

## ADDENDUM

**PROJECT** New Engineering and Science Building – The University of Connecticut  
Project No. 901376

**NO.** Addendum No. 04

**DATE** April 22, 2015

All items of this addendum become part of the Contract Documents and amend, supplement, modify, change, delete or add to the provisions of the Contract Documents. Where any provision of the Contract Documents is so affected, the unaltered provisions shall remain in effect. Where possible, the provisions of this addendum shall be construed together with and harmonized with the provisions of the Contract Documents, but where the provisions of this addendum cannot be harmonized, the provisions of this addendum take precedence over conflicting provisions articles, paragraphs or subparagraphs in the Contract Documents.

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**THE PURPOSE OF THIS ADDENDUM IS TO CHANGE THE FOLLOWING ITEMS:**

Make changes to scope of work as identified on the following affected specifications and drawings:

**CHANGES AND ITEMS INCLUDED PER THIS ADDENDUM:**

1. Issuance of Specification Section 000940 Bid Package 04.0 – Masonry & Cast Stone

**END OF ADDENDUM No. 2 SUMMARY**

**EXHIBIT "B"**  
**Scope of Work**

**New Engineering & Science Building**  
**UCONN Storrs Campus**  
**Storrs, CT**  
**UCONN Project No. 901376**

**Bid Package No. 4.0-Masonry & Cast Stone**

**THE FOLLOWING WORK IS INCLUDED IN THE SUBCONTRACT:**

The Scope of Work shall include but not limited to labor, materials, equipment and all incidental work associated with **Masonry & Precast** as described in the Contract Documents and as outlined below. It is the intent of this Subcontractor to provide for the complete coordination, furnishing and installation of all **Masonry & Precast** as required, shown, described and specified under this Bid Package, and all related scope and services required to complete the Project.

This Subcontractor shall be responsible to perform all Work not expressly specified or indicated by the Contract Documents but as required for a thorough and complete execution of the Work of this Bid Package/Subcontract in every respect. Note that the word "provide" if, and when used herein shall mean furnish and install completely, including all costs for labor, materials, and equipment. It is further understood that the Project Drawings, Specifications and other Documents listed in Exhibit B, may not be fully developed, and that the total Subcontract Agreement Price will include whatever is required beyond same to provide a complete and functional installation and scope to the satisfaction of the Owner and Construction Manager. Should a conflict occur within the Contract Documents, the most restrictive, greatest quantity and highest value shall prevail.

**SCOPE OF WORK**

- 1) **BID PACKAGE No. 4.0- Masonry & Cast Stone:** This Subcontractor is responsible to provide all coordination, manufacturing, fabrication, labor, materials, tools, equipment and appurtenances of every kind for the complete execution to furnish, install and complete the **Masonry & Cast Stone** and related work as described in the Specifications, Drawings, Existing Site Plans and herein. The Scope of Work shall include, but not be limited to, the General Conditions, all **Division One Specification Sections** and all of the Work of this Bid Package in the following Specification Section(s) and those related Specification Sections, as shown and indicated on the Contract Documents, as shown and as further described herein:

**Project Manuals:**

Entitled: Bid Documents **Volume 1** Project # 901376 University of Connecticut New Engineering and Science Building Prepared by: Mitchell Giurgola Architects, LLP. 630 Ninth Avenue New York, NY 10036 Dated February 20, 2015

Entitled: Bid Documents **Volume 2** Project # 901376 University of Connecticut New Engineering and Science Building Prepared by: Mitchell Giurgola Architects, LLP. 630 Ninth Avenue New York, NY 10036 Dated February 20, 2015

Entitled: Bid Documents **Appendix 1** Project # 901376 University of Connecticut New Engineering and Science Building Prepared by: Mitchell Giurgola Architects, LLP. 630 Ninth Avenue New York, NY 10036 Dated February 20, 2015.

