

ADDENDUM

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

NO. Addendum No. 05

DATE May 1, 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.

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 13.0 – Laboratory Environmental Rooms.
2. Added clarification note No. 4 to Specification Section 000940 Bid Package 31.0 – Sitework.
3. Added clarification note No. 36 to Specification Section 000940 Bid Package 06.0 – General Trades.
4. Responses to Pre-Bid RFI's No. 4, 5, 9, 10, 11, 12, 14, 15, 17, 18, 19, 20, 21, 22, 23, 24, 27, 28, 29, 31, 37, 38, 39, 40, 41, 42, 43, 45, 46, 47, 66, 67, 68, 69, 70, 71, 72, 73, 74, 77, 83 and 86.

END OF ADDENDUM No. 5

**EXHIBIT “B”
Scope of Work**

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

Bid Package No. 6.0-General Trades

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 **General Trades** 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 **General Trades** 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. 6.0- General Trades:** 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 **General Trades** 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 5 – METALS

054000 Cold Formed Metal Framing

DIVISION 6 - WOOD, PLASTICS AND COMPOSITES SECTION

062000 Carpentry

DIVISION 7 - THERMAL AND MOISTURE PROTECTION SECTION

072100 Thermal Insulation (As Applicable)
078413 Firestops and Smoke seals
079200 Joint Sealers

DIVISION 8 - OPENINGS

081000 Door Schedule (As Applicable)
081113 Steel Doors and Frames (As Applicable)
081119 Stainless Steel Doors and Frames (As Applicable)
081433 Stile and Rail Wood Doors (As Applicable)
083113 Access Doors (As Applicable)
087100 Finish Hardware (As Applicable)
089000 Louvers and Vents

DIVISION 9 – FINISHES

092713 Glass-Reinforced Gypsum Fabrications
092900 Gypsum Drywall

DIVISION 10 – SPECIALTIES

101100 Visual Display Surfaces
104416 Fire Extinguishers and Cabinets

DIVISION 12 – FURNISHINGS

125100 Laboratory Darkroom Curtains

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DIVISION 21 - FIRE SUPPRESSION

210584 THROUGH-PENETRATION FIRESTOP SYSTEMS

DIVISION 22 - PLUMBING

220584 THROUGH-PENETRATION FIRESTOP SYSTEMS

DIVISION 23 - HEATING, VENTILATING AND AIR CONDITIONING

230584 TROUGH-PENETRATION FIRESTOP SYSTEMS

DIVISION 26 – ELECTRICAL

260584 THROUGH PENETRATION FIRESTOP SYSTEMS

APPENDICES

Appendix 1

REPORT ON GEOTECHNICAL ENGINEERING ASESSMENT 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:

All Miscellaneous Carpentry; Cold Formed Metal Framing; Framing Accessories; Gypsum Sheathing; Glass-Fiber Blanket Insulation; Gypsum Board; Glass-Matt Water-Resistant Board; Gypsum Board Accessories; Gypsum Board Shaft Walls; Gypsum Board Assemblies; Drywall Partitions; Cementitious Backer Board as Tile Substrate; Drywall Ceiling and Soffits and other Gypsum and Light Gage Framing; Non-Structural Metal Framing; Wood Framing; Wood Wall Base; Rough Carpentry; Safety (O.S.H.A. Protection); Blocking; Furring, Grounds; Backboards; Acoustical and other Sealants/Caulking; Fire-Resistive Joint System; Firestopping; Joint Sealants; Steel Doors and Frames; Flush Wood Doors; Access Doors and Frames;

Door Hardware; Acoustical Ceilings; Signage; Toilet Compartments; Toilet and Bath Accessories; Fire-Protection Cabinets; Fire Extinguishers; Metal Lockers; Projection Screens; Selective Structure Demolition; DAFS Systems; Visual Display Boards; Photo Luminescent Exit Path Marking; Final Cleaning; Temporary Work; Coordination with project schedule and other trades; Submittals, Samples, Product Data;

Fire Stopping Systems; Smoke Sealing Systems; Fire Stopping and/or Smoke Sealing at top of Concrete Walls; Fire Stopping and/or Smoke Sealing at the top of Masonry Walls; Fire Stopping and/or Smoke Sealing at top of Gypsum wall assemblies; Fire Stopping and/or Smoke Sealing for ALL Mechanical, Plumbing, Electrical, Security System, Fire Alarm, Communications, and Fire Protection Sub-contractors and their Sub-subcontractors; Coordination with the project schedule and other Trades; Submittals and Samples; Shop Drawings; Product Data as described in the Contract Documents.

3) Construction Manager's Trailer

- i. Construction Manager's Office Trailer: Provide and eventually remove a pressured treated wood deck and shed roof (watertight) for the entrances to Fusco Corporation's jobsite trailer – approx. (1) 8'x12' size deck with stairs/rails built to all applicable codes and as directed by the CM. Provide two base cabinets and two wall cabinets and countertop to fill twelve foot long space in (1) locations. Provide 50 linear feet of 5/4" x 12" clear number 1 pine shelving with the necessary brackets to hold heavy loads. Eventually remove and dispose of the above installed items.

This Subcontractor shall include transportation from the Construction Managers warehouse/office in New Haven to the Project Site and transportation at the end of the project with a rack body truck (provided by this Contractor) to bring, furniture and incidentals to and from the site. Include **two (2) laborers** to move carry and distribute these incidentals.

4) Thermal Insulation:

- a. The General Trades Contractor shall furnish and install Building Insulation as required to complete its Scope of Work as noted on the Contract Documents.

5) 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 provide all flashings and reglets and accessories into existing masonry as noted on the Contract Documents. This shall include cutting and patching of all reglets into existing masonry necessary to provide a complete system.
- g. 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.
- h. 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.
- i. The Roofing Contractor shall supply to the General Trades Contractor all flashings and reglets and accessories into DAFS 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 General Contractor.
- j. All metal drip flashings shall be furnished by the Roofing Contractor and installed by the Masonry Contractor.

6) Layout/Survey:

The General Trades Contractor shall provide layout/surveys for his or her own Scope of Work.

The General Trades Contractor shall provide Horizontal and Vertical Control Lines. This information shall be provided by a Connecticut Licensed Land Surveyor who shall install permanent offset points (Maximum of 30 feet) and bench marks that will allow for the reproduction of lines and grades by other Trades. This Contractor shall include per floor the following: eight control lines and benchmarks at every third exterior column and benchmarks at twenty five percent of the interior columns.

The General Trades Contractor shall provide the final survey (A2) by a surveyor licensed by the State of Connecticut.

7) Perimeter Cable Protection:

The Structural Steel Contractor shall install and maintain OSHA-compliant perimeter protection cables and supporting steel at all decks, where required by OSHA. Removal of perimeter cable protection and supporting steel at all levels (except the roof) shall be by the General Trades Contractor. Removal of perimeter cables at the roof shall be by the Roofing Contractor.

8) Seismic Framing at Top of Partitions:

This Subcontractor shall provide seismic framing and kickers at top of wall typical and as noted on the Contract Documents.

9) Light Gage Framing, Gypsum Partitions and Gypsum Ceilings

The General Trades Contractor shall furnish and install Exterior Metal Stud Framing, Gyp Board Sheathing, and/or 3/4" Pressure Treated Plywood, Batt and/or Semi-Rigid Insulation, Clips, firestopping and any and all accessories required to complete the substrate for all Trades as noted on the Contract Documents.

The General Trade Contractor shall furnish and install **all** interior and exterior wood blocking, including but not limited to, general wood blocking, all roofing blocking and nailers required to form Fascias, Parapets, Rakes, Expansion Joints, etc., as shown on the drawings. This includes furnishing and installing any required anchors, bolts, screws, nails, anchor bolts. Etc. This Contractor is responsible via any approved method to furnish and install anchors for attaching wood to metal or concrete masonry units. Additionally, this Contractor shall furnish to the Masonry Contractor any Anchor Bolts that will be installed in Masonry units for the purpose of anchoring any wood products.

Additionally the General Trades Contractor shall furnish and install all Drywall Partitions, Insulation, Clips and/or accessories as required to complete Drywall Partitions types as noted on the Contract Documents including, Smoke, Fire, Acoustical and other Sealant and Safing as noted. Fire Safing at Metal Deck/Steel intersection shall be completed by the Drywall and General Trade Contractor. Neoprene Gasket between Drywall Partitions and Exterior Wall Systems shall be provided by the General Trades Contractor.

10) Snow, Ice and Water Removal

The General Trades Contractor shall be responsible for all snow, ice and water removal from **Interior of the Building** and staging provided by the General Trades Contractor and as directed by the Construction Manager for the duration of the Project. Snow, ice and water removal shall be required on a daily basis as directed by the Construction Manager at its sole discretion. This Contractor shall be responsible to provide whatever means necessary to remove snow, ice and water from the interior of the building including but not limited to pumping, piping and vacuuming.

11) Sound Attenuation at Mechanical Curbs:

The General Trades Contractor shall furnish and install all materials and equipment to construct Sound Attenuation Assemblies. This includes, but is not limited to, any framing, sheetrock, insulation, etc.

12) Hollow Metal Doors, Hollow Metal Door Frames:

The General Trade Contractor shall , receive, Handle, Distribute, Set, Protect, Install and Adjust *all* Steel/Hollow Metal Doors, Borrowed Lights, Vision Panels, Hardware, including access doors, including access doors furnished by others. Hollow metal frames contained within Masonry Partitions and Concrete Partitions (if required-openings/forming by Concrete Contractor) shall be set and plumbed by the General Trades Contractor who will work with the Mason/Concrete Contractor to ensure that the frames are blocked with CMU's and grouted properly.

The General Trades Contractor shall make provisions to protect Hollow Metal Frames and Hardware mounting holes, installed by the General Trade Contractor, from damage during grouting operations performed by the Masonry Contractor.

- a. The General Trades Contractor shall make provisions to protect Hollow Metal Frames and Hardware mounting holes, installed by the General Trades Contractor, from damage during grouting operations.
- b. The General Trades Contractor shall prepare all frames to accept all hardware and technology.

13) Sound Control Doors:

The General Trade Contractor shall, Receive, Handle, Distribute, Set, Install Adjust and Protect Sound Control Doors.

14) Finish Hardware, Weatherstripping:

The General Trade Contractor shall Provide, set, install, adjust and protect all Finish Hardware for your Scope of Work.

Additionally the General Trade Contractor shall also be responsible for the following:

- a.) Complete coordination between all hardware, doors, and frames
- b.) Install all doors, wood and hollow metal, pre-machined and pre-fit for glass lites, louvers, hardware, etc.
- c.) Wood doors shall be factory pre-finished as specified
- d.) Install all door louvers
- e.) Install all electrified hardware for your Scope or Work including but not limited to electric locks, electric strikes, key cards, transformers and any and all necessary accessories as noted on the Contract Documents.
- f.) Install lockable metal heavy duty key cabinet. This Contractor will meet with the Owner to set up the cabinet in an initial meeting and then turnover the key cabinet at a follow-up meeting.
- g.) Provide and later remove at the direction of the Construction Manager all temporary construction cores to the Construction Manager.
- h.) This Contractor shall install all construction cores and permanent cores in each lockset. The Owner will not be doing ANY of this work.

- i.) This Contractor is responsible for coordinating the Master Key System with the owner including as many meetings as necessary to accomplish this coordination.
- j.) This Contractor will return to the Project (6) months after the date of Substantial Completion to examine, re-adjust, consult, replace hardware items, and prepare a detailed written report to the Owner.
- k.) This Contractor shall install the magnetic door hold open contact plate (furnished by the Electrical Contractor) on its doors as noted on the Contract Documents.
- l.) This Subcontractor shall coordinate the Hollow Metal Frames and Doors to receive the Electrical Contractor's Door Contacts (contacts installed by Electrical Contractor).
- m.) Subcontractor is responsible for all shims, sealants and/or backer rods required for door frame installation.
- n.) Install door opening assemblies including associated exit devices, closers, and gaskets complete.
- o.) Include unloading, inventorying, storing, protection, distribution, and installation of all doors, frames and finish hardware. General Trades Subcontractor is responsible for any theft, damage, or other loss to items once items are delivered to the project site.
- p.) Include all adjusting and balancing of doors for proper operation. Include the adjusting and balancing of doors and closers and comply with all applicable codes. Subcontractor shall perform the adjusting and balancing when directed by the Construction Manager in writing to minimize repeat visits and shall submit a report identifying any doors or closers that are not balanced as specified and the reason why.
- q.) Install thresholds, seals, smoke seals, fasteners, door stops, door hold-opens, finish hardware, kickplates, gasketing and weather stripping, sweeps, astragals and door silencers complete.

15) Wood Blocking

- a. The General Trades Contractor shall coordinate the Blocking requirements for the Work of the Window, Glazing and Storefront Trades Contractor.
- b. Any Blocking indicated on the Contract Documents or as required by the window and storefront manufacturer and the Window, Glazing and Storefront Contractor shall be furnished and installed by the General Trades Contractor.
- c. The blocking coordination responsibility amongst this Contractor and General Trades Contractor shall be ongoing for the duration of the project.
- d. The Window, Glazing and Storefront Contractor shall provide all Clip Angles, Steel Angles, Furring Channels, Miscellaneous Metal Framing and Shims to complete installation of the Windows and Storefronts before and after the General Trades Contractor has provided coordinated Blocking.

The General Trade Contractor shall furnish and install ALL WOOD BLOCKING required by the Contract Documents. Wood Blocking shall include, but not be limited to, plywood blocking, furring, dimensional lumber and any and all wood required by the contract documents indicated for the purpose of blocking for any and all trades. The General Trades Contractor shall prepare a blocking location plan and conduct all required meetings in the presence of the Construction Manager. The blocking location plan shall be signed off by all trades requiring blocking (including the Architect for FF&E).

16) Backboards:

The General Trade Contractor shall provide all Electrical/Mechanical/Communication Backboards and as described in the Specification and as shown on the Contract Drawings. This Contractor shall provide thirty (30) additional four foot x eight foot ¾” plywood backboards in addition to what is required by the Contract Documents.

17) Architectural Louvers, Grilles and Vents

This Contractor shall provide and install ALL Architectural Louvers/Grilles/Vents.

- a. The General Trades Contractor shall provide “Architectural Louvers” only. This includes all louvers shown on the architectural drawings.
- b. All other louvers, grilles and the like shall be the responsibility of the Mechanical Contractor.
- c. The Mechanical Contractor shall be responsible for all final connections to the Architectural Louvers provided by others.

18) Substrates:

The General Trade Contractor shall prepare drywall substrate so that they meet or exceed the requirements of the specification for the final finishes. The Substrate shall meet or exceed flatness, Levelness and/or surface texture required.

19) Inspections:

The General Trade Contractor shall be responsible for properly coordinating and scheduling all inspections including but not limited to framing, insulation and other inspection that may be required in the execution of his or her Scope of work by the Authority having Jurisdiction.

20) Expansion Joints:

The General Trade Contractor shall furnish and install all **interior and exterior** floor, wall and ceiling expansion joint assemblies as shown on the contract documents.

21) Saddles, Thresholds and Sills:

The General Trades Contractor shall provide all saddles, thresholds and sills that is a component of your assembly.

22) Proper Manpower Management:

The General Trades Contractor shall have figured in their bid price multiple crews to perform the work of this bid package but not limited to; work both interior and exterior framing simultaneously in addition to separate crews for other work such as, but not limited to; installing gypsum, interior/exterior wall panels, taping and ceiling installation to meet the project schedule.

23) Stair Erection:

The General Trades Contractor shall provide temporary wood fillers all stairs treads immediately after the Structural Steel Contractor erects the stairs simultaneously with structural steel erection.

24) Temporary Entrance Doors and Exterior Openings:

At **ALL** exterior aluminum door locations the General Trades Contractor shall include in its bid proposal the cost to provide and eventually remove and dispose of temporary 1 3/4" wood doors with heavy duty locks and keys, all other necessary hardware, partitions walls at these locations only, and LCN or equal closers. Removal shall be at the direction of the Construction Manager with close coordination of quantity and areas with the Aluminum Windows and Storefront Contractor.

The General Trade Contractor shall include in its bid proposal the cost to provide and eventually remove and dispose from **ALL** exterior openings the temporary plywood protection and wood frames. Removal shall be at the direction of the Construction Manager with close coordination of quantity and areas with the Aluminum Windows and Storefront Contractor.

The General Trades Contractor shall be responsible for security of the building and maintaining and eventually removing **ALL** temporary doors, chains, locks, etc.

The General Trades Contractor shall be responsible on a *daily basis* to secure all access points to the building at the direction of the Construction Manager (after the Structure Demolition and Abatement Contractor has been relieved of this responsibility).

This Contractor shall provide and maintain and eventually remove One (1) Plywood Window (at upper level) with functioning hinges and hasp lock for access of temporary works into the building by others and for general access to load the upper floors as work progresses.

25) Temporary Heating and Cooling:

The General Trades Contractor shall and provide fire-rated temporary protection (including but not limited to, cut specifically for ductwork and fit tightly in the opening as prescribed by the Unit Manufacturer) to the door and window temporary protection necessary, in the sole discretion of the Construction Manager, to accommodate the Temporary Heating and Cooling systems as described in Bid Package #23.01.

The General Trades Contractor shall provide, maintain, relocate and eventually remove sixteen (16) temporary heat barriers constructed of 2x4 fire-retardant wood framing secured to the structure lined with six (6) mil fire-retardant plastic at a height and width of a typical hallway (10' x 12').

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

26) Temporary Power:

The patching of holes in partitions made for Temporary Power shall be provided by the General Trades Contractor for drywall and the Masonry Contractor for masonry

27) Construction Ventilation:

The General Trades Contractor shall be responsible for providing Six (6) Five Foot (5') diameter hi-speed, heavy duty portable fans for the duration of the Project. This includes setting up, locating, moving as needed, plugging or wiring as needed and maintaining at all times during this duration.

28) Architectural Joint Systems:

The General Trade Contractor shall furnish and install all Architectural Joint Systems Assemblies and expansion joints that are to be incorporated into this Scope of Work.

29) Man Lifts:

The General Trades Contractor shall allow use of man lifts by the Construction Manager or other for inspection purposes and or as directed by the Construction Manager. Provide training and any necessary safety equipment.

30) Fire Extinguishers and Cabinets:

The General Trades Contractor shall provide all Fire Extinguisher Cabinets and Permanent Fire Extinguishers as noted on the Contract Documents.

31) Pest Management

- a. This Subcontractor shall provide pest management services for the entire duration of the Work. Pest control methods should first strive to use non-chemical controls such as trapping and pest proofing, followed by chemical controls only if non-chemicals methods fail.
- b. This Subcontractor will control structural pests to include:
 1. Insects and other arthropods: These include ants, cockroaches, yellow jackets and other wasps and bees, and any other arthropod pest not excluded.
 2. Mice and rats: The contractor shall adequately suppress rats and mice found inside and outside buildings. Pick-up and proper disposal of dead vertebrates is also included in this scope of work.
 3. Pests excluded from contract: Termites and other wood destroying organisms.

32) Minor Work Provisions

The General Trades Contractor shall include in their Base Bid all work that is defined, described, inferred and/or discernable within the Contract Documents as it relates to the Fire Stopping and Smoke Sealing. **However, in addition, this Subcontractor shall include a \$10,000 allowance for additional Fire Stopping and Smoke Sealing that is not defined, described, inferred or discernable within the Contract Documents. This additional minor work that is not indicated on the Contract Documents shall be performed as directed by the Construction Manager and shall be in addition to all other work indicated in this scope.**

CLARIFICATIONS

- a.) The General Trades Contractor shall:
 - 1) Provide fire stopping at all slab of deck edges as called for on the contract documents.
 - 2) Provide cold formed metal framing indicated on structural and architectural drawings.
 - 3) Provide all spray foam building insulation.
 - 4) Provide mineral wool insulation at exterior walls.
 - 5) Furnish and install all architectural louvers including adjacent steel support angles, blocking, fasteners, and clip angles including but not limited to as indicated in detail 6/A6.30 and 4/A6.31 and other details.
 - 6) Include all projector mounts. Include projector mount shown on detail 3/A8.08.
 - 7) Install all door hardware as it relates to doors in this scope of work. Include all door openers, hardware wiring, programing, adjustments, etcetera for a complete system. Include all wiring in the door frames and doors and to the activation buttons. Coordinate with Electrical Contractor and Telecommunications Contractor.

