



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

March 14, 2016

Ms. Teresa Powell
Village Clerk
123 Madison Street
Oak Park, Illinois 60302

Subject: Village: Oak Park
Section: 13-00256-00-PV
Project: TCSP-IL12(102)
Job: C-91-300-13
Construction Engineering Agreement
Consultant: TERRA Engineering, Ltd.
\$189,606.07 (corrected amount)

Dear Ms. Powell:

The department approved the subject agreement on September 11, 2015.
A copy is enclosed. The village may authorize the consultant to proceed with the engineering work.

The corrected amount is based on the following:
Proposed payroll is reduced by \$2,451.24 due to current rates on file escalated 1.0125 for the duration of the project being lower. As a result of the above adjustment and to limiting rate to 145.97% for FYE 12/31/2014, overhead is reduced by \$5,953.58. Profit is reduced by \$1,389.43 due to above adjustments and to allowing profit on mileage. Outside direct costs are reduced by \$128.74 due to mileage rate being limited to .54/mile.

Service by others - Applied GeoScience, Inc. - proposed overhead is reduced by \$1,586.75 due to overhead rate being limited to 162.71% for FYE 12/31/2015. Proposed profit is increased by \$72.10 due to an incorrect profit calculation. Overall total was reduced by \$7.68 due to a rounding error. Due to all of the above adjustments, upper limit for Applied GeoScience, Inc. should be \$23,477.67.

Please contact Debbie Jarvis (Debbie.Jarvis@illinois.gov) if you have any questions.

Sincerely,


Salmon O. Danmole, P.E.
Acting Engineer of Local Roads and Streets

A handwritten signature in black ink, reading 'Gregory S. Lupton'.

By: Gregory S. Lupton, P.E.
Acting Local Project Implementation Engineer

Enclosure

cc: Anan Abu-Taleb, Village President
John Fortmann Attn: Christopher Holt - District 1
Roxy Heck (Attn: Project Control)
TERRA Engineering, Ltd.

Local Agency Village of Oak Park	LOCAL AGENCY	 Illinois Department of Transportation Construction Engineering Services Agreement For Federal Participation	CONSULTANT	Consultant TERRA Engineering, Ltd.
County Cook				Address 225 West Ohio Street 4th Floor
Section 13-00256-00-PV				City Chicago
Project No. TCSP 12IL031				State IL
Job No. C-91-300-13				Zip Code 60654
Contact Name/Phone/E-mail Address Bill McKenna 708-358-5722 mckenna@oak-park.us				Contact Name/Phone/E-mail Address Jamil Bou-Saab 312-467-0123 jbousaab@terraengineering.com

THIS AGREEMENT is made and entered into this 8th day of September, 2015 between the above Local Agency (LA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the PROJECT described herein. Federal-aid funds allotted to the LA by the state of Illinois under the general supervision of the Illinois Department of Transportation (STATE) will be used entirely or in part to finance engineering services as described under AGREEMENT PROVISIONS.

WHEREVER IN THIS AGREEMENT or attached exhibits the following terms are used, they shall be interpreted to mean:

Regional Engineer	Deputy Director Division of Highways, Regional Engineer, Department of Transportation
Resident Construction Supervisor	Authorized representative of the LA in immediate charge of the engineering details of the PROJECT
In Responsible Charge	A full time LA employee authorized to administer inherently governmental PROJECT activities
Contractor	Company or Companies to which the construction contract was awarded

Project Description

Name South Boulevard Route MUN 3036 Length 0.13 MI Structure No. N/A

Termini Illinois Route 43 (Harlem Avenue) to Marion Street

Description: Streetscape and infrastructure improvements to upgrade streets, curbs, sidewalks, lighting, and landscaping while enhancing pedestrian and bicycle amenities to extend the thematic scheme of downtown Oak Park from Marion Street to include South Boulevard.

