

MEMORANDUM

To: CRA Board

From: Erica Schwarz

Date: April 21, 2021

Re: 99 Bishop Allen Drive: Change Order Policy & Testing and Inspection Services

INTRODUCTION

CRA staff and our project team continue to advance the construction phase of the major renovation of the CRA's property at 99 Bishop Allen Drive, which houses nonprofit organizations. The project design has prioritized environmental sustainability, ADA compliance, historic preservation, aesthetics, and ensures the long term provision of affordable, functional nonprofit office and program space.

The project now requires a firm to provide testing and inspection services. This item was in the project budget approved by the CRA Board in January. Selection of the firm was part of the scope for STV|DPM, the CRA's Owner's Project Manager.

Additionally, to assist the efficient progress of construction, the project would benefit from a policy delegating signing authorization of change orders to the Executive Director, up to a Board approved maximum value.

TESTING AND INSPECTION SERVICES SCOPE AND TERM

The scope for testing and inspection services will include testing for soil compaction, concrete compliance, airtight and waterproofed window framing connections, and air/water entrainment to ensure that the building is airtight and protected from water.

The contract would start in April 2021, with a conclusion in October 2021.

SELECTING A TESTING AND INSPECTION SERVICES FIRM

The selection facilitated by STV employed an RFP process was consistent with 30B and the CRA's Procurement policy, by soliciting responses that included separate non-price proposals and price proposals. Please see the attached letter from STV|DPM outlining the selection process for more detail.

DELEGATION OF CHANGE ORDERS

As the construction project progresses within a historic structure, conditions are frequently found that were not anticipated before interior demolition was undertaken. Additionally, the design and sub-consultant team may determine that certain design modification would benefit the future utility of the building or save money through construction efficiency. Change orders reflect both additional costs as well as credits from necessary changes in scope that are identified during construction.

To facilitate design and construction decisions recommended by the renovation team, CRA staff recommend that a policy delegating a certain level of signing authority to the Executive Director, up to a maximum value of twenty-five thousand dollars (\$25,000). Major change order above this value would still require sign off by the Chair of the Board. Any additional costs related to change orders are absorbed by the approved project contingency. Neither the Executive Director or the Chair could execute change orders above and beyond the approved project budget.

To date, The Board Chair has approved one change order of approximately \$120,000 for the additional cost of the elevator. A second change order of approximately \$81,000 is imminent to support the cost of additional subflooring, abatement of internal caulking discovered during demolition, changes to window selection in coordination with the Cambridge Historical Commission, and credits reflecting a shift in the storm water management scope.

The cost of the second change order largely relates to an increased need for subflooring. Exploratory work conducted prior to the demolition/construction phase was limited due to the building being occupied. Please note the photos on the following page. The upper photos show several layers of flooring that were revealed once contractors were able to conduct more extensive exploration. The lower photos, taken after demolition was completed, shows damaged pine floors and subflooring that requires much greater repair and replacement than known before the demolition phase started, necessitating additional plywood subflooring, which has increased in cost in recent months.

Future change orders are expected to be significantly less expensive. Staff continue to monitor all change orders in the context of the project budget.

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MOTIONS

Authorizing the Chair to enter into a Testing and Inspection Services contract with Briggs Engineering and Testing for an amount not to exceed twenty thousand dollars (\$20,000).

Authorizing the Executive Director to sign project change orders valued less than twenty-five thousand dollars (\$25,000) up to a cumulative total of two hundred and fifty thousand dollars (\$250,000), which represents fifty percent (50%) of the remaining project budget contingency.

EXHIBITS

Exhibit A: Letter of Recommendation from STV|DPM

Exhibit B: RFP For Construction Testing and Inspection

Exhibit C: Price comparison of testing and inspection services responses

Exhibit D: Non-price and Price Proposals from Briggs Engineering and Testing

April 13, 2021

Mr. Tom Evans
Executive Director
Cambridge Redevelopment Authority
99 Bishop Allen Drive, Cambridge MA

RE: Testing and Inspection Services Letter of Recommendation
99 Bishop Allen Dr. Renovation Project.

Dear Mr. Evans:

We solicited proposals for Testing and Inspection Services for the Renovation of 99 Bishop Allen Dr. from 4 firms – asking each to submit Unit Pricing and Qualifications for a specified scope of services.

Scope:

Following consultation with the design team and their consultants, a testing program was designed to accommodate testing for soil compaction, concrete compliance, framing connections and air/water entrainment.

Bid Results:

We received 3 responses to our Request for Proposals. I have attached for you the bid analysis illustrating the unit price comparison with the proposals received from competing bids.

Recommendation:

After consultation with the design team and a review of the submitted pricing against the anticipated testing schedule, it is our recommendation to proceed with Briggs Engineering and Testing on a Time and Materials contract Not to Exceed \$20,000 based on rates from their March 5, 2021 proposal.

Attachments:

Testing and Inspection Services Request for Proposal
Briggs Engineering Price and Technical Proposal
STV Bid Evaluation Form.

Please advise with any questions or concerns.

Respectfully,

Tim MacKay, AIA
Senior Project Manager
OPM, STV Construction, Inc.

cc: Bob Labrecque
Tom Evans
Erica Schwarz
David Silverman

REQUEST FOR PROPOSALS - CONSTRUCTION TESTING & INSPECTION

Cambridge Redevelopment Authority – 99 Bishop Allen Dr. Renovation

**Cambridge Redevelopment Authority – 99 Bishop Allen Dr. Renovation
February 24, 2021**

STV is soliciting proposals on behalf of The Cambridge Redevelopment Authority (CRA) for Construction Testing and Inspection Services for the renovation of 99 Bishop Allen Drive in Cambridge, MA. Three (3) copies of your proposals are required to be submitted and shall be received by the Owner's Project Manager (STV/DPM) for the CRA at One Gateway Center, Suite 951, Newton, MA 02458 no later than 2:00 PM, Friday, March 5, 2021. Any proposal received after the time and date specified or submitted in a form other than that indicated below, will not be considered. Proposals will not be opened publicly. STV will make a list of respondents available upon written request. STV will evaluate the Non-Price Proposals and rate the respondents per the criteria set forth in the Request for Proposals (RFP). The Unit Price Proposals will be reviewed, and the Contract will be awarded to the most responsive and responsible bidder by CRA. The estimated value of Inspection and Testing Services anticipated for this Project is \$15,000.

Construction is expected to start in Mid-March 2021. The project is scheduled to be substantially complete by September 2021. Project consists of a Renovation of 2 existing 1855 buildings, 18,616 sf, four-story plus attic, with associated selective demolition and abatement, site work and site utilities, façade restoration/renovations, windows, roofing, siding, new elevator, fire protection, mechanical, electrical and renovation of plumbing and partial interior renovations. The building is currently used as office space for nonprofit companies who will move out during construction and reoccupy when the construction is completed. At the conclusion of the project the two adjoining buildings will share all new building systems. The General Contractor – GVW, Inc. Designer - Silverman Trykowski Associates, Inc, Geotech Engineer – Haley & Aldrich, Civil Engineer - Bohler. Questions should be directed to Tim MacKay, AIA in writing at timothy.mackay@stvinc.com

I. GENERAL

A. Provide evidence of the following minimum laboratory qualifications:

1. State Licensed (CTL) Concrete Testing Laboratory.
2. Nuclear Regulatory Commission (NRC) Licensed Nuclear Gauge Facility
3. Massachusetts Construction Industry Board (MCIB) Licensed Field Technician with five (5) years minimum experience.
4. ASTM E329, Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction (note: this includes, but is not limited to, the full time in-house services of a professional engineer registered in the Commonwealth of Massachusetts and a minimum of five (5) years' experience for Laboratory and Field Technicians).

B. A separate form for submitting unit prices shall be used. Unit prices for testing services shall be all inclusive, total cost and shall include, as a minimum, the following:

1. Travel time to and from the site, if applicable.
2. Mileage, if applicable.
3. Equipment required for testing.
4. Administrative costs.
5. Test reports emailed to six or more individuals. A written draft of the on-site technicians

REQUEST FOR PROPOSALS - CONSTRUCTION TESTING & INSPECTION

Cambridge Redevelopment Authority – 99 Bishop Allen Dr. Renovation

report shall be presented to the Construction Managers Superintendent prior to departure from site for all daily testing and inspections activities. All inspectors shall sign in and out on a daily basis at the job site.

6. Daily rates for soils, concrete, masonry, wood framing and steel inspectors:

- a. Half day – four (4) hours at the site.
- b. Full day – eight (8) hours at the site.

7. Daily rates for Air and Water testing of Window, Curtainwall and Entrances per AAMA 501 and 502 including all field test reports: Include a complete proposal with submission.

- a. Half day – four (4) hours at the site.
- b. Full day – eight (8) hours at the site.

II. NON PRICE PROPOSAL – EVALUATION CRITERIA

- Listed in order of Value

- A. **EXPERIENCE** - Submit, with proposal, resumes of all laboratory/field technicians and engineers anticipated for use on the project. Laboratory/field technicians and engineers shall have a minimum of 5 years' experience in the field and shall be acceptable to the Owner; the Owner reserves the right to reject any personnel during the duration of the project. The personnel assigned to the project shall remain for the duration and not be replaced without the Owner's consent.
- B. **REFERENCES** - Submit a list of 5 similar projects completed. Provide a list of references with email and phone contact information.
- C. **LONGEVITY** - List how many years your firm has been providing material testing services.
- D. **PROXIMITY** – describe your firm's proximity to the construction site and the time required to respond to short notice calls.
- E. **LEGAL** - List any terminations or legal proceedings in the last 5 years which was concluded adversely against your firm.
- F. **SAFETY** - Provide documentation from and insurance carrier of three years of the firm's workers' compensation modifier and a sample insurance certificate. Provide documentation of OSHA-10 certification of all technicians, engineers, staff, etc. expected to enter the site and service the job.