- 8) Include the unloading, storage and installation of the 2 hour rated glazing system that is framed with welded hollow metal.
- 9) 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.
- 10) In reference to Drawings T601 through T610 furnish and install typical and as noted all "3/4" Fire Resistant Plywood."
- 11) The General Trades, Electrical, Communications, Fire Alarm and Security Subcontractors should carefully review Drawing AV 000 especially "Audio Visual and Related Work Responsibly Schedule" to be sure that have included all of the labor, material and equipment included in their base bid as it relates to the assignment of the work in that matrix.
- 12) Furnish and install all fire stopping, smoke seals and fire safing throughout the project. Include all work at top of wall and horizontal and vertical MEP penetrations.
- 13) This Subcontractor shall carefully review drawings A0.03, A0.04 and A0.05. This subcontractor must base his or her bid on providing Fire Stopping and Smoke Sealing that meets or exceeds the ratings that are depicted on the drawings. This subcontractor shall provide all supportive information such as UL Design Criteria as part of the shop drawing submission to justify the selection of material and the installation process of the materials.
- 14) Referring to Details 3 and 5 on Drawing A6.01 provide typical and as noted "Firestop at Floor Line, Typ." This Subcontractor's work will also include Firestopping at the roofs, also.
- 15) Referring to Detail 3 on Drawing A6.02 provide typical and as noted "Firestop at Floor Line, Typ." This Subcontractor's work will also include Firestopping at the roofs, also.
- 16) Referring to Detail 3 on Drawing A6.03 provide typical and as noted "Firestop at Floor Line, Typ."
- 17) Referring to Detail 1 on Drawing A6.13 provide typical and as noted "Fire Safing and Smoke Seal."
- 18) Referring to Detail 1 on Drawing A6.30 provide typical and as noted "Fire Safing and Smoke Seal."
- 19) Referring to Detail 5 on Drawing A6.30 provide typical and as noted "Fire Sealant at Floor Slab."
- 20) Referring to Detail 1 and 5 on Drawing A6.31 provide typical and as noted "Smoke Seal and Firestopping."
- 21) Referring to Detail 1 on Drawing A6.32 furnish and install typical and as noted "Smoke Seal and Firestopping."
- 22) Referring to all of the Details on Drawing A7.50 this subcontractor shall provide all smoke sealing and/or fire stopping that is required to meet or exceed the ratings that are indicated on the Contract Documents. This shall apply to both top of wall conditions, but also at all other wall penetrations.

- 23) Referring to Detail 1 on Drawing A8.07 provide typical and as noted “Firestopping and Sealant Around Duct Penetrations Where Required.”
- 24) Referring to Detail 1 on Drawing A8.07 provide typical and as noted “Firestopping Around Penetrations, Typ.”
- 25) Referring to Detail 1 on Drawing provide and comply with typical and as noted “Provide 2 Hour Rated Per Test No. WHI-39 PSH 0154/0167 USG SA-929 P.8.”
- 26) Referring to Detail 2 on Drawing A8.07 provide typical and as noted “Firestopping.”
- 27) Referring to Detail 2 on Drawing A8.07 provide typical and as noted “Firesafe All Open Flutes.”
- 28) Typically, but not always, the MEPS Subcontractors will install sleeves in the walls, floors, ceilings and roofs in advance of placing their conduit, pipe, ductwork through said sleeves. It shall be the responsibility of the General Trades Subcontractor to properly seal between the walls, floors, ceilings and roofs to the outer edge of said sleeve. In addition, it shall be the responsibility of the General Trades Subcontractor to properly seal between the walls, floors, ceilings and roofs to the inner edge of said sleeve up to and against the item(s) that are passing through the sleeve(s).
- 29) Provide all Fire Stopping and Smoke Sealing for the all partitions including but not limited to Masonry, Drywall Curtainwall, Glass Wall, Storefront, etc.
- 30) Provide all Fire Stopping and Smoke Sealing for all penetrations through walls, floors, ceilings and the roofs that created by the Mechanical, Plumbing, Electrical, Security System, Fire Alarm, Communications, and Fire Protection Sub-contractors and their Sub-subcontractors.
- 31) The General Trades Subcontractor must include in their Base Bid all work that is defined, described, inferred and/or discernable within the Contract Documents. In addition, this Subcontractor shall include a \$10,000 allowance for additional Fire Stopping and Smoke Sealing that is **not** defined, described, inferred or discernable within the Contract Documents.
- 32) In reference to Drawings T601 through T610 provide all fire stopping and smoke sealing as may be required at all conduit penetrations.
- 33) In reference to Detail 1 on Drawing T702 comply with “Fire and Smoke Proofing General Notes.”
- 34) In reference to Detail 1 on Drawing T702 provide typical and as noted “fire stop sealant (both sides).”
- 35) In reference to Detail 1 on Drawing T702 provide typical and as noted “fire stop sealant and mineral wool packing.”
- 36) *This Contractor shall furnish an install a temporary scaffold stair tower at the exterior of the building from grade to the penthouse level. Stair shall meet all applicable codes and include ramps and handrails from stair to each building level. The stair tower shall extend in height following the completion of metal decking at each level. It is expected*

that this stair be in place for a duration of 12 months and shall include the required mobilization's of resources to extend stairs up to each floor.

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:

ALLOWANCE NO. 1:

Minor Work Provisions: \$10,000.

The General Trades Contractor shall include in their Base Bid all work that is defined, described, inferred and/or discernable within the Contract Documents as it relates to the Fire Stopping and Smoke Sealing. **However, in addition, this Subcontractor shall include a \$10,000 allowance for additional Fire Stopping and Smoke Sealing that is not defined, described, inferred or discernable within the Contract Documents. This additional minor work that is not indicated on the Contract Documents shall be performed as directed by the Construction Manager and shall be in addition to all other work indicated in this scope.**

EXHIBIT “B”
SCOPE OF WORK
New Engineering & Science Building
UCONN Storrs Campus
Storrs, CT
UCONN Project No. 901376

Bid Package No. 13.0 - Laboratory Environmental Rooms

THE FOLLOWING WORK IS INCLUDED IN THE SUBCONTRACT:

The Scope of Work shall include but not be limited to labor, materials, equipment and all incidental work associated with **Laboratory Environmental Rooms** 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 **Laboratory Environmental Rooms** 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 to the satisfaction of the Owner and Construction Manager. Should a conflict occur within the Contract Documents, the most restrictive, greatest quantity and highest quality shall prevail.

SCOPE OF WORK

- 1) **BID PACKAGE #13.0 – Laboratory Environmental Rooms:** 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 and install the **Laboratory Environmental Rooms** and related work as described in the Specifications, Drawings, Site Logistics 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

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 7 - THERMAL AND MOISTURE PROTECTION SECTION

079200 Joint Sealers

DIVISION 13 - SPECIAL CONSTRUCTION SECTION

132100 Laboratory Environmental Rooms(as Applicable)

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DIVISION 22 – PLUMBING (As Applicable)

DIVISION 23 - HEATING, VENTILATING AND AIR CONDITIONING (As
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230510 3D BUILDING INFORMATION MODELING

DIVISION 25 – INTERGRATED AUTOMATION (As Applicable)

DIVISION 26 – ELECTRICAL (As Applicable)

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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:
- b. It is the intent of this Bid Package that this Contractor furnish and install the Laboratory Environmental Rooms in their entirety and include all work for fully a functional system including but not limited to final MEP connections, coordination, core boring, start up, finish ceilings, shelving, finish floor, racks, etc.

3) BIM Modeling Coordination Drawings:

This Subcontractor shall participate and provide BIM Coordination files to the **Gate Keeper (HVAC Contractor)** and participate in weekly coordination meetings.

EXCLUSIONS

- 1) Sale and Use Taxes.

ALTERNATE BIDS

Provide Alternate Bids as requested on Bid Form.

UNIT PRICES

Provide Unit Prices as requested on Bid Form.

ALLOWANCES

This Contractor shall include within the Subcontract Price Allowances as listed below. Allowances shall include all necessary material, cost for delivery, installation, machinery, insurance, and applicable taxes.

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, 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.

EXHIBIT “B” SCOPE OF WORK

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

Bid Package No. 031.0

THE FOLLOWING WORK IS INCLUDED IN THE SUBCONTRACT:

The Scope of Work shall include but not be limited to labor, materials, equipment and all incidental work associated with **Site Work** 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 **Site Work** 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 to the satisfaction of the Owner and Construction Manager. Should a conflict occur within the Contract Documents, the most restrictive, greatest quantity and highest quality shall prevail.

SCOPE OF WORK

- 1) **Bid Package 31.0 Site Work:** 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 and install the **Site Work** and related work as described in the Specifications, Drawings, Site Logistics 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:

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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

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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 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

Document 000968 Soil Nail Wall Movement/ Support of Excavation/
Shotcrete Facing

DIVISION 1 - GENERAL REQUIREMENTS

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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 2 - EXISTING CONDITIONS

024100	Site Demolition
029400	Structural Soil

DIVISION 3 - CONCRETE SECTION

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DIVISION 7 - THERMAL AND MOISTURPROTECTION

SECTION

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312000	Site Earthwork
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DIVISION 32 - EXTERIOR IMPROVEMENTS

321216 Asphalt Paving
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321640 Granite Curbing
323119 Decorative Metal Fences and Gates
329001 Transplanting
329113 Soil Preparation
329119 Fine Grading
329200 Turf and Grasses
329300 Plants
329353 Landscape Maintenance

DIVISION 33 - UTILITIES

331000 Water Utilities
333000 Sanitary Sewerage Utilities
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2014
REVISED FEBRUARY 2015

2) Vibration and Sound Management

It is the requirement of this Contractor to adhere to the Vibration and Sound management practices as described in Specification Section 31 09 13 and to be aware of the location and proximity of the underground Vivarium. Traffic MUST be diverted around and at no time can any traffic drive directly over its location. Cost's associated with said monitoring will be paid by the Owner.

3) Description of Work:

- a. The following requirements (if applicable) 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:

Layout; Temporary construction and associated work; Sedimentation and Erosion Control; Cast in Place Concrete; Footings and Foundations for Site Walls; Crane Pads; Utility Pads; Removal and Replacement of Unsuitable Material; Excavation and Backfilling; Demolition and Tree Removal; Rock Removal; Soil Retentions Systems; Radon Pits; Trenching and installation both outside and inside the Buildings (including but not limited to Gas, Water, Electrical, Grounding, Telephone/Data/Cable TV, Storm, Sewer, Fire Protection; Ductwork, Heating and Cooling); Concrete Thrust Blocks for All Utilities/Systems; Sheeting and Shoring; Dewatering for all trades; Earthwork; Anti-Tracking Pads; Site Water Distribution & Drainage; Foundation Drainage; Processed Aggregate Base; Soil & Materials Management; Site Storm Sewer Systems, (including Storm Water Discharge Permit); Site Sanitary Sewer System; Gas Utility System; Water Systems; all other Site Utilities as noted; Bituminous Concrete Pavement; Portland Cement Concrete Pavement & Curbs; Wheel Stops; Pavers; Temporary Protection and weatherproofing; Concrete Encasements; Concrete Formwork (For Site Concrete Work only); Concrete Reinforcement (For Site Concrete Work only); Structural Concrete (For Site Concrete Work only); Site/Traffic Control Signage; Flagpoles; Joint Sealers and Caulking (as it applies to your scope of work) and as described in the Specifications Divisions and Sections listed below.

4) Site Preparation:

- a. This Subcontractor shall relocate as necessary and remove a minimum of **six (6) construction signs and bases** at surrounding campus streets stating "Construction Equipment and Trucks Entering Road". Additional signs may be required by the University and is included in the Subcontract price.
- b. This Subcontractor shall relocate as necessary and eventually remove a minimum of **ten (10) temporary wayfinding signs and bases** as directed by the Construction Manager.
- c. This Subcontractor shall include protection of site appurtenances, lawns and plantings adjacent to work areas. This Subcontractor shall be required to provide tree protection for existing trees to remain. All protection to be removed by this Subcontractor at the completion of the Work.
- d. This Subcontractor shall provide and maintain and eventually remove all erosion control measures as required including, but not limited to, inlet protection at manholes, silt fence, hay bales, anti-tracking pads at the construction entrance and exit including all associated filter fabric and large stone, as detailed and approved in the aforementioned Logistics Plan. All truck tires are to be free of dirt, dry and clean before leaving the construction site.
- e. This Subcontractor shall provide dust control (watering trucks) as required by the Construction Manager and/or by any state or local agency.
- f. This Subcontractor shall protect all asphalt, concrete and existing site improvements. In the event asphalt, concrete or other site improvements intended to remain, this

Subcontractor shall repair and restore the asphalt, concrete and site improvements to its original condition.

- g. This Subcontractor is responsible for maintenance and eventual removal of crushed stone temporary roads to adequately support loading and withstand exposure to heavy construction traffic. Obtain approval from the Construction Manager to locate temporary roads, storage and parking areas. Extend temporary roads in and around the construction area as necessary to accommodate delivery and storage of materials, equipment usage, administration and supervisory personnel during later phases.
- h. This Contractor shall be responsible for all costs to eventually remove the water line taps and any other work related to the new water services to the Office Trailers. The water authority will provide a list of qualified Contractors who can be used for the Taps, disconnects, and any other work that needs qualifications.
- i. This Subcontractor shall remove and restore the following areas depicted on the Site Logistics Plan:
 - i. Construction Parking and Material Storage Location
 - ii. Construction Manager's Office Trailer
- j. This Subcontractor shall remove conduit and wire for all Power and Telecom and Data for Construction Manager Trailer and Owner Trailer. Include removal of two (2) overhead poles and power backboard systems. Make final disconnections to trailers for power, telecom and data.
- k. This Subcontractor shall provide all Site Preparation, Sediment Erosion Control Protection, and Clearing and Grubbing to remove all Trees, Tree Roots, Stumps, Shrubs and other existing Plant materials with the exception of those specifically noted in the Contract Documents to remain.

5) Site Demolition

- A. Subcontractor shall furnish all labor, equipment, materials and refuse removal for all clearing, grubbing, site preparation and site demolition in accordance with contract documents. Subcontractor to provide dumpsters for its work. Subcontractor is responsible for cartage of all debris generated.
- B. This Subcontractor shall include the demolition and removal of all items scheduled to be demolished in accordance with construction documents. Items, which are to be salvaged and stockpiled, shall be coordinated with the Construction Manager and Owner.
- C. Include all site demolition outside the footprint of the building as depicted on the site demolition drawings to include but not limited to removal and proper disposal of pavements, existing utilities, concrete walks and pads, fencing, flag poles.
- D. Contractor is responsible for demolition permits as required by Authorities having Jurisdiction.

- E. This Contractor shall remove the existing Old Warehouse foundation that has been left in place. This is not shown on the contract documents but is visible by visiting the site.

6) Temporary Roads, Paving, Access

It is understood that all final paving (top course/finish course) can take place up to several months after the binder course is installed including binder installed by others and all associated cost to install a tack coat shall be included in this Contractor's bid proposal.

The Site Contractor shall construct and maintain temporary roads and paving that will adequately support loading and withstand exposure to traffic and equipment during the construction period. Locate temporary roads, storage, staging and parking areas where the same permanent facilities will be located whenever possible. Extend temporary roads in and around the construction area as necessary to accommodate concrete trucks, concrete pumps, structural steel deliveries, and all other deliveries, storage of materials, and access for equipment and for administration and supervisory personnel. This Contractor must maintain a compacted surface that slightly slopes away from building around the entire perimeter of the building at a minimum of 10 feet wide suitable for staging of the exterior of the building. Provide and maintain suitable pumps and drains to keep the excavated areas of the building free from water and sufficiently dry at all times. This Contractor shall provide **five (5) separate compacted (90% compaction) dry pads suitable for the cranes that will be used from outside of building foot print as located and as prescribed by the CM. These five (5) separate compacted pads shall be a minimum of thirty-five feet by thirty five feet.**

This Contractor shall be responsible to professionally sweep clean the campus roads around the project site on a daily basis as result of construction traffic. Additionally, this Contractor shall professionally sweep all pavement, sidewalks, and entry steps as directed by the Construction Manager from the time this Contractor mobilizes until the issuance of the Certificate of occupancy.

6) Soil Erosion and Sediment Control

This Contractor is responsible for the furnishing, maintenance and removal of Erosion and Sedimentation Controls including anti-tracking pads as shown on the Contract Documents. This Contractor will also be responsible to maintain the anti tracking pads as shown on the Contract Documents. Please Note, anti tracking pads are shown for count only and it is possible that these pads could be located in others areas as directed by the Construction Manager.

This Contractor is responsible for cleaning and /or washing down the tires of his or her construction vehicles and equipment including but not limited to visitors and vendors exiting the site at the anti-tracking aprons located at each construction entrance to avoid tracking mud, dust, and etc. from the site and onto public streets.

Sedimentation and erosion control shall be properly installed and maintained. The silt fence specified utilizes an 8' post spacing. The posts are to be hardwood posts with the fabric prefabricated on the posts from the factory. The fabric specified does exceed the specifications of some other manufacturers in regards to strength. The control includes two rows of fabric as a means of a second defense mechanism.

A breach in the erosion control systems shall be deemed a lack of oversight from this Contractor to properly ensure the systems are installed correctly and are being inspected and maintained regularly. In the event of a breach, this Contractor shall immediately repair and replace the breach and repair and restore the neighboring property.

It is essential that the site work be performed in a staged progression to minimize the potential for soil loss through erosion as stated in the Contract Documents. The Contract Documents are not intended to show every erosion control measure necessary to coordinate with the Project Schedule (this is identified in the Erosion Control Narrative Specification). Erosion control logs shall be required by this Contractor that clearly and accurately identifies the status of the erosion control measures in place, this item shall be on the agenda of every construction meeting.

Furthermore, this Contractor will be required to submit on a weekly basis, formally sign and follow requirements of the Water Pollution Control Plan for the project.

7) **Survey / Layout:**

The Site Work Trade Contractor shall provide **column location control lines and 10 benchmark grades**. This information shall be provided by a Connecticut Licensed Land Surveyor who shall install permanent offset points and bench marks that will allow for the reproduction of lines and grades by other trades.

This Contractor shall provide all other layout required to perform and complete his or her Work. The cost to replace or repair lost or damage control points shall be the charged to the offending Contractor.

Contractor shall furnish at the completion of its work an A-2 as-built survey for all work performed under this bid package.

8) **Temporary Works:**

The Site Work Contractor shall provide:

1. The Site Work Contractor shall provide the Temporary walks, parking, and drives and their associated work.
- m. This Subcontractor shall include protection of site appurtenances, lawns and plantings adjacent to work areas. The Site Contractor shall be required to provide tree protection for existing trees to remain. The Site Contractor shall be required to provide reparations of site appurtenances, lawns and plantings adjacent to work areas.
- n. This Subcontractor shall include protection of utilities to remain within the work areas as indicated in the Contract Documents.
- o. This Contractor shall also provide and maintain suitable pumps, drains, and etc. to keep the site and building excavations free from water and sufficiently dry at all times.
- p. This Subcontractor shall remove all Temporary Works below grade, including but not limited to, temporary power conduits, temporary water piping, temporary gas piping and other temporary systems not indicated to remain.

- q. This Subcontractor shall provide any and all temporary ramps over foundations for access by any trade.

9) Tower Crane Pad:

This Contractor shall excavate a hole for the Tower Crane pad that is approximately 25' x 25' x 5' deep. Once the Tower Crane is removed, this Contractor shall remove the concrete pad poured by others.

10) Under-slab Utilities within the Structure:

The Site Contractor shall include all trenching, bedding and backfilling within the building footprint for installation of any and all MEP under-slab work depicted on the Contract Documents and Reference Documents. Soil compaction shall be restored and tested as noted on the Contract Documents. It shall be noted that the contract documents are diagrammatic only and trenching required for unground utilities within the building footprint may be much larger than shown. This Contractor shall reference all MEP documents for this requirement.

11) Removal of Mock-Ups:

The Site Contractor shall remove and dispose in the General Trades dumpster all Mock-ups (any trade) constructed in and around the Site when directed by the Construction Manager.

