

ADDENDUM TO
SPECIFICATIONS ENTITLED
"SPECIFICATIONS FOR 514 MAIN STREET
ROOF REPLACEMENT
UNIVERSITY OF SOUTH CAROLINA
COLUMBIA, SOUTH CAROLINA
PROJECT NO. H27-6100A CP00336848/FM00385442"

ADDENDUM NO. 1

SEPTEMBER 19, 2013

The Specifications and Drawings contained in the project manual entitled "Specifications for 514 Main Street, Roof Replacement, University of South Carolina, Columbia, South Carolina, Project No. H27-6100A CP00336848/FM00385442, Date of Issue: August 2013" are amended as follows:

GENERAL

1. The Prebid Meeting Minutes are made a part of this addendum by reference.
2. Reference Asbestos Testing Results (by University of South Carolina), include the additional 11 pages.

SPECIFICATIONS

3. Reference Section 01270 – UNIT PRICES, see the Unit Price Form. Where it says (to be included with Schedule of Values), remove Schedule of Values and replace with Bid Form.
4. Reference Section 07000 – PREPARATION, Paragraph 1.2.A, add Item 11.
 11. Roof Access Ladder
5. Reference Section 07000 – PREPARATION, add Section 2.7 LADDER.

2.7 ROOF ACCESS LADDER

A. Manufacturers:

1. Acceptable Manufacturer: Precision Ladders, LLC, which is located at: P. O. Box 2279, Morristown, TN 37816-2279; Toll Free Tel: 800-225-7814; Tel: 423-586-2265; Email: info@PrecisionLadders.com; Web: www.PrecisionLadders.com.
2. Brand or manufacturer names are used as standards of quality where no other appropriate reference is available. Submit substitution requests under requirements listed in this Section.

B. Aluminum Fixed Vertical Ladder:

1. Aluminum Fixed Vertical Ladder and Components: Ladder, floor mounting brackets, and walk thru.
 - a. Model: Model FL-*** (***=vertical height in inches) Aluminum Fixed Vertical Ladder as manufactured by Precision Ladders LLC.
 - b. Capacity: Unit shall support a 1000 lb. (454 kg) loading without failure.
 - c. Performance Standard: Units designed and manufactured to meet or exceed ANSI A14.3 and OSHA 1910.27.

2. Components:

- a. Ladder Stringer: 2-1/2 inch by 1-1/16 inch by 1/8 inch (64 mm by 27 mm by 3 mm) extruded 6005-T5 aluminum channel. Pitch: 90 degrees.
- b. Ladder Tread: 2-1/4 inch by 3/4 inch by 1/4 inch (57 mm by 19 mm by 6 mm) extruded 6005-T5 aluminum with deeply serrated top surface.
- c. Ladder Mounting Bracket: 8-1/2 inch by 2 inch by 3 inch by 1/4 inch thick (216 mm by 51 mm by 76 mm by 6 mm) aluminum angle.
- d. Walk-Thru:
 - 1) Hand Rails: 1-1/4 inch (32 mm) aluminum square tube with rounded edges.
 - 2) Mounting Brackets: 4 inch by 4 inch by 1/4 inch (102 mm by 102 mm by 6 mm) aluminum.
 - 3) Side Rails: 42 inch (1067 mm) side rail extension for through ladder exits.
- e. Finishes:
 - 1) Standard: Mill finish on aluminum ladder components.
 - 2) Optional Finishes:
 - a) Powder Coated
 - b) Anodized

C. Fabrication:

1. Completely fabricate ladder ready for installation before shipment to the site.
2. Completely fabricate handrail components and ship to site ready for field assembly and attachment to ladder.

6. Reference Section 07000 – PREPARATION, add Section 3.12 ROOF ACCESS LADDER INSTALLATION.

3.12 ROOF ACCESS LADDER INSTALLATION

A. Examination:

1. Examine substrate and prepare for installation.
2. Examine materials upon arrival at site. Notify the carrier and manufacturer of any damage.

B. Installation:

1. Install in accordance with manufacturer's written instructions.

C. Protection:

1. Protect installed products until completion of project.
2. Touch-up, repair or replace damaged products before Substantial Completion.

6. Reference Section 07540 – THERMOPLASTIC MEMBRANE ROOFING, Paragraph 2.2, add the following paragraph E.

- E. Versico is approved for use on this project provided all such materials meet the requirements of the project specifications and the system warranty provided by the manufacturer is equivalent in all regards to the warranty required by the project specifications, including unlimited coverage of the cost of labor and materials to repair or replace defective membrane, insulation, base flashings and manufacturer's supplied accessories, etc. All materials required by the project specifications are to be furnished and installed in accordance with the specifications. One type of material is not to be substituted for another type of material.
7. Reference Section 07540 – THERMOPLASTIC MEMBRANE ROOFING, insert Paragraph 2.7 as follows:
- 2.7 CONDENSATE LINE SUPPORTS
- A. Dura-Blok DB5 as manufactured by Cooper B-Line.
1. 14 ga. (1.9 mm) galvanized channel, 1" high.
 2. Ultimate load = 200 lbs.
 3. 4.8 inches long
8. Reference Section 07540 – THERMOPLASTIC MEMBRANE ROOFING, delete Paragraph 3.9 in its entirety and replace with the following:
- 3.9 CONDENSATE LINE INSTALLATION
- A. At air conditioning units, provide new PVC condensate drains with integral P-trap as specified herein.
 - B. Route condensate drain line to nearest gutter.
 - C. Provide Dura-Blok and underlying walkpad at new and existing condensate drain line locations. Space blocking at 4 feet on center maximum.
 - D. Provide walkway pads as specified in these specifications.
 - E. Set Dura-Blok on walkpads without securing.
 - F. Provide manufacturer's metal brackets to secure line to Dura-Blok.

DRAWINGS:

9. Delete Roof Plan R-100 and replace with the attached Roof Plan R-100 (Addendum No. 1).

Nothing herein is to be interpreted or construed as changing any provisions of the specifications except as specifically stated herein.