Agreement Provisions

I. THE ENGINEER AGREES,

1. To perform or be responsible for the performance of the engineering services for the LA, in connection with the PROJECT hereinbefore described and checked below:
 - ☐ a. Proportion concrete according to applicable STATE Bureau of Materials and Physical Research (BMPR) Quality Control/Quality Assurance (QC/QA) training documents or contract requirements and obtain samples and perform testing as noted below.
 - ☐ b. Proportion hot mix asphalt according to applicable STATE BMPR QC/QA training documents and obtain samples and perform testing as noted below.
 - ☐ c. For soils, to obtain samples and perform testing as noted below.
 - ☐ d. For aggregates, to obtain samples and perform testing as noted below.

NOTE: For 1a. through 1d. the ENGINEER is to obtain samples for testing according to the STATE BMPR "Project Procedures Guide", or as indicated in the specifications, or as attached herein by the LA; test according to the STATE BMPR "Manual of Test Procedures for Materials", submit STATE BMPR inspection reports; and verify compliance with contract specifications.

- ☐ e. Inspection of all materials when inspection is not provided at the sources by the STATE BMPR, and submit inspection reports to the LA and the STATE in accordance with the STATE BMPR "Project Procedures Guide" and the policies of the STATE.
 - ☒ f. For Quality Assurance services, provide personnel who have completed the appropriate STATE BMPR QC/QA trained technician classes.
 - ☒ g. Inspect, document and inform the LA employee In Responsible Charge of the adequacy of the establishment and maintenance of the traffic control.
 - ☐ h. Geometric control including all construction staking and construction layouts.
 - ☒ i. Quality control of the construction work in progress and the enforcement of the contract provisions in accordance with the STATE Construction Manual.
 - ☒ j. Measurement and computation of pay items.
 - ☒ k. Maintain a daily record of the contractor's activities throughout construction including sufficient information to permit verification of the nature and cost of changes in plans and authorized extra work.
 - ☒ l. Preparation and submission to the LA by the required form and number of copies, all partial and final payment estimates, change orders, records, documentation and reports required by the LA and the STATE.
 - ☒ m. Revision of contract drawings to reflect as built conditions.
 - ☐ n. Act as resident construction supervisor and coordinate with the LA employee In Responsible Charge.
2. Engineering services shall include all equipment, instruments, supplies, transportation and personnel required to perform the duties of the ENGINEER in connection with the AGREEMENT.
 3. To furnish the services as required herein within twenty-four hours of notification by the LA employee In Responsible Charge.
 4. To attend meetings and visit the site of the work at any reasonable time when requested to do so by representatives of the LA or STATE.
 5. That none of the services to be furnished by the ENGINEER shall be sublet, assigned or transferred to any other party or parties without the written consent of the LA. The consent to sublet, assign or otherwise transfer any portion of the services to be furnished by the ENGINEER shall not be construed to relieve the ENGINEER of any responsibility for the fulfillment of this AGREEMENT.
 6. The ENGINEER shall submit invoices, based on the ENGINEER's progress reports, to the LA employee In Responsible Charge, no more than once a month for partial payment on account for the ENGINEER's work completed to date. Such invoices shall represent the value, to the LA of the partially completed work, based on the sum of the actual costs incurred, plus a percentage (equal to the percentage of the construction engineering completed) of the fixed fee for the fully completed work.
 7. That the ENGINEER is qualified technically and is entirely conversant with the design standards and policies applicable to improvement of the SECTION; and that the ENGINEER has sufficient properly trained, organized and experienced personnel to perform the services enumerated herein.
 8. That the ENGINEER shall be responsible for the accuracy of the ENGINEER's work and correction of any errors, omissions or ambiguities due to the ENGINEER'S negligence which may occur either during prosecution or after acceptance by the LA. Should any damage to persons or property result from the ENGINEER's error, omission or negligent act, the ENGINEER shall indemnify the LA, the STATE and their employees from all accrued claims or liability and assume all restitution and repair costs arising from such negligence. The ENGINEER shall give immediate attention to any remedial changes so there will be minimal delay to the contractor and prepare such data as necessary to effectuate corrections, in consultation with and without further compensation from the LA.
 9. That the ENGINEER will comply with applicable federal statutes, state of Illinois statutes, and local laws or ordinances of the LA.
 10. The undersigned certifies neither the ENGINEER nor I have:
 - a) employed or retained for commission, percentage, brokerage, contingent fee or other considerations, any firm or person (other than a bona fide employee working solely for me or the above ENGINEER) to solicit or secure this AGREEMENT;