12) Site Utilities:

Site Contractor shall provide all Site Utilities as shown on the Contract Documents, including but not limited to:

- a. Trenching, Bedding, Pipe, Fittings, Valves, Concrete Anchors, Thrust Blocks, Concrete Encasements, Backfilling, and etc. as required to complete all systems as noted such as, Gas, Storm, Sanitary, Water, Fire Protection, Under Drains, CATV, Fiber, Electrical, Telecom, Data and Pole Mounted Security Cameras.
- b. Site Water Distribution & Drainage, Site Storm Sewer Systems (including Storm Water Discharge Permit), Site Sanitary Sewer System; Gas Utility System; Fire Protection Service; Water Systems; all other Site Utilities as noted;
- c. This Contractor shall provide the above services from the point of origin into the building and coordinate same with the appropriate utility.
- d. This Subcontractor shall provide and install all thrust concrete blocking associated with all systems including fire protection lines and labor and material for concrete encased ductbanks.
- e. This Contractor will be responsible for coordination with the appropriate utility and provide and pay for all Permit, Fees, etc. and the coordination of inspections within the Contractor's Scope of Work as required by the service provider and/or the authority having jurisdiction.

- f. It is the intent of this document that the Site Contractor shall provide all utilities noted as complete in all respects, including but not limited to, providing Utility Pads as shown or required.
- g. The Site Contractor shall include in the Scope of Work any costs associated with shut downs that may be required to complete the Work.
- h. The Site Contractor shall be responsible for cleaning, flushing and disinfecting all water service piping prior to any Plumber or Fire Protection Trade Contractor's attaching to the new services. The Site Contractor shall employ a licensed Plumbing Contractor for any water service piping that is required to have a licensed contractor to install this above mentioned work by code. Site Subcontractor shall ensure everyone on site has appropriate licenses in regards to this subcontract.
- i. The Site Work Contractor shall furnish, install and coordinate with the Construction Manager and authority having jurisdiction when performing Domestic and Fire Protection water systems. It shall be the responsibility of the Site Work Contractor to make certain that the Water Distribution Services (Fire and Domestic) is complete in all respects at no additional cost to the Project. This includes but not limited to all tapping fees.
- j. The Site Contractor shall be responsible for all costs and coordination of water line taps and any other work related to the new water services. The water authority will provide a list of qualified Contractors who can be used for the Taps, disconnects, and any other work that needs qualifications.
- k. The Site Contractor shall provide excavation, Bedding and backfill for the new gas service to the new gas meter.
- l. The Site Contractor shall be responsible for connections to each utility service including the Gas Service, and coordinate work with other trades. Excavation, Bedding and backfill for all other trades shall be the responsibility of this Site Contractor. Inserts, sleeves and the like required to pass through the foundation and/or slabs shall be provided by the Contractor requiring the opening.
- m. The Site Contractor shall include in the Scope of Work any costs associated with shut downs to complete his or her work for the entire length of the project.
- n. The Site Work Contractor is responsible for all excavation, Bedding and backfill required within the new building and on the entire site for, all Trade Contractors. Each Trade Contractors shall provide line and grade for Site Contractor. It will be the responsibility of the Site Contractor to obtain the proper depth and location required for each excavation.
- o. This Contractor is to furnish all labor, materials, equipment and incidentals necessary for the demolition and disconnection and lawful disposal of existing underground and above ground utilities and appurtenances servicing structures to be demolished as indicated on drawings and as necessary to perform work in the Scope of Work, as specified, and as directed by Engineer. This Contractor is to contact and coordinate with all utilities prior to the start of Work. Subcontractor to verify all existing utilities that are to remain that

are in Subcontractor's area of work. Subcontractor is required to employ, at their expense, professional underground utility locating services for their onsite work. Any utility damaged due to Subcontractor's negligence will be fixed appropriately and costs passed on to Subcontractor. Stake, flag, and protect all existing utilities to remain.

13) Site Security:

The Site Contractor shall be responsible for security of the site with temporary gates, chains, locks, etc. Any associated cost shall be included in their base bid (distribution of keys free of charge as directed by the Construction Manager. Provide locks and chains on gates in fence as indicated on the Site Logistics Plan and as directed by the Construction Manager.

The Site Contractor shall be responsible on a *daily basis* to secure all access points to the site at the direction of the Construction Manager.

14) Office Trailer Locations:

This Subcontractor shall remove conduit and wire for all required Power and Telecom/Data for **Fusco** Site Offices.

This Subcontractor shall remove wastewater sewer connection for **Fusco** Site Offices.

This Subcontractor shall remove water service connection for **Fusco** Site Offices.

15) Construction Parking and 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

16) Building and Site Excavation, Bedding, Backfill:

The Site Contractor shall provide Excavation, Bedding, Backfill, waterproofing, and etc. where indicated for all structures including: Site Retaining Walls, Structures, Site Concrete and Sidewalks and Utilities, The Site Contractor shall provide Bases for all Site Lighting.

This Contractor shall be responsible for the Removal and required Replacement of Unsuitable Material as described in the Appendices and Specifications. Quantities noted are estimated and for reference only. It is the responsibility of this Contractor to hire a Soil Management Company for proper disposal of all categories of soil based on the information provided. This bid should include excavation and removal of all material to proposed grades as shown.

This Contractor shall install the Soil Retention System as indicated in Volume 00 specification No. 00968.

This Contractor shall coordinate with the Fusco Superintendent and Concrete company on the location of a ramp exiting the foundation for removal of material and access to inside the foundation.

This Contractor shall provide the excavation and installation and furnishing of the exterior Light Pole bases. Anchor bolts will be provided by the Electrical Contractor.

17) Underground Ducts and Utility Structures:

The Site Work Contractor shall provide Excavation, Dewatering, Bedding and Backfill, and installation of all Underground Conduits, Ducts, Grounding System and all other Utilities. Additionally the Site Contractor shall furnish and install Manholes, Handholds, Power Boxes Underground Structures and Pads, Transformer Vault/Pad, Concrete Anchors & Concrete Encasements, including Reinforcing Steel and Identification for same for all Underground Conduits, Ducts and all other Utilities.

The Electrical Contractor shall provide all Conduits, Ducts, Electrical Wire Accessories, connections and other materials as required to complete the Underground Conduits, Cables, Ducts, Grounding systems and Utilities installation per the Electrical Divisions.

This Contractor shall include all dewatering including all excavations, trenches, pits, open foundations, footings, etc., for the duration of the project.

18) Rigid Foundation Insulation and Waterproofing:

All Extruded-Polystyrene Insulation and Waterproofing outside the Foundation walls and footings, blind side foundations, Slab On Grade, tunnels and where indicated on the Contract Documents, shall be furnished and installed by the Site Contractor. The elevator pit waterproofing will be furnished and installed by the Concrete Contractor.

19) Sheeting, Shoring, Underpinning and Open Hole Protection:

In addition to that required by the Contract Documents, the Site Contractor is responsible to provide all Sheeting, Shoring, Bracing, and Underpinning as required to complete his or her Scope of Work and the work of other Trades, whether shown or not on the Contract Documents.

20) Site Concrete:

The Site Contractor shall provide all Concrete Formwork (for Site Concrete Work only), Concrete Reinforcement (for Site Concrete Work only) and Structural Concrete (for Site Concrete Work only) to complete all Site Concrete as indicated on the Contract Documents.

21) Site Signage:

The Site Contractor shall provide all Site Signage, Traffic Signage, Parking Signage, and associated Posts and/or Concrete Bases as noted in the Contract Documents.

22) Transformer & Lightning Protection Grounding Loop:

The Site Contractor shall provide Trenching, Bedding and Backfilling for the installation of the Ground Loop for the Transformer and the Lighting Protection System as indicated in the drawings.

23) Winter Protection, Dewatering and Runoff Control:

- a. The Site Contractor shall provide removal of snow, ice and mud from Construction Roads, Permanent Driveways & Roads, City Sidewalks, Construction Trailer Office Locations, Office Trailer stairs and access and Construction Parking and Material Storage Areas as may be required for accessibility, safety, protection and prosecution of all trade work. These operations shall be performed for the duration of the Project. In addition to removing the snow, this Contractor shall spread ice melt as needed or at the Construction Manager's discretion. This Contractor will be responsible to sweep up all sand used in the above process. Site Subcontractor also to provide all removal of snow, ice and mud to complete its own work.
- b. This Subcontractor shall include and maintain all rainwater runoff control and shall sign and agree to the Storm Water Pollution Control Plan.
- c. This Subcontractor shall include ALL dewatering and surface water control for all open excavations, foundations, footings, access and haul roads, and staging areas as required for the duration of the Project. All erosion controls shall be inspected weekly and before every anticipated rain event and after every rain event.
- d. This Subcontractor shall provide and maintain all winter protection up to the point where the area is taken over by the Concrete Foundation Subcontractor. This Subcontractor shall include preparation, protecting and/or pre-heating/thawing (including but not limited to blankets, ground heaters, etc.) required to complete its Work and will provide the Concrete Subcontractor's with "non-frozen" conditions. This Contractor shall remove any water, frozen soil, snow, etc. before backfilling foundations once forms are stripped. For excavations that receive concrete, the Concrete Contractor will take over the dewatering requirements once formally turned over and accepted from the Site Contractor.

24) Dust Control:

The Site Contractor shall provide all Dust Control for the duration of the Project. This Contractor will provide dust control (watering trucks) as required or as requested by the Construction Manager and/or by any state or local agency.

This Contractor is responsible for all pavement and field markings/painting, curb and wheel stops, speed bumps, undulations, and sealers. Include the complete removal of existing striping in lieu of just painting over existing with black paint.

25) Dumpsters, Clean-up, Wash-Out & Waste Removal:

- a. The Site Work Contractor shall responsible to compact down ALL TRADES dumpsters w/ a machine equivalent to or greater than a John Deere 410 on an as needed basis per the Construction Manager.
- b. The Site Work Contractor shall be responsible for washing out concrete trucks, pumping trucks, pipe lines, etc., off-site (take back to plant) or at a designated place on site which can be cleaned and disposed of at his or her expense. Additionally, the cost of cleaning of all concrete, mortar, and grout splatter from all surfaces immediately after placement of

these materials, and repairing any resulting damage to the satisfaction of the Construction Manager shall be included in this Contractor's bid proposal. Also include a location for the Concrete Subcontractor to wash out its trucks on the project site. NO WASHING OF TOOLS, EQUIPMENT, ETC. OR ANY MATERIALS INTO STORM OR SANITARY SYSTEMS WILL BE PERMITTED.

- c. This Contractor will provide, maintain, and remove at project completion a washout area for his or hers and the Concrete/Mason Contractor's concrete trucks, pump trucks, pipe lines, etc., delivering to the site. Including periodically relocating the washout area as dictated by the Construction Manager and/or Engineer.

26) Traffic Control

This Contractor shall provide traffic control and a flagman to direct incoming and outgoing trucks and to protect pedestrian traffic when entering from North Eagleville Road.

27) Topsoil

This Subcontractor shall respread all existing topsoil as indicated on the Contract Documents. Topsoil cannot be stockpiles on site.

CLARIFICATIONS

1. The Enabling Contractor will install bituminous binder course up to the North wall of the CUP building. This contractor shall saw cut, remover binder course and install new proposed concrete sidewalk as indicated including bollards as shown.
2. *This Contractor shall include the Building Isolation Drainage System at the tunnel connection including the lien concrete as shown on Drawing FD 1.0 Addendum No. 3*
3. *Cast in Place Concrete sump pits are by Bid Package 03.0*
4. *This Contractor shall remove the Support of Excavation wall 5'-0" below proposed finish grade.*

EXCLUSIONS:

- 1) Sale and Use Taxes.

ALTERNATE BIDS

Provide Alternate Bids as requested on Bid Form.

UNIT PRICES

Provide Unit Prices as requested on Bid Form.

ALLOWANCES

This Contractor shall include within the Subcontract Price Allowances as listed below. Allowances shall include all necessary material, cost for delivery, installation, machinery, insurance, and applicable taxes.

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, 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.

Request for Information



RFI Number: 5
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/15/2015

TO: John Doherty
Mitchell/Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, NY 10036

FROM:

CC:

SUBJECT: Curtainwall Substitution Request

SPEC SECTION: 084413

DRAWING #:

QUESTION

Date Required:

Is it possible to submit Uni-Wall as a substitution for the unitized curtainwall? Attached please find project examples, Curtainwall Cut Sheets and Uni-Wall Test Reports for your review.

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/28/15		Mitchell/Giurgola Architects	J. Balecha	

ADDITIONAL INFORMATION:

We have no experience with the proposed curtain wall substitution "Uni-Wall". We have reviewed the substitution request with our curtain wall consultant and we do not believe the product meets the requirements of specification section 084413. The product does not appear to have a significant track records and therefore does not meet the experience criteria in Section 1.07 A-3.

Cherry Hill Glass Company Structurally Glazed Project Examples



**Yale Engineering Building
New Haven, CT**

Architect:
Cesar Pelli & Associates

**Town Square Building
Hartford, CT**

Architect: *CBT*



Uni-Wall Curtain Wall Structurally Glazed Project Examples



**1140 Avenue of the Americas
New York, NY**

Architect: Iu and Bibliowicz



*Close-up of gap between panels,
with window washing button*

**Ross School of Business,
Univ. of Michigan, Ann Arbor, MI**

**Architect:
Kohn, Pedersen, Fox**



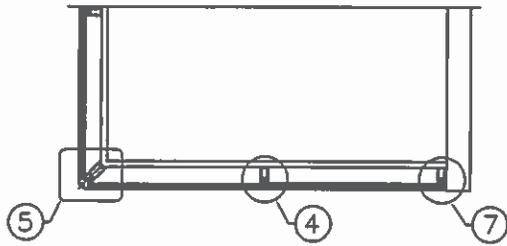
Uni-Wall Curtain Wall Structurally Glazed Project Examples



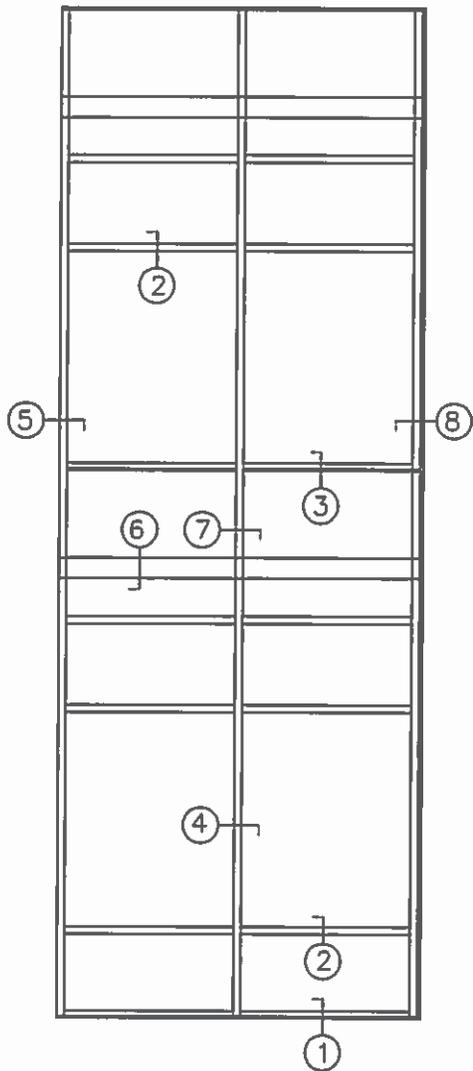
**Dana Farber Cancer Center
Boston, MA**

**Architect:
Zimmer - Gunsul - Frasca Architects**

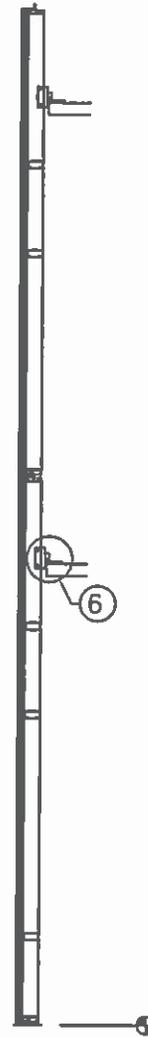




(A) PLAN SECTION THRU (CAPTURED)



(B) ELEVATION VIEW (CAPTURED)



SECTION THRU (CAPTURED)



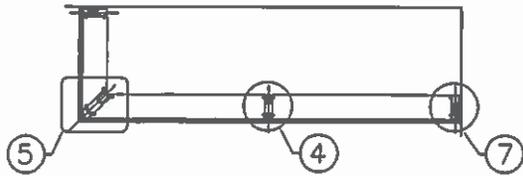
Cherry Hill Glass Co., Inc.

20 Elm St. • Branford, CT 06405
Tel (203) 483-1717 • Fax (203) 483-9057

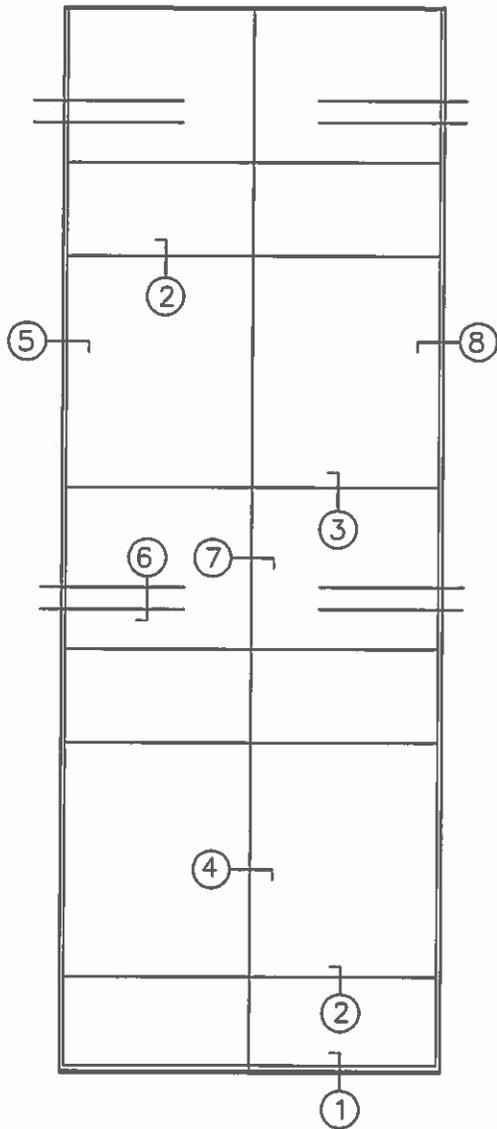
**ELEVATION
CAPTURED**

UNI-WALL™

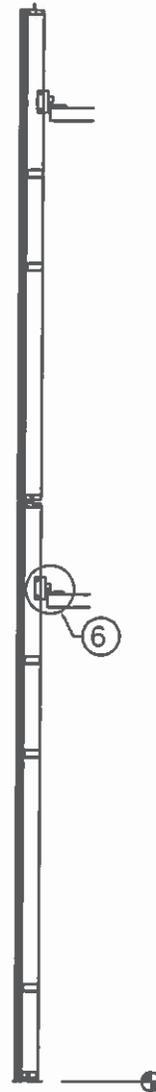
C-E1



(A) PLAN SECTION THRU (STRUCTURALLY GLAZED)



(B) ELEVATION VIEW (STRUCTURALLY GLAZED)



SECTION THRU (STRUCTURALLY GLAZED)



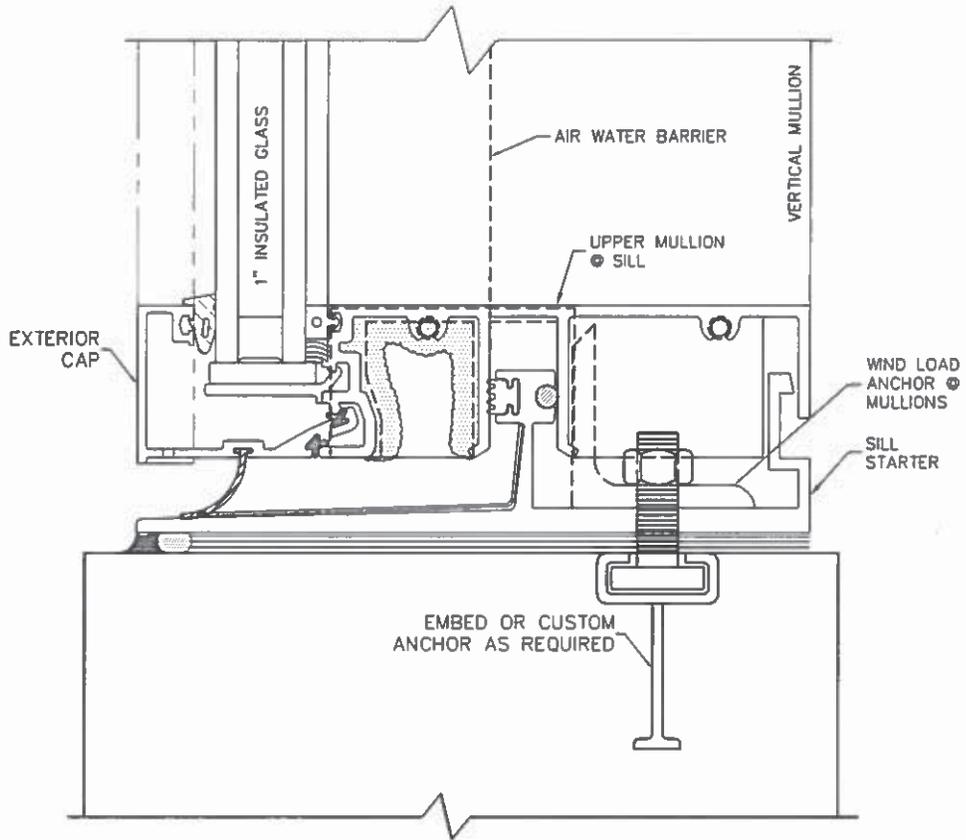
Cherry Hill Glass Co., Inc.