III. UNIT PRICE PROPOSAL – BID FORM (to be submitted in a separate envelope)

- A. Unit prices for testing services shall be all inclusive, total cost and shall include, as a minimum, the following:
 1. Travel time to and from the site, if applicable.
 2. Mileage, if applicable.
 3. Equipment required for testing.
 4. Administrative costs.
 5. Test reports e-mailed 8 or more recipients.
- B. Identify overtime multiplier that shall apply only to full days exceeding eight (8) hours at the site.
- C. Identify extra cost for less than 24 hours notification if applicable

REQUEST FOR PROPOSALS - CONSTRUCTION TESTING & INSPECTION
Cambridge Redevelopment Authority – 99 Bishop Allen Dr. Renovation

BID FORM (submit on Firm Letterhead)

(page 1 of 2)

IV. SOILS

- A. Mechanical Gradation Analysis (ASTM D-422) _____ / sample
- B. Standard Proctor (ASTM D-698) _____ / sample
- C. Modified Proctor (ASTM D-1557) _____ / sample
- D. Compaction Testing by Nuclear Methods (ASTM D-2922) _____ / half day
 _____ / full day
- E. Compaction Testing by Sand-Cone Method (ASTM D-1556) _____ / half day
 _____ / full day
- F. Soils Engineer, (Professional Engineer) with experience in
 the classification of rock _____ / half day
 _____ / full day
- G. Professional Engineering Time _____ / hour
 _____ / half day
 _____ / full day
- H. Sampling at Site _____ / visit
- I. Overtime multiplier _____ x reg. rate

V. CONCRETE

- A. Field monitoring, slump testing, air testing, fabrication of test
 Specimens, Inspection of reinforcing steel _____ / half day
 _____ / full day
- B. Cylinder Compression Testing (ASTM C-39) _____ / Specimen
- C. Transportation of test specimens to lab _____ / trip
- D. Overtime multiplier _____ x reg. rate

VI. MASONRY

- A. Field monitoring, testing and fabrication of test specimens _____ / half day
 _____ / full day
- B. Mortar Cube Compression Testing _____ / specimen
- C. Grout Prism Compression Testing _____ / specimen
- D. Overtime multiplier _____ x reg. rate

REQUEST FOR PROPOSALS - CONSTRUCTION TESTING & INSPECTION

Cambridge Redevelopment Authority – 99 Bishop Allen Dr. Renovation

VII. STRUCTURAL STEEL

- A. Visual inspection of welds and bolted connections _____ / half day
- B. Ultrasonic Testing of Full Penetration Welded Connections _____ / half day
(ASTM E-164) _____ / full day
- C. Magnetic Particle Testing of Fillet Welds and Partial _____ / half day
Penetration Welds (ASTM E-709) _____ / full day
- D. Overtime multiplier _____ x reg. rate

VIII. WOOD FRAMING

- A. Inspection _____ / half day
_____ / full day
- D. Overtime multiplier _____ x reg. rate

IX. BITUMINOUS CONCRETE

- A. Field monitoring and testing _____ / half day
_____ / full day
- B. Extraction analysis _____ / sample
- C. Coring services _____ / half day
_____ full day
- D. Overtime multiplier _____ x reg. rate

X. AIR and WATER TESTING of WINDOWS, CURTAINWALL and ENTRANCES AAMA 501 & 502

- A. Field monitoring and testing _____ / half day
_____ / full day

XI PROFESSIONAL LIABILITY

- A. Indicate the dollar amount limit of professional Liability
Insurance carried by your firm (Min. \$1 million required): \$ _____

Item	Unit	UTS		Briggs Engineering/ PK Asso.		JTC		Estimated Quantities
		Rate	Estimated Cost	Rate	Estimated Cost	Rate	Estimated Cost	
IV. SOILS								
Mechanical Gradation Analysis (ASTM D-422)	\$/Sample	\$90.00	\$720.00	\$100.00	\$800.00	\$105.00	\$840.00	8
Standard Proctor (ASTM D-698)	\$/Sample	\$100.00	\$800.00	\$125.00	\$1,000.00	\$100.00	\$800.00	8
Modified Proctor (ATSM D-1557)	\$/Sample	\$110.00	\$880.00	\$140.00	\$1,120.00	\$135.00	\$1,080.00	8
Compaction Testing by Nuclear Methods (ASTM D-2922)	\$/Half Day	\$180.00	\$1,440.00	\$180.00	\$1,440.00	\$168.00	\$1,344.00	8
	\$/Full Day	\$350.00	\$2,800.00	\$360.00	\$2,880.00	\$336.00	\$2,688.00	8
Compaction Testing by Sand-Cone Method (ASTM D-1556)	\$/Half Day	\$165.00	\$0.00	\$300.00		\$180.00		
	\$/Full Day	\$320.00	\$0.00	\$600.00		\$340.00		
Soils Engineer, (Professional Engineer) with experience in the classification of rock	\$/Half Day	\$300.00	\$0.00	\$300.00		\$380.00		
	\$/Full Day	\$600.00	\$0.00	\$600.00		\$750.00		
Professional Engineering Time	\$/Hour	\$125.00	\$0.00	\$125.00		\$95.00		
	\$/Half Day	\$500.00	\$0.00	\$500.00		\$380.00		
	\$/Full Day	\$900.00	\$0.00	\$1,000.00		\$750.00		
Sampling at Site	\$/Visit	\$40.00	\$0.00	\$25.00		\$168.00		
Overtime Multiplier	\$ x reg. rate	1.5	\$0.00	1.5		1.5		
V. CONCRETE								
Field Monitoring, slump testing, air testing, fabrication of test Specimens, Inspection of reinforcing steel	\$/Half Day	\$160.00	\$1,920.00	\$220.00	\$2,200.00	\$210.00	\$2,100.00	10
	\$/Full Day	\$320.00		\$440.00		\$380.00		
Cylinder Compression Testing (ASTM C-39)	\$/Specimen	\$12.00	\$720.00	\$20.00	\$800.00	\$12.00	\$480.00	40
Transportation of test specimens to lab	\$/Trip	\$40.00	\$480.00	\$20.00	\$200.00	\$50.00	\$500.00	10
Overtime Multiplier	\$ x reg. rate	1.5		1.5		1.5		
VI. Masonry								
Field monitoring, testing and fabrication of test specimens	\$/Half Day	\$170.00	\$850.00	\$232.00	\$1,160.00	\$180.00	\$900.00	5
	\$/Full Day	\$330.00		\$464.00		\$340.00		
Mortar Cube Compression Testing	\$/ Specimen	\$12.00	\$120.00	\$20.00	\$200.00	\$12.00	\$120.00	10
Grout Prism Compression Testing	\$/Specimen	\$20.00		\$20.00		\$14.00		
Overtime Multiplier	\$ x reg. rate	1.5		1.5		1.5		
VII. STRUCTURAL STEEL								
Visual Inspection of welds and bolted connections	\$/Half Day	\$180.00	\$180.00	\$240.00	\$240.00	\$450.00	\$450.00	1
Ultrasonic Testing of Full Penetration Welded Connections (ASTM E-164)	\$/Half Day	\$200.00		\$248.00		\$600.00		
	\$/Full Day	\$380.00		\$496.00		\$800.00		
Magnetic Particle Testing of Fillet Welds and Partial Penetration Welds (ASTM E-709)	\$/Half Day	\$190.00	\$190.00	\$248.00	\$248.00	\$600.00	\$600.00	1
	\$/Full Day	\$370.00		\$496.00		\$800.00		
Overtime Multiplier	\$ x reg. rate	1.5		1.5		1.5		
VIII. Wood Framing								
Inspection	\$/Half Day	\$180.00	\$720.00	\$220.00	\$880.00	\$380.00	\$1,520.00	4
	\$/Full Day	\$350.00		\$440.00		\$550.00		
Overtime Multiplier	\$ x reg. rate	1.5		1.5		1.5		
IX. BITUMINOUS CONCRETE								
Field Monitoring and Testing	\$/Half Day	\$180.00		\$220.00		\$260.00		
	\$/Full Day	\$350.00	\$1,400.00	\$440.00	\$1,760.00	\$490.00	\$1,960.00	4
Extraction analysis	\$/Sample	\$75.00		\$268.00		\$200.00		
Coring Services	\$/Half Day	\$450.00		\$400.00		\$320.00		
	\$/Full Day	\$700.00		\$800.00		\$500.00		
Overtime Multiplier	\$ x reg. rate	1.5		1.5		1.5		
General testing sub Total			\$13,220.00		\$14,928.00		\$15,382.00	
Add 10% for CM Sequencing			\$1,322.00		\$1,492.80		\$1,538.20	
Testing firm Sub Total			\$14,542.00		\$16,420.80		\$16,920.20	
X. Air & Water Testing of Windows/Curtainwall								
Field Testing	\$/Half Day			\$540.00		\$2,500.00		
	\$/Full Day	\$2,400.00	\$7,200.00	\$1,080.00	\$3,240.00	\$3,500.00	\$10,500.00	3
Estimate cost of services			\$21,742.00		\$19,660.80		\$27,420.20	
XI. PROFESSIONAL LIABILITY								
Indicate the Dollar amount limit of professional Liability Insurance carried by your firm (Min. \$1 million required)				\$ 2,000,000.00		\$ 3,000,000.00		



Briggs Engineering & Testing
A Division of PK Associates, Inc.