- b) agreed, as an express or implied condition for obtaining this AGREEMENT, to employ or retain the services of any firm or person in connection with carrying out the AGREEMENT or
 - c) paid, or agreed to pay any firm, organization or person (other than a bona fide employee working solely for me or the above ENGINEER) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the AGREEMENT.
 - d) are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency;
 - e) have not within a three-year period preceding the AGREEMENT been convicted of or had a civil judgment rendered against them for commission of fraud or criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or local) transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property;
 - f) are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (e) of this certification; and
 - g) have not within a three-year period preceding this AGREEMENT had one or more public transactions (Federal, State or local) terminated for cause or default.
11. To pay its subconsultants for satisfactory performance no later than 30 days from receipt of each payment from the LA.
 12. To submit all invoices to the LA within one year of the completion of the work called for in this AGREEMENT or any subsequent Amendment or Supplement.
 13. To submit BLR 05613, Engineering Payment Report, to the STATE upon completion of the work called for in the AGREEMENT.
 14. To be prequalified with the STATE in Construction Inspection when the ENGINEER or the ENGINEER's assigned staff is named as resident construction supervisor. The onsite resident construction supervisor shall have a valid Documentation of Contract Quantities certification.
 15. Will provide, as required, project inspectors that have a valid Documentation of Contract Quantities certification.

II. THE LA AGREES,

1. To furnish a full time LA employee to be In Responsible Charge authorized to administer inherently governmental PROJECT activities.
2. To furnish the necessary plans and specifications.
3. To notify the ENGINEER at least 24 hours in advance of the need for personnel or services.
4. To pay the ENGINEER as compensation for all services rendered in accordance with this AGREEMENT, on the basis of the following compensation formulas:

Cost Plus Fixed Fee Formulas

- ☒ $FF = 14.5\%[DL + R(DL) + OH(DL) + IHDC]$, or
☐ $FF = 14.5\%[(2.3 + R)DL + IHDC]$

Where: DL = Direct Labor
 IHDC = In House Direct Costs
 OH = Consultant Firm's Actual Overhead Factor
 R = Complexity Factor
 FF=Fixed Fee
 SBO = Services by Others

Total Compensation = $DL + IHDC + OH + FF + SBO$

Specific Rate

☐ (Pay per element)

Lump Sum

☐ _____

5. To pay the ENGINEER using one of the following methods as required by 49 CFR part 26 and 605 ILCS 5/5-409:

☐ With Retainage

- a) **For the first 50% of completed work**, and upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments for the work performed shall be due and payable to the ENGINEER, such payments to be equal to 90% of the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- b) **After 50% of the work is completed**, and upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments covering work performed shall be due and payable to the ENGINEER, such payments to be equal to 95% of the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- c) **Final Payment** – Upon approval of the work by the LA but not later than 60 days after the work is completed and reports have been made and accepted by the LA and the STATE, a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amounts of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

☒ Without Retainage

- a) **For progressive payments** – Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments for the work performed shall be due and payable to the ENGINEER, such payments to be equal to the value of the partially completed work minus all previous partial payments made to the ENGINEER.
 - b) **Final Payment** – Upon approval of the work by the LA but not later than 60 days after the work is completed and reports have been made and accepted by the LA and STATE, a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amounts of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.
6. The recipient shall not discriminate on the basis on the basis of race, color, national origin or sex in the award and performance of any DOT-assisted contract or in the administration of its DBE program or the requirements of 49 CFR part 26. The recipient shall take all necessary and reasonable steps under 49 CFR part 26 to ensure nondiscrimination in the award and administration of DOT-assisted contracts. The recipient's DBE program, as required by 49 CFR part 26 and as approved by DOT, is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as violation of this agreement. Upon notification to the recipient of its failure to carry out its approved program, the Department may impose sanctions as provided for under part 26 and may, in appropriate cases, refer the matter for enforcement under 18 U.S.C. 1001 and/or the Program Fraud Civil Remedies Act of 1986 (31U.S.C. 3801 et seq.).
7. To submit approved form BC 775 (Exhibit C) and BC 776 (Exhibit D) with this AGREEMENT.