REPORT ON GEOTECHNICAL ENGINEERING ASESMENT AND PRELIMINARY ENVIRONMENTAL PRECHARACTERIZATION PROGRAM – AUGUST, 2014  
ADDITIONAL SUBSURFACE EXPLORATIONS AND GEOTECHNICAL ENGINEERING CONSIDERATIONS – 19 DECEMBER, 2014

Entitled: Bid Documents **Appendix 2** Project # 901376 University of Connecticut New Engineering and Science Building Prepared by: Mitchell Giurgola Architects, LLP. 630 Ninth Avenue New York, NY 10036 Dated February 20, 2015.

REPORT ON ENVIRONMENTAL PRECHARACTERIZATION PROGRAM  
PROPOSED SCIENCE AND ENGINEERING BUILDING – DECEMBER, 2014

Entitled: Bid Documents **Volume 00** Project # 901376 University of Connecticut New Engineering and Science Building Prepared by: Fusco Corporation 555 Long Wharf Drive New Haven, CT 06511 Dated February 20, 2015

**Schedule of Drawings:** See drawing list included in Manual 00

**Specification Sections of the Project Manual:**

**DIVISION 1 - GENERAL REQUIREMENTS**

**SECTION**

01-1000	Summary
01-2200	Unit Prices
01-2300	Alternates
01-2500	Substitution Procedures
01-2600	Contract Modification Procedures
01-3100	Project Management and Coordination
01-3200	Construction Progress Documentation
01-3233	Photographic Documentation
01-3300	Submittal Procedures
01-4000	Quality Requirements
01-5000	Temporary Facilities and Controls
01-5639	Temporary Tree and Plant Protection
01-5719	Temporary Environmental controls
01-6000	Product Requirements
01-6100	University Product Standard
01-7300	Execution
017419	Construction Demolition Waste Management
01-7700	Closeout Procedures
01-7823	Operation and Maintenance Data
01-7839	Project Record Documents
01-7900	Demonstration and Training
018113	VOC Limits for Adhesives, Sealants, Paints and Coatings
018119	Construction Indoor Air Quality
019113	Building Commissioning Requirements

**DIVISION 3 – CONCRETE**

033000 Cast-In-Place Concrete (As Applicable)

**DIVISION 4 – Masonry**

**042000 Unit Masonry**  
**047200 Cast Stone**

**DIVISION 7 – THERMAL & MOISTURE PROTECTION**

071326 Sheet Membrane Waterproofing  
072100 Thermal Insulation (As Applicable)  
072700 Air and Vapor Barrier Membrane (As Applicable)  
076200 Sheet Metal Work (As Applicable)  
079200 Joint Sealers (As Applicable)

**APPENDICES**

Appendix 1  
REPORT ON GEOTECHNICAL ENGINEERING ASESMENT AND  
PRELIMINARY ENVIRONMENTAL PRECHARACTERIZATION PROGRAM –  
AUGUST, 2014  
ADDITIONAL SUBSURFACE EXPLORATIONS AND  
GEOTECHNICAL ENGINEERING CONSIDERATIONS – 19  
DECEMBER, 2014

Appendix 2  
REPORT ON ENVIRONMENTAL PRECHARACTERIZATION PROGRAM  
PROPOSED SCIENCE AND ENGINEERING BUILDING – DECEMBER,  
2014 REVISED FEBRUARY 2015

**2) Description of Work:**

- a. The following requirements are in addition to those contained within the contract drawings, specifications, and bidding instructions and shall serve to amend, clarify, or supplement the requirements of those sections:

Brick and Concrete Masonry Units (CMU's); CMU Shaft Walls; Mortar and Grout; Reinforcing Steel; Masonry Joint Reinforcing; Ties and Anchors; Embedded Flashings; Installation of Embedded Flashings provided by others; Masonry Lintels; Steel Lintels (installation only, materials by others); Masonry Accessories; Cavity Wall Insulation; Air and Vapor Barriers; Weeps, Cavity Drainage and Vents; Masonry Cleaners; Water Repellents; Concrete Brick; Compressible Fillers; Grouting of Door Frames Cavity (including elevator frames/jamb); Fire Safing at top of Masonry Walls; Cast Stone; Sills and Water Table; Setting of Beam Pocket Base Plates (beam pocket baseplates – installation only, materials by others); Grouting of Beam Pocket Base Plates (beam pocket baseplates); Grouting Solid All Beam Pockets. All Scaffolding required for Mason's scope of work.