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**ELEVATION
STRUCTURALLY GLAZED**

UNI-WALL™

SG-E1



SCALE = 1/2"



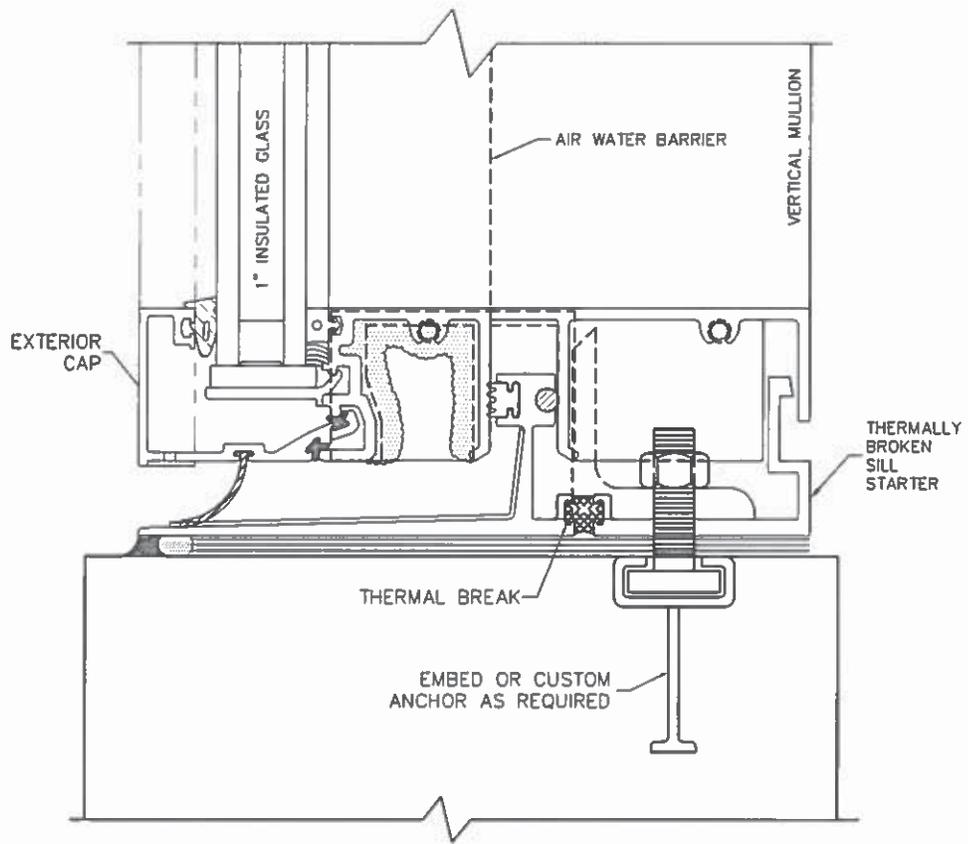
Cherry Hill Glass Co., Inc.

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**TYPICAL SILL CONDITION
 CAPTURED**

UNI-WALL™

C-D1



SCALE = 1/2"



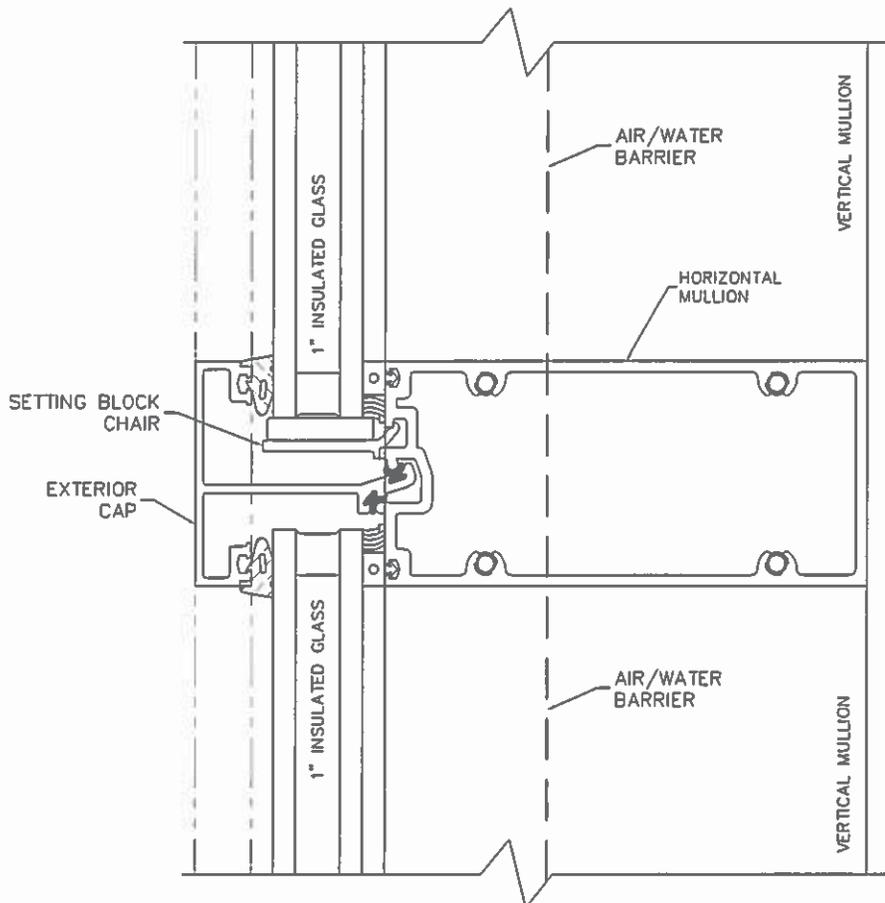
Cherry Hill Glass Co., Inc.

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SILL CONDITION W/ THERMAL BREAK
 CAPTURED

UNI-WALL™

C-D1A



SCALE = 1/2"

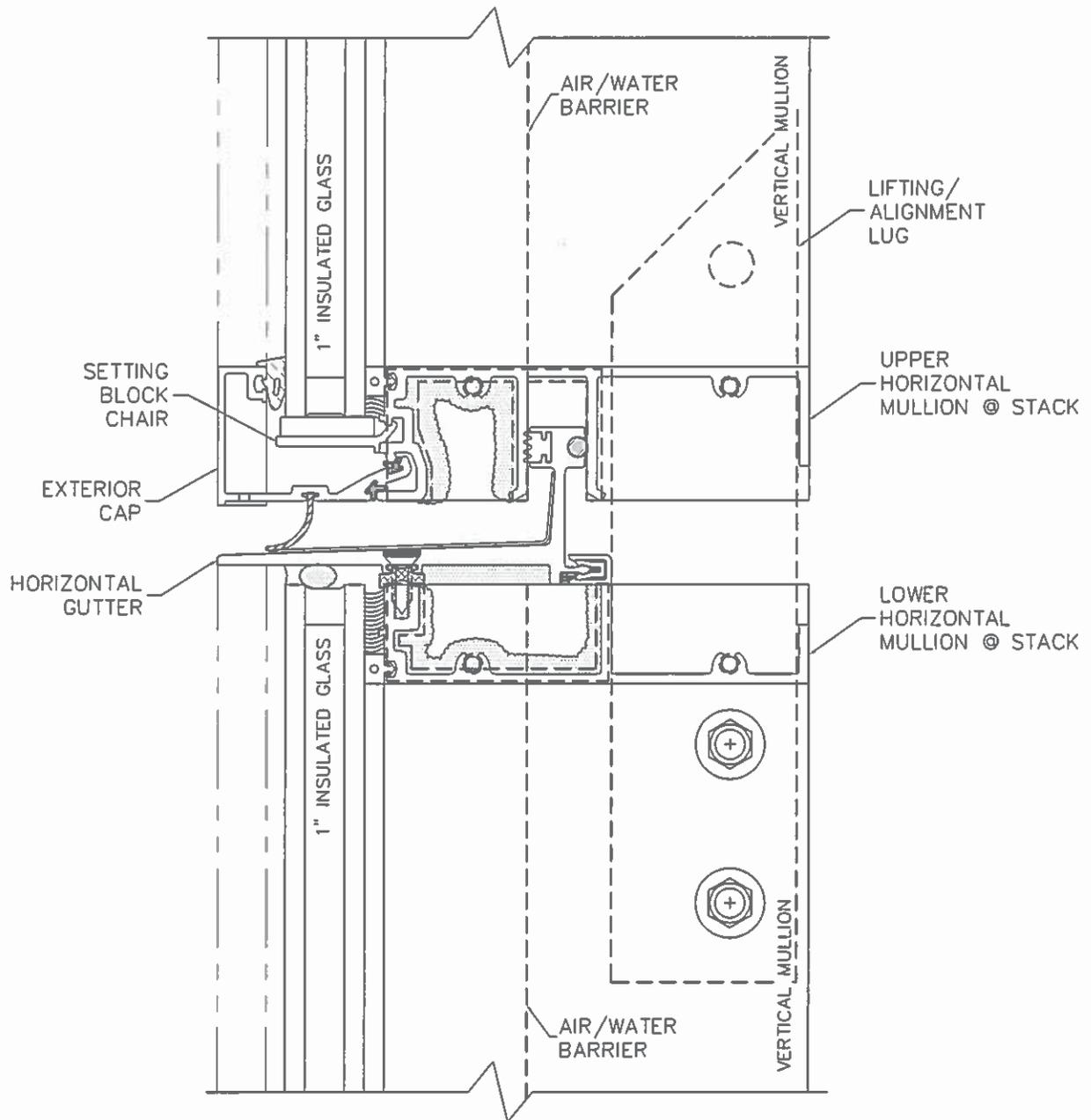


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TYPICAL INTERMEDIATE HORIZONTAL CAPTURED

UNI-WALL™

C-D2



SCALE = 1/2"



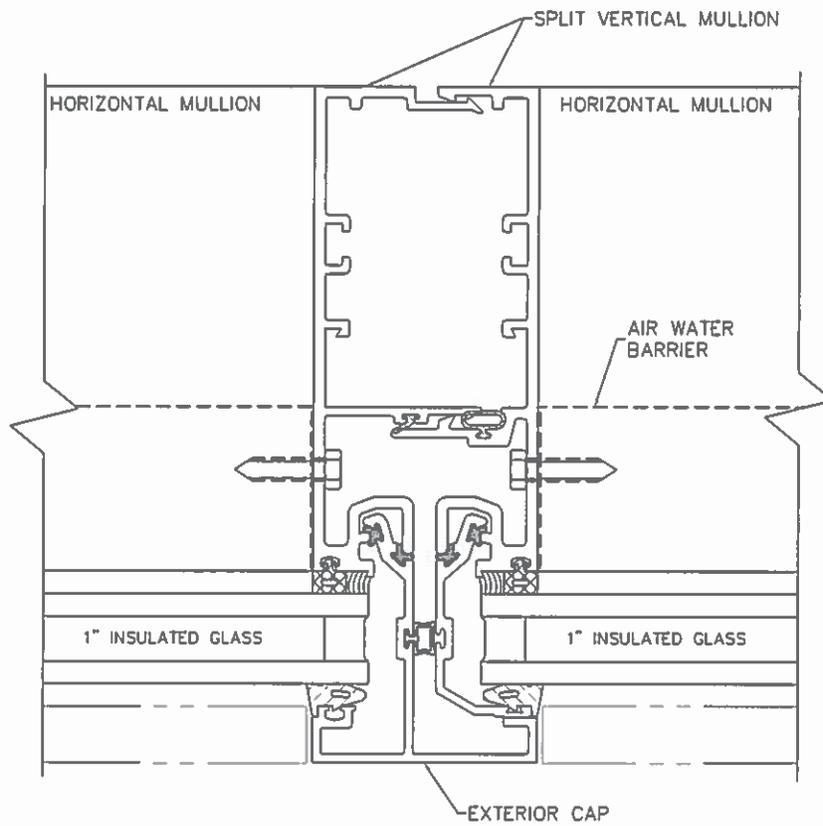
Cherry Hill Glass Co., Inc.

20 Elm St. • Branford, CT 06405
Tel (203) 483-1717 • Fax (203) 483-9057

TYPICAL STACK JOINT
CAPTURED

UNI-WALL™

C-D3



SCALE = 1/2"



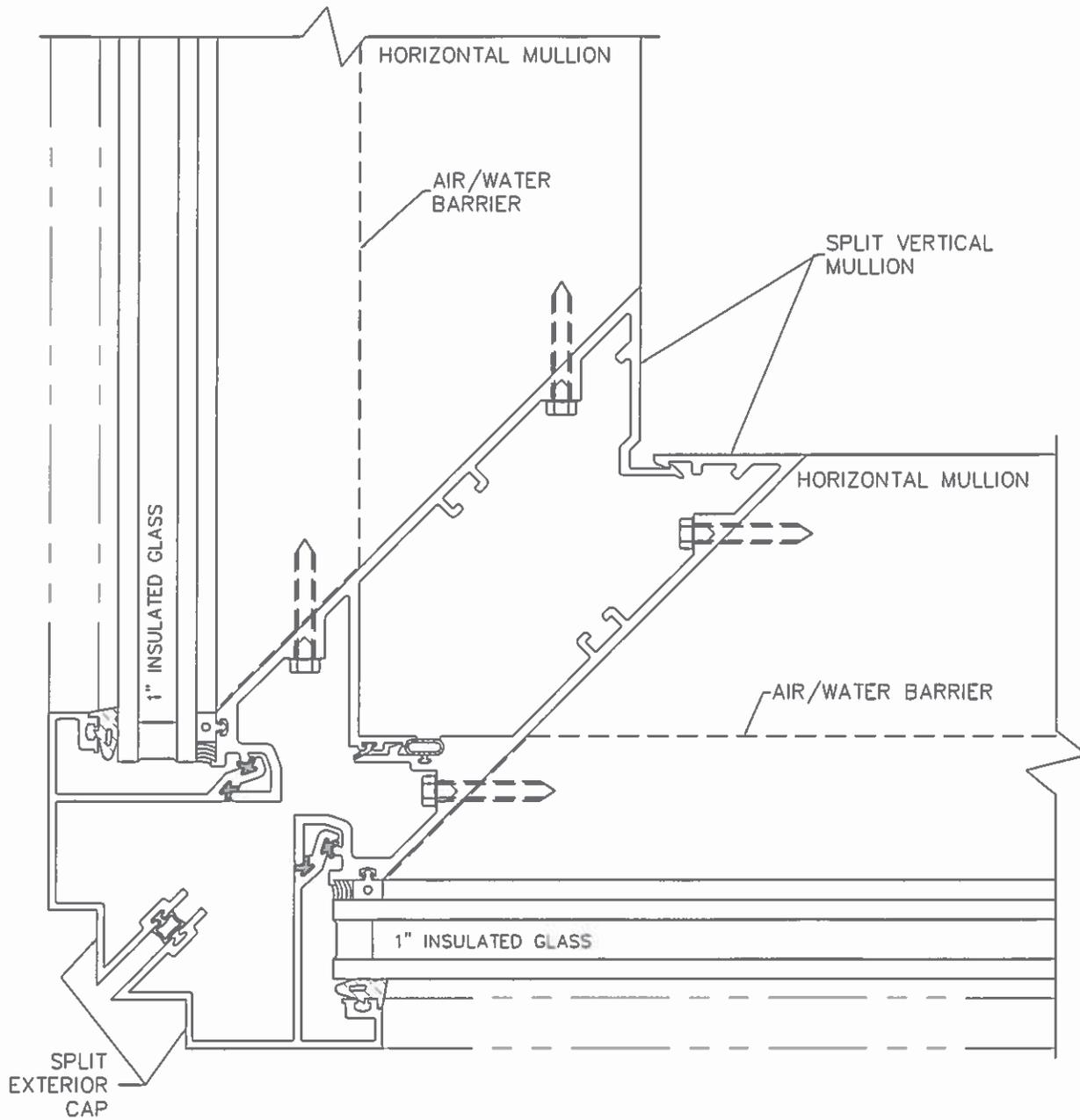
Cherry Hill Glass Co., Inc.

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**TYPICAL VERTICAL MULLION
 CAPTURED**

UNI-WALL™

C-D4



SCALE = 1/2"



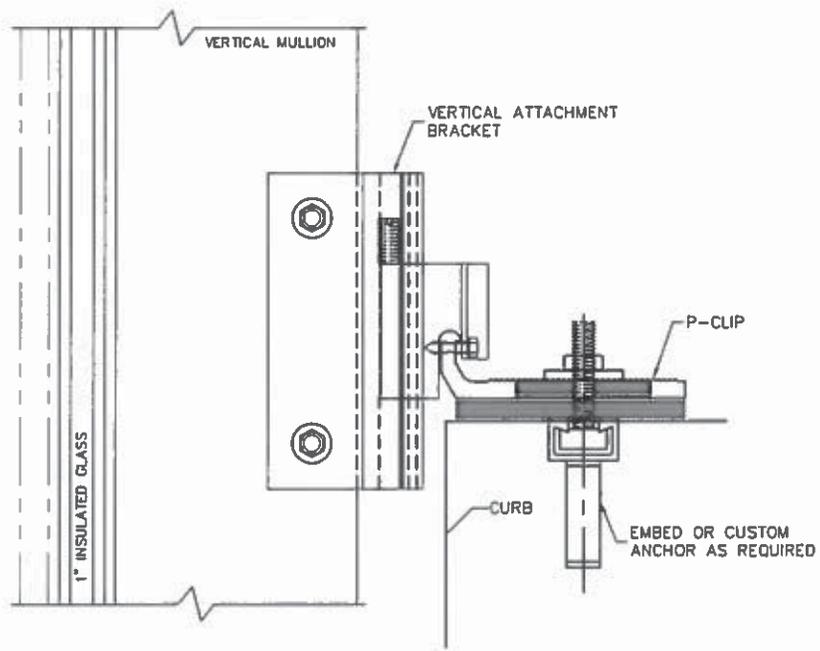
Cherry Hill Glass Co., Inc.

