



# Hill International

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March 8, 2019

Mr. Ray Masak, P.E.  
Project Manager  
Town of Brookline Building Department  
333 Washington Street  
Brookline, MA 02445

Re: William Rawn Associates Amendment 4:

Dear Ray:

Attached please find a proposal and amendment for additional services from William Rawn Associates (WRA) for additional geotechnical work at the Cypress Building and on MBTA property. This investigation is recommended by both the design team and the construction manager. The soil pre-characterization is required to remove soils from the site, when that time comes this summer. We reviewed and corrected the original proposal to remove fee for work that was previously contracted.

This Amendment 4 for \$134,355.00 will be paid through the AE Amendments line item in the budget. The Purchase Order Number is 21803108 and Vendor Number is 53540 for WRA.

The attached letter from WRA dated March 7, 2019 and supporting memorandums from McPhail Associates describe the four tasks under this proposal and amendment. Don't hesitate to call with any questions.

Very truly yours,

Paul G. Kalous AIA  
Program Director

cc. S. Lasky WRA  
E. Tellander WRA  
A. Jonic WRA  
T. Guigli, ToB

Ray Masak  
Project Manager  
Town of Brookline Building Department  
Brookline Town Hall  
333 Washington Street  
Brookline, MA 02445

March 7, 2019

Project Name: Brookline High School Expansion Project

**Re: Contract Amendment #4**

*Additional Service Proposal for Additional Geotechnical Engineering Services, Geotechnical Reimbursable Expenses, and 2 Test Pits on the Inbound MBTA Platform*

Dear Ray,

In conjunction with our geotechnical engineer, McPhail Associates, we are requesting additional services for the following scopes of work. Please see McPhail's attached memorandum for more information.

**Scope #1 (McPhail Task 1): Cypress Building – Reimbursable Expenses for Geotechnical Borings on MBTA Property**

**\$16,550**

The fee for this additional work includes:

- Right of Way Training (ROW) for McPhail & the drilling crew
- Railroad insurance endorsements
- Railroad Insurance
- 3 pre-boring site visits with drillers, Hill Int'l, and the MBTA

**Scope #2 (McPhail Task 2B): BHS Expansion Project Soil Pre-Characterization** **\$30,000**

During Design Development Phase McPhail determined that an additional 8,000 cy of soil will be removed from the project site requiring additional laboratory testing. The additional soil removals are a result of tighter site constraints and fully developed building plans. This proposal covers the cost of additional testing which is required for Massachusetts landfills.

**Scope #3: (McPhail Task 2D): STEM Wing LSP Services** **\$47,000**

During soil pre-characterization at the STEM building site in December 2018, McPhail found contaminated soil. Additional field assessment is required to determine the overall contaminated area. This fee includes the additional field work and reporting/response services provided by a Licensed Site Professional (LSP).

**Scope #4: (BSI Engineering): MBTA Inbound Platform Test Pits** **\$19,500**

The structural design of the new Cypress building requires the placement of a column line (D line) between the Brook Channel Culvert and the inbound platform. Due to a lack of documentation of the

existing site retaining wall and the existing 111 Cypress Building foundation wall we recommend digging two test pits to determine the depth and profile of the walls. BSI Engineering's proposal is to perform this work on MBTA property during non-revenue hours. Their proposal assumes (2) nights of work between 12am and 4:00am. We have included an allowance in the fees below in case the MBTA restricts non-revenue work to fewer hours each night. WRA and BSI will seek Owner approval prior to release of allowance funds.

*BSI Engineering: \$19,500*

*McPhail: \$93,550*

*WRA Admin (10%): \$11,305*

*MBTA Test Pit Allowance: \$10,000\**

*\*Allowance funds can only be requested if MBTA night work exceeds 4 hours per night x 2 nights.*

**Total Fee: \$134,355**

We propose that McPhail join WRA during the March 13<sup>th</sup> Building Commission meeting to assist with the presentation of these additional fees. Please let us know if you have any questions or comments.

Regards,



Andy Jonic, AIA

Senior Associate

William Rawn Associates, Architects Inc.

*Attachments: McPhail proposal dated March 4, 2019*

# ATTACHMENT F

## CONTRACT FOR DESIGNER SERVICES

### AMENDMENT NO. 4 \_\_\_\_\_

**WHEREAS**, the Town of Brookline \_\_\_\_\_ (“Owner”) and William Rawn Associates, Architects Inc. \_\_\_\_\_, (the “Designer”) (collectively, the “Parties”) entered into a Contract for Designer Services for the Brookline High School Expansion \_\_\_\_\_ Project (Purchase Order # 21803108) at the Brookline High \_\_\_\_\_ School on July 6, 2018 \_\_\_\_\_.  
“Contract”; and

**WHEREAS**, effective as of March 7, 2019 \_\_\_\_\_, the Parties wish to amend the Contract:

**NOW, THEREFORE**, in consideration of the promises and the mutual covenants contained in this Amendment, and other good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby agree as follows:

1. The Owner hereby authorizes the Designer to perform services for the Design Development Phase, the Construction Phases, and the Final Completion Phase of the Project, pursuant to the terms and conditions set forth in the Contract, as amended.
2. For the performance of services required under the Contract, as amended, the Designer shall be compensated by the Owner in accordance with the following Fee for Basic Services:

<b>Fee for Basic Services:</b>	<b>Original Contract*</b>	<b>After this Amendment:</b>
		Amendment fee: <b>\$134,355</b>
Feasibility Study Phase	\$ _____	\$ _____
Schematic Design Phase	\$ _____	\$ _____
Design Development Phase	\$ _____	\$ _____
Construction Document Phase	\$ _____	\$ _____
Bidding Phase	\$ _____	\$ _____
Construction Phase	\$ _____	\$ _____
Completion Phase	\$ _____	\$ _____
*Includes previous Amendments		
<b>Total Fee</b>	<b><u>\$13,204,293.00</u></b>	<b><u>\$13,338,648</u></b>

This Amendment is a result of: Additional Geotechnical borings on MBTA Property at the Cypress Building site, additional fees for soil pre-characterization laboratory testing, additional field work for LSP testing, and two additional test pits on MBTA property.

3. The Construction Budget shall be as follows:

Original Budget: \$/a \_\_\_\_\_

Amended Budget \$/a \_\_\_\_\_

4. The Project Schedule shall be as follows:

Original Schedule: \$/a \_\_\_\_\_

Amended Schedule \$/a \_\_\_\_\_

5. This Amendment contains all of the terms and conditions agreed upon by the Parties as amendments to the original Contract. No other understandings or representations, oral or otherwise, regarding amendments to the original Contract shall be deemed to exist or bind the Parties, and all other terms and conditions of the Contract remain in full force and effect.

IN WITNESS WHEREOF, the Owner, with the prior approval of the Authority, and the Designer have caused this Amendment to be executed by their respective authorized officers.

**OWNER**

\_\_\_\_\_  
(print name)

\_\_\_\_\_  
(print title)

By \_\_\_\_\_  
(signature )

Date \_\_\_\_\_

**DESIGNER**

**Andrew Jonic** \_\_\_\_\_  
(print name)

**Senior Associate** \_\_\_\_\_  
(print title)

By \_\_\_\_\_  
(signature)

Date \_\_\_\_\_



**Date:** March 4, 2019

**Recipient:** William Rawn Associates, Architects, Inc.  
Mr. Erik Tellander, AIA, LEED AP BD+C

**Sender:** Hassan Ghiye, Thomas J. Fennick, P.E., L.S.P.

**Project:** Brookline High School Expansion; Brookline, Massachusetts

**Project No:** 6324

**Subject:** Budget Summary Letter

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The following letter summarizes our provided and proposed services outside the scope of services in the original proposal provided by McPhail Associates, LLC (McPhail) dated March 23, 2018, for the proposed Brookline High School Expansion in Brookline, Massachusetts.

*For Task 1 – Geotechnical Engineering Services (McPhail Project No. 6324.2.01)*

In addition to the original scope of services under Task 1 in our March 23, 2018 proposal, McPhail has completed the following services associated with work on the MBTA property:

1. McPhail completed the necessary MBTA Right-Of-Way (ROW) training;
2. McPhail acquired the MBTA required Railroad insurance endorsement;
3. McPhail paid for the drilling contractor's MBTA training for his two-man crew;
4. McPhail paid for the drilling contractor's MBTA required Railroad Insurance;
5. McPhail conducted site visits to the MBTA property to meet, review borings locations, equipment maneuverability and overhead wires insulation as follows:
  - a. On April 25, 2018 with the previously subcontracted driller (Geosearch, Inc.);
  - b. On November 26, 2018 with the MBTA and Hill International representatives; and
  - c. On December 12, 2018 with the newly subcontracted driller (Carr-Dee Corp.); and
- ~~6. Due to access limitation of the MBTA property to perform the originally proposed borings within that area, and due to the necessity of obtaining subsurface information for design purposes at the time, these borings were completed on the adjacent Tappan Street. However, in consideration that the Tappan Street borings were within considerable distance from the proposed building foundations, and upon Hill International's authorization, McPhail has performed an additional day of drilling at the MBTA property to confirm the depth and capacity of the bearing stratum for foundation design.~~



**\$16,550**

Therefore, we are respectfully requesting an increase of ~~\$22,400~~ as reimbursable expenses associated with work on the MBTA property under Task 1.

