



**State of Rhode Island
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ADDENDUM # 4

12/23/2015

Solicitation #7550080

***Title: Community College of Rhode Island Knight Campus Chemistry &
Biology Departments Renovations.***

Submission Deadline: January 19, 2016 @ 10:00 am

Per the issuance of ADDENDUM #4 the following are noted:

See Attached Addendum #4

No further questions will be entertained.

Interested Parties should monitor this website on a regular basis, for any additional information that may be posted.

**Gary P. Mosca
Senior Buyer**

SECTION 00 9111
ADDENDUM 4

PART 1 - GENERAL

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated **November 6th, 2015**. Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may disqualify the Bidder.

This Addendum consists of **6** pages and the following documents:

- A. Biology – Specification Section 12 366 Epoxy Resin Countertops.

1.01 CHANGES TO PROJECT MANUAL

- A. Biology – Add specification section 12 366 Epoxy Resin Countertops.

1.02 CHANGES TO DRAWINGS

- A. Biology, Sheet A1.2, Laboratory Room Casework Schedule, add :
 - 'W' / BASE CABINET/ 42"WX34"HX30"D NOMINAL / 42"WX34"HX24.5"D ACTUAL / LSI# 1101
 - 'X' / WALL CABINET/ 42"WX30"HX14"D NOMINAL / 42"WX30"HX14.25"D ACTUAL / LSI# 3057
- B. Chemistry: Sheet ED1.1, Sheet Notes: Add #2: Existing electrical baseboard heat to be disconnected for removal, and reconnected when reinstalled on new surface.
- C. Chemistry: Sheet MD1.0, Mechanical Demolition Key Notes, Delete #9. Replace with #9: Existing electric baseboard to be removed and reinstalled. Coordinate reinstallation with hazardous material abatement.

1.03 QUESTIONS AND ANSWERS

A. Question 1: General Specifications: Section 01 1000 Summary of Work notes in Para. B.26 that GC to provide all temporary heating and cooling needs for the construction space. However, Section 01 5000 Temporary Facilities and Controls notes in Para. 1.04.A, the existing building will be heated and cooled by the Owner during construction when temperatures require. Please advise.

Answer: The Owner will continue to provide heating and cooling to the existing building. The job site, after existing heating and cooling systems have been demolished, will be climate controlled by the contractors equipment.

B. Question 2: General Specifications: Section 01 1000 Summary of Work notes in Para. B.30 that GC to provide metal caps below on all filled penetrations. Is this the direction for 2nd Floor ceilings below the construction space where plumbing has been removed?

Answer: Yes, concrete slabs to be filled at penetration locations. Metal caps to be provided at 2nd floor ceilings.

C. Question 3: Biology: On Sheet A1.3 none of the sinks are tagged as new. But are shown on the asbestos plans to be abated.

Answer: The Laboratory room equipment schedule on sheet A1.2 list the new sinks as E16 epoxy resin sink.

D. Question 4: Biology: On Sheet A1.3 detailed 3 | A1.3 there are tags 'X' and 'W' which are not scheduled as part of the "Laboratory Room Casework Schedule." Please advise on what to use in place of those tags or provide information for the tags.

Answer: Add to Laboratory Room Casework Schedule on sheet A1.2:

'W' / BASE CABINET/ 42"WX34"HX30"D NOMINAL / 42"WX34"HX24.5"D ACTUAL / LSI# 1101

'X' / WALL CABINET/ 42"WX30"HX14"D NOMINAL / 42"WX30"HX14.25"D ACTUAL / LSI# 3057

E. Question 5: Biology: Specification section 11612 2.03 D 2 calls for combination sash fume hoods, but elevations show vertical sash. Please clarify which sash type is required. If no further information is available, we will carry the more costly combination sash per spec.

Answer: Follow specifications.