Enclosures: Additional Asbestos Test Results (11 pages)
Roof Plan R-100 (Addendum No. 1)

END OF ADDENDUM

5732

EMSL Analytical, Inc.
706 Gralin Street



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number *(Lab Use Only):*

Kernersville, NC 27284
PHONE: (336) 992-1025
FAX: (336) 992-4175

| Company: University of South Carolina | | | EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small> | | |
|--|---------------------------|-------------------------------|---|-------------------------------|--|
| Street: 743 Greene Street | | | <i>Third Party Billing requires written authorization from third party</i> | | |
| City: Columbia | State/Province: SC | Zip/Postal Code: 29208 | Country: United States | | |
| Report To (Name): Darryl Washington | | | Telephone #: 803-917-0291 | | |
| Email Address: washindh@fmc.sc.edu | | | Fax #: 803-777-3990 | Purchase Order: | |
| Project Name/Number: UTS Annex 601 | | | Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail | | |
| U.S. State Samples Taken: SC | | | CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt | | |
| Turnaround Time (TAT) Options* – Please Check | | | | | |
| <input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input checked="" type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week | | | | | |
| <small>*For TEM Air 3 hr through 6 hr, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.</small> | | | | | |
| PLM - Bulk (reporting limit) | | | TEM - Bulk | | |
| <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NIOSH 9002 (<1%) <input type="checkbox"/> NY ELAP Method 198.1 (friable in NY) <input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY) <input type="checkbox"/> OSHA ID-191 Modified <input type="checkbox"/> Standard Addition Method | | | <input checked="" type="checkbox"/> TEM EPA NOB – EPA 600/R-93/116 Section 2.5.5.1 <input type="checkbox"/> NY ELAP Method 198.4 (TEM) <input type="checkbox"/> Chatfield Protocol (semi-quantitative) <input type="checkbox"/> TEM % by Mass – EPA 600/R-93/116 Section 2.5.5.2 <input type="checkbox"/> TEM Qualitative via Filtration Prep Technique <input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique | | |
| | | | Other | | |
| | | | <input type="checkbox"/> | | |
| <input checked="" type="checkbox"/> Check For Positive Stop – Clearly Identify Homogenous Group | | | | Date Sampled: | |
| Samplers Name: | | | Samplers Signature: | | |
| Sample # | HA # | Sample Location | Material Description | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| Client Sample # (s): | | - | | Total # of Samples: 16 | |
| Relinquished (Client): | | Date: | | Time: | |
| KE | | 9/17 | | 10:05 | |
| Received (Lab): | | Date: | | Time: | |
| KE | | 9/17 | | 10:05 | |
| Comments/Special Instructions: | | | | | |
| KE 7958 3374 9415 | | | | | |

Reset Form Print Form

5732



Building # UTS ANNEX Sample Analysis Date: 09-16-2013 Turn Around Time 24 hrs

| Area | Sample ID | Material Sampled | Material Location | F/NF | Cond | Quantity | Pot to Disturb |
|------|-----------|----------------------------|---|------|------|-------------|----------------|
| A | 1 | WHITE CAULKING | BACK ROOF OF BUILDING ON SEAMS | NF | G | 1 CB FT | LOW |
| A | 2 | WHITE CAULKING | BACK ROOF OF BUILDING ON SEAMS | NF | G | 1 CB FT | LOW |
| A | 3 | WHITE CAULKING | BACK ROOF OF BUILDING ON SEAMS | NF | G | 1 CB FT | LOW |
| B | 4 | MASTIC | ON ROOF CAP CENTER SECTION ON TERRACATA | NF | G | 1.5 CB FT | LOW |
| B | 5 | MASTIC | ON ROOF CAP CENTER SECTION ON TERRACATA | NF | G | 1.5 CB FT | LOW |
| B | 6 | MASTIC | ON ROOF CAP CENTER SECTION ON TERRACATA | NF | G | 1.5 CB FT | LOW |
| C | 7 | WHITE MASTIC | ON METAL COPPING BACK ROOF SECTION | NF | G | 0.5 CB FT | LOW |
| C | 8 | WHITE MASTIC | ON METAL COPPING BACK ROOF SECTION | NF | G | 0.5 CB FT | LOW |
| C | 9 | WHITE MASTIC | ON METAL COPPING BACK ROOF SECTION | NF | G | 0.5 CB FT | LOW |
| D | 10 | ROOF MATERIAL / INSULATION | FRONT SECTION OF ROOF | F/NF | G | >5000 SQ FT | LOW |

License # BI-00568 FM# FM00437413 Signature [Signature] Requestor DALE BRANHAM

Send lab results in PDF format as soon as possible to:
 Ed Pitts 803-777-3296
 Darryl Washington 803-777-2399
 720 College St.
 720 College St.
 Columbia, SC 29208
 Email: asbestos@matlab.sc.edu
 EHP@fmc.sc.edu

Fax # 803-777-3990

Reset Form

Print Form

5732



Building # _____ Sample Analysis _____ Turn Around Time _____
 Type of Analysis: Lead / Asbestos Date: _____

| Area | Sample ID | Material Sampled | Material Location | F/NF | Cond | Quantity | Pot to Disturb |
|------|-----------|------------------|---|------|------|-----------|----------------|
| E | 11 | BLACK MASTIC | ON METAL COPPING BACK SECTION | NF | G | 0.5 CB FT | LOW |
| E | 12 | BLACK MASTIC | ON METAL COPPING BACK SECTION | NF | G | 0.5 CB FT | LOW |
| E | 13 | BLACK MASTIC | ON METAL COPPING BACK SECTION | NF | G | 0.5 CB FT | LOW |
| F | 14 | GRAY CAULK | @ VENT PIPES BACK SECTION OF ROOF (2 PIPES) | NF | G | 1 SQ FT | LOW |
| F | 15 | GRAY CAULK | @ VENT PIPES BACK SECTION OF ROOF (2 PIPES) | NF | G | 1 SQ FT | LOW |
| F | 16 | GRAY CAULK | @ VENT PIPES BACK SECTION OF ROOF (2 PIPES) | NF | G | 1 SQ FT | LOW |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

License # _____ FM# _____ Signature _____ Requestor _____
Send lab results in PDF format as soon as possible to:
 Ed Pitts 803-777-3296 Darryl Washington 803-777-2399 Ty Russell 803-777-1208
 720 College St. 720 College St. 720 College St.
 EHP@fmc.sc.edu **Send lab results in PDF format as soon as possible to:** asbestos@matheson.com, sdu9208
 WashimDH@fmc.sc.edu NTRusse@fmc.sc.edu
Fax # 803-777-3990

FM00413395

FM00413395

USC Work Order

Description HAZMAT SURVEY DM12 514 MAIN ROOF REPLACEMENT

| | | | |
|------------------|---------------------------|---------------------|------------|
| Site | COLUMBIA | Assigned To | JPROVENCE |
| Building | 145 514 SOUTH MAIN STREET | Crew | HAZMAT |
| Floor | ROOF | Start Date | Priority 5 |
| Equipment | Room: | Due date | 31-DEC-12 |
| | | Request Date | 29-NOV-12 |
| | | by | CHAPMAS |

| | | | |
|--------------------|------------|--------------------|--|
| Request # | FM00413395 | Description | HAZMAT SURVEY DM12 514 MAIN ROOF REPLACEMENT |
| Parent WO # | | | |

| | | |
|------------------|------------|--------------------------------|
| CP Number | CP00366411 | DM12 514 MAIN ROOF REPLACEMENT |
|------------------|------------|--------------------------------|

| | |
|--------------------------------------|----------|
| State/Internal Project Number | H27-6100 |
|--------------------------------------|----------|

| | | | |
|---------------------------|--------------|------------------------|--|
| Requestor | BRANHAM,DALE | Project Manager | BRANHAM, DALE |
| Telephone | 7-1288 | Telephone | 777-1288 |
| Alternate | | Estimated Cost | \$ 0.00 |
| Telephone | | Billing | FIXED PRICE |
| Non-Available Time | | | 53100-W797-57120 (DEFERRED MAINTENANCE 2012) |