**3) Survey / Layout:**

- a. This Subcontractor shall provide all layout required to complete your Scope of Work (including but not limited to base plates layout and elevation per shop drawings by others).
- b. This Subcontractor shall pay particular attention to the survey / layout requirements for installing perimeter relieving angles.

**4) Substrates:**

- a. The Mason Contractor shall prepare all substrate so that they meet or exceed the requirements of the specification for the final finishes.
- b. The Substrate shall meet or exceed Flatness, Levelness and/or surface texture required.

**5) Masonry Debris:**

- a. This Subcontractor shall remove and **dispose of all masonry debris in to the dumpsters provided by Construction Manager**, including but not limited to block, mortar and cutting slurries.

**6) Snow, Ice and Water Removal**

The Masonry Contractor shall be responsible for all snow, ice and water removal from the staging provided by the Masonry Contractor and as directed by the Construction Manager.

**7) Access to Scaffolding:**

The Masonry Contractor shall provide others with access and use of the scaffolding erected at the exterior of the building while erected for the purpose of completing the Masonry Work.

**8) Winter Conditions and Temporary Heat:**

The Masonry Contractor shall provide all necessary Winter Conditions and Temporary Heat for his or her work (Interior and Exterior) in accordance with *ACI 530.1-02 / ASCE 6-02 / TMS 602-02* for the duration of the project. Also see the Contract Documents which contains additional requirements for both Cold and Hot Weather conditions. Fuel costs required for temporary heat shall be included as part of this bid.

**9) Special Shapes:**

The Masonry Trade Contractor shall provide all special shape bricks and all custom special unit masonry shapes as indicated in the contract documents.

**10) Structural Steel and Metal Fabrications:**

The Masonry Contractor shall install Bearing & Leveling Plates, Bolts, Inserts, Embedded Angles, Loose Lintels and other Structural Elements that are to be incorporated into the Masonry Work. The above materials shall be provided by others.

The Structural Steel Contractor shall furnish and install reinforcing steel where reinforcing is attached to the Structural Steel by welding for the Masonry scope of work. All layout required for this operation is the responsibility of the Masonry Contractor.

The masonry contractor is responsible to unload, receive, inventory (verify quantities on the spot) and store (as approved by CM) then install lintels, access doors, embeds, elevator hoist beam, beams or any other steel component noted as loose lintels, provided by others to be installed in the work of this bid package.

#### **11) Sheet Metal and Fabric Flashings:**

The Roofing Contractor shall furnish and install all Sheet Metal Flashings, Metal Copings, Trim and Roof Accessories as described in the Contract Documents and furnish all exposed Metal through Wall Flashings, including metal reglets for installation by the Mason Contractor.

- a. Any concealed and exposed (partially into **NEW** masonry) flashings and any metal flashing requiring a fabricated bend shall be supplied by the Roofing Contractor and installed by the Masonry Contractor at Cavity Walls, Unit Masonry Steel Lintels, Relieving Angle and other areas in contact with Masonry as indicated on the Contract Documents.
- b. The Roofing Contractor shall furnish and install all Prefinished ZINC Cap, ZINC Fascia and/or Prefinished Aluminum Flashings, Counter Flashings, Copings, Metal Gravel Stops and other Sheet Metal contiguous with the Roofing system.
- c. The Roofing Contractor shall furnish to the Masonry Contractor, for installation into the Mason's **NEW** work, all other Metal Flashing and Metal Thru Wall Flashings as noted in the Contract Documents.
- d. Membrane Flashings contiguous to the Mason's work shall be provided and installed by the Mason Contractor.
- e. The Windows, Glazing and Storefronts Contractor shall furnish and install all Flashings and Sheet Metal that is contiguous with his or her work; such as but not limited to: Flashings required to be installed prior to window or Panel installations.
- f. The Roofing Contractor shall supply to the Masonry Contractor all flashings and reglets and accessories into new masonry and necessary to accept Roofing Contractor's cap flashing that goes over Roofing Contractor's termination bar. The Roofing Contractor shall supply the receiver (reglet) to the Masonry Contractor.
- g. The Roofing Contractor shall supply to the Window Contractor all flashings and reglets and accessories into Window System and necessary to accept Roofing Contractor's cap flashing that goes over Roofing Contractor's termination bar. The Roofing Contractor shall supply the receiver (reglet) to the Window Contractor.
- h. All metal drip flashings shall be furnished by the Roofing Contractor and installed by the Masonry Contractor.

