



AGENDA ITEM EXECUTIVE SUMMARY

Agenda Item:	Construction Material Testing and Geotechnical Services		
Presenter & Title:	Richard Babica, Director of Public Works		
Date:	June 5, 2023		
Please Check Appropriate Box:			
<input checked="" type="checkbox"/>	Committee of the Whole Meeting		Special Committee of the Whole Meeting
<input checked="" type="checkbox"/>	City Council Meeting		Special City Council Meeting
<input type="checkbox"/>	Public Hearing		Other -
Associated Strategic Plan Goal/Objective: EMS-2 / QL-1			
Estimated Cost: \$ 25,840.00	Budgeted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Other Funding? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<i>If "Other Funding," please explain how the item will be funded:</i>			
Executive Summary:			
<p>Construction materials are tested for capital improvement projects for quality assurance. Geotechnical services are to determine the existing roadway cross sections for future projects and the testing of soils and spoils before disposal to remain in compliance with current State regulations.</p> <p>One quote was received for these services from Nashnal Soil Testing, LLC in the amount of \$25,840.00. Nashnal has previously performed this type of work for the City of Geneva in a satisfactory manner.</p>			
Attachments: <i>(please list)</i>			
<ul style="list-style-type: none"> • Resolution • NASHnal Quote 05-05-23 			
Voting Requirements:			
<p><i>This motion requires a simple majority of votes for passage.</i></p> <p><i>The Mayor may vote on three occasions: (a) when the vote of the aldermen or trustees has resulted in a tie; (b) when one half of the aldermen or trustees elected have voted in favor of an ordinance, resolution, or motion even though there is no tie votes; or (c) when a vote greater than a majority of the corporate authorities is required by state statute or local ordinance to adopt an ordinance, resolution, or motion.</i></p>			
Recommendation / Suggested Action: <i>(how item should be listed on agenda)</i>			
<p>Recommend Approval of Resolution Accepting Quote for Construction Material Testing and Geotechnical Services with Nashnal Soil Testing, LLC of Plainfield, IL in the amount not-to-exceed \$25,840.00.</p>			

RESOLUTION NO. 2023-57

**RESOLUTION ACCEPTING QUOTE FROM
NASHNAL SOIL TESTING LLC FOR CONSTRUCTION
MATERIAL TESTING AND GEOTECHNICAL SERVICES**

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GENEVA, KANE COUNTY, ILLINOIS, as follows:

SECTION 1: The City Council on behalf of the City of Geneva, accepts the quote, in the form attached hereto as Exhibit "A", for Construction Material Testing and Geotechnical Services from Nashnal Soil Testing, LLC as it relates to the testing of construction materials for quality assurance before construction materials are incorporated into City projects and proper placement during construction and the testing of soils and spoils to comply with State Regulations.

SECTION 2: This Resolution shall become effective from and after its passage as in accordance with law.

PASSED by the City Council of the City of Geneva, Kane County, Illinois, this ____ day of _____, 2023

AYES: __ NAYS: __ ABSENT: __ ABSTAINING: __ HOLDING OFFICE: __

Approved by me this ____ day of _____, 2023.

Mayor

ATTEST:

City Clerk



May 5, 2023

Mr. C. Elton Orozco
Civil Engineer
Geneva Public Works Department
22 South First Street
Geneva, IL-60134

Re: Request for Bids and Proposal (RFP)
2023 Construction Material Testing and Geotechnical Services

Dear Mr. Orozco,

NASHnal Soil Testing, LLC (NST) is pleased to submit our proposal for the above mentioned Contract. Our overall depth of experience and our qualifications are uniquely suited to performing the necessary services for this Contract. NST understands that the City of Geneva is planning to renovate various streets in addition to other street improvement projects throughout the city in the 2023-2024 fiscal year and these projects will require construction inspection, material testing and geotechnical exploration. As NST has provided the required services for 2018-2019, 2019-2020, 2020-2021, 2021-2022 and 2022-2023 fiscal years, NST can once again provide the services required as specified in the RFP in a timely and professional manner and look forward to working with you in the coming years.

NST is a full-service organization, which provides geotechnical investigation, construction inspection, and material testing services to clients in both the private and public sectors. Our principals have 30+ years of combined experience in the related fields. NST has previous experience with the City of Geneva, City of Naperville, Village of Lisle, Macupin County and Cook County projects. NST has been providing subsurface soil investigations, construction inspection and material testing services to developers, contractors, and the public sector in multiple locations. NASHnal Soil Testing, LLC was started in 2010 in Naperville. Our engineers have professional Engineers certificates with IL, WI, MI, MO, IN.

NASHnal Soil Testing, LLC (NST) is accredited by **AASHTO/AMRL & CCRL**. NST is also certified by **US ARMY CORPS OF ENGINEERS (USACOE)**. Additionally, NST is a certified Disadvantage Business Enterprise (**DBE**) accepted by **IDOT, UPRR** and other governmental agencies. NST is Certified as minority business enterprise by the **City of Chicago &** accepted by **Cook County** and other public agencies. NST is also certified by **SBA** under **8(a) BD** program (NAICS Codes 541330 & 541380) for all projects where federal funds are involved.

