



JUMPER CARTER SEASE/ARCHITECTS, P.A.
412 MEETING STREET, WEST COLUMBIA, SOUTH CAROLINA 29169
(803) 791-1020 (803) 791-1022 FAX

UNIVERSITY OF SOUTH CAROLINA

NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING

USC PROJECT NO: H27-I851-A
JCS PROJECT NO: 11104

ADDENDUM 01 June 1, 2012

GENERAL:

1. Revise project number on all documents and drawings to read "H27-I851-A".
2. The meeting minutes from the Pre-Bid Conference on May 23, 2012, are included in this addendum.
3. See attached addendum documents provided by Sims Group Engineers for revisions to fire alarm design.
4. See attached HazMat Survey provided by USC for report of asbestos-containing materials for this building. All penetrations through asbestos-containing materials shall be marked by the contractor for removal by USC under separate contract.

SPECIFICATIONS:

1. **SE310 – Request for Advertisement/Invitation For Bids.** Revise Construction Cost Range to read "\$100,000 to \$300,000".
2. **SE 330 – Standard Bid Form.** Replace form in its entirety with the attached revised form, with revised project number.
3. **SE 355 – Performance Bond.** Replace form in its entirety with the attached revised form, with revised project number.
4. **SE 357 – Labor and Material Payment Bond.** Replace form in its entirety with the attached revised form, with revised project number.

END OF ADDENDUM

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NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING

UNIVERSITY OF SOUTH CAROLINA

**USC PROJECT NO: H27-I851-A
JCS PROJECT NO: 11104**

**PRE-BID CONFERENCE MINUTES
MAY 23, 2012, 2:00 pm**

1. The Pre-Bid Conference is non-mandatory.
2. Bids will be due Wednesday, June 6, 2012, at 2:00 pm at 743 Greene St, Columbia SC. Bids received after that time will not be accepted. Contact Juaquana Brookins at USC (803)-777-3596 if bids will be delivered other than in person (by mail, etc.).
3. All testing and special inspections will be provided by Owner's testing agency.
4. All bids must be submitted on SE-330 Bid Form as provided in the project manual. A bid bond will be required with the bid.
5. There is currently a single base bid required on the bid form.
6. There are no unit prices required on the bid form.
7. There are no subcontractors required to be listed on the bid form.
8. There will be at least one addendum issued for this project. The final addendum will be issued by Friday, June 1, 2012.
9. A brief description of the project was given by the electrical engineer (Brian Boan, Sims Group Engineers).
10. The building is occupied by students and staff. No fraternization or contact with students or staff will be allowed.
11. The building is open during normal business hours, but not all spaces are unlocked. The contractor may arrange a site visit with the USC project manager, Pete Fisher at (803) 777-9346.
12. Toilets facilities in the building will be made available to the contractors.

END OF MINUTES

**SE-330 – LUMP SUM BID
BID FORM**

Bidders shall submit bids on only Bid Form SE-330.

BID SUBMITTED BY: _____
(Bidder's Name)

BID SUBMITTED TO: University of South Carolina
(Owner's Name)

FOR PROJECT: PROJECT NAME New Fire Alarm System for James F. Byrnes Building
PROJECT NUMBER H27-1851-A

OFFER

§ 1. In response to the Invitation for Construction Bids and in compliance with the Instructions to Bidders for the above-named Project, the undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into a Contract with the Owner on the terms included in the Bidding Documents, and to perform all Work as specified or indicated in the Bidding Documents, for the prices and within the time frames indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

§ 2. Pursuant to Section 11-32-3030(1) of the SC Code of Laws, as amended, Bidder has submitted Bid Security as follows in the amount and form required by the Bidding Documents:

- Bid Bond with Power of Attorney Electronic Bid Bond Cashier's Check

(Bidder check one)

§ 3. Bidder acknowledges the receipt of the following Addenda to the Bidding Documents and has incorporated the effects of said Addenda into this Bid:

ADDENDUM No: _____

§ 4. Bidder accepts all terms and conditions of the Invitation for Bids, including, without limitation, those dealing with the disposition of Bid Security. Bidder agrees that this Bid, including all Bid Alternates, if any, may not be revoked or withdrawn after the opening of bids, and shall remain open for acceptance for a period of 60 Days following the Bid Date, or for such longer period of time that Bidder may agree to in writing upon request of the Owner.

§ 5. Bidder herewith offers to provide all labor, materials, equipment, tools of trades and labor, accessories, appliances, warranties and guarantees, and to pay all royalties, fees, permits, licenses and applicable taxes necessary to complete the following items of construction work:

§ 6.1 BASE BID WORK *(as indicated in the Bidding Documents and generally described as follows):* Project includes installation of new fire alarm system for the James F. Byrnes Building per the contract documents. The existing system will remian in place and functional while the new system is installed, then demolished. Small and minority participation is encouraged.