20 Elm St. • Branford, CT 06405
 Tel (203) 483-1717 • Fax (203) 483-9057

TYPICAL OUTSIDE CORNER MULLION
 CAPTURED

UNI-WALL™

C-D5



SCALE = 1/4"



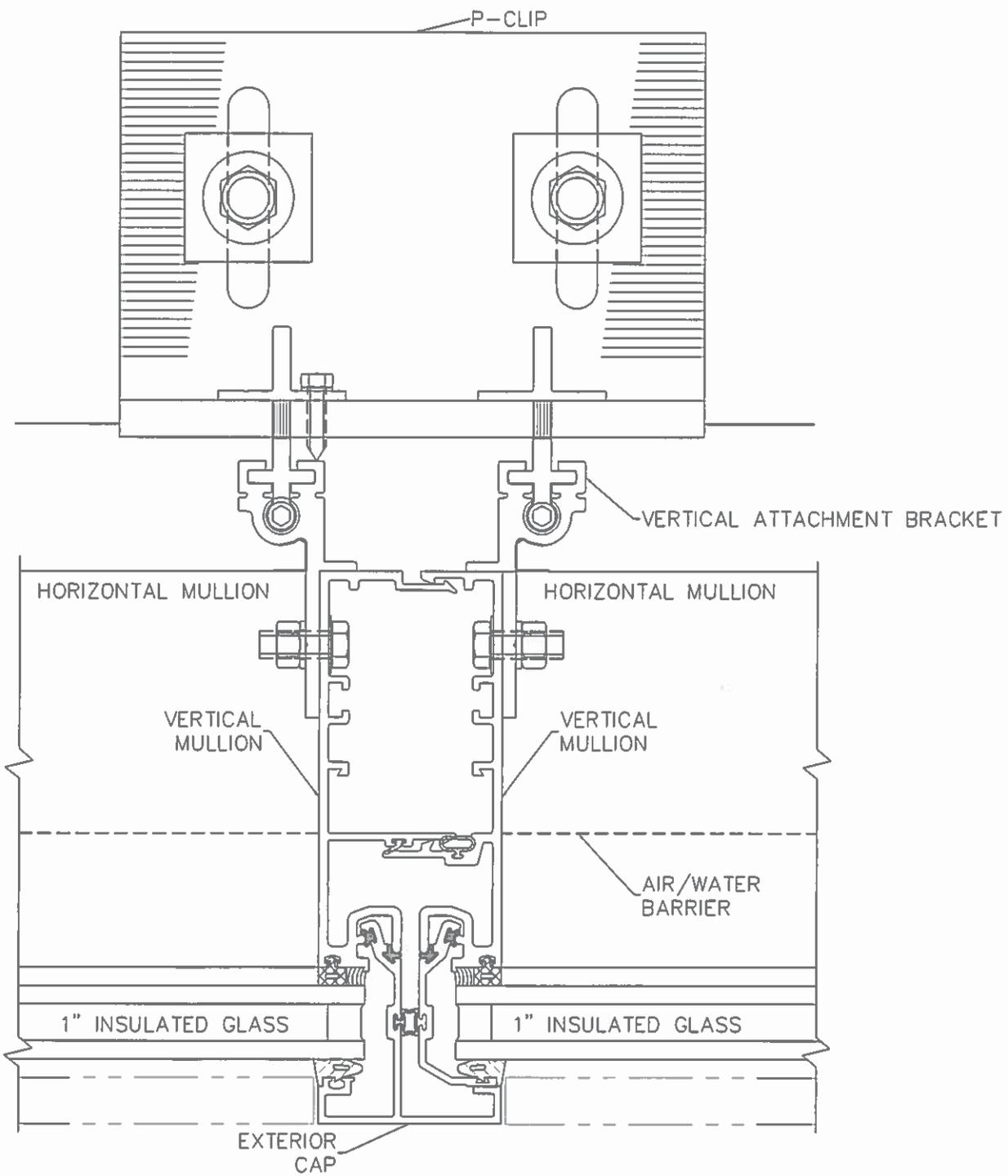
Cherry Hill Glass Co., Inc.

20 Elm St. • Branford, CT 06405
 Tel (203) 483-1717 • Fax (203) 483-9057

**TYPICAL ANCHOR
 CAPTURED**

UNI-WALL™

C-D6



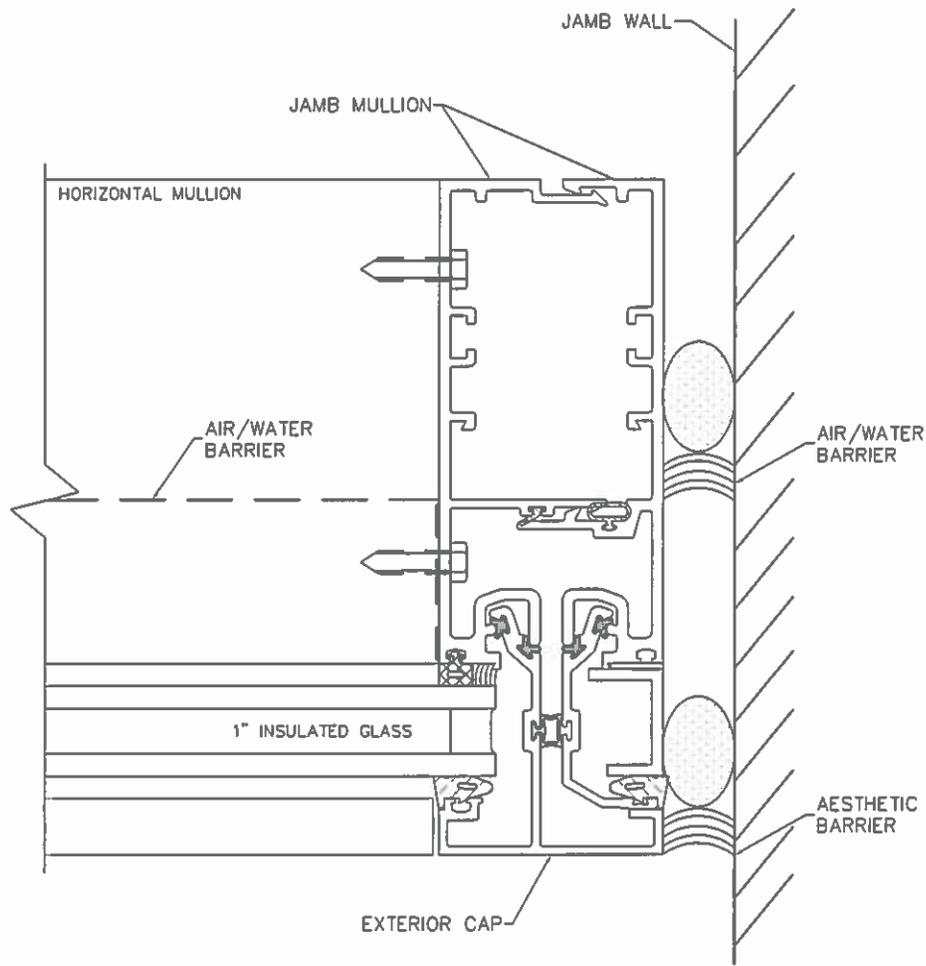
SCALE = 1/2"



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**TYPICAL ANCHOR
 CAPTURED**
 UNI-WALL™

C-D7



SCALE = 1/2"

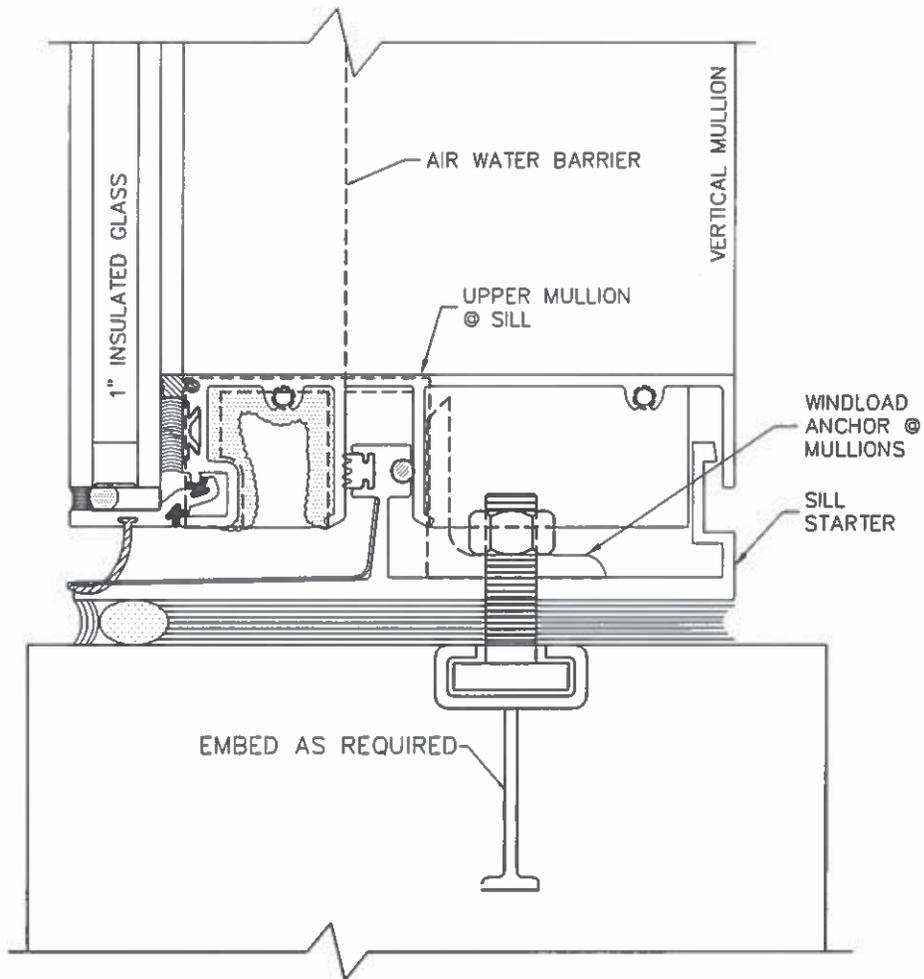


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TYPICAL VERTICAL JAMB MULLION CAPTURED

UNI-WALL™

C-D8



SCALE = 1/2"



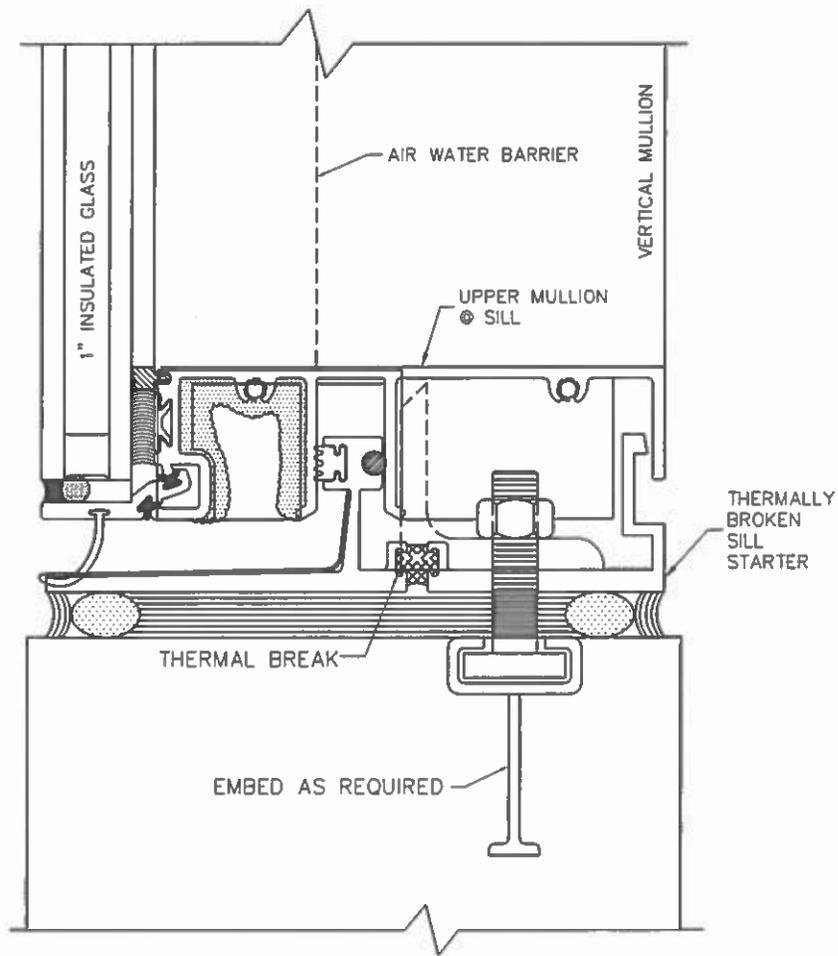
Cherry Hill Glass Co., Inc.

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 Tel (203) 483-1717 • Fax (203) 483-9057

**TYPICAL SILL CONDITION
 STRUCTURALLY GLAZED**

UNI-WALL™

SG-D1



SCALE = 1/2"



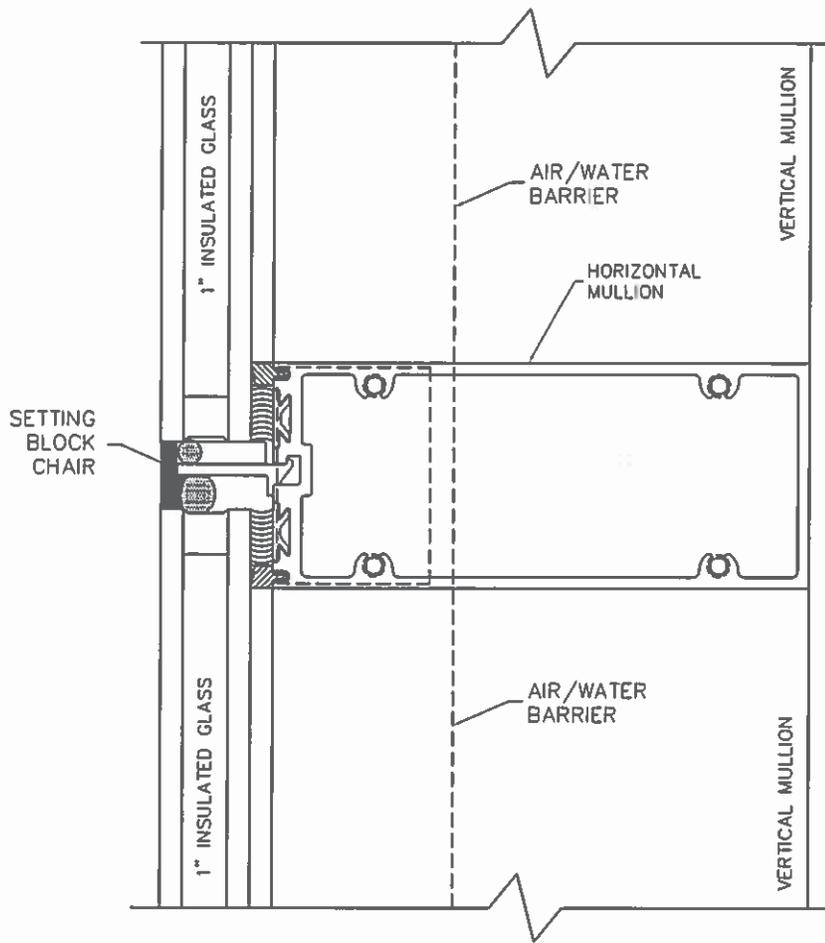
Cherry Hill Glass Co., Inc.

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Tel (203) 483-1717 • Fax (203) 483-9057

**SILL W/ THERMAL BREAK
STRUCTURALLY GLAZED**

UNI-WALL™

SG-D1A



SCALE = 1/2"



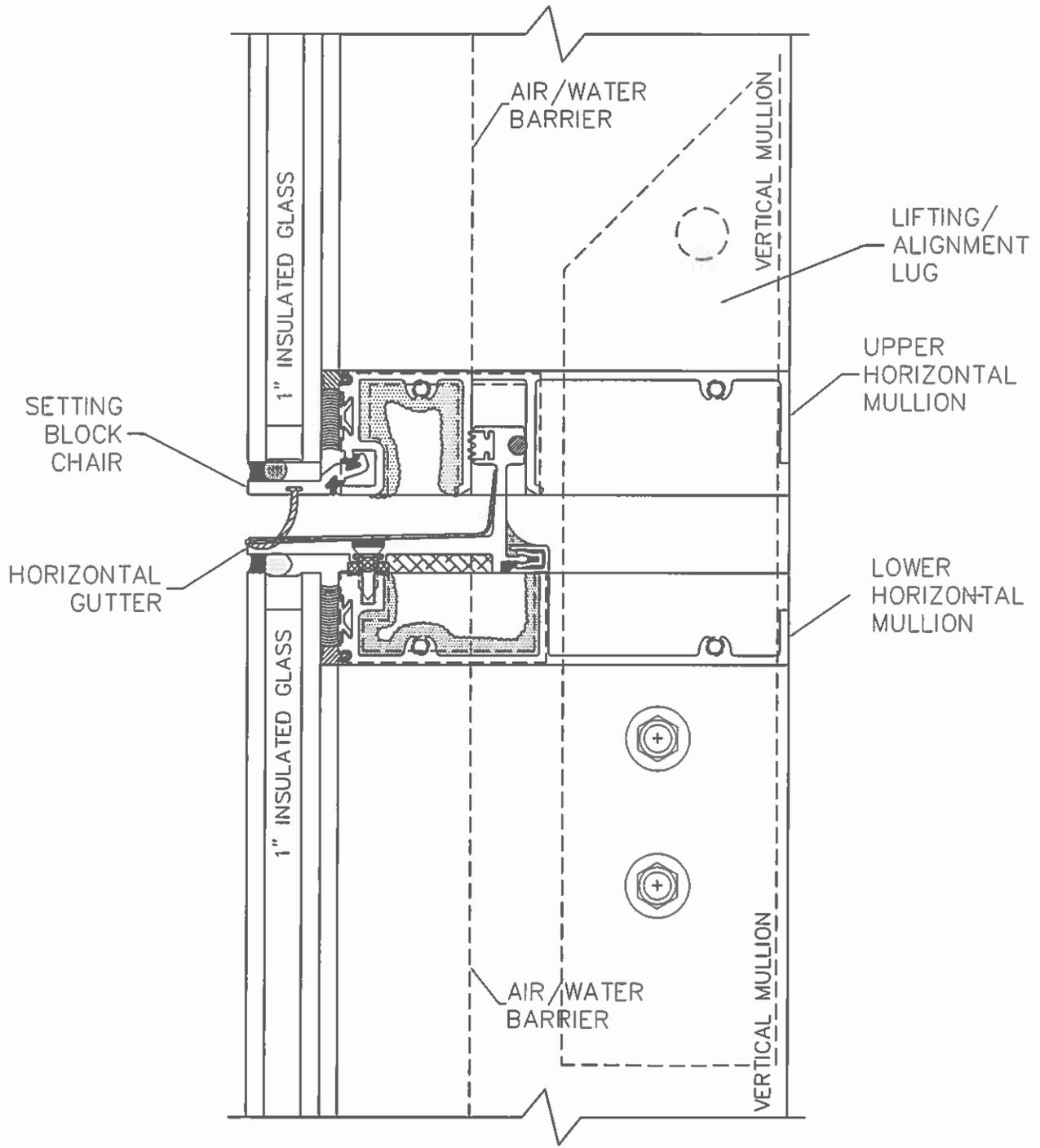
Cherry Hill Glass Co., Inc.