Non- Price Proposal to Provide:

**Quality Control Construction Inspection and Material
Testing Services during construction of the proposed:**

**;; 'Dkuj qr 'Cmgp'F t k&g
''''T gpqxc vkqp'Project ''
"Eco dtkf i g, MA**



Prepared For:

**STV Inc.
One Gateway Center
300 Washington Street, Suite 951
Newton, MA 02458**

Attention:

**Mr. Vlo 'O cent{.'CKC
Senior Project Manager**

Respectfully submitted by:
Briggs Engineering & Testing

Submittal Date:

"O ctej 27, 2043

**Corporate Headquarters/Lab:
100 Weymouth Street, Unit B1
Rockland, MA 02370
(781) 871-6040**

**Rhode Island Office/Lab:
100 Pound Road
Cumberland, RI 02864
(401) 658-2990**

**Non-Price Proposal for
Briggs Engineering & Testing
to supply Quality Assurance Construction Inspection
and Materials Testing Services during construction of:**

**""The ; ; 'Dksj qr 'Cmgp'F t k&g ""
""""""""Tgpqxcvklp Project
Eco dtkf i g, MA**

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- Section IV. Partial List of Past Projects with Specific Client Reference Contact Information.**

SECTION I



Briggs Engineering & Testing

A Division of PK Associates, Inc.

STV Construction Inc.
c/o Mr. Tim Mackay, AIA, Snr. Project Mngr.
321 Summer Street, 7th Flr.
Boston, MA 02210

05 March 2021
Proposal 09.21.076
Page 1 of 2

RE: Quality Assurance Testing and Inspections for the New Bremen Middle School Project Located in East Boston, Massachusetts.

Dear Tim:

Thank you for considering Briggs Engineering & Testing to provide our services to your team on the subject project. Briggs E&T as you know, has provided quality assurance on a number of similar projects. Additionally, we understand our role on the team would be to provide the required Quality Assurance Construction Inspection and Materials Testing services here on your 99 Bishop Allen Dr. project. References are included in Section IV. Please take a moment to review some of the continued advantages and benefits of selecting Briggs over our local competition.

Briggs Engineering & Testing is a multi-faceted firm focused on the following disciplines:

- 1. Vertical Building Construction QA/QC Inspection and Materials Testing Services.**
- 2. Geotechnical Engineering and Consulting.**
- 3. Building Envelope Services including Performance & Failure Diagnostics, Moisture Protection Consulting and Construction Phase Application Inspection.**
- 4. Non-Destructive & Mechanical Testing Services.**
- 5. Federal, State and/or Municipal Roadway, Bridge, Airport, Railway & Waterworks Construction QA/QC Testing & QC Management.**

Briggs E&T has provided services on thousands of construction projects over its 55 year history. PK Associates, Inc. d/b/a Briggs Engineering & Testing is a domestic corporation registered in the Commonwealth of Massachusetts, which is currently jointly owned, by Paul M. Skorohod (President) and Kenneth M. Oliver, (Vice President). It has been under their ownership since 1996. We have offices in Rockland, MA and Cumberland, RI. Currently there are no legal matters with regard to PK Associates d/b/a Briggs Engineering and Testing

Briggs E&T's most relevant laboratory certifications and/or accreditations include:

- 1. Massachusetts Dept. of Public Safety licensed Concrete Testing Lab (No. 012),**
- 2. American Association of State Highway and Transportation Officials (AASHTO)**
- 3. Army Corp of Engineers Accredited Materials Testing Laboratory**
- 4. Northeast Transportation Training & Certification Program Certified Lab (NETTCP)**
- 5. MADOT Pre-qualified Materials Testing Lab**

Our accreditations are all validated through 3rd party audits including monitored proficiency tests, which are required to maintain these certifications. We feel they are essential to assure our clients of the accuracy of the data we generate and the competence of our personnel.

www.briggsengineering.com

100 Weymouth Street – Unit B1
Rockland, MA 02370
Phone (781) 871-6040 * Fax (781) 871-4340

100 Pound Road
Cumberland, RI 02864
Phone (401) 658-2990 * Fax (401) 658-2977

Most Quality Assurance Inspection & Testing disciplines have various degrees of inspector qualifications and/or certifications.

If you like, We can also offer inspectors that can be equipped with tablet devices to upload or access the most recent project drawing, sketches, and notifications. Additionally, they can generate real-time advanced copies of field reports for distribution and immediate notifications. Examples of accredited inspectors are below for your review:

- Soils/Earthwork:** NETTCP Certified Soil & Aggregate Inspectors
Certified Engineers in Training (EIT, Mass)
NETTCP Certified Drilled Shaft Inspectors
Registered Professional Geotechnical Engineers (P.E.)
- Concrete:** NETTCP Certified Concrete Inspectors (Field, Batch Plant & Lab)
ACI Certified Grade 1 Field Testing Technicians (ACI-CFTT)
ACI Certified Concrete Construction Special Inspectors (ACI-CCI)
ACI Certified Concrete Lab Testing Technicians Level I & II
NICET Level II Concrete Inspectors
FACE Certified Concrete Floor Flatness/Levelness Testing personnel
- Pre-Cast:** PCI Level II & III Inspectors
- Post-Tensioning:** PT Level I & II Inspectors
- Structural Steel:** AWS Certified Welding Inspectors (AWS-CWI)
ICC Certified Structural Steel & Bolting Inspectors (ICC-SWSI)
ASNT TC-1A Certified Level II & Level III NDE Inspectors
- Fireproofing:** ICC Certified Spray Applied Fireproofing Special Inspectors (ICC-SFSI)
- Masonry:** ICC Certified Masonry Special Inspectors (ICC-SMSI)
Certified Engineers in Training (EIT, Mass)
- Bituminous:** NETTCP Certified Hot Mix Asphalt Inspectors (Field & Plant)
NICET Level I Asphalt Inspectors

Our Building Technology Group which specializes in building envelope application, performance testing & failure diagnostics services is known as one of the best envelope consulting/testing firms in this region. We're staffed and equipped to routinely perform field water leak testing per AAMA 501.2 along with static & pressurized air & water infiltration testing per ASTM E783 & E1105 on installed windows and curtain walls.

We are confident that if you were to tour our facilities and interview our personnel, you would recognize that we provide a value added service at an extremely competitive price.

We have provided our services on some of the largest projects in this region over the past decade. We were selected for these projects after each of the respective project managers reviewed our qualifications, interviewed our staff and then toured our facilities.

Our Management Approach:

As your know, Briggs is departmentalized with department managers overseeing the day-to-day operations of inspectors and technicians in his/her respective department. The department managers will familiarize themselves with the project requirements, attend the kickoff meetings as applicable and become the primary points of contact for the client for those disciplines, which fall under his/her umbrella of responsibility. He or She will coordinate with our daily scheduler Patricia Foley or Christina Protze to assign the appropriately qualified inspector, technician or, Briggs Multi-Disciplined technician. Additionally, he or she will review each field and/or lab report for completeness and accuracy prior to distribution through electronic mail or ftp portal.

Briggs also utilizes a complete software database system for logging, scheduling, flagging and tracking concrete cylinder breaks anywhere in the process. It can also immediately flag and notify key parties through electronic distribution of any low breaks or deficiencies that occurred during compressive strength testing. Additionally, advanced hand written copies of field reports can be left daily on-site with superintendents or designees. Formal type written reports will follow in a minimum of 7 to 10 business days from the date of inspection.

The following is a list of Briggs' personnel who will typically have a role in the day-to-day coordination and management of your project:

1. **Sean Skorohod** **Director of Field & Laboratory Operations (to include Concrete & Reinforcing Steel related services).**
2. **Kevin Curran** **Structural Steel Dept. Manager (to include Structural Steel, Welding, NDE, LGMF along with Curtain Wall Framing & Connections.**
3. **Franck Buckley** **Building Technology/Moisture Protection Dept. Manager (to include Masonry and Bldg. Envelope/Moisture Protection Components).**
4. **Patty Foley** **Rockland, MA Office Manager, Daily Point of Contact for Scheduling of Field Inspections and all Report Distribution.**
5. **Bart Bauer, P.E.** **Special Inspections Coordinator (if needed or requested)**
6. **TBD** **Multi-disciplined Lead Inspector (Soils, Concrete, Rebar)**

Thank you for the opportunity to submit our information. Please feel free to contact me with any questions you may have or if I can be of further assistance.

Very truly yours,
BRIGGS ENGINEERING & TESTING



Todd F. Livolsi
Director of Business Development

SECTION II



Briggs Engineering & Testing

Summary of Accreditations, Certifications and Capabilities

Massachusetts Department of Public Safety Licensed Concrete Testing Laboratory (No. 012)

American Concrete Institute

All Concrete Testing Personnel for Briggs E&T (field & lab) have been tested and are certified by ACI.