| |
|---|
| Task List |
| (CHECK ALL THAT APPLY AND PROVIDE ADDITIONAL INFORMATION AS NEEDED) |
| HAZMAT SURVEY(S) REQUESTED FOR THE FOLLOWING |
| <input type="checkbox"/> FLOOR TILE |
| <input type="checkbox"/> JOINT COMPOUND |
| <input type="checkbox"/> WALLS |
| <input type="checkbox"/> MASTIC |
| <input type="checkbox"/> CEILING TILE |
| <input type="checkbox"/> PIPE INSULATION |
| <input type="checkbox"/> VINYL SHEET FLOORING |
| <input type="checkbox"/> FIREPROOFING |
| <input type="checkbox"/> FUME HOODS/TABLE TOPS |
| <input type="checkbox"/> ROOFING MATERIALS |
| <input type="checkbox"/> FIRE DOORS |
| <input type="checkbox"/> GASKETS/VALVES |
| <input type="checkbox"/> BOILER INSULATION |
| <input type="checkbox"/> ACOUSTICAL POPCORN CEILING |
| <input type="checkbox"/> DUCT WORK |
| <input type="checkbox"/> OTHER (PLEASE DESCRIBE BELOW) |

| | |
|-----------------------------|-----------------------|
| DATE WORK STARTED | CAUSE |
| DATE WORK COMPLETED | CONDITION |
| EQUIPMENT | |
| CLOSING REMARKS | |
| BENCHSTOCK MATERIALS | |
| Qty | Description |
| | Price Per Unit |
| | |
| | |
| | |

Supervisor's Approval _____

| | |
|------------------|--------------|
| Note Date | Title |
|------------------|--------------|

FM00413395***FM00413395*****USC Work Order****29-APR-13 HAZMAT SURVEY RESULTS**

SURVEY DATE:1/29/13

INSPECTOR #: DARRYL WASHINGTON II BI-00568

STATUS: THE FOLLOWING MATERIALS HAVE BEEN TESTED FOR ASBESTOS CONTAINING MATERIALS RESULTS FOLLOWS

SECTION A MAIN PART OF BUILDING

ROOFING MATERIAL- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

ROOFING INSULATION- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

SECTION B REAR SECTION OF BUILDING

ROOFING MATERIAL (EPDM OVER STYROFOAM)- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

ROOFING INSULATION (STYROFOAM)- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

IF YOU ENCOUNTER ANY SUSPECT MATERIALS IN PLACE AND DEEM IT SUSPECT FOR ASBESTOS AND IT IS NOT LISTED ABOVE PLEASE STOP WORK AND CALL THE ASBESTOS PROGRAM MANAGER FOR FURTHER TESTING OR ABATEMENT

REFER TO THE SURVEY RESULTS DOCUMENT ATTACHED TO THE WO FOR DETAILED INFORMATION.

19-SEP-13 HAZMAT SURVEY RESULTS - SEPTEMBER 19, 2013

SURVEY DATE: 9/16/13

INSPECTOR #: DARRYL WASHINGTON (BI-00568) AND ERIC MELARO (GR-00052)

STATUS: THE FOLLOWING MATERIALS HAVE BEEN TESTED FOR ASBESTOS OR LEAD AND RESULTS FOLLOW:

SECTION A MAIN PART OF BUILDING

BLACK MASTIC ON TERRA COTTA ROOF CAP – POSITIVE FOR ASBESTOS

TERRA COTTA ROOF CAP - NEGATIVE FOR LEAD

GRAY PAINT ON BRICK – NEGATIVE FOR LEAD

YELLOW PAINT ON BUILDING – NEGATIVE FOR LEAD

SECTION B REAR SECTION OF BUILDING

TAR/CAULKING ON VENT PIPES – POSITIVE FOR ASBESTOS

WHITE CAULK ON ROOF SEAMS – NEGATIVE FOR ASBESTOS

WHITE MASTIC ON METAL COPING – NEGATIVE FOR ASBESTOS

BLACK MASTIC ON METAL COPING – NEGATIVE FOR ASBESTOS

(THE BLACK MASTIC ON METAL COPING DID NOT MEET THE SCDHEC OR OSHA DEFINITION OF ASBESTOS CONTAINING MATERIALS. HOWEVER, ASBESTOS WAS IDENTIFIED AT LESS THAN ONE PERCENT IN THE MASTIC. AS A RESULT, ALL OSHA REGULATIONS RELATED TO ASBESTOS EXPOSURE MUST BE STRICTLY ADHERED FOR THE DURATION OF THIS PROJECT.)

CREAM PAINT ON BUILDING – NEGATIVE FOR LEAD

INSPECTOR'S NOTES: THE PEBBLED PANELS ON THE SIDES OF THE OVERHANGS ON THE FRONT OF THE BUILDING WERE NOT INSPECTED. THIS MATERIAL IS PRESUMED POSITIVE FOR ASBESTOS UNTIL SUCH TIME AS WE CAN INSPECT THE AREA BEHIND THE PEBBLED PANELS.

IF YOU ENCOUNTER ANY OTHER MATERIALS IN PLACE AND DEEM THEM SUSPECT FOR ASBESTOS AND/OR LEAD, PLEASE STOP WORK AND CONTACT THE ASBESTOS PROGRAM MANAGER FOR FURTHER TESTING OR ABATEMENT.

REFER TO THE SURVEY RESULTS ATTACHED TO THE WORK ORDER FOR DETAILED INFORMATION.

09-APR-04 ASBESTOS MAY BE PRESENT IN THIS BUILDING

WARNING - ASBESTOS EXPOSURE ALERT - EXPOSURE TO ASBESTOS MAY BE HARMFUL TO YOUR HEALTH.

AS OF 4/1/2004 THE FOLLOWING AREAS WITHIN THE BUILDING HAVE BEEN IDENTIFIED BY SURVEY TO CONTAIN ASBESTOS:

FM00413395***FM00413395*****USC Work Order**

BLDG 145 COMPUTER ANNEX
MECHANICAL RM --> STEAM PIPE [55 LIN. FT.]
MECHANICAL RM --> LP. STEAM PIPE [95 LIN. FT.]
--> STEAM PIPE FITTINGS [20 LIN. FT.]
--> STEAM CONDENSATE PIPE [50 LIN. FT.]

PLEASE NOTE - IDENTIFICATION OF ASBESTOS CONTAINING COMPONENTS WITHIN THIS STRUCTURE DOES NOT SPECIFICALLY EXCLUDE THE PRESENCE OF ASBESTOS WITHIN OTHER AREAS.