III. It is Mutually Agreed,

1. That the ENGINEER and the ENGINEER's subcontractors will maintain all books, documents, papers, accounting records and other evidence pertaining to cost incurred and to make such materials available at their respective offices at all reasonable times during the AGREEMENT period and for three years from the date of final payment under this AGREEMENT, for inspection by the STATE, Federal Highway Administration or any authorized representatives of the federal government and copies thereof shall be furnished if requested.
2. That all services are to be furnished as required by construction progress and as determined by the LA employee In Responsible Charge. The ENGINEER shall complete all services specified herein within a time considered reasonable to the LA, after the CONTRACTOR has completed the construction contract.
3. That all field notes, test records and reports shall be turned over to and become the property of the LA and that during the performance of the engineering services herein provided for, the ENGINEER shall be responsible for any loss or damage to the documents herein enumerated while they are in the ENGINEER's possession and any such loss or damage shall be restored at the ENGINEER's expense.
4. That this AGREEMENT may be terminated by the LA upon written notice to the ENGINEER, at the ENGINEER's last known address, with the understanding that should the AGREEMENT be terminated by the LA, the ENGINEER shall be paid for any services completed and any services partially completed. The percentage of the total services which have been rendered by the ENGINEER shall be mutually agreed by the parties hereto. The fixed fee stipulated in numbered paragraph 4d of Section II shall be multiplied by this percentage and added to the ENGINEER's actual costs to obtain the earned value of work performed. All field notes, test records and reports completed or partially completed at the time of termination shall become the property of, and be delivered to, the LA.
5. That any differences between the ENGINEER and the LA concerning the interpretation of the provisions of this AGREEMENT shall be referred to a committee of disinterested parties consisting of one member appointed by the ENGINEER, one member appointed by the LA, and a third member appointed by the two other members for disposition and that the committee's decision shall be final.
6. That in the event the engineering and inspection services to be furnished and performed by the LA (including personnel furnished by the ENGINEER) shall, in the opinion of the STATE be incompetent or inadequate, the STATE shall have the right to supplement the engineering and inspection force or to replace the engineers or inspectors employed on such work at the expense of the LA.

7. That the ENGINEER has not been retained or compensated to provide design and construction review services relating to the contractor's safety precautions, except as provided in numbered paragraph 1f of Section I.
8. This certification is required by the Drug Free Workplace Act (30ILCS 580). The Drug Free Workplace Act requires that no grantee or contractor shall receive a grant or be considered for the purpose of being awarded a contract for the procurement of any property or service from the State unless that grantee or contractor will provide a drug free workplace. False certification or violation of the certification may result in sanctions including, but not limited to, suspension of contract or grant payments, termination of a contract or grant and debarment of contracting or grant opportunities with the State for at least one (1) year but no more than five (5) years.

For the purpose of this certification, "grantee" or "contractor" means a corporation, partnership or other entity with twenty-five (25) or more employees at the time of issuing the grant, or a department, division or other unit thereof, directly responsible for the specific performance under a contract or grant of \$5,000 or more from the State, as defined in the Act.

The contractor/grantee certifies and agrees that it will provide a drug free workplace by:

(a) Publishing a statement:

- (1) Notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance, including cannabis, is prohibited in the grantee's or contractor's workplace.
- (2) Specifying the actions that will be taken against employees for violations of such prohibition.
- (3) Notifying the employee that, as a condition of employment on such contract or grant, the employee will:
 - (A) abide by the terms of the statement; and
 - (B) notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction.

