.
- _____ Deviations are noted and explained.
- _____ Insurance Certificates are enclosed if required.

WAIVER OF IMMUNITY/NON-COLLUSIVE BIDDING CERTIFICATE PURSUANT TO SECTION 103-D OF THE NEW YORK STATE GENERAL MUNICIPAL LAW

- A. By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organizations, under penalty of perjury, that to the best of knowledge and belief:
 - 1. The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor.
 - 2. Unless otherwise required by law, the prices which have been quoted in this bid have not knowingly been disclosed by the bidder and will not knowingly be disclosed by the bidder, directly or indirectly, prior to opening, to any bidder or to any competitor.
 - 3. No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

A bid shall not be considered for award nor shall any award be made where 1, 2, and 3 above have not been complied with; provided, however, that in any case the bidder cannot make to foregoing certification, the bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons thereof. Where 1, 2, and 3 above have not been complied with, the bid shall not be considered for any award nor shall any award be made unless the head of the Purchasing Unit to the political subdivision, public department, agency or official thereof to which the bid is made, or his designee, determines that such disclosure was not made for the purpose of restricting competition.

The fact that a bidder (a) has published price lists, rates, or tariffs covering items being procured, (b) has informed prospective customer of proposed or pending publications of new or revised price lists for such items, or (c) has sold the same items to other customers at the same prices being bid, does not constitute, without more, a disclosure within the meaning of paragraph "A" above.

- B. Any bid hereafter made to any political subdivision of the state or any public department, agency or official thereof by a corporate bidder for work or services performed or to be performed or goods sold or to be sold, where competitive bidding is required by statute, rule, regulation, local law, and where such bid contains the certification referred to in paragraph "A" of this section, shall be deemed to have been authorized by the Board of Directors of the bidder, and such authorization shall be deemed to include the submission of the bid and the inclusion therein of the certificate as to non-collusion as the act and deed of the corporation.

SIGNATURE PAGE ON REVERSE MUST BE SIGNED TO COMPLETE THE BID.

#2023h-19 - SUBSURFACE EXPLORATION & CONSTRUCTION MATERIALS TESTING

SIGNATURE PAGE

The undersigned proposes to furnish products or services to specifications included in this bid document, at the price(s) set forth, as required to meet the County's needs. Any deviation to the specifications must be noted on the bid form and fully explained or the deviations will not be considered part of the bid.

Deviations: Yes _____ No _____

By signing below I am certifying that I fully understand the complete requirements of the bid and agree to the non-collusive certification on the reverse of this page and additional documents as specified on the bid checklist. Bidder hereby acknowledges receipt of all addenda pertaining to this bid which are made part of the original bid specifications.

_____ COMPANY NAME

_____ ADDRESS (Principal Office)

_____ CITY, STATE, ZIP CODE

_____ AREA CODE/TELEPHONE NUMBER

_____ FAX NUMBER

_____ AUTHORIZED SIGNATURE

_____ PRINTED NAME

_____ TITLE

_____ DATE

_____ ADDRESS (Local Office)

_____ CITY, STATE, ZIP CODE

_____ AREA CODE/TELEPHONE NUMBER

_____ FAX NUMBER

_____ E-MAIL ADDRESS

Check One: Corporation _____ Partnership _____ Individual _____

Incorporated under the laws of the State of _____

Federal Identification # _____

State if authorized to do business in the State of New York: Yes _____ No _____

Names/Addresses of Partners:

#2023h-19 - SUBSURFACE EXPLORATION & CONSTRUCTION MATERIALS TESTING

Iranian Energy Sector Divestment

Contractor hereby represents that said Contractor is in compliance with New York State General Municipal Law Section 103-g entitled “Iranian Energy Sector Divestment”, in that said Contractor has not:

- a. Provided goods and services of \$20 Million or more in the energy sector of Iran including but not limited to the provision of oil or liquefied natural gas tankers or products used to construct or maintain pipelines used to transport oil or liquefied natural gas for the energy sector of Iran; or
- b. Acted as a financial institution and extended \$20 Million or more in credit to another person for forty-five days or more, if that person’s intent was to use the credit to provide goods or services in the energy sector in Iran.

Any Contractor who has undertaken any of the above and is identified on a list created pursuant to Section 165-a (3)(b) of the New York State Finance Law as a person engaging in investment activities in Iran, shall not be deemed a responsible Bidder pursuant to Section 103 of the New York State General Municipal Law.

Except as otherwise specifically provided herein, every Contractor submitting a bid in response to this Request for Bids must certify and affirm the following under penalties of perjury:

- a. “By submission of this bid, each Bidder and each person signing on behalf of any Bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief, that each Bidder is not on the list created pursuant to NYS Finance Law Section 165-a (3)(b).”

Jefferson County will accept this statement electronically in accordance with the provisions of Section 103 of the General Municipal Law.

Except as otherwise specifically provided herein, any Bid that is submitted without having complied with subdivision (a) above, shall not be considered for award. In any case where the Bidder cannot make the certification as set forth in subdivision (a) above, the Bidder shall so state and shall furnish with the bid a signed statement setting forth in detail the reasons therefore. The County reserves its rights, in accordance with General Municipal Law Section 103-g to award the Bid to any Bidder who cannot make certification, on a case-by-case basis under the following circumstances.

1. The investment activities in Iran were made before April 12, 2012, the investment activities in Iran have not been expanded or renewed after April 12, 2012, and the Bidder has adopted, publicized and is implementing a formal plan to cease the investment activities in Iran and to refrain from engaging in any new investments in Iran; or
2. The County of Jefferson has made a determination that the goods or services are necessary for the County to perform its functions and that, absent such an exemption, the County of Jefferson would be unable to obtain the goods or services for which the Bid is offered. Such a determination shall be made by the County in writing and shall be a public document.

#2023h-19 - SUBSURFACE EXPLORATION & CONSTRUCTION MATERIALS TESTING

Attachment
Certification Pursuant to Section 103-g
of the New York State
General Municipal Law

- A. By submission of this bid, each Bidder and each person signing on behalf of any Bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each Bidder is not on the list created pursuant to paragraph (b) of subdivision 3 of Section 165-a of the New York State Finance Law.

- B. A Bid shall not be considered for award, nor shall any award be made where the condition set forth in Paragraph A above has not been complied with; provided, however, that in any case the Bidder cannot make the foregoing certification set forth in Paragraph A above, the Bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefore. Where Paragraph A above cannot be complied with, the Purchasing Unit to the political subdivision, public department, agency or official thereof to whom the bid is made, or his designee, may award a bid, on a case by case basis under the following circumstances:
 - 1. The investment activities in Iran were made before April 12, 2012, the investment activities in Iran have not been expanded or renewed after April 12, 2012, and the Bidder has adopted, publicized and is implementing a formal plan to cease the investment activities in Iran and to refrain from engaging in any new investments in Iran; or
 - 2. The political subdivision makes a determination that the goods or services are necessary for the political subdivision to perform its functions and that, absent such an exemption, the political subdivision would be unable to obtain the goods and services for which the contract is offered. Such a determination shall be made in writing and shall be a public document.

Signature

Title

Date

Company Name