We are **pre-qualified in General Geotechnical Services and Structure Geotechnical Reports (SGR), Quality Assurance HMA & Aggregates (Special Services) and Quality Assurance PCC & Aggregates (Special Services)**

NASHnal Soil Testing, LLC understands the importance of carrying out the required engineering services along with providing a safe and functional construction work zone for all parties involved. We understand the challenges such as traffic maintenance, environmental constraints, budget constraints schedule constraints and design challenges. Regardless of the project size or scope, we provide skilled and knowledgeable inspectors to assist our clients in managing risk in the construction project and in supporting their responsibility to the environment. In addition, we understand the need to be proactive



with the local businesses and residents to minimize disruptions and apprizing all the construction sequencing.

Based on the project goals we have assembled a strong project team with extensive experience in successful execution and delivery of similar projects. Our team will ensure the necessary capacity and support the required specializations for successful project delivery. We understand that the scope of the engineering service may include, but is not limited to performing onsite inspections, review layout of contract including design changes, provide environmental sampling and testing, prepare records, maintain documentation, submit pay estimates and change orders and any other duties requiring the services of an engineer to complete this project on a timely basis and in accordance with IDOT specifications.

NST will perform all tasks associated with this project in accordance with the project's technical specifications and special provisions. The laboratory services will be performed by certified lab professionals. **The construction inspection and testing services will be performed by certified Union field inspectors.** In addition, all wages will be paid in accordance with the current **Prevailing Wage Act**. All laboratory testing and construction inspection services will be supervised by a registered professional Engineer. Please do not hesitate to call me if you have any questions whatsoever regarding this submittal.

Best Regards,

A handwritten signature in black ink that reads 'Umar T. Ahmad'. The signature is written in a cursive style with a large, sweeping flourish at the end.

Umar Ahmad, P.E
NASHnal Soil Testing, LLC
23856 W. Andrews Road, Unit 103
Plainfield, IL-60585
Phone: (630) 780-5201
Email: uahmad@nstengr.com



ESTIMATE OF COST-2023

NASHnal Soil Testing, LLC (NST) determines the fee by the actual amount of technical time that will be needed for the project and the total time spent on laboratory testing as requested by the client. For this cost estimate, quantities were provided by the City of Geneva for the purpose of preparing this proposal.

Task	Units	# of Units	Unit Cost	Est. Cost
Laboratory Testing Services				
Compression Testing of PCC Cylinders per ASTM	Each	35	\$ 17.00	\$595.00
PCC Cylinder Pick Up	Set	8	\$ 81.00	\$648.00
Maximum Theoretical Specific Gravity	Each	4	\$ 80.00	\$320.00
Bulk Specific Gravity	Each	4	\$ 60.00	\$240.00
Gradation (Adphalt)	Each	3	\$ 45.00	\$135.00
Ignition Oven Test	Each	3	\$ 70.00	\$210.00
Core Thickness & Density Determination	Each	15	\$ 23.00	\$345.00
Sieve Analysis (ASTM C 136)	Each	5	\$ 45.00	\$225.00
				\$2,718.00
Field Testing				
Engineering Technician Services (Regular Hours)	Each	100	\$ 89.00	\$8,900.00
				\$8,900.00
Engineering Services				
Project Engineer Hour	Hours	15	\$ 85.00	\$1,275.00
				\$1,275.00
			Construction Material Services Estimated Total	\$12,893.00

Geotechnical Engineering Services

Engineering Services				
Chief Engineer	Hours	6	\$ 92.00	\$552.00
Senior Engineer	Hours	6	\$ 90.00	\$540.00
Project Engineer	Hours	10	\$ 82.00	\$820.00
Staff Engineer	Hours	15	\$ 82.00	\$1,230.00
Engineering Technician	Hours	20	\$ 80.00	\$1,600.00
Sub Surface Exploration				
Mobilization	Each	2	\$ 550.00	\$1,100.00
Borings (5 feet deep) ASTM D1587	Feet	100	\$ 22.00	\$2,200.00
Cores (2 feet)	Feet	60	\$ 25.00	\$1,500.00
Laboratory Testing				
Moisture Content Test	Each	70	\$ 3.00	\$210.00
Atterberg Limits (LL & PL)	Each	10	\$ 20.00	\$200.00
Combined Hydrometer & Sieve Analysis	Each	10	\$ 45.00	\$450.00
Sieve Analysis (Washed)	Each	4	\$ 40.00	\$160.00
Unconfined Compression Test	Each	10	\$ 10.00	\$100.00
Density Determination	Each	4	\$ 5.00	\$20.00
Unconsolidated-underdrained Triaxial Test /pt	Each	5	\$ 75.00	\$375.00
Soil pH with LPC 667 662	Each	14	\$ 135.00	\$1,890.00
			Geotechnical Engineering Estimated Total	\$12,947.00
			Estimated Total	\$25,840.00



Additional Tests if Needed

CCDD with LPC 662	Each	\$1,950.00
Additional TCLP if needed	Each	\$ 500.00
CCDD Sampling and Transportation	Day	\$ 420.00