F. Question 6: Biology: Specification section 11612 2.03 A 1 calls for fume hood walls to consist of a sheet steel outer shell with urethane powder finish and a corrosion resistant inner liner (industry typical standard fume hood construction) but goes to specify exterior sidewalls and upper front panel to be plain sliced maple. Are these additional wood panels to be overlaid on the standard painted steel hood? Please clarify. The extra expense of this modification does not seem justified given that the casework is all plastic laminate, not wood. Please confirm this requirement.

Answer: Delete maple wood panel.

G. Question 7: Biology: Emergency showers in (5) labs appear to be in the lab equipment scope where these units are tagged as E11 on the architectural drawings and lab room equipment schedule but are also listed as by the plumber on P0.1. Please clarify.

Answer: We prefer to use the LSI showers specified as E1.1, but the Bradley showers specified on P0.1 are an acceptable substitute.

H. Question 8: Chemistry: On 2/A6.2, the instrument carts are shown with a surface mounted horizontal raceway on the back of the cart for electrical internet; a similar device is shown at the back of the fixed casework portion of the bench. However, the

WaterSaver part numbers provided are for vertical electrical pedestals that would mount on the epoxy resin tops. Most significantly, these items are not shown on the electrical drawings. Please clarify. If no further information is available, we will exclude these devices and carry only the receptacles at the fixed bench shown with Keynote 1 on 1/E1.1.

Answer: Yes, please exclude these devices and carry the receptacles at the fixed benches only.

I. Question 9: Biology: There are (6) snorkels tagged E13 in Room 3034 and described in spec section 11614. That spec section does not include necessary part #s needed to quote the product accurately, and the mechanical drawings do not appear to show the available CFM at point of use, which is also helpful in specifying the snorkels. The specification does refer to a Hamilton Scientific cut sheet but this document was not found in the Project Manual. Please clarify.

Answer: Provide Alsident System #50-8787-3. Include a 4" snorkel cone and all mounting hardware including unistrut for a complete installation to the ceiling grid above. Installation is by the fume hood supplier—final duct connection and hardware for connections are by the HVAC contractor.

J. Question 10: Biology & Chemistry: Drawing M1.1 notes existing electric baseboard to be removed and reinstalled, and Chemistry drawing MD1.0 Note 9 states existing electric baseboard to remain. Can we assume all to be removed and replaced so that abatement of the floor tile and mastic can be completed properly?

Answer: Sheet ED1.1, Sheet Notes: Add #2: Existing electrical baseboard heat to be disconnected for removal, and reconnected when reinstalled on new surface. Sheet MD1.0, Mechanical Demolition Key Notes, Delete #9. Replace with #9: Existing electric baseboard to be removed and reinstalled. Coordinate reinstallation with hazardous material abatement.

K. Question 11: Biology: Drawing A0.4 has a list of equipment for the Prep and Lab rooms. Some of the equipment in the Prep list and all of the equipment in the Labs will not be reused. Am I correct in assuming that this equipment is to be stored somewhere on campus by GC for future use by college, and the reused equipment store in storage containers until project completion after completion of phase/project.

Answer: The only item that is marked not to be returned is L-21 on the EXIST. LAB ROOM EQUIPMENT LIST. The college will have to determine where it would like L-21 to be used in future. The majority of other equipment is mobile and/or desk top and will be reused in the new labs and/or prep rooms. Only the larger units such as P-8, P-10, etc. were shown on the new plans.

L. Question 12: Biology: Drawing A0.4 notes contractor is responsible for verifying working condition of equipment prior to removal. Will someone from the college be available when this takes place to actually make sure equipment is in working condition? We (GC) would not be able to make determination. Also, if something is not working, will the college be responsible for repairs at that point?

Answer: GC to verify that all equipment is working prior to its removal. The Colleges Tech for that area will be present to confirm that the equipment is working. Any non-working equipment will be addressed by the College. If a piece of working equipment is put in storage by the GC and when it is reinstalled, does not work, then it is the responsibility of the GC to fix and or replace at their expense.