Cement And Concrete Reference Laboratory

Briggs E&T is actively involved with the United States Department of Commerce, National Institute of Standards And Technology (NIST, formerly National Bureau of Standards), Cement And Concrete Reference Laboratory. Our firm is listed in the thirty-third and thirty-fourth inspection tour publications. You can verify our firms qualifications on the CCRL website.

Quality Management System - accredited since 4/15/2002

R18, D3666 (Aggregate), D3666 (Asphalt Mixture), D3740 (Soil)

Asphalt Mixture - accredited since 10/1/2003

R68, T30, T164 (Mineral Matter Not Determined), T166, T168, T245, T329, T355, D979, D2726, D2950, D3549, D3665, D5444, D6926, D6927

Soil - accredited since 10/1/2003

R58, T89, T90, T99, T180, T191, T193, T265, T310, D421, D698, D1140, D1556, D1557, D1883, D2216, D2487, D2488, D4318, D4718, D6913, D6938

Aggregate - accredited since 4/15/2002

R76, R90, T11, T19, T21, T27, T84, T85, T255, C29, C40, C117, C127, C128, C136, C566, C702, D75, D4791

Concrete - accredited since 4/15/2002

C31, C39, C42, C78, C138, C143, C172, C173, C231, C511, C617 (6000 psi and below), C1064, C1231 (7000 psi and below), C1542

Masonry - accredited since 6/18/2014

*C511 (Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes)
C1019 (Sampling and Testing Grout)*

U.S. Army Corp of Engineers

Briggs Engineering & Testing laboratory and personnel have been inspected and approved as qualified to perform quality control testing as stipulated by Corps. of Engineers' construction regulations.

Northeast Transportation Training & Certification Program (NETTCP Lab Cert #105)

Briggs has NETTCP inspection & testing personnel certified in the following disciplines:

- a. Soils and Aggregate- Field Inspector (Soil Compaction Testing)*
- a. Soils and Aggregate- Lab Technician*

- b. Concrete Technician- (Batch Plant Inspection)*
- b. Concrete Inspector- (Field Inspection, Sampling & Testing)*

- c. Hot Mix Asphalt- Plant Technician*
- c. Hot Mix Asphalt- Paving Inspector (Field Inspection, Sampling & Testing)*

- d. Drilled Shaft- Inspector*

- e. NETTCP- Certified QA Technologist*

Massachusetts Department of Transportation (MADOT)

Briggs E&T is a MADOT Pre-Approved Materials Inspection and Testing Laboratory

Federal Aviation Administration (FAA) Certified Repair Station No. UN5R255N

Briggs is certified to perform various types of Nondestructive testing and inspections including:

- a. Magnetic Particle*
- b. Dye Penetrant*
- c. Ultrasonic*
- d. Eddy Current*
- f. X-ray*

Window/Curtain Wall Air and Water Infiltration and/or Leak Testing

Briggs is qualified to perform the above testing per:

- a. AMMA - 501.2*
- b. ASTM E783 & ASTM E1105*
- c. ASTM E 1186*
- d. Air/Vapor Barrier Adhesion Testing per ASTM D4541*

Personnel Certifications:

Briggs Quality Assurance Inspection & Testing disciplines have various degrees of inspector qualifications and/or certifications. Below are examples of certifications held by Briggs inspectors, technicians, managers and directors.

Soils/Earthwork:

NETTCP Certified Soil & Aggregate Inspectors
Certified Engineers in Training (EIT, Mass)
NETTCP Certified Drilled Shaft Inspectors
Registered Professional Geotechnical Engineers (P.E.)

Concrete:

NETTCP Certified Concrete Inspectors (Field, Batch Plant & Lab)
ACI Certified Grade 1 Field Testing Technicians (ACI-CFTT)
ACI Certified Concrete Construction Special Inspectors (ACI-CCI)
ACI Certified Concrete Lab Testing Technicians Level I & II
NICET Level II Concrete Inspectors
FACE Certified Concrete Floor Flatness/Levelness Testing personnel

Pre-Cast:

PCI Level III Inspectors

Post-Tensioning:

PT Level I & II Inspectors

Structural Steel:

AWS Certified Welding Inspectors (AWS-CWI)
ICC Certified Structural Steel & Bolting Inspectors (ICC-SWSI)
ASNT TC-1A Certified Level II & Level III NDE Inspectors

Fireproofing:

ICC Certified Spray Applied Fireproofing Special Inspectors (ICC-SFSI)

Masonry:

ICC Certified Masonry Special Inspectors (ICC-SMSI)
Certified Engineers in Training (EIT, Mass)

Bituminous:

NETTCP Certified Hot Mix Asphalt Inspectors (Field & Plant)
NICET Level I Asphalt Inspectors



PKASSOC-01

HGRANADOS

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

10/26/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Commonwealth Ins. Partners, LLC 2 Heritage Drive Suite 301 North Quincy, MA 02171	CONTACT NAME: PHONE (A/C, No, Ext): (617) 847-0005 FAX (A/C, No): (617) 847-0006 E-MAIL ADDRESS: cwmail@cwipllc.com	
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURED	INSURER A : LIBERTY MUTUAL INS. CO.	15628
PK Associates Inc DbA Briggs Engineering And Testing 100 Weymouth St. Rockland, MA 02370	INSURER B : Travelers Property Casualty Insurance Company of America	25674
	INSURER C : Atlantic Charter Insurance Company	44326
	INSURER D : Admiral Insurance Co.	24856
	INSURER E :	
	INSURER F :	

COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:			BKS62227906	10/18/2020	10/18/2021	EACH OCCURRENCE	\$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 300,000
							MED EXP (Any one person)	\$ 15,000
							PERSONAL & ADV INJURY	\$ 1,000,000
							GENERAL AGGREGATE	\$ 2,000,000
							PRODUCTS - COMP/OP AGG	\$ 2,000,000
								\$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident)	\$
							BODILY INJURY (Per person)	\$
							BODILY INJURY (Per accident)	\$
							PROPERTY DAMAGE (Per accident)	\$
								\$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			ZUP-61N33621-20-NF	10/18/2020	10/18/2021	EACH OCCURRENCE	\$ 10,000,000
							AGGREGATE	\$ 10,000,000
								\$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> A If yes, describe under DESCRIPTION OF OPERATIONS below			WCV00741214	10/18/2020	10/18/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER	\$ 1,000,000
							E.L. EACH ACCIDENT	\$ 1,000,000
							E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	\$ 1,000,000
D	Professional Liab.			EO000030864-06	10/22/2020	10/22/2021	Each Claim	2,000,000
D	Professional Liab.			EO000030864-06	10/22/2020	10/22/2021	Aggregate	2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 This certificate is hereby issued as evidence of existing insurance coverage. Workers Comp policy coverage state: MA

CERTIFICATE HOLDER**CANCELLATION**

PK Associates Inc DbA Briggs Engineering And Testing 100 Weymouth St. Rockland, MA 02370	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

10/26/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Commonwealth Ins. Partners, LLC 2 Heritage Drive Suite 301 North Quincy, MA 02171	CONTACT NAME: PHONE (A/C, No, Ext): (617) 847-0005		FAX (A/C, No): (617) 847-0006
	E-MAIL ADDRESS: cwwmail@cwipllc.com		
INSURER(S) AFFORDING COVERAGE			NAIC #
INSURED PK Associates Inc DbA Briggs Engineering And Testing 100 Weymouth St. Rockland, MA 02370	INSURER A : LIBERTY MUTUAL INS. CO.		15628
	INSURER B : Travelers Property Casualty Insurance Company of America		25674
	INSURER C : The Beacon Mutual Insurance Co.		24017
	INSURER D : Admiral Insurance Co.		24856
	INSURER E :		
INSURER F :			

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR			BKS62227906	10/18/2020	10/18/2021	EACH OCCURRENCE	\$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 300,000
							MED EXP (Any one person)	\$ 15,000
							PERSONAL & ADV INJURY	\$ 1,000,000
							GENERAL AGGREGATE	\$ 2,000,000
							PRODUCTS - COMP/OP AGG	\$ 2,000,000
								\$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident)	\$
							BODILY INJURY (Per person)	\$
							BODILY INJURY (Per accident)	\$
							PROPERTY DAMAGE (Per accident)	\$
								\$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE			ZUP-61N33621-20-NF	10/18/2020	10/18/2021	EACH OCCURRENCE	\$ 10,000,000
							AGGREGATE	\$ 10,000,000
								\$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below			0000058215	10/18/2020	10/18/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER	
							E.L. EACH ACCIDENT	\$ 1,000,000
							E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	\$ 1,000,000
D	Professional Liab.			EO000030864-06	10/22/2020	10/22/2021	Each Claim	2,000,000
D	Professional Liab.			EO000030864-06	10/22/2020	10/22/2021	Aggregate	2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 This certificate is hereby issued as evidence of existing insurance coverage. Workers Comp policy coverage state: RI

CERTIFICATE HOLDER PK Associates Inc DbA Briggs Engineering And Testing 100 Weymouth St. Rockland, MA 02370	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

11/03/20

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

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PRODUCER Virta Insurance 167 Washington St Suite 41 Norwell, MA 02061-1697	CONTACT NAME: Barbara	
	PHONE (A/C. No. Ext): 781-878-0120	FAX (A/C. No.): 781-878-3905
E-MAIL ADDRESS: Barbara@VirtaInsurance.com		
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A: Safety Insurance		
INSURER B:		
INSURER C:		
INSURER D:		
INSURER E:		
INSURER F:		

COVERAGES	CERTIFICATE NUMBER:	REVISION NUMBER:
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THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
A	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY	Y	Y	2078072	11/01/20	11/01/21	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y / N If yes, describe under DESCRIPTION OF OPERATIONS below		N / A				PER STATUTE OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Proof of Insurance

CERTIFICATE HOLDER

CANCELLATION

Proof of Insurance

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

SECTION III



Bart D. Bauer, P.E.
Project Engineer & Special Inspections Coordinator
Briggs Engineering & Testing

EDUCATION

B.S. in Civil Engineering, University of Maine, Orono, ME
B.A. in Historic Preservation, Roger Williams University, Bristol, RI

PROFESSIONAL REGISTRATIONS

Registered Professional Engineer
Massachusetts Registered Professional Engineer Civil #42597
Maine Registered Professional Engineer #8720
Rhode Island Registered Professional Engineer Civil #7482

PROFESSIONAL EXPERIENCE

Project Engineer
Briggs Engineering & Testing, A Division of PK Associates Inc.