THE FOLLOWING COMMON TYPES OF BUILDING COMPONENTS COULD CONTAIN MATERIALS THAT, WHEN DISTURBED, MIGHT EXPOSE YOU TO ASBESTOS:

1. FLOOR TILE
2. PIPE INSULATION
3. BLACK MASTIC
4. HVAC DUCT MASTIC
5. SPRAYED-ON FIREPROOFING
6. SPRAYED-ON CEILINGS
7. SHEETROCK JOINT COMPOUND

BEFORE DISTURBING THESE TYPES OF COMPONENTS, CONFIRM THAT THEY DO NOT CONTAIN ASBESTOS AND TAKE PROPER PRECAUTIONS AT ALL TIMES.


EMSL Analytical, Inc.

706 Gralin Street, Kernersville, NC 27284

Phone/Fax: (336) 992-1025 / (336) 992-4175

<http://www.EMSL.com>
greensborolab@emsl.com

EMSL Order: 021305732

CustomerID: UNSC62

CustomerPO:

ProjectID:

Attn: **Darryl Washington**
University of South Carolina
743 Greene Street
Columbia, SC 29208

Phone: (803) 777-7000
 Fax: (803) 777-3990
 Received: 09/17/13 10:05 AM
 Analysis Date: 9/17/2013
 Collected:

Project: **UTS Annex**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|---------------------|-------------|---|---------------|--------------------------|------------------------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 1 021305732-0001 | Caulking | Gray/Tan Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |
| 2 021305732-0002 | Caulking | Gray/Tan Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |
| 3 021305732-0003 | Caulking | Gray Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |
| 4 021305732-0004 | Mastic | Black Fibrous Homogeneous | | 88% Non-fibrous (other) | 12% Chrysotile |
| 5 021305732-0005 | Mastic | | | | Stop Positive (Not Analyzed) |
| 6 021305732-0006 | Mastic | | | | Stop Positive (Not Analyzed) |
| 7 021305732-0007 | Mastic | Beige/Grayish Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |
| 8 021305732-0008 | Mastic | Beige/Grayish Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |
| 9 021305732-0009 | Mastic | White/Beige Non-Fibrous Heterogeneous | <1% Cellulose | 100% Non-fibrous (other) | None Detected |

Analyst(s)

Kristie Elliott (12)

Stephen Bennett (4)

 Stephen Bennett, Laboratory Manager
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%
 Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from 09/17/2013 16:26:24


EMSL Analytical, Inc.

706 Gralin Street, Kernersville, NC 27284

Phone/Fax: (336) 992-1025 / (336) 992-4175

<http://www.EMSL.com>
greensborolab@emsl.com

EMSL Order: 021305732

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CustomerPO:

ProjectID:

 Attn: **Darryl Washington**
University of South Carolina
743 Greene Street
Columbia, SC 29208

 Phone: (803) 777-7000
 Fax: (803) 777-3990
 Received: 09/17/13 10:05 AM
 Analysis Date: 9/17/2013
 Collected:

 Project: **UTS Annex**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|----------------------------------|--------------------------|--|--------------------------|--------------------------|------------------------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 10-Roofing 021305732-0010 | Roof Material/Insulation | Gray/Black Fibrous Heterogeneous | 8% Glass 1% Cellulose | 91% Non-fibrous (other) | None Detected |
| 10-Insulation 021305732-0010A | Roof Material/Insulation | Gray Fibrous Heterogeneous | 2% Cellulose | 98% Non-fibrous (other) | None Detected |
| 11 021305732-0011 | Mastic | Gray/Black Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |
| 12 021305732-0012 | Mastic | Black Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |
| 13 021305732-0013 | Mastic | Black Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (other) | None Detected |
| 14-Caulking 021305732-0014 | Caulk | Gray Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (other) | None Detected |
| 14-Tar 021305732-0014A | Caulk | Black Fibrous Homogeneous | | 90% Non-fibrous (other) | 10% Chrysotile |
| 15-Caulking 021305732-0015 | Caulk | Gray Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |
| 15-Tar 021305732-0015A | Caulk | | | | Stop Positive (Not Analyzed) |

Analyst(s)

Kristie Elliott (12)

Stephen Bennett (4)

 Stephen Bennett, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from 09/17/2013 16:26:24


EMSL Analytical, Inc.

706 Gralin Street, Kernersville, NC 27284

Phone/Fax: (336) 992-1025 / (336) 992-4175

<http://www.EMSL.com>
greensborolab@emsl.com

EMSL Order: 021305732

CustomerID: UNSC62

CustomerPO:

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Attn: **Darryl Washington**
University of South Carolina
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Columbia, SC 29208

Phone: (803) 777-7000
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 Received: 09/17/13 10:05 AM
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 Project: **UTS Annex**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|-------------------------------|-------------|------------------------------------|---------------|--------------------------|------------------------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 16-Caulking 021305732-0016 | Caulk | Gray Non-Fibrous Homogeneous | <1% Cellulose | 100% Non-fibrous (other) | None Detected |
| 16-Tar 021305732-0016A | Caulk | | | | Stop Positive (Not Analyzed) |

Analyst(s)

Kristie Elliott (12)

Stephen Bennett (4)

 Stephen Bennett, Laboratory Manager
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%
 Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from 09/17/2013 16:26:24

**EMSL Analytical, Inc.**

706 Gralin Street, Kernersville, NC 27284

Phone/Fax: (336) 992-1025 / (336) 992-4175

<http://www.EMSL.com>greensborolab@emsl.com

EMSL Order: 021305732

CustomerID: UNSC62

CustomerPO:

ProjectID:

Attn: **Darryl Washington**
University of South Carolina
743 Greene Street
Columbia, SC 29208

Phone: (803) 777-7000
 Fax: (803) 777-3990
 Received: 09/17/13 10:05 AM
 Analysis Date: 9/18/2013
 Collected:

Project: **UTS Annex**

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM
via EPA/600/R-93/116 Section 2.5.5.1

| SAMPLE ID | DESCRIPTION | APPEARANCE | % MATRIX MATERIAL | % NON-ASBESTOS FIBERS | ASBESTOS TYPES |
|-------------------------------|-------------|--|-------------------|-----------------------|----------------------|
| 3 021305732-0017 | Caulking | Gray /Tan Non-Fibrous Heterogeneous | 100 | None | No Asbestos Detected |
| 9 021305732-0018 | Mastic | White /Beige Non-Fibrous Heterogeneous | 100 | None | No Asbestos Detected |
| 10-Roofing 021305732-0019 | Roofing | Gray /Black Fibrous Heterogeneous | 100 | None | No Asbestos Detected |
| 13 021305732-0020 | Mastic | Black Non-Fibrous Heterogeneous | 100 | None | <0.25% Chrysotile |
| 16-Caulking 021305732-0021 | Caulk | Gray /Black Non-Fibrous Heterogeneous | 99.5 | None | 0.52% Chrysotile |

Analyst(s)

Stephen Bennett (5)