_____, which sum is hereafter called the Base Bid.

(Bidder - insert Base Bid Amount on line above)

**SE-330 – LUMP SUM BID
BID FORM**

§ 6.2 BID ALTERNATES - as indicated in the Bidding Documents and generally described as follows:

ALTERNATE # 1 (Brief Description): _____

ADD TO or **DEDUCT FROM BASE BID:** _____

(Bidder to Mark appropriate box to clearly indicate the price adjustment offered for each alternate)

ALTERNATE # 2 (Brief Description): _____

ADD TO or **DEDUCT FROM BASE BID:** _____

(Bidder to Mark appropriate box to clearly indicate the price adjustment offered for each alternate)

ALTERNATE # 3 (Brief Description): _____

ADD TO or **DEDUCT FROM BASE BID:** _____

(Bidder to Mark appropriate box to clearly indicate the price adjustment offered for each alternate)

SE-330 – LUMP SUM BID

BID FORM

§ 7. LISTING OF PROPOSED SUBCONTRACTORS PURSUANT TO SECTION 3020(b)(i), CHAPTER 35, TITLE 11 OF THE SOUTH CAROLINA CODE OF LAWS, AS AMENDED – (See *Instructions on the following page BF-4A*)

Bidder shall use the below-listed Subcontractors in the performance of the Subcontractor Specialty work listed:

SUBCONTRACTOR SPECIALTY By License Classification and/or Subclassification (Completed by Owner)	SUBCONTRACTOR'S PRIME CONTRACTOR'S NAME (Must be completed by Bidder) BASE BID	SUBCONTRACTOR'S PRIME CONTRACTOR'S SC LICENSE NUMBER
ALTERNATE 1		
ALTERNATE 2		
ALTERNATE 3		

If a Bid Alternate is accepted, Subcontractors listed for the Bid Alternate shall be used for the work of both the Alternate and the Base Bid work.

**SE-330 – LUMP SUM BID
BID FORM****INSTRUCTIONS FOR
SUBCONTRACTOR LISTING**

1. Section 7 of the Bid Form sets forth a list of subcontractor specialties for which bidder is required to identify by name the subcontractor(s) Bidder will use to perform the work of each listed specialty. Bidder must identify only the subcontractor(s) who will perform the work and no others.
2. For purposes of subcontractor listing, a Subcontractor is an entity who will perform work or render service to the prime contractor to or about the construction site. Material suppliers, manufacturers, and fabricators that will not perform physical work at the site of the project but will only supply materials or equipment to the bidder or proposed subcontractor(s) are not subcontractors and Bidder should not insert their names in the spaces provided on the bid form. Likewise, Bidder should not insert the names of sub-subcontractors in the spaces provided on the bid form but only the names of those entities with which bidder will contract directly.
3. Bidder must only insert the names of subcontractors who are qualified to perform the work of the listed specialties as specified in the Bidding Documents and South Carolina Licensing Laws.
4. If under the terms of the Bidding Documents, Bidder is qualified to perform the work of a specialty listed and Bidder does not intend to subcontract such work but to use Bidder's own employees to perform such work, the Bidder must insert its own name in the space provided for that specialty.
5. If Bidder intends to use multiple subcontractors to perform the work of a single specialty listing, Bidder must insert the name of each subcontractor Bidder will use, preferably separating the name of each by the word **“and”**. If Bidder intends to use both his own employees to perform a part of the work of a single specialty listing and to use one or more subcontractors to perform the remaining work for that specialty listing, bidder must insert his own name and the name of each subcontractor, preferably separating the name of each with the word **“and”**.
6. Bidder may not list subcontractors in the alternative nor in a form that may be reasonably construed at the time of bid opening as a listing in the alternative. A listing that requires subsequent explanation to determine whether or not it is a listing in the alternative is non-responsive. If bidder intends to use multiple entities to perform the work for a single specialty listing, bidder must clearly set forth on the bid form such intent. Bidder may accomplish this by simply inserting the word **“and”** between the name of each entity listed for that specialty. Owner will reject as non-responsive a listing that contains the names of multiple subcontractors separated by a blank space, the word **“or”**, a virgule (that is a /), or any separator that the Owner may reasonably interpret as a listing in the alternative.
7. If Bidder is awarded the contract, bidder must, except with the approval of the owner for good cause shown, use the listed entities to perform the work for which they are listed.
8. If bidder is awarded the contract, bidder will not be allowed to substitute another entity as subcontractor in place of a subcontractor listed in Section 7 of the Bid except for one or more of the reasons allowed by the SC Code of Laws.
9. Bidder's failure to insert a name for each listed specialty subcontractor will render the Bid non-responsive.

