



State of Utah

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Division of Facilities Construction and Management

DAVID G. BUXTON
Director

ADDENDUM #2

Date: July 20, 2009

To: Contractors

From: Matt Boyer, Project Manager, DFCM

Reference: Biotechnology Center Re-roof
Utah State University, Logan, Utah
Project No. 09078770

Subject: **Addendum No. 2**

Pages	Addendum	1 page
	Revised Schedule	1 page
	<u>Architects Addendum</u>	<u>5 pages</u>
	Total	7 pages

Note: *This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.*

While we contend that SB220 should only be potentially applicable to a contract issued after the effective date of said bill, this is to clarify that for purposes of this contract, regardless of the execution or effective dates of this contract, the status of Utah Law and remedies available to the State of Utah and DFCM, as it relates to any matter referred to or affected by said SB220, shall be the Utah law in effect at the time of the issuance of this Addendum.

2.1 **SCHEDULE CHANGES** – There are changes to the project schedule.

Bid due date is – Wednesday, July 22, 2009 at 2:30 PM

Subcontractors list is due – Thursday, July 23, 2009 at 2:30 PM

2.2 **GENERAL** – Richard Bott Architects – Specs. and Clarifications.

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STATE OF UTAH - DEPARTMENT OF ADMINISTRATIVE SERVICES

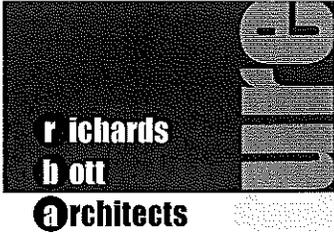
Division of Facilities Construction and Management

DFCM

**REVISED – STAGE II PROJECT SCHEDULE
PER ADDENDUM #2 – dated July 20, 2009**

PROJECT NAME: BIOTECHNOLOGY CENTER RE-ROOF UTAH STATE UNIVERSITY – LOGAN, UTAH				
DFCM PROJECT NO. : 09078770				
Event	Day	Date	Time	Place
Stage II Bidding Documents Available	Wednesday	July 8, 2009	9:00 AM	DFCM 4110 State Office Building SLC, UT and the DFCM web site*
Mandatory Pre-bid Site Meeting	Thursday	July 9, 2009	9:00 AM	South Parking Lot of the Biotechnology Building, USU Main Campus, Logan, UT.
Deadline for Submitting Questions	Monday	July 13, 2009	2:00 PM	Matt Boyer– DFCM E-mail:mboyer@utah.gov Fax (801)-538-3267
Addendum Deadline (exception for bid delays)	Wednesday	July 15, 2009	2:00 PM	DFCM web site*
Prime Contractors Turn in Bid and Bid Bond	Wednesday	July 22, 2009	2:30 PM	DFCM 4110 State Office Building SLC, UT
Subcontractors List Due	Thursday	July 23, 2009	2:30 PM	DFCM 4110 State Office Building SLC, UT Fax 801-538-3677
Substantial Completion Date	Thursday	October 1, 2009	4:00 PM	TBD

* DFCM's web site address is <http://dfcm.utah.gov>



addendum #2

date: 07.16.09

project name: USU - Biotechnology Center Reroof
project designation: 09078770 / 0913

from: Richards / Bott Architects

to: Contractors

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated 05.26.09, as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of 6 pages including Section 07572 & Modified Schedule.

I - Changes to Contract Requirements:

Item I-1. Due to the discovery of the flat roof deck the Project Schedule will be modified, see attached schedule.

II - Changes to drawings:

Item II-1. The entire lower roof has no slope in the existing deck. Therefore, remove the existing tapered system down to existing concrete deck. Provide a new 1/4" tapered system from the drains to the edge of the roof/ridge. Provide a minimum of 2-1/2" rigid insulation. Provide 1/2" tapered crickets.

III - Changes to specifications:

Item III-1. Section 07532 Deck Surfacing - Manufactures approved:
a. DecTec D4800

Item III-2. Add Attached Section 07572 Polyurethane elastomeric coating system, as an approved deck surfacing with Gaco as the approved manufacture.

end of addendum

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Section 07572:
GACOFLEX POLYURETHANE ELASTOMERIC COATING SYSTEM
FOR ROLLER APPLICATION ON PLYWOOD AND CONCRETE DECKS

PART 1 - GENERAL

1.1 SUMMARY

- A. This section describes the requirements for installing a liquid applied waterproof, wear surface for deck surfaces over occupied space. Its intended use is suitable for residential and commercial foot traffic, patio furniture and similar equipment. This specification is not intended for use over on grade concrete.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's standard submittal package including specification, installation instructions, and general information for each waterproofing material.
- B. Applicator Qualifications: Submit current "Qualified Applicator" certificate from the specified waterproofing manufacturer.