## 12) Dampproofing:

The Masonry Contractor shall furnish and install air and vapor barriers, rigid insulation, and all damp-proofing as indicated on the contract documents, including, but not limited to the exterior walls, including where the wall passes steel beams and other materials. This Contractor shall provide the cavity construction in its entirety.

## 13) Building Insulation:

The Masonry Contractor shall provide **ALL Cavity Wall Insulation** as indicated on the contract documents, including, but not limited to the exterior walls where the wall passes steel beams and other materials. This includes all compressible filler materials in the wall cavity and all insulation incorporated in the masonry units' cells/cavity. Insulation behind glass, terracotta and metal panels is by BP-08.0

## 14) Reinforcement:

- a. The Concrete Contractor shall provide Concrete Reinforcement as noted on the Contract Documents.
- b. The Concrete Trade Contractor is responsible to furnish and install all reinforcing steel, anchors, dowels and accessories within his or her Scope of Work as noted on the Contract Documents. All reinforcing entirely in Masonry Walls and/or Partitions shall be provided by the Masonry Contractor. All reinforcing bars from any concrete slab or concrete foundation wall to unit masonry or concrete shall be furnished and installed by the Masonry Contractor and must be drilled in by the Masonry Contractor.
- c. Concrete to masonry reinforcing bars must be drilled in by the Mason Contractor.
- d. The Masonry Contractor shall furnish and Install all reinforcing steel and concrete/grout for "U" block (bond beams-Lintels) and in masonry units. All grouting (including reinforcing bars) of masonry units is the responsibility of the Mason Contractor, including but not limited to, the grouting between steel and masonry units, "U" block Lintels and Masonry Walls.
- e. The Masonry Contractor shall furnish and install all reinforcing in his or her masonry walls and grouting of the cavities solid where any reinforcing has been installed or as grouting is called for in the Contract Documents.
- f. All reinforcing steel must be kept organized and out of any soil or mud. Additionally, all cutoffs, scraps, etc. must be disposed of on a DAILY basis.

## 15) Drainage Material & Weep Vents:

The Masonry Contractor shall provide all in Wall Drainage Material, "Mortar Net", Grout Beds and Weeps/Vents as called for on the Contract Documents.

## 16) Joint Sealants:

The Masonry Contractor shall provide Joint Sealers and Sealants at Expansion & Control Joints, interior and exterior, including all joint sealants that are to be incorporated into masonry work and as indicated on the Contract Documents.

### **17) Layout/Coordination:**

The Masonry Contractor shall layout all walls by painting and snapping lines including openings. The Masonry Trade Contractor shall check for square and parallel after layout is complete and report any discrepancies to the Construction Manager prior to the installation of any masonry units. The Masonry Contractor shall check the floor slab elevations, adjusting base course for level. The Masonry Contractor shall provide a benchmark on all masonry walls and shall snap lines horizontally in order to check from the top of wall to the line to ensure that all coursings are level and in line. The Masonry Contractor shall check all hollow metal frames set by the General Trade Contractor to maintain plumb and level and shall notify the CM if any hollow metal frames were set by the General Trade Contractor out of Plumb and/or level prior to setting any masonry units against frame. The Masonry Contractor shall not remove any door spreaders furnished and installed by the General Trade Contractor until masonry erection is complete. The Masonry Contractor shall provide and layout a story pole showing all coursing, masonry sills, window openings, door openings, lintels, louvers, etc., to make sure that all coursing is level in line and works from floor to floor.

The Masonry Contractor shall review the Contract Documents for all purposes including but not limited to layout and any discrepancies or omissions that might exist.