(b) Establishing a drug free awareness program to inform employees about:

- (1) the dangers of drug abuse in the workplace;
- (2) the grantee's or contractor's policy of maintaining a drug free workplace;
- (3) any available drug counseling, rehabilitation and employee assistance program; and
- (4) the penalties that may be imposed upon an employee for drug violations.
- (c) Providing a copy of the statement required by subparagraph (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.
- (d) Notifying the contracting or granting agency within ten (10) days after receiving notice under part (B) of paragraph (3) of subsection (a) above from an employee or otherwise receiving actual notice of such conviction.
- (e) Imposing a sanction on, or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program by, any employee who is convicted, as required by section S of the Drug Free Workplace Act.
- (f) Assisting employees in selecting a course of action in the event drug counseling, treatment and rehabilitation is required and indicating that a trained referral team is in place.
- (g) Making a good faith effort to continue to maintain a drug free workplace through implementation of the Drug Free Workplace Act.

9. The ENGINEER or subconsultant shall not discriminate on the basis of race, color, national origin or sex in the performance of this AGREEMENT. The ENGINEER shall carry out applicable requirements of 49 CFR part 26 in the administration of DOT-assisted contracts. Failure by the ENGINEER to carry out these requirements is a material breach of this AGREEMENT, which may result in the termination this AGREEMENT or such other remedy as the LA deems appropriate.

Agreement Summary

Prime Consultant:	TIN Number	Agreement Amount
TERRA Engineering Ltd.	36-3853964	\$201,051
Sub-Consultants:	TIN Number	Agreement Amount
	Sub-Consultant Total:	
	Prime Consultant Total:	
	Total for all Work:	

Executed by the LA:

Village of Oak Park

(Municipality/Township/County)

ATTEST:

By:

Teressa Powell

Clerk

By:

Title: Cara Pavlicek, Village Manager

(SEAL)

Executed by the ENGINEER:

ATTEST:

By:

Title: Director of Transportation

TERRA Engineering, Ltd

By

Title: Executive Vice-President

REVIEWED AND APPROVED
AS TO FORM

SEP 08 2015
[Signature]
 LAW DEPARTMENT

Route: MUN 3036
Local Oak Park / Oak Park / Cook
(Municipality/Township/County)
Section: 13-00256-00-PV
Project: TCSP 12IL031
Job No.: C-91-300-13

***Firm's approved rates on file with
Bureau of Accounting and Auditing:**

Overhead Rate (OH)	1.49
Complexity Factor (R)	0.00
Calendar Days	365

Cost Plus Fixed Fee Methods of Compensation:

Fixed Fee 1	<input checked="" type="checkbox"/>	14.5%[(DL + R(DL) + OH(DL) + IHDC]
Fixed Fee 2	<input type="checkbox"/>	14.5%[(2.3 + R)DL + IHDC]
Specific Rate	<input type="checkbox"/>	
Lump Sum	<input type="checkbox"/>	

Cost Estimate of Consultant's Services in Dollars									
Element of Work	Employee Classification	Man-Hours	Payroll Rate	Payroll Costs (DL)	Overhead (OH*DL)	Services by Others (SBO)	In-House Direct Costs (IHDC)	Fixed Fee (FF)	Total
Construct. Inspec.	See attached								
QA/QC									
Administration									
Direct Costs									
Material Testing									
							</		

Name	TERRA Engineering, Ltd
Address	225 W Ohio St. - 4 th Floor
Telephone	312.467.0123
TIN Number	

Local Agency	Oak Park
Section Number	13-00256-00-PV
Project Number	TCSP 12IL031
Job Number	C-91-300-13

[illegible]

JWS

Executive Vice President

Signature and title of Prime Consultant

8/10/15

Date _____

For information about IDOTs collection and use of confidential information review the department's Identity Protection Policy.