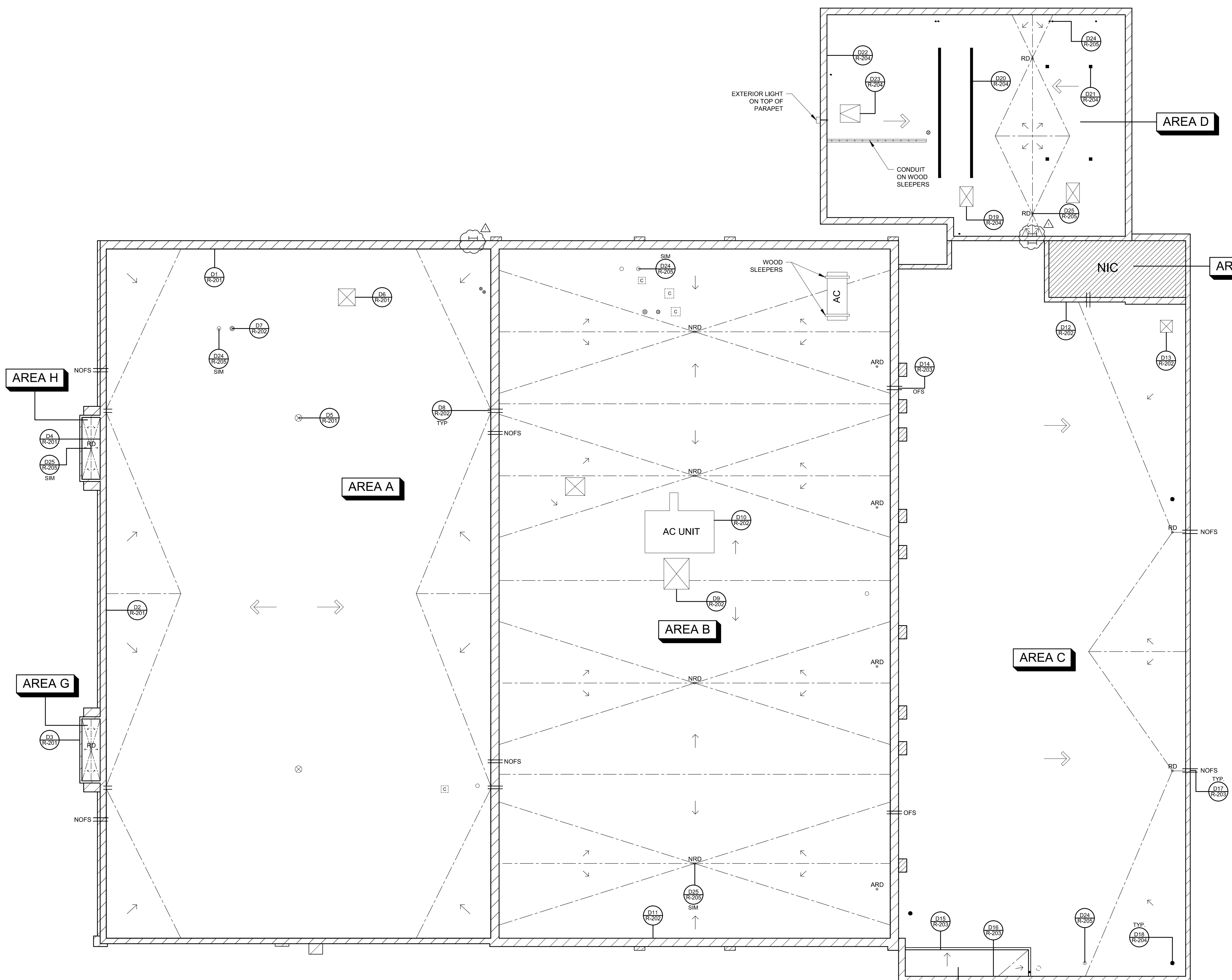
Stephen Bennett, Laboratory Manager
 or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from 09/18/2013 17:38:42

| Reading No | Time | Type | Duration | Units | Sequence | Component | Substrate | Side | Condition | Color | Site | Inspector | Floor | Room | Misc 1 | Misc 2 | Results | Depth Index | Action Level | PbC | PbC Error | PbL | PbL Error | PbK | PbK Error | |
|------------|----------------|-------|----------|------------|----------|-----------|-----------|------|-----------|--------|-------------|-----------|---------------|----------------|--------|--------|----------|-------------|--------------|------------|------------|------------|-----------|-----|-----------|------|
| 90 | 9/16/2013 9:30 | PAINT | 0.97 | mg / cm ^2 | Final | calibrate | | | | WHITE | | | | | | | Null | 1 | 0.7 < LOD | 0.03 < LOD | 0.03 < LOD | | | | 3 | |
| 91 | 9/16/2013 9:30 | PAINT | 1.16 | mg / cm ^2 | Final | calibrate | | | | WHITE | | | | | | | Negative | 1 | 0.7 < LOD | 0.03 < LOD | 0.03 < LOD | | | | 1.67 | |
| 92 | 9/16/2013 9:31 | PAINT | 3.28 | mg / cm ^2 | Final | ROOF CAP | TERRACATA | | INTACT | BROWN | 514 main st | wash | roof | | | | Negative | 1.17 | 0.7 < LOD | 0.03 < LOD | 0.03 < LOD | | | | 1.2 | |
| 93 | 9/16/2013 9:32 | PAINT | 3.7 | mg / cm ^2 | Final | ROOF CAP | TERRACATA | | INTACT | BROWN | 514 main st | wash | roof | | | | Negative | 1.44 | 0.7 < LOD | 0.03 < LOD | 0.03 < LOD | | | | 1.05 | |
| 94 | 9/16/2013 9:32 | PAINT | 3.1 | mg / cm ^2 | Final | ROOF CAP | TERRACATA | | INTACT | BROWN | 514 main st | wash | roof | | | | Negative | 1.01 | 0.7 < LOD | 0.03 < LOD | 0.03 < LOD | | | | 1.23 | |
| 95 | 9/16/2013 9:34 | PAINT | 6.99 | mg / cm ^2 | Final | WALL | brick | | PEELING | gray | 514 main st | wash | roof | | | | Negative | 3.49 | 0.7 < LOD | 0.03 < LOD | 0.03 | 0.9 | | | 0.4 | |
| 96 | 9/16/2013 9:34 | PAINT | 2.53 | mg / cm ^2 | Final | WALL | brick | | PEELING | gray | 514 main st | wash | roof | | | | Negative | 10 | 0.7 < LOD | 0.32 < LOD | 0.32 < LOD | | | | 1.65 | |
| 97 | 9/16/2013 9:34 | PAINT | 3.3 | mg / cm ^2 | Final | WALL | brick | | PEELING | gray | 514 main st | wash | roof | | | | Negative | 4.22 | 0.7 < LOD | 0.06 < LOD | 0.06 < LOD | | | | 1.05 | |
| 98 | 9/16/2013 9:37 | PAINT | 3.89 | mg / cm ^2 | Final | WALL | brick | | PEELING | YELLOW | 514 main st | wash | exterior wall | | | | Negative | 1.32 | 0.7 0.06 | 0.03 | 0.06 | 0.03 < LOD | | | | 0.9 |
| 99 | 9/16/2013 9:38 | PAINT | 3.69 | mg / cm ^2 | Final | WALL | brick | | PEELING | YELLOW | 514 main st | wash | exterior wall | | | | Negative | 2.62 | 0.7 0.13 | 0.07 | 0.13 | 0.07 < LOD | | | | 0.9 |
| 100 | 9/16/2013 9:38 | PAINT | 3.68 | mg / cm ^2 | Final | WALL | brick | | PEELING | YELLOW | 514 main st | wash | exterior wall | | | | Negative | 2.75 | 0.7 0.11 | 0.07 | 0.11 | 0.07 < LOD | | | | 1.05 |
| 101 | 9/16/2013 9:38 | PAINT | 3.31 | mg / cm ^2 | Final | WALL | brick | | PEELING | YELLOW | 514 main st | wash | exterior wall | | | | Negative | 1.92 | 0.7 < LOD | 0.06 < LOD | 0.06 < LOD | | | | 1.05 | |
| 102 | 9/16/2013 9:39 | PAINT | 4.67 | mg / cm ^2 | Final | WALL | brick | | PEELING | YELLOW | 514 main st | wash | exterior wall | | | | Null | 2.07 | 0.7 0.07 | 0.04 | 0.07 | 0.04 < LOD | | | | 0.9 |
| 103 | 9/16/2013 9:40 | PAINT | 3.3 | mg / cm ^2 | Final | WALL | brick | | PEELING | cream | 514 main st | wash | exterior wall | back high wall | | | Negative | 1.6 | 0.7 < LOD | 0.03 < LOD | 0.03 < LOD | | | | 1.05 | |
| 104 | 9/16/2013 9:40 | PAINT | 2.32 | mg / cm ^2 | Final | WALL | brick | | PEELING | cream | 514 main st | wash | exterior wall | back high wall | | | Negative | 1 | 0.7 < LOD | 0.03 < LOD | 0.03 < LOD | | | | 1.95 | |
| 105 | 9/16/2013 9:40 | PAINT | 2.33 | mg / cm ^2 | Final | WALL | brick | | PEELING | cream | 514 main st | wash | exterior wall | back high wall | | | Negative | 1 | 0.7 < LOD | 0.03 < LOD | 0.03 < LOD | | | | 1.8 | |
| 106 | 9/16/2013 9:41 | PAINT | 4.83 | mg / cm ^2 | Final | WALL | brick | | PEELING | cream | 514 main st | wash | exterior wall | back high wall | | | Negative | 1.08 | 0.7 < LOD | 0.03 < LOD | 0.03 < LOD | | | | 0.9 | |
| 107 | 9/16/2013 9:41 | PAINT | 4.86 | mg / cm ^2 | Final | WALL | brick | | PEELING | cream | 514 main st | wash | exterior wall | back high wall | | | Negative | 6.7 | 0.7 < LOD | 0.9 < LOD | 0.08 < LOD | | | | 0.9 | |
| 108 | 9/16/2013 9:42 | PAINT | 1.36 | mg / cm ^2 | Final | calibrate | | | | WHITE | | | | | | | Negative | 1 | 0.7 < LOD | 0.03 < LOD | 0.03 < LOD | | | | 1.61 | |