Mr. Bauer brings over 25 years of extensive experience in all phases of the construction process including Quality Control/Quality Assurance, Risk Assessments for new development projects, Property Condition Assessments along with Administration of Capital Projects and Construction Project Administration. This experience includes all aspects of documenting construction activities as well as Special Inspections Coordinator responsibilities as needed to meet all requirements for a particular project's Statement of Special Inspections and specifications for soils/earthwork, site sewer, utility and/or drainage systems, foundations, concrete/reinforcing steel, masonry, structural steel & LGMF, fireproofing/fire safing, wood framing and asphalt pavement. Mr. Bauer also has extensive experience in assessment, evaluation, construction, and restoration of various building envelope systems.

These skills have been developed through working on projects with Design Professionals, Owners/Developers and General Contractors and include a wide variety of building styles from single family residences to class A commercial high rise towers in many different market sectors. These projects also range from nationally recognized historic preservations to high profile, state of the art new construction. Mr. Bauer has also provided expert witness testimony in arbitration and Court proceedings. In his vast experience, he has consulted on over 1.85 billion dollars of construction activity.

PROFESSIONAL AFFILIATIONS

- Steering Committee Member, The Facilities Engineering and Management Handbook. McGraw-Hill Book Company
- Contributing Author, The Facilities Engineering and Management Handbook. McGraw-Hill Book Company
- Board of Directors, Author, PSMJ's Facility Management Newsletter The Facility Professional
- Author and speaker at various national trade shows and publications



Sean P. Skorohod
Director of Testing-Field & Laboratory Operations
Briggs Engineering & Testing

EDUCATION

Suffolk University, Boston, MA, Course Study in Political Science
Cardinal Spellman High School, Brockton, MA,
Nation Concrete Masonry Association, Various Course Study

PROFESSIONAL REGISTRATIONS

ACI Concrete Construction Special Inspector, License # 00990378
ACI Concrete Field Technician Grade I, License # 00990378
ACI Concrete Laboratory Testing Technician – Level 1 # 00990378
ACI Concrete Laboratory Testing Technician – Level 2 # 00990378
ACI Concrete Strength Testing Technician, License # 00990378
ACI Aggregate Testing Technician – Level 1 # 00990378
FACE F-Number Measurement Certified
Massachusetts Construction Supervisors License, Unrestricted # CS 078038
Troxler Certified in Radiological Safety & Gauge Operation
NETTCP - Soils and Aggregate Inspector, License # 306
Level I Radiographic Assistant
Level II Fireproofing Inspector

PROFESSIONAL EXPERIENCE

Director of Laboratory & Field Operations
Briggs Engineering & Testing, A Division of PK Associates Inc.

Mr. Skorohod began his career with Briggs E&T in 1987. He started as an associate laboratory technician and now has over 25 year experience. Presently, he is directly responsible for the management of both field & laboratory operations in our facilities located in Rockland, MA and Cumberland, RI. His responsibilities include: the training and supervision of the field and laboratory personnel, establishing and supervising testing procedures, the interpretation of data, preparation and maintenance of the laboratory's certifications, conducting budget estimates, reviewing project documents, reviewing of project lab and field reports, coordinating the scheduling of all personnel and for performing Quality Assurance Audits related to the utilization of the nuclear density gauges.

Mr. Skorohod had routinely performed inspection and testing of concrete, soils, fireproofing, complex reinforcing steel inspections and bituminous asphalt, both in the laboratory and in the field. In addition to the above Mr. Skorohod also performed concrete mix designs, aggregate analysis, coring, masonry erection inspection, mortar and grout testing, Windsor Probe Testing and masonry prism strength testing and was previously ICC-SMSI certified in Masonry. During the course of his career he has managed QA/QC construction inspection and materials testing on some of the largest construction projects in New England including: The Boston Harbor Project at Deer Island, The Boston Convention and Exhibition Center, Providence Place Mall, Gillette Stadium/Patriot Place and Foxwoods (MGM Grand) Lot 9 Expansion Project.



Kevin M. Curran
Director of Nondestructive Examination & Structural Steel Departments
Briggs Engineering & Testing

EDUCATION

Scituate High School, 1975
Wentworth Institute, Electronics, 1978
General Dynamics School of Welding, 1978
General Electric NDE Seminars / Cert., 1979
American Welding Society, Weld Examination Seminar, 1981
Heath Consultants, UST / Petrotite Tank Testing Seminar, 1984

PROFESSIONAL REGISTRATIONS

American Welding Society Certified Welding Inspector #98101361
Eddy Current Inspection, Level III
Ultrasonic Inspection, Level II
Radiographic Inspection, Level II
Magnetic Particle Inspection, Level II
Dye Penetrant Inspection, Level II
Underground Storage Tank Inspection
Borosopic & Ground Penetrating Radar Examinations
Certified Diver, Subsurface Investigations

PROFESSIONAL EXPERIENCE

1997-to Present Director of NDE & Structural Steel Departments
Briggs Engineering & Testing, A Division of PK Associates Inc.

Mr. Curran joined Briggs Engineering & Testing in July of 1997 as Director of the NDE / Structural Steel Department. Responsibilities include management, performance / task coordination and training of all personnel relative to structural steel inspection, nondestructive testing, pull-out testing, spray fireproofing & fire stopping inspections, steel fabrication plant QA inspections and GPR testing. Mr. Curran has over twenty five years experience in the field of NDE and specialized testing and is familiar with the AWS, ASME, ASIC, ANSI, MILSTD codes.

1990-1997: Mr. Curran owned & operated his own inspection & consulting firm, On Site Evaluations, which provided NDE Testing and Weld Inspection Services to various industrial, construction, commercial and engineering clients throughout New England.

1982-1989: Mr. Curran was employed at Briggs Associates as Manager of the NDE Dept. Duties included the scheduling and performance of testing and inspections as well as personnel supervision.

PROFESSIONAL AFFILIATIONS

American Society for Nondestructive Testing (ASNT)
American Welding Society (AWS)



Michael S. Williams
Quality Control Inspector (Structural Steel Dept.)
Briggs Engineering & Testing

EDUCATION

Weston High School, 1985
United States Marine Corps - 1986 - 1992
University of Massachusetts, - AAS Civil Engineering, 1996
The American Welding Society, Welding Inspection Seminar, 1997
Construction Inspection & Structural Plan Reading Training Seminar, 1999

PROFESSIONAL REGISTRATIONS

NDE / Magnetic Particle Inspection Technician, ASNT Level II
NDE / Liquid Penetrant Inspection Technician, ASNT Level II
Visual Weld Inspection Technician, Level II
Applied Fireproofing Materials and Coatings Inspection Training by Briggs E&T
Reinforced Masonry Inspection & Product Sampling Training by Briggs E&T
MCIB Certified Class A Concrete Quality Control Technician
Certified in Radiological Safety & Nuclear Moisture Density Gauge Operation

PROFESSIONAL EXPERIENCE

Field Inspector, Applied Materials
Briggs Engineering & Testing, A Division of PK Associates Inc.

Mr. Williams has over ten years of extensive training and experience in the inspection and testing of new building construction materials and their installation procedures for conformance to project specifications. Mr. Williams current duties involve the inspection of structural steel and structural precast concrete in the field and/or fabrication.

As a senior technician for Briggs E&T, Mr. Williams has supervised installations and performed inspection and testing on such notable projects as Gillette Stadium & Patriot Place, The New Boston Convention & Exhibition Center, North Point & Kendall Square Residences in Cambridge and most recently the The Building of Future Project @ Brigham and Women's Hospital in Boston. His responsibilities on those projects included review of welding procedures and verification of welder qualifications (to AWS & ASME codes), visual inspection of welded & bolted connections, nondestructive testing of field weldments, inspection of metal deck and shear stud installations, inspection of paint, spray applied fireproofing as well as concrete and reinforced masonry assemblies.

In addition, Mr. Williams is also trained, certified and experienced in soils compaction testing utilizing a Nuclear Moisture Density Gauge.

PROFESSIONAL AFFILIATIONS

American Society for Nondestructive Testing Member
American Welding Society Member



**Dennis M. Gonet
Certified Welding Inspector
Briggs Engineering & Testing**

EDUCATION

Thames Valley Technical College

PROFESSIONAL REGISTRATIONS

**American Welding Society, Certified Welding Inspector, #95020381
Ultrasonic Inspection Technician, Level II
Magnetic Particle Inspection Technician, Level II
Liquid Penetrant Inspection Technician, Level II
Visual Weld Inspector, Level II**

PROFESSIONAL EXPERIENCE

Field Inspector, Applied Materials
Briggs Engineering & Testing, A Division of PK Associates Inc.