The Masonry Contractor shall coordinate with the Structural Steel, General Trades, Window Contractors to establish elevation and plane to allow the metals contractor to set their hanging lintels and other steel from the building structure to proper elevation and plane of the building face and the work of others.

### **18) Hollow Metal Door Frames and Access Doors:**

The Drywall and General Construction Contractor shall Furnish, Receive, Handle, Distribute, Set, Protect, Install and Adjust *all* Steel/Hollow Metal Doors, Borrowed Lights, Vision Panels and including all other Hollow Metal Frames or access doors furnished by others. Hollow metal frames contained within Masonry Partitions shall be set and plumbed by the Drywall Contractor who will work with the Mason Contractor to ensure that the frames are blocked and grouted as set by the Drywall and General Construction Contractor. The Mason Contractor shall be responsible for all cost associated with re-setting any frame that is knocked or banged out of position. The Drywall and General Construction Contractor shall make provisions to protect Hollow Metal Frames and Hardware mounting holes, installed by the Drywall and General Construction Contractor, from damage during grouting operations. The Masonry Contractor shall install all borrowed lights in his or her work as provided by the General Trade Contractor.

The Masonry Contractor shall make provisions to protect the above hollow metal frames and hardware mounting holes protective padding installed by the General Trade Contractor from damage during grouting operations. The Masonry Contractor shall be responsible to grout all hollow metal frames and install access panels. Hollow metal frames and access doors shall be provided by others.

### **19) Masonry Partition and Bracing Anchorages:**

The Masonry Contractor shall coordinate and work in harmony with the Structural Steel Contractor regarding the installation of any required Masonry Partition Anchorage and Bracing Systems. The Structural Steel Contractor shall furnish and install all Partition Anchorage and Bracing Systems as shown on the Contract Documents.

The Masonry Contractor will supply and install all fire safing and smoke sealing at tops of masonry walls, and at control joints in walls. This includes tops of walls at steel decking and bottoms of steel beams. The Mason Contractor will also safe or seal the tops of steel beams to the deck where there is a masonry wall below the beam.

## **20) Masonry Anchors**

The Structural Steel and Miscellaneous Metals Contractor shall furnish and install all masonry anchors that are to be welded to any steel. (i.e., columns, beams, etc.) The Structural Steel Trade Contractor must weld anchors onto the structural steel and must make any accommodations to these anchors/ties and/or welds to make sure the anchor or tie projects pass the finished coat of the spray fireproofing. This must be done so that the male anchor or tie furnished and installed by the Masonry Trade Contractor does not disrupt the spray fireproofing finish coat. The Structural Steel Contractor shall be responsible for any cost associated with patching of spray fireproofing if the welded anchor is supplied on site and does not protrude past the spray fireproofing finish coat.

## **21) Mockup**

The Mason Contractor shall carry all cost to provide and eventually remove all mockups as specified on the concrete pads as listed below.

## **22) Temporary Enclosures:**

The Masonry Contractor shall provide temporary enclosures and/or protection during the construction for his materials, equipment, etc.

The Masonry Contractor shall furnish and install roof felt and plywood as needed to protect the new roof where scaffolding must be constructed over the new roof in order to complete the masonry work. Any damage to the new roof caused by the mason's work will be his or her responsibility.

## **23) Temporary Heating and Cooling:**

The patching of holes in partitions left by temporary heating and cooling is to be done by the General Trades Contractor for drywall and the Masonry Contractor for masonry.

## **24) Temporary Power:**

The patching of holes in partitions left by temporary power is to be done by the General Trades Contractor for drywall and the Masonry Contractor for masonry.

## **25) Seismic Bracing, Clips and Angles at Top of Partitions:**

This Subcontractor shall provide Durawall DA2200 or equal at top of wall typical and as noted on the Contract Documents. If the anchor requires welding to the structure, the Structural Steel Contractor shall weld the anchor provided by the Masonry Contractor.

**26) Temporary Bracing and Support:**

The Masonry Contractor shall provide all necessary temporary bracing and support of CMU and/or brick walls as required.