Attachments

FIRM	DATE
TERRA Engineering LTD	
PSB	
PRIME/SUPPLEMENT	
Prime	1.4992
	0

Printed 8/10/2015

PREPARED BY THE CONSULTANT

DBE
Bureau of Design and Environment (Rev. 07/07/15)

FIRM	TERRA Engineering LTD
PSB	
PRIME/SUPPLEMENT	Prime

TERRA Engineering LTD

PSB
PRIME/SUPPLEMENT

DATE 08/10/15

LEADS

1 OF 1

[illegible]

Printed: 8/10/2015

PREPARED BY THE CONSULTANT

Bureau of Design and
Environment (Rev. 07/07/15)

FIRM NAME
PRIME/SUPPLEMENT
PSB NO.

TERRA Engineerg LTD DATE
Prime

ESCALATION FACTOR

[illegible]

FIXED RAISES

FIRM NAME
PRIME/SUPPLEMENT

TERRA Engineering LTD
Prime

DATE 08/10/15
PTB NO.

CONTRACT TERM 12 MONTHS
START DATE 9/1/2015
RAISE DATE 1/1/2016

OVERHEAD RATE 149.92%
COMPLEXITY FACTOR 0
% OF RAISE 3.00%

ESCALATION PER YEAR

9/1/2015 - 12/31/2015	1/1/2016 - 8/31/2016		
4	8		
12	12		

= 33.33%
= 1.0200

68.67%

The total escalation for this project would be:

2.00%

Village of Oak Park - South Blvd
Direct Costs Work Sheet

8/10/15

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL	ASSUMPTIONS
Vehicle Mileage (Governor's Rate)	Up to state rate maximum	3669	\$0.575	\$2,109.68	Based upon 25 mi/day round trip
Overnight Delivery/Postage/Courier Service	Actual cost	15	\$26.00	\$390.00	Typically \$26.00/delivery
Web Site	Actual cost	1	\$1,000.00	\$1,000.00	Lump sum cost
				\$3,499.68	Total



Applied GeoScience, Inc.

Geotechnical, Environmental & Materials Engineering

February 16, 2016

Mr. David Landeweer, P.E.
Terra Engineering, Ltd
225 West Ohio Street, 4th Floor
Chicago, Illinois 60654

Reference: Proposal for Materials Testing and Inspection Services
Proposed New South Boulevard Improvements
Oak Park, Illinois
AGI Proposal No. 16-123

Dear Mr. Landeweer:

Applied GeoScience, Inc. (AGI) is pleased to submit this proposal to provide Inspection and Testing Services for the earthwork, site utilities, flatwork, paving, and site landscaping construction phases of the above-referenced project in Oak Park, Illinois. AGI's engineers and technicians will assist the Owner, designers, and contractors by testing and evaluating commonly used construction materials. AGI understands that the use of quality construction materials and procedures is vital to the success of any construction project. Our field reports offer comprehensive test results and a complete narrative on the condition and adequacy of all site improvements.

The broad objectives of our work will be to perform materials testing and inspection as requested and directed by the Client. AGI proposes to perform a variety of services on an as-needed basis, including the following:

- Soil bearing capacity evaluation
- Soil subgrade and subbase compaction/in-situ density testing
- Proofroll observation
- Excavation and backfill placement observation for building pad and utility trenches
- Portland cement concrete and Asphalt field and laboratory testing

AGI proposes to provide Ascend Real Estate Group with qualified personnel to perform necessary testing and inspection services for each of the above areas. Our testing and inspection services will be performed in accordance with the project specifications and will include the following:

1. Soil bearing capacity and subbase/subgrade in-situ density testing

AGI will perform in-situ density testing using the static cone penetrometer (Illinois Test Procedure 502), dynamic cone penetrometer (Illinois Test Procedure 501), or nuclear density method (ASTM D-2922). Our goal is to provide the most cost-effective solution to insure subgrade and subbase stability and quality, and provide recommendations for remedial action where necessary.

2. Proofroll observation

AGI will oversee a proofroll of all exposed subgrades prior to fill placement to identify any soft or otherwise unsuitable soils below the bearing surface. Recommendations for remedial treatment will be provided where necessary.

3. Backfill placement observation

AGI will verify that all fill materials, including both imported and recycled on-site materials, are suitable for use as granular engineering backfill. AGI will monitor backfill placement and compaction, including proper lift thickness and stability.