Mr. Gonet has over twenty years of extensive construction, welding and inspection experience related to complex steel structures in both the fabrication plant and on-site erections. He has overseen both steel fabrication and erection processes. This includes bolting inspection, nondestructive testing, metal deck and shear stud inspection, paint inspection, dimensional verifications, review and writing of welding procedures and qualifications (ASW & ASME)), and applied fireproofing inspection and testing.

Most recently, Mr. Gonet has performed all of the welding and inspections on projects such as Foxwoods Lot 9 Expansion, Gillette Stadium/Patriot Place and General Dynamics Electric Boat Bay 4 ORAFC Facility.

Prior to joining Briggs, he was employed by Materials Testing Inc., Special Testing Laboratories, Stone & Webster and Thielsch Engineering Inc.

Mr. Gonet is also certified in GTAW, GMAW and SMAW Welding.

PROFESSIONAL AFFILIATIONS

American Welding Society Member



Jason Curran
Field Inspector, Applied Materials
Briggs Engineering & Testing

EDUCATION

Middleboro High School, 2001
Massasoit Community College, 2004

PROFESSIONAL REGISTRATIONS

ICC Certified Spray Applied Fireproofing Inspector
Construction Specification Conformance Training in Structural Inspection Methods
Massachusetts Class "A" Concrete License
FACE F-Number Measurement Certified (Floor Flatness/Levelness Testing)
Troxler Certified in Radiological Safety & Nuclear Moisture/Density Gauge Operation

PROFESSIONAL EXPERIENCE

1998-to Present **Field Inspector, Applied Materials**
Briggs Engineering & Testing, A Division of PK Associates Inc.

Mr. Curran has nine plus years of extensive training and experience in the inspection and testing of new building construction for conformance to project and building code requirements. Mr. Curran's primary duties involve the testing and inspection of spray applied fireproofing materials, firestopping installation inspection, waterproofing applications, concrete placement inspection, floor flatness/levelness testing, and soil compaction testing. In addition, he has experience in all facets of material laboratory testing and is familiar with the current standard test methods on materials including, but not limited to, concrete, masonry, bituminous asphalt, aggregates and soil.

A sampling of the projects that Mr. Curran has been involved with since joining Briggs includes:

Gillette Stadium, Foxboro	Boston Convention and Expo Center
Foxwoods Expansion	Northeastern University / Various Projects
International Gateway/Logan	Liberty Place
MIT Graduate Residences	Marriott Waterfront Hotel, So. Boston
UMass Aiken St. Student Housing	UMass Integrated Science Center
UMass Commonwealth Honors Project	UMass University Crossing

PROFESSIONAL AFFILIATIONS

American Society for Nondestructive Testing Member
American Welding Society Member



Franck A. Buckley
Director / Consultant
Building Envelope Technology
Briggs Engineering & Testing

EDUCATION

Wentworth Institute of Technology, Boston, MA B.S. Construction Management
Blue Hills Technical Institute, Canton, MA, A.S. Architectural Technology

PROFESSIONAL REGISTRATIONS

MA Construction Supervisor License – Unrestricted- #066822
U.S. Department of Labor, OSHA, 10-Hour Construction Safety & Health Training Course

PROFESSIONAL EXPERIENCE (1986 to Present)

Division Director (1996 to Present)

Briggs Engineering & Testing, A Division of PK Associates Inc.

Leads the Existing Building Services Group with Specialized knowledge in building envelope technology. Experienced in historic & modern construction materials & assemblies including concrete, masonry, wood, metal, moisture protection (roofing, siding, waterproofing, flashing, air/vapor barriers, etc.), and fenestrations (windows, exterior doors & curtain walls). Trains & supervises group members and evaluates overall job efficiency. Performs evaluations, remedial design & specifications, competitive bidding and contract administration services. Advise clients on high quality, cost effective maintenance, renewal and rehabilitation solutions. Consulting to prominent New England industrial, institutional, municipal and multi-residential property owners.

Project Manager (1990 to 1996)

Briggs Engineering & Testing, A Division of PK Associates Inc.

Organized exterior building restoration projects with owners, architects/engineers, manufacturers and contractors. Performed initial condition assessments and specific problem investigations. Assisted in design & construction document developments. Coordinated pre-construction and site meeting. Maintained effective work force relationships consistently in an effort to achieve project objectives. Monitored the construction of concrete, masonry, EIFS, and curtain wall systems for conformance of standards. Reviewed progress applications & certificates for payments and closed out projects.

Field Technician (1986 to 1990)

Briggs Engineering & Testing, A Division of PK Associates Inc.

MAJOR PROJECTS

Building Envelope Consulting, Various Campus Buildings, Northeastern Univ. Boston, MA,
Building Envelope Consulting 29 Garden St., Harvard University Cambridge, MA
Roof Evaluations, Campus Buildings, Wheaton College, Mansfield, MA
Window Testing, Campus Ctr., Worcester Polytechnic Institute, Worcester, MA
Plaza/Garage Deck Waterproofing, Charles River Condominium, Boston, MA
Roofing & Panelized Building Façade Inspections, Plainridge Park Casino, Plainridge, MA

SECTION IV

BRIGGS PROJECT REFERENCE

EXAMPLE PROJECT
BLDG. ENVELOPE

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

TITLE AND LOCATION (City and State)		CONSTRUCTION TYPE	
L.B. Johnson Apartments 150 Erie Street, Cambridge, MA		PROFESSIONAL SERVICES Testing and Inspections	CONSTRUCTION (if applicable) RENOVATION

PROJECT OWNER'S INFORMATION

PROJECT OWNER The Cambridge Housing Authority Cambridge, MA	POINT OF CONTACT NAME Mr. Robert Labrecque Director of Planning and Dev. Cambridge Housing Authority	POINT OF CONTACT TELEPHONE NUMBER 617-520-6237- Office
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BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope size, and cost)

Project Overview

Construction at Lyndon B. Johnson Apartments started in September 2010, and was completed in October 2012. Improvements included new windows, exterior cladding, roofing and EIFS was installed on the inside walls of the parapet, surrounding the new roof of the building, and was installed around the building. Final site improvements included repaving the parking lots, and refurbishing the back courtyard and front entry. Briggs Engineering and Testing provided comprehensive inspection and testing on roofing components, windows, structural steel and EIFS.

Relevance to this Project

- Inspection and testing of windows
- Inspection and testing of structural steel
- Inspection of roofing application
- EIFS Inspections



FIRMS INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Briggs Engineering and Testing	Rockland, MA, Boston, MA Cumberland, RI	Provide 3 rd Party Independent Testing and Inspection Services
b.	Tise Design Associates	Newton, MA	Mr. Timothy Smith, Project Manger Tel: 617-581-6601

BRIGGS PROJECT REFERENCE

EXAMPLE PROJECT
MUNICIPAL HOUSING

TITLE AND LOCATION (City and State)

CONSTRUCTION TYPE

Old Colony Housing Redevelopment Project, Phase I & II

PROFESSIONAL SERVICES
Testing and Inspections

CONSTRUCTION TYPE
NEW/VERTICAL

PROJECT OWNER'S INFORMATION

PROJECT OWNER
Boston Housing Authority

POINT OF CONTACT NAME
**Jim Mitrano, Owners Project
Mngr., WaypointKLA**

POINT OF CONTACT TELEPHONE NUMBER
**617-875-6875- Jim Mitrano
(jamesmitrano@waypointkla.com)**

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

Project Overview

Built in 1940, the Old Colony development is currently the most physically distressed site in the BHA's federal portfolio. The site is one of the largest in the BHA's portfolio and is comprised of more than 16 acres of 873 apartments in 22 three-story brick walk up buildings.

With \$60 million in redevelopment funds for phase one. It included 150 new units of housing and a new community center. The Master Planning process included participation with Old Colony residents and the broader South Boston neighborhood. The new housing at the site included a variety of building types to house existing residents.

A major emphasis of the redevelopment was the inclusion of green building and energy efficient measures. Building envelope, interiors, and systems were designed to achieve an optimum standard in green and healthy housing. Phases I & II were completed in 2015. Phase III is ongoing.



Relevance to this Project (full time)

- Inspection and testing of concrete & rebar
- Inspection and testing of soils/earthwork
- Inspection of wood frame and structural members
- Inspection & testing of structural masonry
- Inspections and testing of building envelope



FIRMS INVOLVED WITH THIS PROJECT

	FIRM NAME	FIRM LOCATION (City and State)	ROLE
a.	Briggs Engineering and Testing	Rockland, MA, Boston, MA Cumberland, RI	Provide 3 rd Party Independent Testing and Inspection Services
b.	Beacon Community Development LLC, Project Developer	Boston, MA Darcy L. Jameson	Office: (617) 547-1132, E-djameson@beaconcommunitiesllc.com

BRIGGS PROJECT REFERENCE

EXAMPLE PROJECT
MUNICIPAL FACILITIES

TITLE AND LOCATION (City and State)

CONSTRUCTION TYPE

Essex Public Safety Building Project, Essex, MA

PROFESSIONAL SERVICES
Testing and Inspections

CONSTRUCTION TYPE
NEW/VERTICAL

PROJECT OWNER'S INFORMATION

PROJECT OWNER
Town of Essex

POINT OF CONTACT NAME
**Tim Dorman, Owners Project
Mngr., WaypointKLA**

POINT OF CONTACT TELEPHONE NUMBER
**617-957-4636
(tim.dorman@NV5.com)**

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

Project Overview

The new Essex Public Safety building consists of approximately 24,500 square feet of new construction and is now a combined police and fire department facility. The building consists of apparatus bays, office, meeting, storage and other programmatic spaces necessary for the operation of police and fire services. The majority of the building structure is steel-framed with additional light-gauge metal framing, with a portion of cast-in-place concrete structure supporting the apparatus bay.