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**TYPICAL INTERMEDIATE HORIZONTAL
 STRUCTURALLY GLAZED**

UNI-WALL™

SG-D2



SCALE = 1/2"

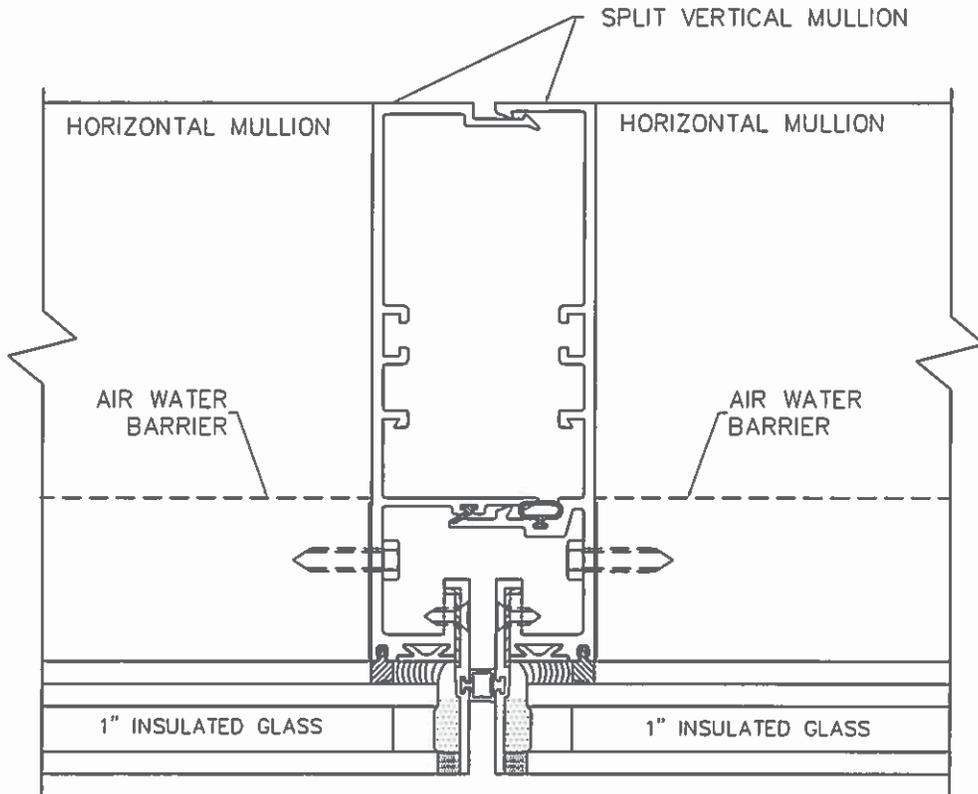


Cherry Hill Glass Co., Inc.
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**TYPICAL STACK JOINT
 STRUCTURALLY GLAZED**

UNI-WALL™

SG-D3



SCALE = 1/2"



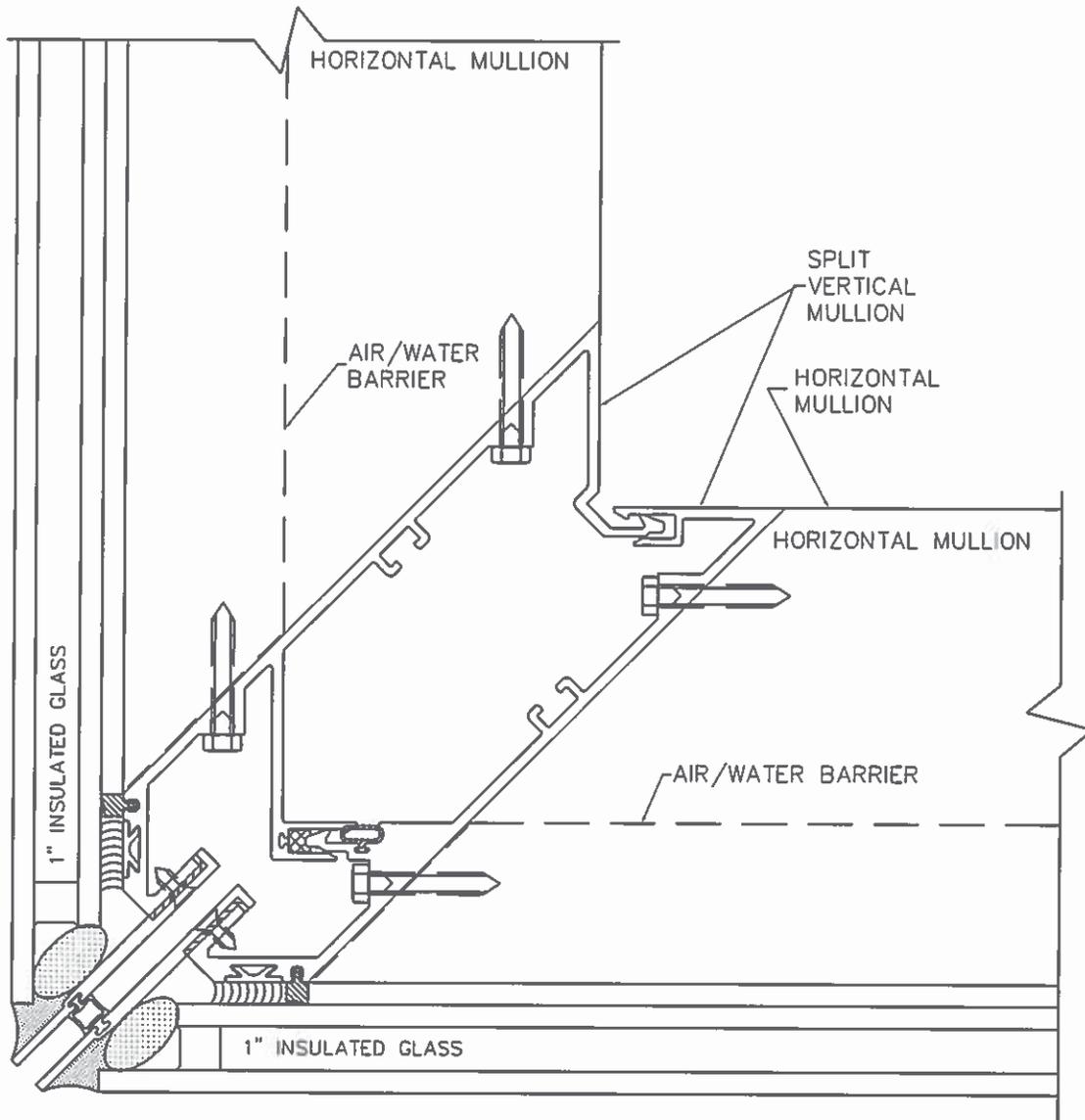
Cherry Hill Glass Co., Inc.

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**TYPICAL VERTICAL MULLION
 STRUCTURALLY GLAZED**

UNI-WALL™

SG-D4



SCALE = 1/2"



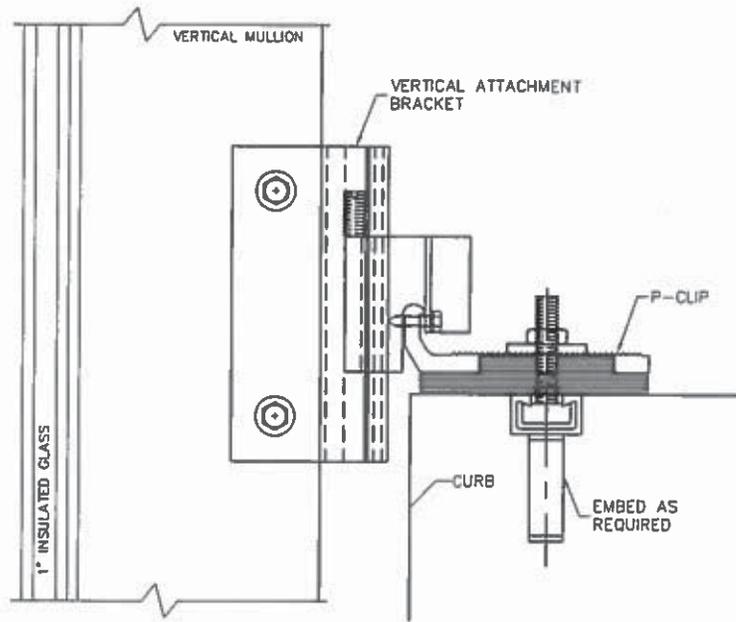
Cherry Hill Glass Co., Inc.

20 Elm St. • Branford, CT 06405
 Tel (203) 483-1717 • Fax (203) 483-9057

**TYPICAL OUTSIDE CORNER MULLION
 STRUCTURALLY GLAZED**

UNI-WALL™

SG-D5



SCALE = 1/4"



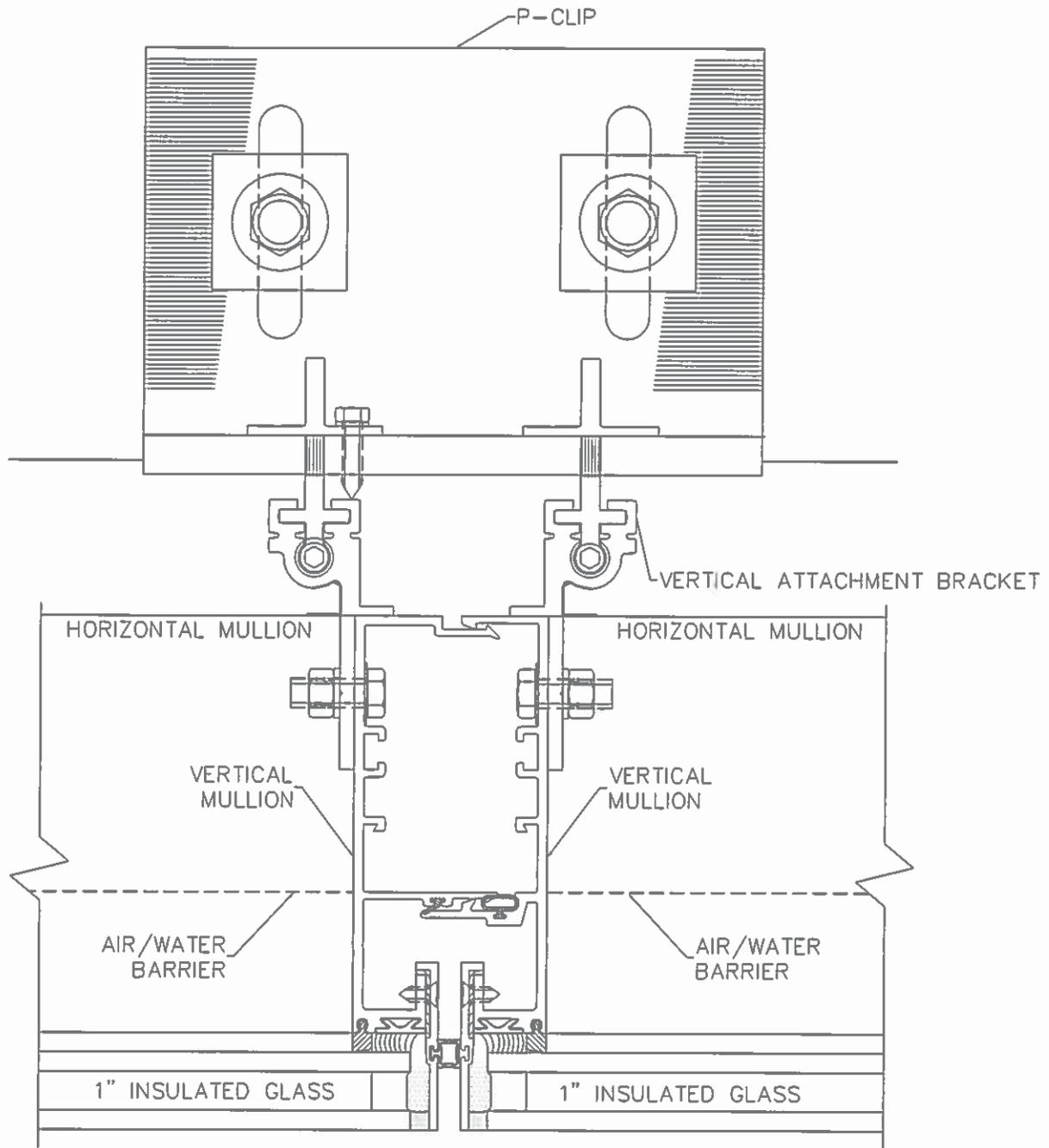
Cherry Hill Glass Co., Inc.

20 Elm St. • Branford, CT 06405
Tel (203) 483-1717 • Fax (203) 483-9057

**TYPICAL ANCHOR
STRUCTURALLY GLAZED**

UNI-WALL™

SG-D6



SCALE = 1/2"



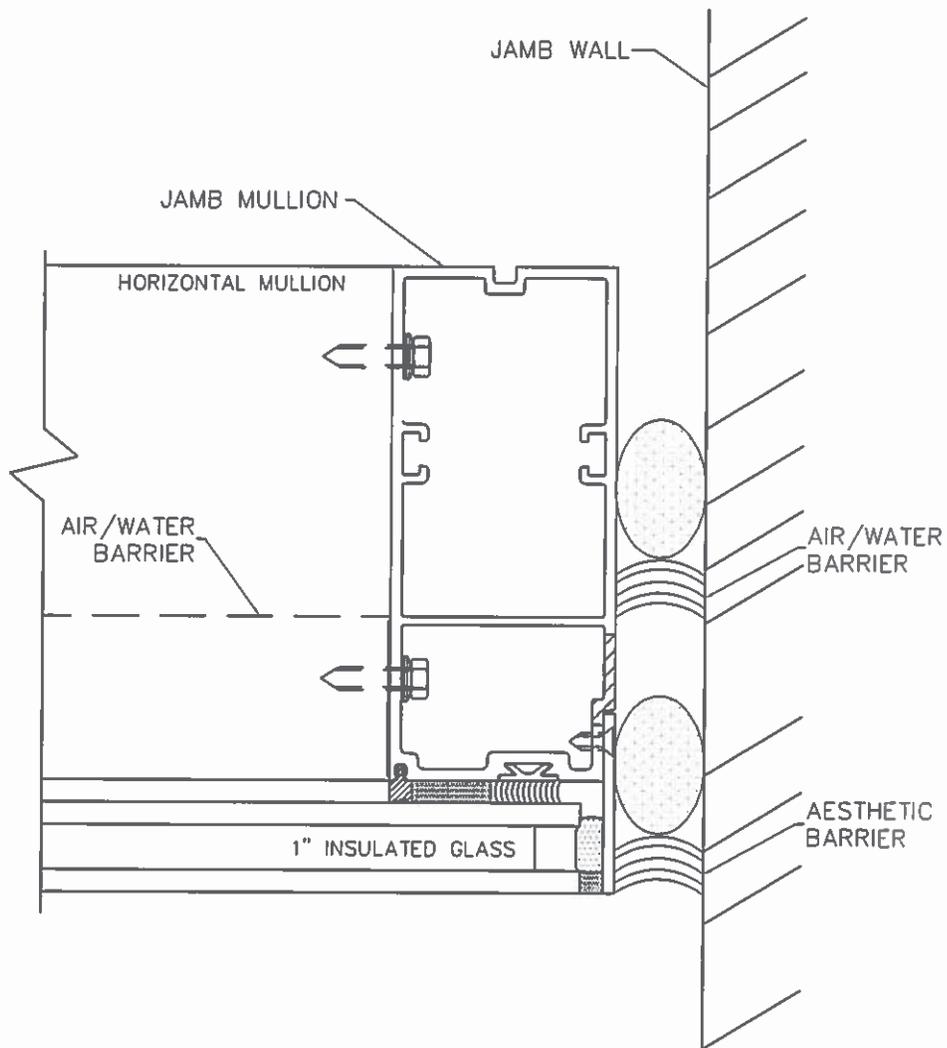
Cherry Hill Glass Co., Inc.

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 Tel (203) 483-1717 • Fax (203) 483-9057

**TYPICAL ANCHOR
 STRUCTURALLY GLAZED**

UNI-WALL™

SG-D7



SCALE = 1/2"



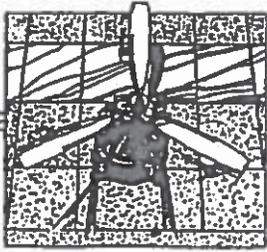
Cherry Hill Glass Co., Inc.

20 Elm St. • Branford, CT 06405
 Tel (203) 483-1717 • Fax (203) 483-9057

**TYPICAL VERTICAL JAMB MULLION
 STRUCTURALLY GLAZED**

UNI-WALL™

SG-D8



MID AMERICA TESTING LABORATORY, INC.

10525 SIGNAL HILL DRIVE • CATAWISSA, MISSOURI 63015

(636) 257-4722 • FAX (636) 257-5425

DATE OF REPORT: July 12, 2007

LOCATION OF TEST: Mid America Testing Laboratory

DATES OF ERECTION: April 4 – 13, 2007

DATE OF FORMAL TEST: April 23 – May 8, 2007

PROJECT NUMBER: 07025L

PROJECT NAME: AGT Unitized Curtain Wall

CLIENT: Architectural Skylight Company, Inc.

The following were present for all or parts of the erection, pretesting, and formal testing:

Mr. Kevin Johnson	Architectural Glazing Technologies
Mr. Roland Paradis	Architectural Glazing Technologies
Mr. Jim Jordon	Double Diamond Company
Mr. Neil Jordon	Double Diamond Company
Mr. Dan Falcone	Double Diamond Company
Mr. Travis Swisshelm	Mid America Testing Laboratory
Ms. Cindy Barrow	Mid America Testing Laboratory
Mr. Andy Andrews	Mid America Testing Laboratory
Mr. Rick Heitmann	Mid America Testing Laboratory

INTRODUCTION

As requested, Mid America Testing Laboratory provided a single structural chamber for the purposes of weatherization, structural, seismic, and thermal testing of the Architectural Glazing Technologies Unitized Curtain Wall Mock-ups. The unit description below is based on the final installation of the systems. The test components were manufactured and installed by Architectural Glazing Technologies and erected by Double Diamond Company under the client supervision and direction. The units were shop fabricated and glazed prior to their shipment to Mid America Testing Laboratory.

UNIT DESCRIPTION

The overall dimension of the two (2) thermally improved unitized systems measured a nominal 20'-8" wide by 28'-9" high. Each system assembly was comprised of four (4) preglazed frame units. The larger units measured a nominal 5' wide by 15'-6" high and were one (1) lite wide by four (4) lites high. The smaller units measure a nominal 5' wide by 12'-5" high and were one (1) lite wide by three (3) lites high. Each of the two (2) systems included in the mock-up accounted for half of the opening. Both systems utilized 1" insulated glass for both the spandrel and vision units. The typical makeup comprised of an outer 1/4" heat strengthened lite, 1/2" airspace, and an inner 1/4" clear heat strengthened lite. The vision units had a VEI-40 coating on the #2 surface.

The first of the two (2) systems was structurally glazed and had an overall depth of 9". The interior structural glazing utilized Dow Corning 983 and the exterior weather seal glazing utilized Dow Corning 795. The interior structural seal was backed with a silicone spacer and the exterior seal was backed with Denver foam. Each lite was set on two (2) EPDM setting blocks and were bed sealed with silicone onto the aluminum setting chairs. The setting blocks had a Shore "A" Durometer reading of 85, and were located at nominal quarter points.

The second system was two piece capture glazed design and had an overall depth of 7-1/2". The interior glazing utilized a preset EPDM gasket measuring 1/4" by 1/4" with a Shore "A" Durometer reading of 60. The interior spacer gasket was run flush with the mullion and backed with a full bead of silicone around the entire unit. The exterior glazing utilized an EPDM wedge gasket with molded corners and with a Shore "A" Durometer reading of 70. The glass also set on two (2) setting blocks with setting chairs as identified above.

Water was weeped from the glazing cavity into the vertical mullion then down to the sill and out the exterior at each stack levels. Water diverters were used at all ends to keep water traveling down the verticals and not onto the top of the glass.

The typical thermally isolated horizontal stack joint utilized an exterior rain screen wiper gasket at the outer most seal. Addition weatherization was achieved from a continuous horizontal finned preset EPDM gasket measuring 3/8" wide. Neoprene blocks measuring 3/4" by 3/4" by 6" were used at all vertical to horizontal stack joint intersections. The male leg of the stack joint was splice sealed with a silicone boot, bed sealed, and face perimeter sealed with silicone. The typical vertical stack joint weathering utilized a combination wipe gasket, bulb gasket, and barrier gasket to create a three (3) line air and water defense.

The perimeter joints, as well as the seal between the two systems, were accomplished with DOW 795 backed with Denver rod. The inner caulk joint was tied into the air/water seals and gaskets at the stack joints. All internal assembly and joinery seals are Dow Corning 795 and all shop-applied structural seals are Dow Corning 983.

The mock-up was structurally supported by anchors which attached to the simulated floor line beams with two (2) 1/2"-13 by 3" hex head bolts per anchor plate. A two (2) piece aluminum slide clip assembly was fastened to the day light opening plane each vertical mullion with two (2) hex head bolts. Each slide clip was adjusted with two (2) 1/2"-13 by 1" set screws. The slide clips were fastened to the anchor plates with tek screws.

Prior to thermal testing insulation was installed in the spandrel openings. The insulation was identified as CW90 and was 4" deep. A 22 gauge galvanized steel back pan completed the glazing pocket assembly with full foil tape creating the seal between the foil faced insulation to the interior aluminum extrusions.

Foil backed CW 90 insulation was also installed the full depth and width of the shallow system at the stack joint. The insulation was taped around its perimeter to the extrusions with foil tape.

Items not found in this unit description may be found in the mock-up drawings provided by Architectural Skylight Company and labeled ASC Unitized Curtain Wall System Design, numbered P.01-FD.06, and dated December 6, 2007, with a mock-up revision date of June 2007.

PRETESTING

Prior to formal testing the unit was subjected to a series of static water infiltration test to check for any workmanship or system type errors. All pretesting was performed at 12.0 PSF.