**SE-330 – LUMP SUM BID
BID FORM**

§ 8. LIST OF MANUFACTURERS, MATERIAL SUPPLIERS, AND SUBCONTRACTORS OTHER THAN SUBCONTRACTORS LISTED IN SECTION 7 ABOVE (FOR INFORMATION ONLY): Pursuant to instructions in the Invitation for Bids, if any, Bidder will provide to Owner upon the Owner’s request and within 24 hours of such request, a listing of manufacturers, material suppliers, and subcontractors, other than those listed in Section 7 above, that Bidder intends to use on the project. Bidder acknowledges and agrees that this list is provided for purposes of determining responsibility and not pursuant to the subcontractor listing requirements of SC Code Ann § 11-35-3020(b)(i).

§ 9. TIME OF CONTRACT PERFORMANCE AND LIQUIDATED DAMAGES

a. **CONTRACT TIME:** Bidder agrees that the Date of Commencement of the Work shall be established in a Notice to Proceed to be issued by the Owner. Bidder agrees to substantially complete the Work within **180** calendar days from the Date of Commencement, subject to adjustments as provided in the Contract Documents.

b. **LIQUIDATED DAMAGES:** Bidder further agrees that from the compensation to be paid, the Owner shall retain as Liquidated Damages the sum of **\$250.00** for each calendar day the actual construction time required to achieve Substantial Completion exceeds the specified or adjusted time for Substantial Completion as provided in the Contract Documents. This sum is intended by the parties as the predetermined measure of compensation for actual damages, not as a penalty for nonperformance.

§ 10. AGREEMENTS

- a. Bidder agrees that this bid is subject to the requirements of the law of the State of South Carolina.
- b. Bidder agrees that at any time prior to the issuance of the Notice to Proceed for this Project, this Project may be canceled for the convenience of, and without cost to, the State.
- c. Bidder agrees that neither the State of South Carolina nor any of its agencies, employees or agents shall be responsible for any bid preparation costs, or any costs or charges of any type, should all bids be rejected or the Project canceled for any reason prior to the issuance of the Notice to Proceed.

§ 11. ELECTRONIC BID BOND

By signing below, the Principal is affirming that the identified electronic bid bond has been executed and that the Principal and Surety are firmly bound unto the State of South Carolina under the terms and conditions of the AIA Document A310, Bid Bond, included in the Bidding Documents.

Electronic Bid Bond Number: _____

Signature and Title: _____

**SE-330 – LUMP SUM BID
BID FORM**

BIDDER'S TAXPAYER IDENTIFICATION

FEDERAL EMPLOYER'S IDENTIFICATION NUMBER: _____

OR

SOCIAL SECURITY NUMBER: _____

CONTRACTOR'S CLASSIFICATIONS AND SUBCLASSIFICATIONS WITH LIMITATIONS

Classification(s) & Limits: _____

Subclassification(s) & Limits: _____

SC Contractor's License Number(s): _____

BY SIGNING THIS BID, THE PERSON SIGNING REAFFIRMS ALL REPRESENTATIONS AND CERTIFICATIONS MADE BY BOTH THE PERSON SIGNING AND THE BIDDER, INCLUDING WITHOUT LIMITATION, THOSE APPEARING IN ARTICLE 2 OF THE INSTRUCTIONS TO BIDDER. THE INVITATION FOR BIDS, AS DEFINED IN THE INSTRUCTIONS TO BIDDERS, IS EXPRESSLY INCORPORATE BY REFERENCE.

SIGNATURE

BIDDER'S LEGAL NAME: _____

ADDRESS: _____

BY: _____
(Signature)

DATE: _____

TITLE: _____

TELEPHONE: _____

EMAIL: _____

Performance Bond

KNOW ALL MEN BY THESE PRESENTS, that *(Insert full name or legal title and address of Contractor)*

Name: _____
Address: _____

hereinafter referred to as "Contractor", and *(Insert full name and address of principal place of business of Surety)*

Name: _____
Address: _____

hereinafter called the "surety", are jointly and severally held and firmly bound unto *(Insert full name and address of Agency)*

Name: _____
Address: _____

hereinafter referred to as "Agency", or its successors or assigns, the sum of _____ (\$ _____), being the sum of the Bond to which payment to be well and truly made, the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Contractor has by written agreement dated _____ entered into a contract with Agency to construct

State Project Name: New Fire Alarm System for James F. Byrnes Building

State Project Number: H27-I851-A

Brief Description of Awarded Work, as found on the SE-330, Bid Form: Project includes installation of new fire alarm system for the James F. Byrnes Building per the contract documents. The existing system will remian in place and functional while the new system is installed, then demolished. Small and minority participation is encouraged.

in accordance with Drawings and Specifications prepared by *(Insert full name and address of A/E)*

Name: Jumper Carter Sease Architects
Address: 412 Meeting Street
West Columbia, SC 29169

which agreement is by reference made a part hereof, and is hereinafter referred to as the Contract.