1.3 QUALIFICATIONS

- A. Primary waterproofing materials shall be products of a single manufacturer. Secondary materials shall be recommended by the primary manufacturer. Manufacturer shall have a minimum of 10 years experience in the manufacture of materials of this type.
- B. Applicators shall have a minimum of 5 years experience in the application of waterproofing materials of the type specified. Applicator shall possess a current "Qualified Applicator" certificate from the specified waterproofing manufacturer.
- C. Pre-Bid Conference: Ten working days prior to bid opening there is to be a mandatory Pre-Bid Conference. Anyone not attending the Pre-Bid Conference will not be allowed to bid the project. All products considered an equal to the specified product or any changes in the scope of work installation or specifications must be presented at the Pre-Bid Conference. If a change in the specifications is accepted, it will be considered as an alternate and will be presented as a bid amendment issued 5 working days prior to the bid opening. No other changes to specification or bid documents will be accepted.
- D. Pre-Installation Conference: Just prior to commencement of the fluid application waterproofing system, meet at the site with a representative of the coating manufacturer, the waterproofing contractor, the general contractor, the architect and other parties affected by this section. Review methods and procedures, substrate conditions, scheduling and safety.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Store all coating materials in the original unopened containers at 50° to 80°F (10° to 27°C) until ready for use.
- B. Follow the special handling or storage requirements of the manufacturer for cold weather, hot weather, etc.
- C. Safety: Refer to all applicable data, including, but not limited to MSDS sheets, PDS sheets, Product labels, specific instructions for specific personal protection requirements.
- D. Ventilation: Provide adequate ventilation to prevent the accumulation of hazardous fumes during application.
- E. Environmental requirements: Proceed with work of this section only when existing and forecasted weather conditions will permit the application to be performed in accordance with the manufacturer's recommendations.

1.5 WARRANTY

- A. **General Warranty:** The warranties specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.
- B. **Standard Roofing Manufacturer's Warranty:** Submit a written warranty, without monetary limitation, signed by roofing system manufacturer agreeing to promptly repair leaks (or to replace all or portions of the roof) resulting from defects in materials or workmanship for the following warranty period:
 - 1. Warranty Period: 10 years.
 - 2. Extended Warranty: renewable 5 years
- C. **Special Project Warranty:** Submit roofing Installer's warranty, signed by Installer, covering Work of this Section, including membrane roofing, sheet flashing, roof insulation, fasteners, and vapor retarders, if any, for the following warranty period:
 - 1. Warranty Period: 5 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. **Acceptable Manufacturers:**
 - 1. Gaco Western

2.2 MATERIALS

- A. **Primer/Sealer:** Polyurethane Concrete Primer GacoFlex U-5677 and GacoFlex E-5320 two component Epoxy Concrete Sealer.

Alternative Primer/Sealer: Zero VOC Primer/Sealer GacoFlex E-5511 two component 100% solids Epoxy Concrete Primer/Sealer.
- B. **Polyurethane Base Coating:**
 - 1. (2) Coats of GacoFlex UB-64 Series two component coating.
- C. **Polyurethane Top Coating:** GacoFlex U-66 Series two component coating.
- D. **Flashing and Joint Reinforcing Fabric:** Gaco Western 66B and 66S fabric. GacoFlex NF-621 neoprene sheet flashing, and related materials as required for flashing drains, base angles, etc.
- E. **Granule:** GacoShell Granule, a hard (90 Rockwell Scale) non-crushable, non-extractable organic granule with a specific gravity of 1.3 Size 18 on 40 unless otherwise specified.
- F. **Misc. Accessories:** All items incorporated into this system shall be compatible with and approved by the coating manufacturer.

Note: Allow additional material for rough or irregular surfaces add 2% - 3% for material loss during application.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that substrate is ready to receive work; surface is clean, dry and free of substances that could affect bond.

- B. Verify that the plywood shall conform to U.S. Product Standard PS 1-95 and shall carry the grade trademark of the The Engineered Wood Association - APA EXT or APA AC EXT are acceptable. Underlayment grade plywood (APA AC EXT Underlayment) with solid, plugged cross bands under the face veneer is recommended for commercial installations. Refer to Gaco Western's General Instruction GW-2-3 for complete information on the installation and fastening of plywood.

Unacceptable Grades: APA C-D EXT, APA C-C EXT, Exposure 1 markings, oriented strand board (OSB), waferboard and Lauan or Mahogany plywood are **NOT** suitable substrates for liquid-applied coating systems. This is due to poor dimensional stability, weak glue lines which allow buckling or lifting of the top ply, and excessive splintered, leafed and raised surface grain.

- C. Do not begin work until concrete substrate has cured 28 days, minimum.
- D. Verify that the concrete meets the requirements of the coating manufacturer. Refer to Gaco Western's General Instruction GW-2-1 for complete information on the installation and finishing of concrete.
- E. Verify that all other work involved with this area, done under other sections, has been completed and accepted by the architect and general contractor prior to starting the waterproofing application.