M. Question 13: Chemistry: Drawing D1.1 has a list of equipment noting to remove and reinstall the equipment. Where on drawing A1.1 does it show where this equipment would be reinstalled. For the Biology Dept. Prep. Rooms, it shows where each of the reinstalled items would be placed, but not true for the Chemistry Dept. Please advise.

Answer: Locations of reinstalled equipment shown on A6 sheets. All equipment not showing reinstalled locations may be presumed as being installed in their respective rooms. Exact locations to be provided by Owner in field.

N. Question 14: Chemistry: Drawing D1.1 Note J states to move and rebalance Millipore in temp classroom, and then reinstall and balance again. It notes on plan for the equipment vendor to do this work. Would that be the vendor the college purchased this piece of equipment from?

Answer: Any Millipore authorized vendor would be acceptable.

O. Question 15: Biology & Chemistry: On the chemistry dept. drawing E1.1 Sheet note 2 it states that the new ISIMET emergency shut off control panel is furnished and installed by others. On the biology dept. drawing E0.1 it calls for the electrical contractor to provide these panels. Is it the intent to have the emergency shutdown panels for the chemistry dept. provided by others and the panels for the biology dept. to be provided by the EC?

Answer: Biology - The panels are called out on the electrical drawings and provided by electricians. Plumbing drawings show the solenoid valves. Chemistry – The chemistry drawings are accurate. The “by others” refers to the plumbing contractor.

1.04 ADDITIONAL INFORMATION

A. N/A

A.05 SUBSTITUTION REQUESTS

- A. Biology – Specification Section 12 345 – Epoxy Resin Products – Bidder indicated that product was no longer available. Please refer to Specification Section 12 366 – Epoxy Resin Countertops, included as part of this addendum.
- B. Chemistry – Specification Section 115300 – Fume Hoods – Bidder indicated that product was no longer available. This is not accurate. The Labconco product specified is readily available.
- C. Biology – Specification Section 11 612 – Fume Hoods – Bidder indicated that product was no longer available. Bidder indicated that product was no longer available. Manufacturer’s name has changed from “Hamilton Scientific” to “Hamilton Laboratory Solutions.” Information is available through Sydney Scientific, LLC (401)474-7780.
- D. Chemistry – Specification Section 11 5300 – Laboratory Equipment – Proposed Equal – Kewaunee Scientific painted steel casework. – Kewaunee not accepted as an equal. The specified product has the following features not offered with Kewaunee:
 - a. Base Cabinets:
 - (1) Doors must be reversible on all base cabinets, so they can be switched from left hand to right hand
 - (2) Two tool less free removable backs for all cabinets wider than 24”
 - (3) Cabinet components can be changed in the field to change the cabinet configuration without uninstalling the cabinet
 - (4) Self closing and full extension slides can be used with the cabinet drawers without buying new drawers
 - (5) Locks can be added in the field at any time
 - (6) Custom color matching at no charge
 - (7) Interchangeable removable backs for any cabinets
 - (8) We accept penalty clauses for delivery dates
 - b. Modular instrument benches:
 - (1) Locking casters and modular bench units support up to 1100 lbs.
 - (2) Modular suspended cabinets match color and function and style of fixed base units
 - (3) Cantilever construction eliminates front leg units
 - (4) Cantilever horizontal feet can be adjusted front and back to support uneven weight loads for instrumentation
 - (5) Horizontal support feet have heavy-duty dual channel construction with 12 gauge exterior and 14 gauge interior construction for maximum stability
 - (6) Die cast single unit seamless base support construction for maximum cleanability
 - (7) Powder coated epoxy paint electrostatic dispersing paint.
 - (8) Unit width can be field modified for future adaptability

- E. Chemistry – Specification Section 09 5100 – Wood Baffle Ceilings – Proposed Equal – Norton Industries Wood Grille Ceilings – This is an approved substitution, pending delivery times are comparable.
- F. Biology - Specification Section 12 300 – Plastic Laminate Casework – Proposed Equal – TMI Laminated Casework – Product is not acceptable as an equal due to materials used in base and back panel and structural stability including provision of solid top under counter.