Cladding is a combination of wood, composite and masonry, with continuous rigid insulation. The project was awarded to, and built by G&R Construction with NV5 providing owners project management services.



Relevance to this Project (full time)

- Inspection and testing of concrete & rebar
- Inspection and testing of soils/earthwork
- Inspection of wood frame and structural members
- Inspection & testing of structural masonry
- Inspections and testing of building envelope



FIRMS INVOLVED WITH THIS PROJECT

	FIRM NAME	FIRM LOCATION (City and State)	ROLE
a.	Briggs Engineering and Testing	Rockland, MA, Boston, MA Cumberland, RI	Provide 3 rd Party Independent Testing and Inspection Services
b.	Town of Essex	Official: Mr. Brendhan Zubricki, Town Administrator	Office: (978)-7686531

BRIGGS LIBRARY PROJECT REFERENCE

**EXAMPLE PROJECT
MUNICIPAL**

TITLE AND LOCATION (City and State)

CONSTRUCTION TYPE

The New East Boston Public Library Project

PROFESSIONAL SERVICES
Testing & Inspections

CONSTRUCTION TYPE
NEW/VERTICAL

PROJECT OWNER'S INFORMATION

PROJECT OWNER

The City of Boston Massachusetts

POINT OF CONTACT NAME

**Mr. Peter J. Cheever, P.E. Pres.
Structural Engineer of Record**

POINT OF CONTACT TELEPHONE NUMBER

617-868-1200 Ext: 405

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

Project Overview

The new East Boston Branch of the Boston Public Library was a \$17.4M project overlooking Bremen Street Park. At 15,000 square feet, the new branch now serves the entire community with more than double the combined public space of the two branches currently operating in East Boston.

The project was a part of the City of Boston's capital plan. Complying with former Mayor Menino's Executive Order Relative to Climate Change, the 15,000-square-foot building is now a model for building and energy efficiency. The new East Boston Branch achieved LEED Silver certification by the United States Green Building Council (USGBC). Construction was completed in the fall of 2013.

The City of Boston's Property and Construction Management Department now manages the project. The architect of the new East Boston Branch was William Rawn Associates, Architects, Inc. .

Relevance to this Project

- Inspection and testing of concrete & rebar
- Inspection and testing of soils/earthwork
- Inspection of structural steel & fireproofing



FIRMS INVOLVED WITH THIS PROJECT

	FIRM NAME	FIRM LOCATION (City and State)	ROLE
a.	Briggs Engineering and Testing	Rockland, MA, Boston, MA Cumberland, RI	Provide 3 rd Party Independent Testing and Inspection Services
b.	William Rawn Associates Project Architect	Boston, MA	Ms. Carla Ceruzzi, 617-423-3470 Project Manager/Architect

BRIGGS PROJECT REFERENCE		EXAMPLE PROJECT
TITLE AND LOCATION (City and State)		CONSTRUCTION TYPE
114 Mount Auburn Street Project Expansion 114 Mt. Auburn Street, Cambridge, Massachusetts		PROFESSIONAL SERVICES Testing and Inspections
		CONSTRUCTION (if applicable) NEW/VERTICAL/RENO

PROJECT OWNER'S INFORMATION

PROJECT OWNER Carpenter & Company Cambridge, MA	POINT OF CONTACT NAME Mr. Chad Siebel, Sr. PM CSL Consulting – Owners PM	POINT OF CONTACT TELEPHONE NUMBER 781-222-5127 – T (csiebel@csl-consulting.com)
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BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope size, and cost)

Project Overview

The 114 Mount Auburn St. and the redevelopment of the Conductor's Building in Cambridge, Mass., took place in 2014.

Developer Carpenter & Co., who built the Charles Hotel in the 1980s, constructed an eight-story, 70,000-square-foot building that included a restaurant, retail and office space near the hotel. The \$65 million development included a new main building that was 100 percent leased to Harvard University. The 5,000-square-foot Conductor's Building historic renovation happened simultaneously. The project was designed by Elkus Manfredi Architects, Constructed by Tishman and was Managed by CSL – Consulting, LLC. Briggs Engineering and Testing Provided comprehensive construction inspections and materials testing throughout the project on behalf of CSL the owners project management firm.

Briggs Providing Services for:

- Inspection and testing of concrete
- Inspection of structural steel
- Inspection and testing of masonry
- Inspection of building envelope and moisture barrier protection



FIRMS INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Briggs Engineering and Testing	Rockland, MA, Boston, MA Cumberland, RI	Provide 3 rd Party Independent Testing and Inspection Services
b.	CSL Consulting, LLC	Owners Project Manager	Office: (781)-222-5120
	Elkus Manfredi Architects	Project Architect & Designer	David Manfredi – (617)-426-1300

REQUEST FOR PROPOSALS - CONSTRUCTION TESTING & INSPECTION

Cambridge Redevelopment Authority – 99 Bishop Allen Dr. Renovation

BID FORM (submit on Firm Letterhead)

(page 1 of 2)

IV. SOILS

A.	Mechanical Gradation Analysis (ASTM D-422)	<u>\$75.00</u> / sample
B.	Standard Proctor (ASTM D-698)	<u>\$125.00</u> / sample
C.	Modified Proctor (ASTM D-1557)	<u>\$125.00</u> / sample
D.	Compaction Testing by Nuclear Methods (ASTM D-2922)	<u>\$180.00</u> / half day <u>\$360.00</u> / full day
E.	Compaction Testing by Sand-Cone Method (ASTM D-1556)	<u>\$300.00</u> / half day <u>\$600.00</u> / full day
F.	Soils Engineer, (Professional Engineer) with experience in the classification of rock	<u>\$300.00</u> / half day <u>\$600.00</u> / full day
G.	Professional Engineering Time	<u>\$125.00</u> / hour <u>\$500.00</u> / half day <u>\$1,000.00</u> / full day
H.	Sampling at Site	<u>\$25.00</u> / visit
I.	Overtime multiplier	<u>1.5</u> x reg. rate

V. CONCRETE

A.	Field monitoring, slump testing, air testing, fabrication of test Specimens, Inspection of reinforcing steel	<u>\$180.00</u> / half day <u>\$360.00</u> / full day
B.	Cylinder Compression Testing (ASTM C-39) (4 X 8)	<u>\$12.00</u> / Specimen
C.	Transportation of test specimens to lab	<u>\$25.00</u> / trip
D.	Overtime multiplier	<u>1.5</u> x reg. rate

VI. MASONRY

A.	Field monitoring, testing and fabrication of test specimens	<u>\$220.00</u> / half day <u>\$440.00</u> / full day
B.	Mortar Cube Compression Testing	<u>\$18.00</u> / specimen
C.	Grout Prism Compression Testing	<u>\$18.00</u> / specimen
D.	Overtime multiplier	<u>1.5</u> x reg. rate

REQUEST FOR PROPOSALS - CONSTRUCTION TESTING & INSPECTION

Cambridge Redevelopment Authority – 99 Bishop Allen Dr. Renovation

VII. STRUCTURAL STEEL

- | | | |
|----|---|--|
| A. | Visual inspection of welds and bolted connections | <u>\$240.00</u> / half day |
| B. | Ultrasonic Testing of Full Penetration Welded Connections
(ASTM E-164) | <u>\$248.00</u> / half day
<u>\$496.00</u> / full day |
| C. | Magnetic Particle Testing of Fillet Welds and Partial
Penetration Welds (ASTM E-709) | <u>\$248.00</u> / half day
<u>\$496.00</u> / full day |
| D. | Overtime multiplier | <u>1.5</u> x reg. rate |

VIII. WOOD FRAMING

- | | | |
|----|---------------------|--|
| A. | Inspection | <u>\$220.00</u> / half day
<u>\$440.00</u> / full day |
| D. | Overtime multiplier | <u>1.5</u> x reg. rate |

IX. BITUMINOUS CONCRETE

- | | | |
|----|------------------------------|--|
| A. | Field monitoring and testing | <u>\$220.00</u> / half day
<u>\$440.00</u> / full day |
| B. | Extraction analysis | <u>\$265.00</u> / sample |
| C. | Coring services | <u>\$400.00</u> / half day
<u>\$800.00</u> / full day |
| D. | Overtime multiplier | <u>1.5</u> x reg. rate |

X. AIR and WATER TESTING of WINDOWS, CURTAINWALL and ENTRANCES AAMA 501 & 502

- | | | |
|----|------------------------------|---|
| A. | Field monitoring and testing | <u>\$540.00</u> / half day
<u>\$1080.00</u> / full day |
|----|------------------------------|---|

XI PROFESSIONAL LIABILITY

- | | | |
|----|---|--------------------------|
| A. | Indicate the dollar amount limit of professional Liability
Insurance carried by your firm (Min. \$1 million required): | \$ <u>\$2,000,000.00</u> |
|----|---|--------------------------|

IF SELECTED, WE WOULD INCLUDE OUR MISCELLANEOUS AND GENERAL CONDITIONS SECTIONS BELOW AS PART OF THIS PROPOSAL.