4. Cast-in-place Concrete

In accordance with the project specifications, AGI will provide general concrete monitoring and testing services. Scope of services includes batch plant inspection, reinforcing steel (rebar) inspection, field testing, and laboratory compressive strength testing to verify that all materials meet the requirements outlined in the project specifications. We will provide reports summarizing the results of all field and laboratory testing.

5. Paving

AGI proposes to perform observation and testing of the subgrade, base, course, and surface course.

Inspection and Testing Services	
1/2 Day (minimum 4 hour visit)	\$700.00/visit
Full Day	\$850.00/visit

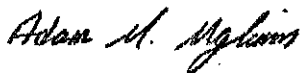
Based on the described scope of work, we estimate that 20 visits will be sufficient to complete the inspection and testing services required for this project at a total cost of **\$25,000.00**. This estimate includes all applicable mobilization, testing, and reporting. Further information including unit costs and pricing for additional services, if required, can be found on the attached General Price List.

Please note that this cost is not a "not-to-exceed" cost. Our cost will be based on the actual number of units used in accordance with the attached General Price List.

We are pleased to submit our proposal for the field engineering services required on this project and look forward to meeting your project requirements. Please do not hesitate to contact the undersigned with any questions regarding this estimate.

Sincerely,

APPLIED GEOSCIENCE, INC.



Adam M. Moghamis, P.E.
Principal Engineer

Attachments

Please sign below and return via email or fax to authorize this work to proceed according to the cost estimate.

Signature

Date

FIXED RAISES

FIRM NAME
PRIME/SUPPLEMENT

Applied Geoscience

DATE 02/17/16
PTB NO.

CONTRACT TERM
START DATE
RAISE DATE

6 MONTHS
3/1/2016
1/1/2017

OVERHEAD RATE
COMPLEXITY FACTOR
% OF RAISE

0
3.00%

ESCALATION PER YEAR

3/1/2016 - 8/31/2016

6
6

= 100.00%
= 1.0000

The total escalation for this project would be:

0.00%

FIRM NAME
PRIME/SUPPLEMENT
PSB NO.

02/17/16

[illegible]

COST PLUS FIXED FEE

Applied Geoscience

OVER-HEAD RATE

COMPLEXITY FACTOR

1.8304

10

[illegible]

FIRM
PSB
PRIME/SUPPLEMENT

SHEET 1 **OF** 1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJECT RATES						Construction Inspection			Material Testing			Administration			Direct Costs		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Principal Engineer	45.00	27.5	12.43%	5.59	9	10.11%	4.55	8.5	10.59%	4.77	10	19.23%	8.65						
Material Test	35.00	151	68.25%	23.89	60	67.42%	23.60	61	76.01%	26.60	30	57.68%	20.19						
Administration	30.00	42.75	19.32%	5.60	20	22.47%	6.74	10.75	13.40%	4.02	12	23.08%	6.92						
		0																	
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TOTALS		221.25	100%	\$35.28	89	100.00%	\$34.89	80.25	100%	\$35.39	52	100%	\$35.77	0	0%	\$0.00	0	0%	\$0.00



Applied GeoScience, Inc.

Geotechnical, Environmental & Materials Engineering

February 16, 2016

Mr. David Landeweer, P.E.
Terra Engineering, Ltd
225 West Ohio Street, 4th Floor
Chicago, Illinois 60654

Reference: **Proposal for Materials Testing and Inspection Services**
Proposed New South Boulevard Improvements
Oak Park, Illinois
AGI Proposal No. 16-123

Dear Mr. Landeweer:

Applied GeoScience, Inc. (AGI) is pleased to submit this proposal to provide Inspection and Testing Services for the earthwork, site utilities, flatwork, paving, and site landscaping construction phases of the above-referenced project in Oak Park, Illinois. AGI's engineers and technicians will assist the Owner, designers, and contractors by testing and evaluating commonly used construction materials. AGI understands that the use of quality construction materials and procedures is vital to the success of any construction project. Our field reports offer comprehensive test results and a complete narrative on the condition and adequacy of all site improvements.