END OF SECTION

PART 1 – GENERAL**1.0 SUMMARY**

- A. Modified epoxy terrazzo with glass matrix countertops, fittings monuments, sinks,, and accessories as manufactured by GLASS RECEYCLED LLC.
- B. Section Includes
 - 1. Work surface
 - 2. Sinks and Accessories

1.01 ALTERNATE PROPOSALS

Alternate manufacturers shall comply with the minimum design requirements and the minimum performance requirements. A notarized letter stating full compliance must be included in the alternate proposals signed by an officer of the manufacturer to ensure compliance.

Request for substitutions shall follow procedures set forth in Section 01000-General Requirements

1.02 MINIMUM DESIGN REQUIREMENTS**Countertops and Sinks**

- 1) GlassSLAB

Sinks

- 1) Sink Fabrication:Molded in one piece with smooth surfaces, coved corners and bottom sloped to outlet, ½" (13 mm) minimum thickness as manufactured by GLASS RECEYCLED LLC..
 - a) Provide with epoxy resin outlets.
 - b) Provide integral sinks in epoxy countertops, bonded to countertops with invisible joint line.

Pegboards

- 1) Provide pegboards in the size and quantity indicated on the drawings.
- 2) Board:Epoxy resin board finished on face and edges.Where exposed, finish back with slightly different surface texture and bevel bottom edges.
- 3) Pegs: polypropylene pegs in 5", 6½" and 8" lengths, with glassware protector base.Base of pegs shall be two-prong style for mechanical attachment.Do not bond pegs to board.
- 4) Drip pan:Include with pegboard, stainless steel drip pan with spout for attachment to tubing.

1.03 SUBMITTALS

- A. Shop Drawings: Provide 1/2" = 1'-0" scale elevations of all components, cross sections, rough-in and anchor placements, tolerances and clearances. Provide 1/4" = 1'-0" rough-in plan drawings for coordination with trades. Rough-in shall show free area.
- B. Provide color selection charts from manufacturer's standard colors.
- C. Instruction: Submit for review and approval written instructions in booklet form providing additional details on safe and proper operation and maintenance.

1.04 QUALITY ASSURANCE

- A. Fabricator Qualifications: Company specializing in fabricating work specified in this Section with minimum five years' experience in type work required for Project.
- B. Materials Supplier:
 - 1. Materials furnished shall meet RGP Specifications.

1.05 REFERENCE STANDARDS

- A. All casework, work surface and service fixture construction and performance characteristics shall be in full compliance with SEFA (Scientific Equipment and Furniture Association) standards. At the owner's request, independent, third party testing must be submitted validating compliance and adheres to the architectural specifications.
 - 1. SEFA 2.3 – Installation of Scientific Laboratory Furniture and Equipment.
 - 2. SEFA 3 – Work Surfaces
 - 3. SEFA 7 – Laboratory and Hospital Fixtures
 - 4. SEFA 8 – Laboratory Furniture

1.06 DELIVERY, STORAGE AND HANDLING

- A. Schedule delivery of laboratory furniture system so that spaces are sufficiently complete that material can be installed immediately following delivery.
- B. Protect finished surfaces from soiling or damage during handling and installation.

1.07 PROJECT CONDITIONS

- A. Do not deliver or install equipment until the following conditions have been met:
 - 1. Windows and doors are installed and the building is secure and weather tight.
 - 2. Ceiling, overhead ductwork and lighting are installed.
 - 3. All painting is completed and floor tile is installed.

1.08 WARRANTY

- A. Warrant product to be free from defects in materials and fabrication for a period of 1 year from date of installation. GLASS RECYCLED LLC recycled glass and porcelain products are by design a custom, hand crafted product. Certain imperfections and surface characteristics are inherent and part of the product's composition.