During the pretesting, water was observed at one (1) mullion in the structural system as well as water noted at the perimeter jambs and jambs between the two (2) systems. Investigative testing and visual observation revealed damage to the end dams caused during installation as well as the tops of the end dams not properly sealed back to the vertical mullions. Further isolation testing revealed a roll in the neoprene gasket at the four (4) way intersection allowing air and water to travel laterally across the male leg of the stack joint and into the room side.

The end dams were resealed and married to the verticals. The vertical stacks were baffled as was the horizontal 4 way reworked from the exterior. In addition, the hole found in the mullion was sealed with silicone.

The water infiltration test was then run again. No water infiltration was observed. The remediation allowed for successful pretesting and progression to formal testing.

FORMAL TESTING

All tests were performed on the specimen described above utilizing applicable ASTM and AAMA standards and as directed by the client specifications.

1. **PRELOAD** +25.0 PSF static pressure (50% of the positive design load for 10 seconds).

ALLOWED: No failure of the system.

RESULTS: No failure of the system.

The above result constitutes an acceptable performance.

2. **STATIC AIR INFILTRATION** (ASTM E 283) at 6.24 PSF (50 MPH wind and 1.2" H₂O). Air infiltration shall not exceed .06 CFM per square foot of wall.

ALLOWED: .06 CFM per square foot of wall or 17.7 CFM gross per system.

RESULTS: .01 CFM per square foot or 4.0 CFM gross of the structurally glazed wall.

The above result constitutes an acceptable performance.

- 2a. **STATIC AIR INFILTRATION** (ASTM E 283) at 6.24 PSF (50 MPH wind and 1.2" H₂O). Air infiltration shall not exceed .06 CFM per square foot of wall.

ALLOWED: .06 CFM per square foot of wall or 17.7 CFM gross per system.

RESULTS: .05 CFM per square foot or 15.0 CFM gross of the capture glazed wall.

The above result constitutes an acceptable performance.

3. **STATIC WATER INFILTRATION** (ASTM E 331) at 15.0 PSF (77 MPH wind and 2.8" H₂O) with a water spray rate of five (5) gallons per hour per square foot minimum for fifteen (15) minutes.

ALLOWED: No uncontrolled water infiltration to the room side.

RESULTS: No uncontrolled water infiltration to the room side.

The above result constitutes an acceptable performance.

4. **DYNAMIC WATER INFILTRATION** (AAMA 501.1) at 100 MPH slip stream velocity creating a pressure on the wall equivalent to 15.0 PSF and a 77 MPH wind. Water shall be applied at a rate of five (5) gallons per hour per square foot minimum for fifteen (15) minutes.

ALLOWED: No uncontrolled water infiltration to the room side.

RESULTS: No uncontrolled water infiltration to the room side.

The above result constitutes an acceptable performance.

5. **STRUCTURAL DESIGN LOAD** (ASTM E 330) Held for ten (10) seconds duration for both 50% and one (1) minute for 100% loads.

+25.0 PSF (50% Positive Design Load) to remove slack.

+50.0 PSF (100% Positive Design Load)

-25.0 PSF (50% Negative Design Load) to remove the slack.

-50.0 PSF (100% Negative Design Load)

ALLOWED: Deflection of framing members shall not exceed L/175 of clear span with a maximum allowed horizontal deflection of .342", and a maximum allowed vertical deflection of .617". There shall be no failure of the system.

RESULTS: No member exceeded the allowable deflection nor was there any failure of the system with a recorded maximum

horizontal net deflection of .080" and a maximum vertical net deflection of .555".

The above results constitute an acceptable performance.

6. **STATIC AIR INFILTRATION** (ASTM E 283) at 6.24 PSF (50 MPH wind and 1.2" H₂O). Air infiltration shall not exceed .06 CFM per square foot of wall.

ALLOWED: .06 CFM per square foot of wall or 35.4 CFM gross leakage.

RESULTS: No appreciable change in the air infiltration of either system as a result of the structural design loading.

The above result constitutes an acceptable performance.

7. **STATIC WATER INFILTRATION** (ASTM E 331) at 15.0 PSF (77 MPH wind and 2.8" H₂O) with a water spray rate of five (5) gallons per hour per square foot minimum for fifteen (15) minutes.

ALLOWED: No uncontrolled water infiltration to the room side.

RESULTS: No uncontrolled water infiltration to the room side.

The above result constitutes an acceptable performance.

8. **SEISMIC LATERAL RACKING** (AAMA 501.4) with the wall system being subjected to the following six (6) cycles; .75" left, return to 0, .75" right return to 0.

ALLOWED: There shall be no failure of the system including anchors, gasket disengagement, or permanent deformation of any wall component.

RESULTS: No failure of the system was noted.

The above result constitutes an acceptable performance.

9. **VERTICAL DISPLACEMENT** (AAMA 501.4) with the wall system being subjected to the following three (3) open and closed cycles (+/-) 3/8".

ALLOWED: There shall be no failure of the system including sealant failure.

RESULTS: No failure of the system was noted.

The above result constitutes an acceptable performance.

10. **STATIC AIR INFILTRATION** (ASTM E 283) at 6.24 PSF (50 MPH wind and 1.2" H₂O). Air infiltration shall not exceed .06 CFM per square foot of fixed wall.

ALLOWED: .06 CFM per square foot of wall or 35.4

RESULTS: No appreciable change in the air infiltration of either system as a result of seismic and vertical displacement.

The above result constitutes an acceptable performance.

11. **STATIC WATER INFILTRATION** (ASTM E 331) at 15.0 PSF (77 MPH wind and 2.8" H₂O) with a water spray rate of five (5) gallons per hour per square foot minimum for fifteen (15) minutes.

ALLOWED: No uncontrolled water infiltration to the room side.

RESULTS: No uncontrolled water infiltration to the room side.

The above result constitutes an acceptable performance.

12. **THERMAL CYCLING** The wall shall be subjected to six cycles with each cycle consisting of:

Exterior air 0°F, Interior air 72°F; held for one (1) hour after establishing equilibrium. Exterior metal surface 180°F, Interior air 72°F; Held for one (1) hour after establishing equilibrium.

ALLOWED: There shall be no detrimental effects to include sealant, glass, and uncontrolled condensation not weeped to the exterior.

RESULTS: No detrimental effects were noted or was there any failure of the system.

The above result constitutes an acceptable performance.

13. **STATIC AIR INFILTRATION** (ASTM E 283) at 6.24 PSF (50 MPH wind and 1.2" H₂O). Air infiltration shall not exceed .06 CFM per square foot of fixed wall.

ALLOWED: .06 CFM per square foot of wall or 35.4 CFM gross leakage.

RESULTS: No appreciable change in the air infiltration of either system as a result of thermal cycling.

The above result constitutes an acceptable performance.

14. **STATIC WATER INFILTRATION** (ASTM E 331) at 15.0 PSF (77 MPH wind and 2.8" H₂O) with a water spray rate of five (5) gallons per hour per square foot minimum for fifteen (15) minutes.

ALLOWED: No uncontrolled water infiltration to the room side.

RESULTS: No uncontrolled water infiltration to the room side.

The above result constitutes an acceptable performance.

15. **STRUCTURAL PROOF LOAD** (ASTM E 330) Held for ten (10) seconds duration for both 75% and 150% loads. Readings were recorded at 150% loads only.

+37.5 PSF (75% Positive Design Load) to remove slack
+75.0 PSF (150% Positive Design Load)
-37.5 PSF (75% Negative Design Load) to remove slack
-75.0 PSF (150% Negative Design Load)

ALLOWED: Permanent deformation of framing members shall not exceed $L/1000$ of span with a maximum allowed permanent set of 0.108". There shall be no failure of the system.

RESULTS: No member exceeded the allowable permanent set criteria nor was there any failure of the system with a maximum recorded permanent set of .080".

The above results constitute an acceptable performance.

SUMMARY

The Architectural Glazing Technologies Unitized Curtain Wall system has met the required levels of performance as directed by project specifications, dated November 27, 2006, and applicable industry ASTM and AAMA standards.

The remedial work performed during this pretesting eliminated any water infiltration and allowed for a successful and formal testing of the curtain wall systems. All remedial work required was due to workmanship and installation flaws and not inherent design issues.

This report or any portions thereof may not be reproduced by anyone or forwarded to anyone without written consent of Mid America Testing Laboratory. Participants referenced in the test report are welcome to a copy of this test report if so desired by the laboratory's client.

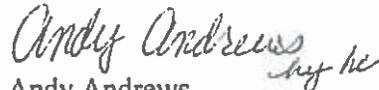
The above results were secured by using the designated test methods, which indicate compliance with the performance requirements of the referenced specification. This report does not constitute certification of this product, which may only be granted by the validator.

Page 10
AGT Curtain Wall
Test Report
July 12, 2007

Should you have any questions regarding the information contained in this report, please feel free to contact the laboratory.

Respectfully Submitted,

MID AMERICA TESTING LABORATORY

Handwritten signature of Andy Andrews in cursive script.

Andy Andrews
Technician

Handwritten signature of Rick Heitmann in cursive script.

Rick Heitmann
President

RAH: hme
07025LTR-Rev1

Request for Information



RFI Number: 10
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/20/2015

TO: John Doherty
Mitchell/Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, NY 10036

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Wood Flooring Specification

SPEC SECTION: **DRAWING #:** A7.09 / D9

QUESTION

Date Required:

Please clarify what BP and specification covers the wood flooring shown on Detail 9/A7.09. I do not see it described in 062000 or 064023.

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/21/15		Mitchell/Giurgola Architects	J. Balecha	

ADDITIONAL INFORMATION:

Detail 9/A7.09 shows the wood flooring referenced on the floor pattern plan for the Gathering Display Space on sheet A9.41. Refer to specification section 096416 Edge Grain Wood Flooring.

Request for Information



RFI Number: 11
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/20/2015

TO: John Doherty
Mitchell/Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, NY 10036

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Perforated Metal Enclosure Panels

SPEC SECTION: 116100

DRAWING #: A9.23

QUESTION

Date Required:04/27/2015

Please clarify or provide a detail of the perforated metal enclosure panels required at the fume hoods per elevations 5 & 6 on A9.23.

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/21/15		Mitchell/Giurgola Architects	J. Balecha	

ADDITIONAL INFORMATION:

The metal closure panels above fume hoods are provided by the fume hood manufacturer. See specification section 116100 part 2.03/O. Per drawing sheet A9.01 the metal closure panels above the fume hoods shall be perforated ONLY at the 5th floor. Perforation size & pattern shall match the perforations at metal umbilicals serving the island benches. The solid (unperforated).
All metal closure panels shall extend above the height of finish ceilings.

Request for Information



RFI Number: 12
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/21/2015

TO: John Doherty
Mitchell/Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, NY 10036

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Mitigation of Soil

SPEC SECTION:

DRAWING #:

QUESTION

Date Required:

In the Haley & Aldrich report dated April 3, 2015 on page 18. It states that the soils may require mitigation in order to reduce odors. I don't see a bid item for this.

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/28/15		Haley & Aldrich	Tim Crowl/Chris Harriman	

Requirements for odor control are included in Specification Section 312500. The Contractor will be responsible for determining measures to control odor as needed. Based on information included in the Environmental Precharacterization Program report for the project, dated December 2014, mitigation, if required, would likely require placing non-odorous site soil on top of odorous soil or placing poly plastic sheeting on top of odorous soil. The greatest potential need for odor control is near borings B101, B106, and B3. We do not anticipate that significant effort will be required for odor control, and would expect such effort would be part of the base bid.

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 14
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/21/2015

TO: John Doherty
Mitchell/Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, NY 10036

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Air Monitoring

SPEC SECTION:

DRAWING #:

QUESTION

Date Required:

Is air monitoring required as a part of the bid due to high levels of VOCs, SVOCS, TPH and metals?

SUGGESTION:

RESPONSES

DATE	REPLY TYPE	FROM (FIRM)	FROM (CONTACT)	DATE REPLY REQUIRED
4/28/15		Haley & Aldrich	Tim Crowl/Chris Harriman	

Air monitoring requirements relative to health and safety of Contractor personnel and fugitive dust should be determined by the Contractor's Qualified Health Professional and summarized in their Health & Safety Plan in accordance with Specification Sections 312500-1.7.C.2.e and 312500-1.7.C.2.g, respectively. The Owner's Environmental Consultant will monitor excavation of soils for the building and tunnel to assist with classification for on-site reuse or off-site reuse, recycling, treatment, and disposal in accordance with Specification Section 312500-3.7.B. Although the Owner's Environmental Consultant may share results of this monitoring, responsibility for health and safety of Contractor personnel remains with the Contractor. The Contractor and their Soil Broker are responsible for monitoring excavated soils at remaining locations including site work, utilities, and site retaining walls.

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 15
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/21/2015

TO: John Doherty
Mitchell/Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, NY 10036

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Groundwater Treatment

SPEC SECTION:

DRAWING #:

QUESTION

Date Required:

Will the groundwater treatment system be running 24 hours per day?

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/28/15		Haley & Aldrich	Tim Crowl/Chris Harriman	

Requirements for dewatering and sediment control are included in Specification Section 312500. The schedule for operating the groundwater treatment system should be determined by the Contractor and will depend on Contractor means and methods, precipitation, seasonal groundwater levels, and infiltration rates. Based on the groundwater analytical data from the environmental precharacterization program, the need for treatment due to chemical contamination of groundwater is not anticipated. Treatment will be required to reduce suspended solids. Options for suspended solids management may include discharging collected water at a slow rate 24 hours per day with appropriate controls or letting full tanks sit overnight and discharging in the morning.

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 17
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/21/2015

TO: John Doherty
Mitchell/Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, NY 10036

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Smart Building Display

SPEC SECTION: DRAWING #: A7.03 / D1

QUESTION

Date Required:

Please verify if the three 1'-6" x 4'-6"L (dotted Lines) in room 101 Smart Building Display are in fact a casework / millwork item or is this FFE. If casework item are there any other details and/or specs?

SUGGESTION:

RESPONSES

DATE	REPLY TYPE	FROM (FIRM)	FROM (CONTACT)	DATE REPLY REQUIRED
4/22/15		Mitchell/Giurgola Architects	J. Balecha	

ADDITIONAL INFORMATION:

The 3 dashed rectangles shown on 01/A7.01 on the west side of the Smart Building Display space 101 are Not In Contract.

Request for Information



RFI Number: 18
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/21/2015

TO: John Doherty
Mitchell/Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, NY 10036

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Spec for Upholstery

SPEC SECTION: 000940

DRAWING #: A7.03 / D5

QUESTION

Date Required:

Please provide a specification for the upholstery (manufacturer, fabric lot, color group, flame test) as well as details for the benches and tables at corridor C1B per 5/A7.03.

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/22/15		Mitchell/Giurgola Architects	J. Balecha	

ADDITIONAL INFORMATION:

The dashed line upholstered benches w/wood veneered tables shown on elevations 5 & 8/A7.03 in corridor C1B are Not In Contract.

Request for Information



RFI Number: 19
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/27/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Partial Existing Warehouse Wall

SPEC SECTION: DRAWING #: C-101

QUESTION

Date Required:

Note on dwg for building and utilities to be removed under Enabling project. Scope of work mentions to remove existing Old Warehouse Foundation. Site Walk thru partial wall remains in place. Indicate quantity of concrete demolition per cy to be included?

SUGGESTION:

RESPONSES

DATE	REPLY TYPE	FROM (FIRM)	FROM (CONTACT)	DATE REPLY REQUIRED
4/27/2015	Reply	Fusco Corporation	Darren Antolini	

Specific quantities cannot be provided. Estimated quantities shall be based on field verification by bidder.

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 20
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/27/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Test Pits

SPEC SECTION: DRAWING #: C101

QUESTION

Date Required:

Note on drawing indicates test pits by others. Clarify if any other test pits are needed.

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/27/2015	Reply	Fusco Corporation	Darren Antolini	

No additional pits required.

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 21
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/27/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Gas tap, Meter and Service

SPEC SECTION: DRAWING #: C401

QUESTION

Date Required:

Note on drawing for new gas tap, meter and service (Inc at tunnel). Clarify scope of work to be included in sitework package.

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/27/2015	Reply	Fusco Corporation	Darren Antolini	

Excavation and Pad by BP #32.0
Meter and Piping by others

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 22
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/21/2015

TO: John Doherty
Mitchell/Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, NY 10036

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Concrete Ramp at Chemistry Building

SPEC SECTION:

DRAWING #: L2.00A

QUESTION

Date Required:

New concrete ramp at Chemistry Building, use Detail 5.6 on Dwg L6.01A. No Detail?

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY</u>	<u>FROM</u>	<u>DATE REPLY</u>
<u>4/24/15</u>	<u>TYPE</u>	<u>DIRTWORKS, PC</u>	<u>REQUIRED</u>

ADDITIONAL INFORMATION:

This detail will be re-issued in an upcoming addendum.

Request for Information



RFI Number: 23
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/27/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Clarification of Sitework Bid Package

SPEC SECTION: 329001

DRAWING #:

QUESTION

Date Required:

Clarify if the following items under division 32 are to be included or partial for BP #031.0 Sitework.

321443 - Permeable Clay Brick Panel
329001 thru 329353

SUGGESTION:

RESPONSES

DATE	REPLY TYPE	FROM (FIRM)	FROM (CONTACT)	DATE REPLY REQUIRED
4/27/2015	Reply	Fusco Corporation	Darren Antolini	

321443 - BP #031.0 Sitework

329001 thru 329353 - BP #031.2 Landscaping

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 24
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/22/2015

TO: John Doherty
Mitchell/Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, NY 10036

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Toilet Partition Supports

SPEC SECTION: 102113

DRAWING #:

QUESTION

Date Required:

Do we need over head bracing for the toilet partition supports? spec section 102113 Toilet partition says that they are floor mounted.

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/24/15		Mitchell/Giurgola Architects	J. Balecha	

ADDITIONAL INFORMATION:

Per specification section 102113 part 2.1 provide stainless steel, floor-braced toilet partitions installed per manufacturer's instructions.

Request for Information



RFI Number: 27
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/27/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Precast Terrazzo Treads (Prebid)

SPEC SECTION: DRAWING #:

QUESTION

Date Required:

Are the precast terrazzo treads part of the terrazzo package or the ceramic tile package?

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/27/2015	Reply	Fusco Corporation	Darren Antolini	

Part of the Terrazzo - BP #09.1

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 28
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/27/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Landscaping Scope of Work Clarification

SPEC SECTION:

DRAWING #:

QUESTION

Date Required:

Please clarify Landscaping scope of work's:

1. Topsoil - by site contractor or landscape contractor? / Screening of topsoil by site contractor?
2. Pavers by others? / Grates by others?
3. Site amenities are in landscape drawings. We assume they are by others?
4. Soil cells are in planting details. We assume they are by others?

SUGGESTION:

RESPONSES

DATE	REPLY TYPE	FROM (FIRM)	FROM (CONTACT)	DATE REPLY REQUIRED
4/27/2015	Reply	Fusco Corporation	Darren Antolini	

Spec section 321443 is in BP #031.0 Sitework

Spec Sections 329001 thru 329353 are in BP #031.2 Landscaping

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 29
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/27/2015

TO: John Doherty
Mitchell/Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, NY 10036

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Ceiling Types in Rooms 510, 511, 512 & 51 (Prebid) SPEC SECTION: 095113 DRAWING #: A2.05

QUESTION

Date Required:

Rooms 510, 511, 512 and 513 are listed as both ceiling types C1 and C2. Can you please verify these rooms are to receive the regular and moisture resistant ceiling tiles and if so, can you please delineate between the two ceiling types on drawings A8.05.

SUGGESTION:

RESPONSES

DATE	REPLY TYPE	FROM (FIRM)	FROM (CONTACT)	DATE REPLY REQUIRED
4/28/15		Mitchell/Giurgola Architects	J. Balecha	

ADDITIONAL INFORMATION:

Rooms 510, 511, 512 and 513 should be ceiling type C1. Drawing A2.05 will be revised to delete the C2 reference in those spaces in upcoming addendum.

Request for Information



RFI Number: 31
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/27/2015

TO: John Doherty
Mitchell/Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, NY 10036

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: AHU 1 - Freeze Pump

SPEC SECTION: DRAWING #: H5.01 /D14

QUESTION

Date Required:

H5.01 Detail #14 indicates a 3" I/L Freeze Pump for AHUs 1 thru 5. Drawing H0.01 Pump Schedule HWP's 9,10,11 & 12 indicate freeze pumps for AHU 2 thru 5.