Briggs Engineering & Testing

A Division of PK Associates, Inc.

Mr. Tim Mackay, AIA, Sr. Project Mngr.
Senior Structural Engineer
c/o Bayside Engineering
600 Unicorn Park Drive
Woburn, MA 01801

05 March 2021
Proposals 09.21.074
Page 1 of 3

**RE: Quality Assurance Testing and Inspections for the ; ; 'Dkij qr 'Cngp 'F t k g 'Tgpqxcvklp
Projects'hqt 'vj g'EJ C in'Eco dt k i g. MA.**

Dear Tim:

Pursuant to your RFP's, I am pleased to present you with the following Miscellaneous and General Conditions supplement to be included as part of Briggs proposals for your review and consideration:

UNIT PRICE FEE SCHEDULE / CONTRACT FOR SERVICES

I. MISCELLANEOUS

1. **Registered Professional Engineer or S.I. Coordinator** \$125/hour
(if needed, the S.I. Coordinator services can be proposed separately)
2. ACI-CCI or NETTCP Certified Inspector (if needed or required) \$65/hour
3. QA/QC Project Engr. or Dept. Head (for consultation or meetings as needed) \$75/hour
4. **Multi-Disciplined QA/QC Inspector** \$55/hour
One inspector, assigned on a "full-time" or periodic basis who performs multiple inspection disciplines during the course of one site visit (inc. Soils Compaction Testing, Reinforcing Steel Inspections, Concrete Placement Testing, Masonry Product Sampling and/or Bituminous Asphalt)
5. Inspector's R/T mileage reimbursement per site visit No Charge
6. Moisture Protection & Building Envelope Design/Failure Consultant \$125/hour
7. Parking at jobsite and tolls By Client
8. Courier Service to transport test specimens from the site to our lab. \$25/trip
9. Extraordinary Administrative Expense \$35/hour
10. Normal turn around time for Laboratory results is five (5) working days.
Requested "Rush" Laboratory Results will be charged at twice the per test cost.
11. Travel related expenses for off-site fabrication plant inspections will be billed at cost.

The Client agrees, to the fullest extent permitted by law, to limit BE&T's liability to the Client for any and all claims, losses, costs, damages of any nature whatsoever or claims expenses from negligent errors or omissions or causes, including reasonable attorney's fees and costs and expert witness fees and costs, so that the total aggregate liability of BE&T to Client shall not exceed the amount of BE&T's total fee for services rendered on this project. It is intended that this limitation shall apply to any and all liability or cause of action however alleged or arising, unless otherwise prohibited by law.

Client waives any claim against BE&T to the fullest extent permitted by law, and agrees to defend, indemnify, protect, and hold harmless the consultant, its officers, directors, employees, agents and sub-consultants from any and all claims, liabilities, damages, or expenses including but not limited to delay of the project, reduction of property value, fear of or actual exposure to or release of toxic or hazardous substances, and any consequential damages of whatever nature, which may arise directly or indirectly as a result of the services provided by BE&T under this agreement, unless such injury or loss is caused by the sole negligence or willful misconduct of Consultant.

In an effort to provide resolution for any conflicts that may arise during the consultation or construction of the Project, the Client and BE&T agree that all disputes between them, arising out of or relating to this Agreement, shall be submitted to non-binding mediation unless the parties agree otherwise.

BE&T shall not be required to author or execute any documents that would certify, guarantee or warrant the existence of conditions whose existence BE&T has been contracted to ascertain or over which BE&T has no control. Paper copies of specs, structural & shop drawings must be available, or provided to Briggs beforehand, or on site for our inspectors to reference at the time of their inspections.

In providing services under this Agreement, BE&T will endeavor to perform in a manner consistent with the degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances. BE&T makes no warranty, express or implied, as to its professional services rendered under this Agreement. Drawings, specifications and other documents prepared by BE&T are instruments of BE&T's service and are for the Client's use solely with respect to this Project. It is expected that the Client will undertake their due diligence to confirm and/or review information provided by BE&T. BE&T shall retain all common law, statutory and other reserved rights, including the copyright. Upon completion of the Project or termination of this Agreement, the Clientship of these instruments of Service shall transfer to the Client only after BE&T has been paid in full for services rendered and for all applicable reimbursable expenses. When transmitting copy-right-protected information for use on the Project, the transmitting party represents that either the copyright Client of the information or has permission from the copyright Client to transmit the information for its use on the Project. Briggs agrees to supply competent, qualified personnel, satisfactory equipment and laboratory facilities as required by the project specifications and applicable legal and engineering standards to perform the Quality Assurance and/or Quality Control Engineering services outlined on the preceding pages of this contract.

REPORTS: Reports represent an opinion based on our best effort by applying recognized industry and accreditation body standards. It seeks to identify design/construction related concerns and/or answer question by offering opinion-based insight and direction and/or test results. The information set forth is time sensitive and therefore is subject to change. It is clearly understood that this work might become inaccurate based on changes. Design evaluation is strictly based on opinion and experience, for specific locations and/or for specified requirements. Briggs and the author assume no responsibility or liability for any errors, accuracy or omissions as to the content of their report(s).

Additional services if requested by the Client will be quoted at an hourly rate based upon BE&T's Standard Schedule of Fees or at an agreed upon fee and will only be provided upon approval of the Client or under a new approved fee proposal.

IMMEDIATE SUSPENSION OF WORK FOR CAUSE: BE&T reserves the right to suspend and/or terminate the contract immediately when BE&T's employees, subcontractors, company or equipment have been subjected to harm/damage and/or safety concerns. Otherwise, either party upon ten (10) days written notice sent first class mail, return receipt requested, may terminate this agreement. In the event of termination, Client shall pay for all reasonable charges for work performed and demobilization by BE&T through the tenth (10th) day after mailing the notice of termination. The limitation of liability and indemnity obligation of the agreement shall be binding not withstanding any termination of this agreement.

Exceptions: If Briggs shall be unable to perform or be prevented from performing hereunder or if the Client should be forced to stop Briggs work due to public emergency or necessity, breach of ethics, legal restrictions, labor disputes, strikes, boycotts, acts of God or for any other reason beyond the control and without fault of Briggs or Client, Briggs or the Client shall not hereby incur liability or be penalized except that the charge for the particular services not performed shall be abated by Briggs and the Client shall pay for work performed.

Prices quoted in this proposal are exclusive to the proposal and are firm for 30 days. The contract will be subject to an escalation of 4.49% on each anniversary date of the executed contract. If our proposal is not executed within the 30-day period from date of issuance, then rates are subject to change. Prices quoted in this proposal assume there are no prevailing wage requirements for the services contained herein.

Payment/Billing Terms:

Rates for all field or plant services are portal to portal. BE&T's field construction inspection and/or materials testing services will require a 4-hour min per visit. There is no minimum charge for time spent in our office performing research, calculations and/or preparing reports.

Rates for standard field QA/QC inspection and/or construction testing services will be billed in half day or full day increments. Four (4) hours or less constitutes a half-day. 4-8 hours constitutes a full day. Second and third shift rates will require a full day min. per site visit Monday thru Sunday. Overtime (over 8 hours/day) Mon-Fri, Client requested Special Shift hours (other than 0730-1600) or Saturdays will be charged at base rate x 1.5; Sundays and Holidays will be charged at the base rate x 2.0. Sunday &/or holiday shifts require full day min. per site visit.

Mileage will be billed @ 0.00/mile for this project. Reimbursable expenses (where applicable) will be charged at the cost plus 10%.

Requests for standard inspection or testing services must be received a minimum of 48 hours prior to inspections needed. Short notification (after 1:00pm the workday prior) or same day notification will be subject to a \$50 surcharge. Cancellation of scheduled inspection services must be received by 5:00pm the workday prior. Failure to notify us of a cancellation before 5:00pm the workday prior for a job which starts prior to 12:00pm the next day will result in the respective minimum charges for that service. Same day cancellations for work scheduled after 12:00 noon will be subject to a \$50 surcharge provided the technician has not already left for the jobsite in which case the client will be charged the respective minimum charges for that service.


Invoices rendered are due and payable within thirty (30) days of the date the invoice is received and the Client agrees to pay Briggs all monies owed within thirty (30) days of that date. The Client agrees to pay all reasonable attorney fees and costs incurred in the collection amounts due and owing to Briggs if this matter shall be referred to an attorney for collection.

Default: Non-payment by the Client within thirty (30) days shall be considered Client default and Briggs reserves the right to cease work and to be paid for that work performed. Late payments: 1.5% interest per month (18% per annum) on balances out beyond original terms.

The Client explicitly understands and agrees that the Consultant's fees for professional services for this project are payable per the terms stated herein and are not dependent upon funding for the project, approval by agencies, or the construction of the project. The Consultant will not issue final report if the Client account is not current.

This contract is subject to all applicable Federal, State and Municipal laws and regulations now in force, or which may be enacted in the future.

Client Name: _____ Briggs Engineering & Testing

Accepted By: _____ Submitted By:  _____
(Signature) Todd F. Livolsi, Director of Business Dev.

Title: _____ Date: _____ March 5, 2021

Date: _____