3.2 PREPARATION

- A. Clean substrate to remove any and all surface contaminants. Refer to Gaco Western's General Instructions GW-1-1, Surface Preparation.
- B. Mask off all adjoining areas that are not to receive the fluid applied waterproofing.
- C. Provide a suitable workstation to mix the coating materials.

3.3 INSTALLATION

- A. Technical Advice: The installation of this waterproofing membrane shall be accomplished in the presence of, or with the advice of the manufacturer's technical representative. Contact the nearest regional office for assistance.
- B. Concrete Primer/Sealer: Prime entire deck surface and all vertical or sloping surfaces of curbs, cants, parapets, etc., which are to receive coatings with one coat GacoFlex U-5677 Sealer at a rate of one gallon per 300 square feet (3.78 L / 27.9 m²). Allow drying a minimum of 1 hour and no more than 24 hours before applying sealer coat.
- C. Apply one coat of GacoFlex E-5320 by roller at the rate of one gallon per 250 square feet (3.78 L / 23.2 m²). Allow 3 to 24 hours drying time. For maximum solvent resistance, see drying time directed in Gaco Western's General Instructions GW-2-2, Priming. Drying times vary depending on weather conditions such as temperature, humidity and air movement.
- D. *Alternative Concrete Primer/Sealer:* Apply one coat of GacoFlex E-5511 to all surfaces to receive the fluid applied waterproofing, except areas previously caulked, flashed or fabric reinforced. Apply at a rate of one gallon per 150 sq. ft. (3.78 L / 13.9 m²) and allow curing at least 6 hours, but no more than 3 days before applying the basecoat.
- E. Metal Primer: Prime Metal surfaces according to Gaco Western's "Primer Recommendation Chart".
1. New, clean and dry plywood does not need a primer.
- D. Taping: Apply GacoFlex UB-64 or U-66 polyurethane by brush or roller in a five to six inch (12.73 cm to 15.24 cm) wide stripe coat centered over all joints, cracks and changes of plane to be taped. While this coat is still tacky, unroll 66B tape into the coating and apply a coat of urethane over the tape smoothing out wrinkles and fishmouths.
1. Allow curing a minimum of 1½ hour before proceeding to next step. On plywood substrates, taping application will require approximately 1/3 to 1/2 gallon per 100 square feet (1.25 to 1.89 L / 9.3 m².) of urethane coating.

- E. Polyurethane Base Coat: Apply one coat of GacoFlex UB-64 or U-66 Series Polyurethane at a rate of 1.25 gallons per 100 sq. ft (4.73 L / 9.3 m²), (20 mils wet (.51 m)) to all areas to receive fluid applied waterproofing, including areas previously caulked, flashed or fabric reinforced. Allow the base coat to cure completely (8 hours minimum at 70°F (21°C)).
- F. Intermediate Coat and Texture: Apply GacoFlex UB-64 or U-66 polyurethane by roller to secure a minimum coverage of one gallon per 100 square feet (3.78 L / 9.3 m²). (Total wet film thickness - 16 mils (.41 mm)). While coating is still wet, broadcast GacoShell granule at approximately 6 to 8 pounds per 100 sq. ft. (2.7 kg to 3.6 kg / 9.3 m²)(one gallon (3.78 L) dry volume). Coat and sprinkle small areas at a time, taking care not to overlap coating and granule at edges. When texture coat is cured enough to walk on, lightly sweep away loose GacoShell granule. If GacoShell gets wet from rain allow 2 days of drying weather before proceeding with finish coat.
- G. Finish Coat: Apply GacoFlex U-66 polyurethane by roller in a coat of the desired color over the granule at the minimum rate of 1 gallon per 100 square feet (3.78 L / 9.3 m²). The GacoShell granule must be totally encapsulated by this finish coat. (Total wet film thickness -16 mils (.41 mm)).
- H. Optional Topcoat: After finish coat has cured a minimum of 24 hours, apply GacoFlex UA-60 aliphatic polyurethane topcoat by roller at a minimum rate of ½ gallon per 100 square feet (1.89 L / 9.3 m²).
1. Allow 48 hours before deck is put into use. In cool temperatures, a longer curing time may be required.

3.4 FIELD QUALITY CONTROL

- A. The contractor shall maintain a quality control program specifically to verify compliance with this specification. A daily log shall be kept to record actions in the field.
- B. Inspections: A minimum of three (Substrate, Application and Final) inspections, by an approved manufacturer's representative, will be required on all projects requiring a warranty.
- C. Thickness: Minimum over all dry film thickness of the completed fluid applied waterproofing, excluding GacoShell, will average 39 mils (.99 mm). Thickness including GacoShell will average approximately 45 mils (1.14 mm). The optional topcoat will add approximately 5 mils (.13 mm) of polyurethane coating to the system.