LEGEND

- NRD ◯ NEW ROOF DRAIN
- RD ◯ ROOF DRAIN
- ⊖ SCUPPER
- ▬ PARAPET
- ⊗ MECHANICAL UNIT
- ◻ COVERED CURB
- ▬ FLASHED EQUIPMENT CURB
- ▬ SLEEPER
- ▬ PITCH PAN
- VENT PIPE/PENETRATION
- ⊙ HOT STACK
- ▬ TAPERED INSULATION
- ▬ TAPERED INSULATION SLOPE
- ▬ DECK SLOPE
- ⊙ DETAIL NO.
- ⊖ NOT IN CONTRACT
- ⊖ ABANDONED (TO BE REMOVED)
- ⊖ ABANDONED SANITARY VENT (TO BE REMOVED)
- ARD ◯ ABANDONED ROOF DRAIN
- OFS = OVERFLOW SCUPPER
- NOFS = NEW OVERFLOW SCUPPER
- ▬ GUTTER AND DOWNSPOUT
- ▬ NEW LADDER

CODE SUMMARY

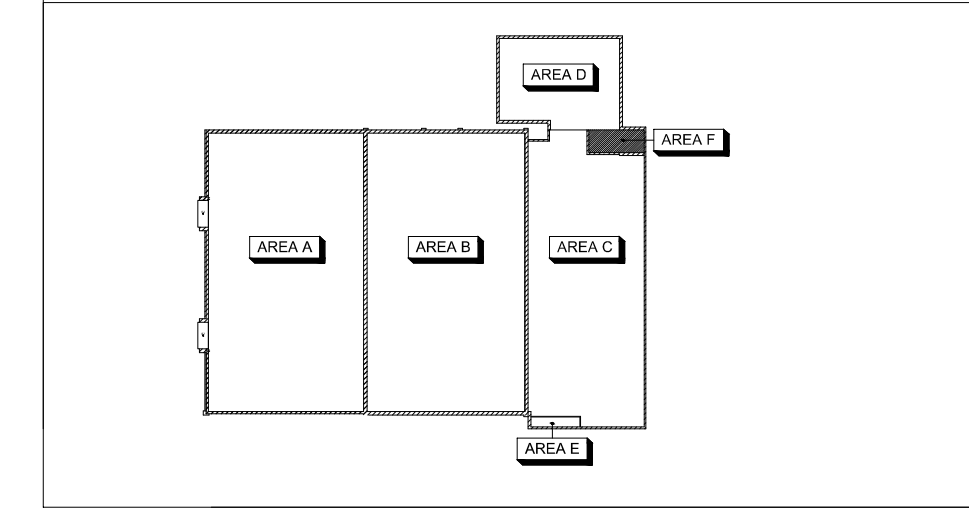
INTERNATIONAL BUILDING CODE (2006 EDITION) AND ASCE 7-05

BASIC WIND SPEED = 95 MPH
 IMPORTANCE FACTOR = 1.15
 EXPOSURE CATEGORY = B
 INTERNAL PRESSURE COEF. = +/- 0.18

THE NEW ROOF SYSTEM SHALL BE DESIGNED AND CONSTRUCTED TO MEET THE FOLLOWING WIND UPLIFT PRESSURES:

1. INTERIOR ZONE = -25 PSF
2. EDGE ZONE = -44 PSF
3. CORNER ZONE = -53 PSF

KEYPLAN



RP1 514 MAIN STREET ROOF PLAN
 SCALE: 1/8"=1'-0"

STAFFORD CONSULTING ENGINEERS
 A Terracon COMPANY
 Building Envelope Systems Specialists
 2020 STARITA ROAD SUITE E
 CHARLOTTE, NORTH CAROLINA, PH. 1.800.545.6159
 RALEIGH, CHARLOTTE, JACKSONVILLE

PROJECT NAME AND ADDRESS:



514 MAIN STREET ROOF REPLACEMENT PROJECT

PROJECT NUMBER: H27-6100-A

UNIVERSITY OF SOUTH CAROLINA

ADDRESS: UNIVERSITY OF SOUTH CAROLINA COLUMBIA, SOUTH CAROLINA

ENGINEER STATE LICENSE SEAL



ISSUE FOR:

- ISSUED FOR DESIGN DEVELOPMENT SUBMITTAL: NOT FOR CONSTRUCTION
- ISSUED FOR SURVEY REPORT SUBMITTAL: NOT FOR CONSTRUCTION
- ISSUED FOR 60% CONSTRUCTION DOCUMENT SUBMITTAL: NOT FOR CONSTRUCTION
- ISSUED FOR CONSTRUCTION DOCUMENT SUBMITTAL: NOT FOR CONSTRUCTION
- ISSUED FOR BIDDING
- ISSUED FOR CONSTRUCTION DOCUMENT SUBMITTAL FOR CONSTRUCTION
- ADDENDUM SUBMITTAL
- RECORD DOCUMENTS

ISSUE DATE:
AUGUST 23, 2013

REVISIONS:

| REV. NO. | DATE | DESCRIPTION |
|----------|------------|-------------|
| 1 | 08/18/2013 | ADDENDUM #1 |

PROJECT TEAM:
 DESIGNED BY: **AWM**

DRAWN BY: **EGM II**

APPROVED BY: **AWM & CMQ**

PROJECT NUMBER:
FH136820

SHEET TITLE:
ROOF PLAN

SHEET NUMBER:
R-100

University of South Carolina Pre Bid Sign In Sheet

Columbia, South Carolina

Project Name: 514 Main Street Roof Replacement
 Project Number: H27-6100-A
 Pre Bid Date & Time: September 11, 2013 @ 1pm

| Name | Company Name | Address | Phone # | Email |
|-------------------|------------------------------|--|------------------|------------------------------|
| Bobbie KEARSE | ABC Supply Co. | 855 Brookwood Dr Polk SC | 803-971-4402 | richmond.kearse@abcupply.com |
| Paul Crewer | Fort Roofing | 14 W Coleland Sumter SC | 803-773 9341 | pcrowers@sc.thuebl.com |
| Greg Stehara | NationsRoof | 1859 Lindbergh St Charlotte, NC | 704-398 -2662 | GStehara@nationsroof.com |
| Jeffery Pilkerton | Superior Roofing | 357 Odell Rd Griffin GA 30224 | 770-288-2658 | jeffery@roofGA.com |
| JOE GIBBY | GUY ROOFING | 201 JONES RD SPARTANBURGH | 864-578 4594 | j.gibbs@guyroofing.com |
| Mike Vazquez | ForeSight Building Solutions | 1118 Dove Trace Tega City, SC 29225 | 803-517 2664 | V426@comprium.net |
| McSwain Miles | Roofco inc. | 1345 North Pine East Sumter SC, 29150 | 803-775 8560 | roofco@sc.rr.com |
| Kenneth Fennell | C.E. Bourne & Co., Inc. | PO Box 6014 Greenwood, SC 29648 | 804-223-0188 | Kenneth@cebourne.com |
| Ty Russell | USC | 708 Middleton | 712088 | trussard@usc.edu |

* Please make sure you list your company name as registered with LTR.
 * By signing and providing your email address, you are authorizing the University of South Carolina to send you information electronically.

University of South Carolina Pre Bid Sign In Sheet

Columbia, South Carolina

Project Name: 514 Main Street Roof Replacement
 Project Number: H27-6100-A
 Pre Bid Date & Time: September 11, 2013 @ 1pm

| Name | Company Name | Address | Phone # | Email |
|---------------|-----------------------------|--|----------------------------------|------------------------|
| Cee Hawkins | CMS Roofing | 530 W 5100 Ct I/mo 29063 | 803-732-5558 | Cee@CMSofSC.com |
| Wyman Umthram | WATTS Roofing | 7416 Fairfeld Rd. Columbia S.C. 29921 P.O. Box 21273 | 803-786-4610 | scott@wattsroofing.com |
| Brian Ward | W.S.C | | 803-422-5441 | |
| Eric Hoffman | W.S.C | | 803-917-6513 | |
| BD Yebarough | SQS | N Wise Drive Santee SC 725 Mauvey Dr | 773-8221 803 | BD@SouthernRoofing.com |
| Ricky Jackson | Best Distraunting | Columbia SC 29201 Po. Box 2238 | (803) 513-3500 (803) 936-0420 | rjackson@bestdist.com |
| Dana Neville | Aqua Seal Mfg & Roofing Inc | 1355 Adrian Hwy Columbia SC 29528 | 843-369-4101 | dana@aquseal.com |
| John A. Gann | CCR | | | JGann@SCOAST.NET |
| SEFF ROE | STAFFORD | 2020-E STADIA RD. CHARLOTTE NC | 704-594-8939 | SHROE@TKRROOFING.com |

* Please make sure you list your company name as registered with LTR.
 * By signing and providing your email address, you are authorizing the University of South Carolina to send you information electronically.

University of South Carolina Pre Bid Sign In Sheet

Columbia, South Carolina

Project Name: 514 Main Street Roof Replacement
 Project Number: H27-6100-A
 Pre Bid Date & Time: September 11, 2013 @ 1pm

| Name | Company Name | Address | Phone # | Email |
|--------------------|--------------|--------------------------------------|-----------------|----------------------|
| ALEX MONTGOMERY | STAFFORD | 2020-E STANLEY RD CHARLOTTE NC | 803 312-5977 | SKAJIYAWD@KMC.SC.EDU |
| DARÉ BRADMAN | USC | 743 Green St Columbia SC | 803.771.3596 | jbrooking@fmc.sc.edu |
| Jingqiana Brooks | USC | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

* Please make sure you list your company name as registered with LTR.
 * By signing and providing your email address, you are authorizing the University of South Carolina to send you information electronically.