Does AHU-1 need a freeze pump?

SUGGESTION:

RESPONSES

DATE	REPLY TYPE	FROM (FIRM)	FROM (CONTACT)	DATE REPLY REQUIRED
------	------------	-------------	----------------	---------------------

ADDITIONAL INFORMATION:

BR+A RESP:

AHU-1 is a return air AHU, a freeze protection pump is not required

C.DEMERCURIO
4/28/15

Request for Information



RFI Number: 37
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/27/2015

TO: John Doherty
Mitchell/Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, NY 10036

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Window Treatments (Prebid)

SPEC SECTION: 122413

DRAWING #:

QUESTION

Date Required:

1. Will Draper Springs Window Fashion or Lutron be acceptable manufactureres?
2. What custom color are the headboxes and fascia's? The finish section 9:60 does not show any colors.

SUGGESTION:

RESPONSES

DATE	REPLY TYPE	FROM (FIRM)	FROM (CONTACT)	DATE REPLY REQUIRED
4/29/15		Mitchell/Giurgola Architects	J. Balecha	

ADDITIONAL INFORMATION:

1. Specification section 122413 part 2.1 lists Lutron as an acceptable manufacturer. We do not have experience with "Draper Springs Window Fashion" and from visiting the website the product appears to be blinds and not solar shades made of cloth as specified.
<http://www.budgetblinds.com/brands/springs-window-fashions/>
2. Refer to detail 12/A8.09 for the finish of the shade enclosures in the 1st floor Gathering/Display Space. The shade enclosures for all other locations shall be custom powder coating finish to match paint color P2 "White on White (White) 0148 Glidden Professional PPG.

Request for Information



RFI Number: 38
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/27/2015

TO: John Doherty
Mitchell/Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, NY 10036

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Horizontal Cable and Jacket Type (Prebid) SPEC SECTION: 270510-2.2 DRAWING #:

QUESTION

Date Required:

Please confirm cable type: CAT6 or CAT6E and Jacket Type: CMR or CMP

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/28/2015		BR+A Consulting Engineers	Jeffrey Cyr	4/28/2015

ADDITIONAL INFORMATION:

CABLE TYPE Category 6E
CABLE JACKET CMP Color is White

Refer to DIVISION 27 05 10 Page 18 section 2.2.B.1.b.1

See Hubbell Category 6E Part number for reference

Request for Information



RFI Number: 39
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/27/2015

TO: John Doherty
Mitchell/Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, NY 10036

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Patch Cables (Prebid)

SPEC SECTION:

DRAWING #:

QUESTION

Date Required:

Is bid package 27.0 responsible for patch cords / cables? If yes, please provide quantity and lengths.

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/28/2015		BR+A Consulting Engineers	Jeffrey D. Cyr	4/28/2015

ADDITIONAL INFORMATION:

All fiber and copper patch cords shall be furnished and installed by UCONN UITs at this time

Request for Information



RFI Number: 4
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/20/2015

TO: John Doherty
Mitchell/Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, NY 10036

FROM:

CC:

SUBJECT: Project Schedule

SPEC SECTION: 116100

DRAWING #:

QUESTION

Date Required:

Please provide a project schedule as listed in the front end documents TOC. Though listed, there is no schedule in the front end documents.

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/20/2015	Reply	Fusco Corporation	Darren Antolini	

The project schedule went out on Friday, April 10, 2015 as part of Addendum No. 2.

Request for Information



RFI Number: 40
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/27/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Telecommunication Grounding System (Pr SPEC SECTION: DRAWING #:

QUESTION

Date Required:

Is BP #26.0 responsible for the telecommunications grounding system and ground bars?

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/27/2015	Reply	Fusco Corporation	Darren Antolini	

Grounding and bounding associated with specification 270510 shall be by BP #27.0.

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 41
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/27/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Clock System

SPEC SECTION: 000940

DRAWING #:

QUESTION

Date Required:

Scope of work page 5, paragraph #3 mentions "Complete Clock System". There are no clocks. Please provide details - clock specifications & locations and which bid package is responsible fo.

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/27/2015	Reply	Fusco Corporation	Darren Antolini	

Exclude all reference to clocks.

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 42
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/27/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Combination Boxes & Pokethrus for
Power/Teledata/AV (Prebid)

SPEC SECTION: DRAWING #:

QUESTION

Date Required:

Is BP #26.0 responsible to supply and install all combination boxes and poke-thrus (Power / Teledata / AV)?

Which bid package extends the conduits to accessible areas?

SUGGESTION:

RESPONSES

DATE	REPLY TYPE	FROM (FIRM)	FROM (CONTACT)	DATE REPLY REQUIRED
4/27/2015	Reply	Fusco Corporation	Darren Antolini	

Combination boxes shall be provided by BP #26.0.

Telecom conduits associated with telecom shall be provided by BP #27.0.

Reference clarifications section in Bid Packages 26.0 & 27.0

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 43
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/27/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: AV Conduits, Raceways, Sleeves, Backbox
(Prebid)

SPEC SECTION: DRAWING #:

QUESTION

Date Required:

Is BP 26.0 responsible for AV conduit, raceways, sleeves and back boxes?

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/27/2015	Reply	Fusco Corporation	Darren Antolini	

No, BP #27.0 is responsible for specification 115210.

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 45
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/29/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Structural Steel & Misc Metals Bid Package (Prebid) SPEC SECTION: DRAWING #:

QUESTION	Date Required:
----------	----------------

Please confirm that Structural Steel (BP#5.0) and Misc. Metals (BP#5.1) are to be bid together as one package.

SUGGESTION:

RESPONSES

DATE	REPLY TYPE	FROM (FIRM)	FROM (CONTACT)	DATE REPLY REQUIRED
4/29/2015	Reply	Fusco Corporation	Darren Antolini	

Yes, Structural Steel and Misc. Metals are to be bid together as one package, making every effort to subcontract to a DAS MBE Certified Misc. Metals subcontractor.

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 46
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/29/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Insurance Req. Umbrella / Excess Liability
(Prebid)

SPEC SECTION: DRAWING #:

QUESTION

Date Required:

Exhibit G Insurance Requirements 4b calls for \$10 million in umbrella/excess liability. Does this only apply to us or our subcontractors as well? If it affects our erectors, only a couple erectors are covered at this value.

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/29/2015	Reply	Fusco Corporation	Darren Antolini	

Excess liability applies to the first tier subcontractor and their subcontractors as stated in Exhibit G Insurance Requirements, paragraph 1i.

(i) It is the responsibility of the Subcontractor to require that all of its subcontractors procure and maintain the same insurance required of the Subcontractor as specified herein. Subcontractor shall furnish copies of certificates of insurance and supporting additional insured endorsement evidencing coverage for each sub-contractor.

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 47
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/29/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Bid Bond Oblige (Prebid)

SPEC SECTION: DRAWING #:

QUESTION

Date Required:

Please confirm that Fusco is the Obligee for the bid bond.

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/29/2015	Reply	Fusco Corporation	Darren Antolini	

The Fusco Corporation and The University of Connecticut Capital Project & Contract Administration are both to be named as the obligee on the bid bond.

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 66
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/30/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Linda Lemire
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Bid Package #5 Scope of Work Clarification (Prebid) SPEC SECTION: DRAWING #:

QUESTION	Date Required:
----------	----------------

Bid Package #5 Scope of Clarification

Items 53 and 55 say to provide precast terrazzo tread with grooves for traction and terrazzo landings. This item is not typically part of our scope of work. Please confirm that this item should be furnished and installed by the concrete or finish trade contractor and is not part of our bid package.

SUGGESTION:

RESPONSES

DATE	REPLY TYPE	FROM (FIRM)	FROM (CONTACT)	DATE REPLY REQUIRED
4/30/2015	Reply	Fusco Corporation	Darren Antolini	

Delete reference to clarification Items #53 & 55.

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 67
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/30/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Linda Lemire
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Confirm BP 5.0 & 5.1 as One Package (Pre SPEC SECTION: DRAWING #:

QUESTION

Date Required:

The invitation to bid lists structural steel and misc metals as 2 bid packages 5.0 & 5.1, but a note next to misc. metals in parenthesis says "with structural steel"; therefore we are assuming they will be bid together as one package. Please confirm.

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/30/2015	Reply	Fusco Corporation	Darren Antolini	

The structural steel and misc metals have been combined into one bid package BP5.0.

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 68
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/30/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Linda Lemire
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Primers for Ferrous Metals (Prebid)

SPEC SECTION: 090000

DRAWING #:

QUESTION

Date Required:

Spec 090000 2.4 A, B & C lists primers for exterior galvanized ferrous metals, exterior non-galvanized ferrous metals, interior ferroust metals.

- a) Is the structural steel contractor responsible for any of these primers?
- b) If so, it is hard to determine where they are required. Please identify locations on drawings.

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/30/2015	Reply	Fusco Corporation	Darren Antolini	

Prime coat only
Steel primer used by BP 5.0 must be compatable with specified finish coats.

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 69
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/30/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Linda Lemire
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Installation of Acoustical Deck (Prebid)

SPEC SECTION:

DRAWING #:

QUESTION

Date Required:

BP #5 Scope of Work Item 12 last line says to coordinate with roofing contractor for installation of acoustic deck. Acoustic deck does not appear to be shown on the structural drawing. Please identify location or confirm it is not required.

SUGGESTION:

RESPONSES

DATE	REPLY TYPE	FROM (FIRM)	FROM (CONTACT)	DATE REPLY REQUIRED
4/30/2015	Reply	Fusco Corporation	Darren Antolini	

Delete reference to acoustic deck.

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 70
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/30/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Linda Lemire
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Furnishing of Rubber Base (Prebid)

SPEC SECTION: 012300

DRAWING #: A7.11

QUESTION

Date Required:

Please clarify if the rubber base for alternate is to be furnished under BP6.1 or will it be by BP6.0?

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/30/2015	Reply	Fusco Corporation	Darren Antolini	

Rubber base is by BP 9.3

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 71
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/30/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Linda Lemire
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Security Cabling (Prebid)

SPEC SECTION: DRAWING #:

QUESTION

Date Required:

Is BP 27.1 responsible to provide and install their own conduits, raceways, sleeves and backboxes?

Is BP 27.1 responsible for all cabling, connecting hardware and plates, including the CAT6 cabling to cameras, patch panels etc for their work.

Is BP 26.0 responsible to supply and install conduits for the electrified door hardware, door contact, readers, etc?

SUGGESTION:

RESPONSES

DATE	REPLY TYPE	FROM (FIRM)	FROM (CONTACT)	DATE REPLY REQUIRED
4/30/2015	Reply	Fusco Corporation	Darren Antolini	

All conduit, boxes, raceway, sleeves, cables, final connections including electrified hardware, contacts and readers is by BP 27.1.

It is the intent that BP 27.1 furnish and install a complete and operating security system.

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 72
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/30/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Linda Lemire
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Metal Enclosures at Fume Hoods (Prebid) SPEC SECTION: DRAWING #: A8.11, A9.

QUESTION

Date Required:

BP 09.5 scope of work clarifications 24 and 27 call for teh perforated and non-perforated metal enclosures at the fume hoods to be installed by BP 09.5. Since these enclosures would be supplied by the same company that supplies the fume hood, can this be moved to BP 22.0?

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/30/2015	Reply	Fusco Corporation	Darren Antolini	

Metal panels for fume hoods are by BP6.1 See specification section 116100 / 2.3 / 0.

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 73
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/30/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Linda Lemire
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Aluminum Slotted Grid System (Prebid)

SPEC SECTION: 055117

DRAWING #:

QUESTION

Date Required:

The aluminum slotted grid system found in rooms 106 and 107 is specified in both Bid Package 05.0 and 09.5. Please clarify which package is to carry this work.

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/30/2015	Reply	Fusco Corporation	Darren Antolini	

Aluminum Grid System in rooms 106 & 107 shall be by BP 9.5.

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 74
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/30/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Linda Lemire
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: "Edge 'L' Bead Type" (Prebid)

SPEC SECTION: DRAWING #: A8.09

QUESTION

Date Required:

BP 09.5 scope of work clarification items 13 and 19 call for the "edge 'L' Bead, Typ" to be installed by PB09.5. Can this be moved to BP 06.0 since it is a drywall bead?

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/30/2015	Reply	Fusco Corporation	Darren Antolini	

"Edge L Bead" in details 1/8.09 & 12/8.09 shall be by PB 6.0.

Any metal facia or trims associated with non-drywall ceiling systems are by BP-9.5

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 77
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/30/2015

TO: John Doherty
Mitchell/Giurgola Architects, LLP
630 Ninth Avenue, Suite 711
New York, NY 10036

FROM: Linda Lemire
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Misc Metal Questions (Prebid)

SPEC SECTION:

DRAWING #:

QUESTION

Date Required:

- 1) Who is responsible for the fence enclosure for exterior bottles and provide details.
- 2) Scope item 62. There is no detail 12/A6.30. Please advise.
- 62) Referring to Detail 12 on Drawing A6.30 furnish and install typical and as noted "Cont. St. Stl. Angle."

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/30/2015	Reply	Mitchell/Giurgola Architects, LLP	John Doherty	

- 1) BP 31.0
- 2) Details 8, 9, 10 & 11 on A6.30

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 83
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/30/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Linda Lemire
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Beam Penetrations (Prebid)

SPEC SECTION:

DRAWING #:

QUESTION

Date Required:

There are numerous beam penetrations shown on the HVAC plan drawings. Are these penetrations the responsibility of the HVAC contractor or are they by others? Please clarify.

SUGGESTION:

RESPONSES

<u>DATE</u>	<u>REPLY TYPE</u>	<u>FROM (FIRM)</u>	<u>FROM (CONTACT)</u>	<u>DATE REPLY REQUIRED</u>
4/30/2015	Reply	Fusco Corporation	Darren Antolini	

The beam penetrations will be by the steel contractor BP-5.0.

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 86
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/30/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Linda Lemire
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Disconnects / Matrix on AV000 (Prebid)

SPEC SECTION:

DRAWING #:

QUESTION

Date Required:

- 2) Verify that all disconnects are furnished by contractor supplying motorized equipment per BP#26 Item #7.
- 3) Clarify the following: per drawing AV000, the matrix shows some items being F&I by electrical cont. bid package #27 states that all A/V, Clocks / PA is by Division #27. Does the matrix on AV000 apply to EC?

SUGGESTION:

RESPONSES

DATE	REPLY TYPE	FROM (FIRM)	FROM (CONTACT)	DATE REPLY REQUIRED
4/30/2015	Reply	Fusco Corporation	Darren Antolini	

2. Correct unless otherwise noted.

3. Because Telecom / AV are a separate bid package, the scope of work shall take precedence over matrix shown on AV000.

ADDITIONAL INFORMATION:

Request for Information



RFI Number: 9
RFI Type: PREBID
Project Number: 2720-
Project Name: UConn Engineering & Science Building
Page: 1 of 1
Date: 4/27/2015

TO: Darren Antolini
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511

FROM: Lemire Linda
Fusco Corporation
555 Long Wharf Drive, 14th Floor
New Haven, CT 06511,

CC:

SUBJECT: Clarification of Spec Section

SPEC SECTION: DRAWING #:

QUESTION

Date Required: 04/27/2015

Please clarify what portions of spec section 062000 are considered "Applicable" to BP 6.1 as compared to BP 6.0 General Trades.

SUGGESTION:

RESPONSES

DATE	REPLY TYPE	FROM (FIRM)	FROM (CONTACT)	DATE REPLY REQUIRED
4/27/2015	Reply	Fusco Corporation	Darren Antolini	

Applicable specification noted in Scope of Work.

ADDITIONAL INFORMATION:

No.	Date Submitted	Description	Reply Date	Days Open	Category*	Status	Resp
4	4/15/2015	Project Schedule	4/15/2015	0	Prebid	Closed	MGA
5	4/15/2015	Curtainwall Substitution Request	4/28/2015	13	Prebid	Closed	MGA
9	4/20/2015	Spec Section 062000	4/27/2015	7	Prebid	Closed	Fusco
10	4/20/2015	Wood Flooring Spec	4/21/2015	1	Prebid	Closed	MGA
11	4/20/2015	Perforated Metal Panels	4/21/2015	1	Prebid	Closed	MGA
12	4/21/2015	Mitigation of Soils	4/28/2015	7	Prebid	Closed	MGA
14	4/21/2015	Air Monitoring	4/28/2015	7	Prebid	Closed	MGA
15	4/21/2015	Groundwater Treatment	4/28/2015	7	Prebid	Closed	MGA
17	4/21/2015	Smart Building Display	4/22/2015	1	Prebid	Closed	MGA
18	4/21/2015	Spec for Upholstery	4/22/2015	1	Prebid	Closed	MGA
19	4/21/2015	Partial Existing Warehouse Wall	4/27/2015	6	Prebid	Closed	Fusco
20	4/21/2015	Test Pits	4/27/2015	6	Prebid	Closed	Fusco
21	4/21/2015	Gas Tap, Meter and Service	4/27/2015	6	Prebid	Closed	Fusco
22	4/21/2015	Concrete Ramp at Chemistry Building	4/24/2015	3	Prebid	Closed	MGA
23	4/21/2015	Clarification of Sitework Bid Package	4/27/2015	6	Prebid	Closed	Fusco
24	4/22/2015	Toilet Partition Supports	4/24/2015	2	Prebid	Closed	MGA
27	4/24/2015	Precast Terrazzo Treads	4/27/2015	3	Prebid	Closed	Fusco
28	4/23/2015	Landscaping Scope Clarifications	4/27/2015	4	Prebid	Closed	Fusco
29	4/27/2015	Ceiling Types in Rooms 510, 511, 512 & 513	4/28/2015	1	Prebid	Closed	MGA
31	4/27/2015	AHU-1 Freeze Pump	4/28/2015	1	Prebid	Closed	MGA
37	4/27/2015	Window Treatments	4/29/2015		Prebid	Closed	MGA
38	4/27/2015	Horizontal Cable and Jacket Type	4/28/2015	1	Prebid	Closed	MGA
39	4/27/2015	Patch Cables	4/28/2015		Prebid	Closed	MGA
40	4/27/2015	Telecommunication Grounding System	4/27/2015	0	Prebid	Closed	Fusco
41	4/27/2015	Clock System	4/27/2015	0	Prebid	Closed	Fusco
42	4/27/2015	Combination Boxes & Pokethrus for Power / Teledata	4/27/2015	0	Prebid	Closed	Fusco
43	4/27/2015	AV Conduits, Raceways, Sleeves, Backboxes	4/27/2015	0	Prebid	Closed	Fusco
45	4/28/2015	Structural Steel & Misc Metals Bid Package	4/28/2015	0	Prebid	Closed	Fusco
46	4/28/2015	Insurance Requirements - Umbrella / Excess Liability	4/28/2015	0	Prebid	Closed	Fusco
47	4/28/2015	Bid Bond Oblige	4/28/2015	0	Prebid	Closed	Fusco
66	4/30/2015	Bid Package #5 Scope of Work Clarification	4/30/2015	0	Prebid	Closed	Fusco
67	4/30/2015	Confirm BP 5.0 & 5.1 as one package	4/30/2015	0	Prebid	Closed	Fusco
68	4/30/2015	Primers for Ferrous Metals	4/30/2015	0	Prebid	Closed	Fusco
69	4/30/2015	Installation of Acoustical Deck	4/30/2015	0	Prebid	Closed	Fusco
70	4/30/2015	Furnishing of Rubber Base	4/30/2015	0	Prebid	Closed	Fusco
71	4/30/2015	Security Cabling	4/30/2015	0	Prebid	Closed	Fusco
72	4/30/2015	Metal Enclosures at Fume Hoods	4/30/2015	0	Prebid	Closed	Fusco
73	4/30/2015	Aluminum Slotted Grid System	4/30/2015	0	Prebid	Closed	Fusco
74	4/30/2015	Edge 'L' Bead Type	4/30/2015	0	Prebid	Closed	Fusco
77	4/30/2015	Misc Metal Questions	4/30/2015	0	Prebid	Closed	MGA
83	4/30/2015	Beam Penetrations	4/30/2015	0	Prebid	Closed	Fusco
86	4/30/2015	Disconnects / Matrix on AV000	4/30/2015	0	Prebid	Closed	Fusco