The broad objectives of our work will be to perform materials testing and inspection as requested and directed by the Client. AGI proposes to perform a variety of services on an as-needed basis, including the following:

- Soil bearing capacity evaluation
- Soil subgrade and subbase compaction/in-situ density testing
- Proofroll observation
- Excavation and backfill placement observation for building pad and utility trenches
- Portland cement concrete and Asphalt field and laboratory testing

AGI proposes to provide Ascend Real Estate Group with qualified personnel to perform necessary testing and inspection services for each of the above areas. Our testing and inspection services will be performed in accordance with the project specifications and will include the following:

1. Soil bearing capacity and subbase/subgrade in-situ density testing

AGI will perform in-situ density testing using the static cone penetrometer (Illinois Test Procedure 502), dynamic cone penetrometer (Illinois Test Procedure 501), or nuclear density method (ASTM D-2922). Our goal is to provide the most cost-effective solution to insure subgrade and subbase stability and quality, and provide recommendations for remedial action where necessary.

2. Proofroll observation

AGI will oversee a proofroll of all exposed subgrades prior to fill placement to identify any soft or otherwise unsuitable soils below the bearing surface. Recommendations for remedial treatment will be provided where necessary.

3. Backfill placement observation

AGI will verify that all fill materials, including both imported and recycled on-site materials, are suitable for use as granular engineering backfill. AGI will monitor backfill placement and compaction, including proper lift thickness and stability.

4. Cast-in-place Concrete

In accordance with the project specifications, AGI will provide general concrete monitoring and testing services. Scope of services includes batch plant inspection, reinforcing steel (rebar) inspection, field testing, and laboratory compressive strength testing to verify that all materials meet the requirements outlined in the project specifications. We will provide reports summarizing the results of all field and laboratory testing.

5. Paving

AGI proposes to perform observation and testing of the subgrade, base, course, and surface course.

Inspection and Testing Services	
1/2 Day (minimum 4 hour visit)	\$700.00/visit
Full Day	\$850.00/visit

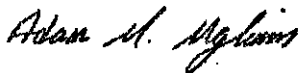
Based on the described scope of work, we estimate that 20 visits will be sufficient to complete the inspection and testing services required for this project at a total cost of **\$25,000.00**. This estimate includes all applicable mobilization, testing, and reporting. Further information including unit costs and pricing for additional services, if required, can be found on the attached General Price List.

Please note that this cost is not a "not-to-exceed" cost. Our cost will be based on the actual number of units used in accordance with the attached General Price List.

We are pleased to submit our proposal for the field engineering services required on this project and look forward to meeting your project requirements. Please do not hesitate to contact the undersigned with any questions regarding this estimate.

Sincerely,

APPLIED GEOSCIENCE, INC.



Adam M. Moghamis, P.E.
Principal Engineer

Attachments

Please sign below and return via email or fax to authorize this work to proceed according to the cost estimate.

Signature

Date

FIXED RAISES

FIRM NAME
PRIME/SUPPLEMENT

Applied Geoscience

DATE 02/17/16
PTB NO.

CONTRACT TERM
START DATE
RAISE DATE

6 MONTHS
3/1/2016
1/1/2017

OVERHEAD RATE
COMPLEXITY FACTOR
% OF RAISE

0
3.00%

ESCALATION PER YEAR

3/1/2016 - 8/31/2016

6
6

= 100.00%
= 1.0000

The total escalation for this project would be:

0.00%

PAYROLL RATES

FIRM NAME

Applied Geoscience

DATE _____

02/17/16

PRIME/SUPPLEMENT

PSB NO.

ESCALATION FACTOR

0.00%

[illegible]

COST PLUS FIXED FEE

Applied Geoscience

OVERHEAD RATE

COMPLEXITY FACTOR

1.8304

10

[illegible]

1 OF 1

Bureau of Design and
Environment (Rev. 07/07/15)