September 19, 2013
Project No. FH136820

Mr. Dale Branham
University of South Carolina
Facilities Planning and Construction
743 Greene Street
Columbia, South Carolina 29208

Subject: Prebid Meeting – Roof Replacement
514 Main Street
University of South Carolina
Columbia, South Carolina
Project No. H27-6100-A CP00336848/FM00385442

Dear Mr. Branham:

The Prebid Meeting was convened for the subject project in Conference Room #53 at 743 Greene Street, Columbia, South Carolina on September 11, 2013 at approximately 1:00 p.m. A walk-through was performed after the meeting at the facility. The following individuals were in attendance:

| <u>Name</u> | <u>Firm Represented</u> |
|-----------------------|-------------------------------|
| Mr. Dale Branham | University of South Carolina |
| Mr. Ty Russell | University of South Carolina |
| Mr. Brian Wood | University of South Carolina |
| Mr. Patrick Huffman | University of South Carolina |
| Ms. Juaquana Brookins | University of South Carolina |
| Mr. Bubba Kearse | ABC Supply Co. |
| Mr. Paul Cromer | Fort Roofing |
| Mr. Greg Stehura | Nations Roof |
| Mr. Jeffery Pilkenton | Superior Roofing |
| Mr. Joe Gibbs | Guy Roofing |
| Mr. Mike Vazquez | Foresight Building Solutions |
| Mr. McSwain Miles | Roofco Inc. |
| Mr. Kenneth Ferrell | C. E. Bourne & Co. |
| Mr. Cee Hawkins | CMS Roofing |
| Mr. Wyman Windham | Watts Roofing |
| Mr. B. D. Yarborough | SRS |
| Mr. Ricky Jackson | Best Distributing |
| Mr. Dana Neville | Aqua Seal Roofing |
| Mr. John A. Gann | CCR |
| Mr. Alex Montgomery | Stafford Consulting Engineers |
| Mr. Jeff Poe | Stafford Consulting Engineers |

The following items were discussed:

1. Initial introductions were made by Mr. Dale Branham. Ms. Juaquana Brookins works in the USC Purchasing Department and Request for Bids are to be emailed to her attention. Mr. Branham is the USC Project Manager. Mr. Alex Montgomery with Stafford Consulting Engineers convened the prebid meeting. Mr. Poe will be the Project Manager for Stafford. Technical questions may be referred to Alex Montgomery (704-594-8930 or 704-868-6423) or Jeff Poe (704-594-8939 or 828-230-0563).
2. Contractors were advised that the Prebid Meeting is non-mandatory and that other contractors who were not at the Prebid Meeting may participate on the project.
3. Requests for Bids are due to USC on September 24, 2013 at 2:30 pm in Conference Room #53 at 743 Greene Street, Columbia, South Carolina. Contractors were reminded that it is their responsibility to ensure that their quotes arrive at the designated location at the designated time. Quotes will be opened and read aloud.
4. Contractors were advised that this is a critical building containing computer servers, mechanical rooms and offices. The building will remain occupied at all times.
5. Contractor should be familiar with all USC Supplemental Conditions.
6. Staging location for roofing work will be provided by Owner. Exact location will be discussed at the preconstruction meeting.
7. It was noted that a survey was conducted by USC and no asbestos containing materials were identified in roof system and mastics. Survey results are included in the specifications.
8. Contractors were reminded that only the written word as contained in the plans and specifications, including any addenda that may be issued is binding.
9. It is the Contractors' responsibility to read and review all of the project documents, including addenda.
10. Statements made by the Engineer or agency representative are for the sole purpose of calling Contractors' attention to items of importance in the project documents.
11. All questions or requests for clarification must be submitted in writing. All responses will be made in the form of addenda to the project documents.
12. Each bid shall have a bid security of not less than 5% of the sum of the base bid.
13. The Contractor with the successful quote shall provide a Performance Bond and a Labor and Materials Payment Bond, each in the full amount of the contract price.
14. Contractors and all subcontractors shall be licensed in accordance with the requirements of the Contractors' Licensing Board.
15. The following items were emphasized:


- a. Substitution requests must be submitted by a contractor in writing with substantiating data to the Engineer no later than 10 days prior to the Bid Opening date. Engineer shall include in an addendum any approved substitutions. Engineer's decision shall be final.
 - b. No addenda will be issued later than 120 hours prior to the date and time for receipt of bids, except addenda postponing the date of receipt of bids or withdrawing the invitation for bids.
 - c. Bidder shall not qualify bid.
 - d. Official time for receipt of bids will be determined by reference to the clock designated by the Owner's procurement officer or his/her designee.
16. Contractors shall acknowledge receipt of all addenda. Quotes are to be shown in figures only.
 17. Contract time has been set at forty-five (45) calendar days from the Date of Commencement. Date of Commencement shall be established in the Notice to Proceed.
 18. Liquidated Damages have been set at \$250.00 for each calendar day that the actual construction time required to achieve Substantial Completion exceeds the specified or adjusted time for Substantial Completion as provided in the Contract Documents.
 19. Contact information for the Owners' representatives and the Engineer's representative are listed in OSE Form 00501.
 20. Insurance requirements are covered in OSE Form 00811 on page 14.
 21. Section 01000 – General Requirements. Grounds and landscaping provisions are in USC Supplemental General Conditions.
 22. Section 01100 – General Information. Work under the Base Bid is covered in this section. Materials may be delivered to the site prior to this date, with coordination with the Owner. Substantial Completion is defined in this Section. Description of existing systems is in this section.
 23. Section 01210 – Base Bid Quantities. Base Bid quantities that are to be included in the Base Bid are listed in this section.
 24. Section 01250 – Contract Modification Procedures. Owner initiated and contractor initiated change order procedures are discussed in this section. SE-480 shall be the form used for change orders on this project.
 25. Section 01270 – Unit Prices. Unit prices for base bid quantities listed in Section 01210 are discussed in this section. The completed Unit Price Form found at the end of this section is to be included with the submitted Schedule of Values.
 26. Section 01290 – Payment Procedures. AIA Documents G702 and G703 are to be used for payment applications.
 27. Section 01330 – Submittal Procedures. Requirements for submittals are described in this section. A transmittal form and submittal checklist are included for the contractor's use.

28. Section 01400 – Quality Requirements. Requirements for contractor's and superintendent's qualifications are described in this section. Inspections of the work by Stafford are discussed in this section. Contractor will provide all necessary permits.
29. Section 01700 – Execution Requirements. Requirements for quality, installation, progress cleaning, etc. are covered in this section.
30. Section 01733 – Asbestos Products. Materials were sampled and tested by an independent laboratory and no asbestos was found in the roofing materials scheduled to be removed and discarded. No asbestos containing materials are to be incorporated into this work.
31. Section 01770 – Closeout Procedures. Requirements for closeout procedures are described in this section. A document checklist is included for the contractor's use. Contractor Warranty form is included in this section.
32. Section 06100 – Rough Carpentry. Work, including materials, associated with the carpentry is covered in this section.
33. Section 07000 – Roofing Preparation. Removals, deck repair, overflow scupper installation, etc. are covered in this section. Installation of new drains and leaders is covered in this section. Installation of new roof access ladders will be included in this section by addendum.
34. Section 07540 – Thermoplastic Membrane Roofing. Requirements for the work and materials associated with the thermoplastic membrane and insulation are covered in this section. Materials required for this work are described in this section. The System Schedule is included in this section.
35. Section 07620 – Sheet Metal Flashing and Trim. Requirements for the work and materials associated with the sheet metal flashing are covered in this section. The sheet metal schedule is included in this section and contains sheet metal types and gauges.

There being no further questions or comments the meeting was adjourned. A walk-through of both facilities was performed. All attendees are requested to notify the undersigned of any significant changes or omissions.

Respectfully,

Stafford Consulting Engineers



Jeff H. Poe Jr., EI
Project Manager



Alex W. Montgomery, PE RRO
Project Manager