**27) Wall-Hung Lavatory:**

The Plumbing Contractor shall coordinate with the Masonry and General Trades Contractor for installation of any wall anchors required during masonry or drywall wall construction for support of wall-hung lavatory systems. The Plumbing Contractor will be responsible for furnishing and installing all necessary wall anchors or carries in strict accordance with the manufacturer's specification for their wall-hung lavatory systems.

**28) Grouting of Hollow Metal Frames:**

The Mason Contractor shall grout all Hollow Metal Frames as noted on the Contract Documents.

**29) Protection of Masonry Work:**

The Mason Contractor shall be responsible to cover and protect his or her work for the duration of the project. This includes keeping the tops of walls covered to prevent water, snow, ice, etc., from entering into the concrete masonry unit or the cavity. Once a section of a masonry wall is topped off to the roof line, it shall become the responsibility of the Roofing Trade Contractor to keep all water, snow, ice, etc., from entering into the concrete masonry unit or the cavity until the permanent or temporary cap or cover is installed by the Roofing Trade Contractor.

**30) Snow and Ice:**

The Mason Trade Contractor shall provide removal of snow and ice from his or her staging and work areas for his or her work.

**31) Wash-Out:**

The Masonry Contractor shall be responsible for washing out concrete trucks, pumping trucks, pipe lines, etc., for his work off-site (take back to plant) or at a designated place (coordinated with the Site Contractor) on site which can be cleaned and disposed of at his or her expense. Additionally, the cost of cleaning of all concrete, mortar, grouting, etc. splatter from all surfaces immediately after placement of concrete, and repairing any resulting damage to the satisfaction of the Construction Manager shall be included in this Contractor's bid proposal. NO WASHING OF TOOLS, EQUIPMENT, ETC. OR ANY MATERIALS INTO STORM OR SANITARY SYSTEMS.

## **CLARIFICATIONS**

- a.) The Masonry Contractor shall:
- 1) Furnish and install all unit masonry including but not limited to masonry partitions, stone base in masonry, brick masonry, metal joint reinforcing, anchors ties, weeps, closures, related accessories, control and expansion joints, chases, recesses, pockets and openings in masonry for work by others, building in of items furnished by others, grouting in of metal items, protection, pointing and cleaning of masonry. Include all work described in specification section 042000.
  - 2) Furnish and install all cast stone including but not limited to copings, caps, mortar, anchor, accessories and joint filler. Include all work described in specification section 047200.
  - 3) Provide all expansion joints located in masonry walls.
  - 4) Provide all fire and sound safing located at top of masonry walls.
  - 5) Provide all wood blocking embedded in masonry
  - 6) Provide all non-shrink grout. Include all grout touching CMU, stone veneer or masonry.
  - 7) Include all stone veneer base, sealant, weeps and grout at stone veneer base including but not limited to as shown in detail 3 & 4/A6.00. Include all insulation behind stone veneer base.
  - 8) Include all masonry reinforcing and joint reinforcement.
  - 9) Include all Dur-O-Wall Reinforcement including as indicated in detail A/S303.
  - 10) Include all expansion joints in masonry or between masonry and steel.
  - 11) Construction Parking & Material Storage Location: There is no Contractor parking on site and limited material storage. This Contractor shall include in his/her price offsite parking and storage of bulk material off site should you deem necessary.

## **EXCLUSIONS**

- 1) Sale and Use Taxes.

## **UNIT PRICES**

Indicated below, the following unit price's shall be used in calculating Hazardous containing materials for additions and deductions from the original contract amount. These prices shall reflect all work practices required to remove and dispose the material in accordance with the project specifications and State and Federal regulations:

Bids shall include the following Unit-cost's:

## **ALLOWANCES**

Allowances shall appear as a line item on the Contractor's Schedule of Values. The allowance amount covers the cost of the Contractor's labor/material/equipment delivered to the project plus all taxes less any trade discounts to which the contractor may be entitled with respect to the item of work. The Contractor's costs for supervision (non-working foreman), overhead, profit and other administrative expenses with respect to the allowance item are included in the base contract amount - not in the allowance amount.

All increases to an Allowance shall be by Change Order. Any unused portion of an allowance shall be returned to the Owner by deduct Change Order.

**Bids shall include the following Lump Sum Allowances:**