For Task 2B – Soil Pre-Characterization (McPhail Project No. 6324.9.T2)

In consideration that on-site stockpiling of the excess soil to be generated from the project site excavation, to be re-used as backfill material won't be feasible due to site constraints, an additional 8,000 cubic yards to the original 5,000 cubic yards of soil, may be generated. Therefore, and in order to achieve full characterization of the fill material across the project site, McPhail has submitted three (3) additional samples and will submit up to an additional thirteen (13) samples (sixteen (16) samples in total), for laboratory testing, based on a frequency of one analytical suite per 500 cubic yards, which is the requirement for Massachusetts Landfills and typical soil reclamation projects. Hence, we are requesting an allowance increase of **\$30,000** for reimbursable expenses as follows:

- An allowance of \$24,500 to submit the sixteen (16) soil samples for laboratory testing.
- An allowance of \$5,500 for the drilling contractor to obtain and collect the samples.

For Task 2D – LSP Services

In consideration of the detection of release of total lead and PAHs to soil at Project C, which warranted notification to Massachusetts Department of Environmental Protection (MassDEP), site of Project C is listed under DEP Release Tracking Number (RTN) 3-35153. Therefore, a field assessment of the nature and extent of the contamination detected is required. The estimated fee of the field assessment scope would be **\$14,000** including allowances of \$5,650 for the drilling contractor and \$3,400 for the analytical testing.

Following the assessment work, regulatory reporting and response actions will be required. These services would be provided by a Licensed Site Professional (LSP) from McPhail. The scope of these services would be dependent on the findings of the assessment, but for budgeting purposes, this fee would be in the range of **\$33,000**. Refer to the attached budget summary table for the scope of field assessment and response actions details.

Fee Summary and Closing

In summary, we're respectfully requesting approval for the following:

- Task 1: Additional Geotechnical Engineering Reimbursable Expenses: \$22,400;
- Task 2B: Additional Soil Pre-characterization Services: \$30,000;
- Task 2D: STEM Wing LSP Services \$47,000 (\$14,000 + \$33,000);
- Total Additional Service Request: \$99,400

We trust that the above information is sufficient for your present requirements. Should you have any questions concerning the information presented herein, please call us.

N:\Working Documents\Jobs\6324 Brookline High School\RAWN\6324\_Budget\_Summary\_030419.docx

# BSI ENGINEERING

CIVIL & SUBSURFACE UTILITY ENGINEERING

**William Rawn Associates | Architects, Inc.**

**10 Post Office Square**

**Suite 1010**

**Boston, MA 02109**

**Tel: 617-423-3470**

**Mobile: 617-548-4275**

**March 6, 2019**

**Subject: Subsurface Utility Engineering – Change Order Request (COR No. 2)**

**BSIE Job # 18-3544**

**Attn: Andrew Jonic, AIA, LEED AP BD+C | Senior Associate**

**Reference: Architect and Consultant Subcontract Agreement**

Dear Mr. Jonic,

In the above reference, WRA, Inc., hereby agrees to an additional fee other than the initial cost estimate provided by BSIE and approved by WRA, Inc. BSIE estimates an additional charge of \$19,500.00 for the following additional services:

- (2) two additional quality level A test pits as shown on the attached site plan labeled as TP-5, and TP-6. Remote barrel non-destructive air vacuum excavation methods will be utilized for both test pit locations. All test pits are located on MBTA property Brookline Hills T Station. The following are the targeted data points and anticipated sizes for each test pit cut and depth respectively:
  - TP-5 & 6 – 1' x 3' pavement cut looking for retaining wall footing dimensions. Non-destructive remote air vacuum barrel excavation methods will be utilized. Anticipated depth between 4' - 8' below grade.
- Test pit surface restoration will be completed with quick setting high early strength concrete.
- Permits will be obtained from the MBTA by WRA, Inc. BSIE will provide a work plan detailing equipment to be used and any supporting documentation required to commence work on MBTA property. Existing BSIE project specific Rail Road ROW insurance policy will be renewed and updated for the purposes of this change order.
- MBTA ROW safety trained staff will be provided for all BSIE field work within MBTA property limits. BSIE anticipates work hour restrictions for work within the MBTA Rail ROW defined as 15' from active rail lines. Anticipates working hours will be from 1 am to 5 am. MBTA Flaggers will be required and do not form as part of this cost proposal. MBTA flaggers will be scheduled and paid for by William Rawn Associates.
- The appropriate "One Call" to Dig Safe will be placed 72 hours prior to the commencement of excavation activities.
- All quality level A test pit results will be survey located and appended to the existing conditions plan set accordingly.

Please review and authorize the following as an amendment to the subcontract agreement between WRA, Inc. and BSIE, Inc.:

Amended Amount Per COR No. 1: <b>\$106,800.00</b>	BSI Engineering, Inc. 100 Hallet Street Boston, MA 02124	Date: 3/6/2019
Added by this Change Order: <b>\$19,500.00</b>	Original Notification	Job#: 18-3544
Amended Total: <b>\$126,300.00</b>		Reference: <b>BSIE &amp; RWA Subcontract Agreement</b>

AUTHORIZED SIGNATURES			
BSIE, INC.		WRA, Inc.	
			
SIGNATURE	DATE 3-06-19	SIGNATURE	DATE

All provisions, terms and conditions of the original subcontract agreement remain in full force and effect except to the extent modified herein.