PART 2 – PRODUCTS

2.01 MANUFACTURER

- A. Subject to compliance with requirements indicated, provide products from fabricators listed below:
 - 1. GLASS RECYCLED LLC, 2939 Irving Blvd Suite 305 Dallas TX 75247 888.523.7894

2.02 MATERIAL

- A. GLASS RECYCLED LLC Epoxy Terrazzo with Glass Matrix: Provide sound, hard, durable, epoxy terrazzo of uniform strength, color, and texture.
 - 1. Epoxy Resin Performance Criteria without GlassSCAPE aggregate added:

PROPERTY	TEST METHOD	REQUIREMENT
Hardness	ASTM D-2240 using Shore D Durometer	60-85
Tensile Strength	ASTM D-638 run @ 0.2" minimum	3,000 psi minimum
Compressive Strength	ASTM D-695 Specimen B Cylinder	10,000 psi minimum
Chemical Resistance	ASTM D-1308/ 7 days at room temperature by immersion method have no deleterious effects.	No effect

- a. Epoxy resin color: As selected by [Architect] from Manufacturer's full available range.
- b. Aggregate:
 1. 100% Post-Consumer Recycled Glass and/or Porcelain
 2. GlassSCAPE Aggregate: As supplied by GLASS RECYCLED LLC.
 3. Sizes to conform to NTMA Gradation standards.
 4. Glass aggregate color: As selected by Architect from Manufacturer's full available range.
- c. GlassSLAB Epoxy Terrazzo with Glass Matrix Countertops: Provide sound, hard, durable, epoxy terrazzo of uniform strength, color, and texture.
 1. Epoxy Resin blended with GlassSCAPE glass finished to 1" thickness, per Manufacturer's recommendations:
 2. Performance criteria with GLASS RECYCLED LLC aggregate:

PROPERTY	TEST METHOD	REQUIREMENT
Flammability	ASTM D-635	Self-extinguishing, extent of burning 0.25 maximum
Thermal Coefficient of Linear Exp	ASTM D-696	25 x 10 ⁻⁶ " per 140 degrees
Bond Strength	Surface Soundness	100% Concrete 300 PSI tensile strength

3. Acceptable Product: GLASS RECYCLED LLC; GlassSLAB.
4. Panel Characteristics:
 - a. Dimensions: Custom Sizes Available
 - b. Thickness: 1" inch
 - c. Profile: as indicated on Drawings.
 - d. Panels: Shall conform to shop drawings with a not to exceed 1/8" tolerance in dimension.
 - e. Surface: Polished with overall uniformity in color matrix and aggregate.
- d. Grouts: Non-staining, type as recommended by manufacturer:
 1. Acceptable Manufacturer: Mapei or approved equal.

2.03 EPOXY TERRAZZO COUNTERTOP FABRICATION

- A. Assemble work at shop and deliver to Project ready for installation.
 1. Design construction and installation details to allow for expansion and contraction of materials. Properly frame material with tight, hairline joints held rigidly in place.
 2. Comply with grout manufacturer's recommendations for shelf life, pot life, working life, mixing, spreading, assemble time, time under pressure and ambient temperature.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine conditions and proceed with work in accordance with Section 01400.
- B. Confirm that supporting construction is complete, and is level, square, true, rigid, and secure.

3.2 INSTALLATION

- A. Set GlassSLAB as shown on approved shop drawings. Butt joints uniformly at 1/64".
- B. Install at locations indicated level, square, true, rigid and secure, and in strict accordance with fabricator's printed instructions.
- C. Dimensions shall not vary more than 1/8" in length, height, or width.
- D. Fill joints with color-pigmented stain proof grout.

3.3 CLEANING

- A. General: Comply with Section 01740.
 - 1. Keep installed work clean as work progresses.
 - 2. Leave clean and free from blemishes.
 - 3. Clean by moderate use of neutral cleaner acceptable by countertop fabricator.
 - 4. Clean and repair surfaces soiled or otherwise damaged in connection with work of this Section. Pay cost of replacing materials that cannot be satisfactorily cleaned or which have been damaged by improper cleaning materials and techniques.
 - 5. No Chemical Seal. Waxing is optional

END OF SECTION