IN WITNESS WHEREOF, Surety and Contractor, intending to be legally bound hereby, subject to the terms stated herein, do each cause this Performance Bond to be duly executed on its behalf by its authorized officer, agent or representative.

DATED this _____ day of _____, 2_____, BOND NUMBER _____
(shall be no earlier than Date of Contract)

CONTRACTOR

SURETY

By: _____
(Seal)

By: _____
(Seal)

Print Name: _____

Print Name: _____

Print Title: _____

Print Title: _____
(Attach Power of Attorney)

Witness: _____

Witness: _____

(Additional Signatures, if any, appear on attached page)

Performance Bond

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH THAT:

1. The Contractor and the Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Agency for the full and faithful performance of the contract, which is incorporated herein by reference

2. If the Contractor performs the contract, the Surety and the Contractor have no obligation under this Bond, except to participate in conferences as provided in paragraph 3.1.

3. The Surety's obligation under this Bond shall arise after:

3.1 The Agency has notified the Contractor and the Surety at the address described in paragraph 10 below, that the Agency is considering declaring a Contractor Default and has requested and attempted to arrange a conference with the Contractor and the Surety to be held not later than 15 days after receipt of such notice to discuss methods of performing the Contract. If the Agency, the Contractor and the Surety agree, the Contractor shall be allowed a reasonable time to perform the Contract, but such an agreement shall not waive the Agency's right, if any, subsequently to declare a Contractor Default; or

3.2 The Agency has declared a Contractor Default and formally terminated the Contractor's right to complete the Contract.

4. The Surety shall, within 15 days after receipt of notice of the Agency's declaration of a Contractor Default, and at the Surety's sole expense, take one of the following actions:

4.1 Arrange for the Contractor, with consent of the Agency, to perform and complete the Contract; or

4.2 Undertake to perform and complete the Contract itself, through its agents or through independent contractors; or

4.3 Obtain bids or negotiated proposals from qualified contractors acceptable to the Agency for a contract for performance and completion of the Contract, arrange for a contract to be prepared for execution by the Agency and the contractor selected with the Agency's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the Bonds issued on the Contract, and pay to the Agency the amount of damages as described in paragraph 7 in excess of the Balance of the Contract Sum incurred by the Agency resulting from the Contractor Default; or

4.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor, and:

4.4.1 After investigation, determine the amount for which it may be liable to the Agency and, within 60 days of waiving its rights under this paragraph, tender payment thereof to the Agency; or

4.4.2 Deny liability in whole or in part and notify the Agency, citing the reasons therefore.

5. Provided Surety has proceeded under paragraphs 4.1, 4.2, or 4.3, the Agency shall pay the Balance of the Contract Sum to either:

5.1 Surety in accordance with the terms of the Contract; or

5.2 Another contractor selected pursuant to paragraph 4.3 to perform the Contract.

5.3 The balance of the Contract Sum due either the Surety or another contractor shall be reduced by the amount of damages as described in paragraph 7.

6. If the Surety does not proceed as provided in paragraph 4 with reasonable promptness, the Surety shall be deemed to be in default on this Bond 15 days after receipt of written notice from the Agency to the Surety demanding that the Surety perform its obligations under this Bond, and the Agency shall be entitled to enforce any remedy available to the Agency.

6.1 If the Surety proceeds as provided in paragraph 4.4, and the Agency refuses the payment tendered or the Surety has denied liability, in whole or in part, then without further notice the Agency shall be entitled to enforce any remedy available to the Agency.

6.2 Any dispute, suit, action or proceeding arising out of or relating to this Bond shall be governed by the Dispute Resolution process defined in the Contract Documents and the laws of the State of South Carolina.

7. After the Agency has terminated the Contractor's right to complete the Contract, and if the Surety elects to act under paragraph 4.1, 4.2, or 4.3 above, then the responsibilities of the Surety to the Agency shall be those of the Contractor under the Contract, and the responsibilities of the Agency to the Surety shall those of the Agency under the Contract. To a limit of the amount of this Bond, but subject to commitment by the Agency of the Balance of the Contract Sum to mitigation of costs and damages on the Contract, the Surety is obligated to the Agency without duplication for:

7.1 The responsibilities of the Contractor for correction of defective Work and completion of the Contract; and

7.2 Additional legal, design professional and delay costs resulting from the Contractor's Default, and resulting from the actions or failure to act of the Surety under paragraph 4; and

7.3 Damages awarded pursuant to the Dispute Resolution Provisions of the Contract. Surety may join in any Dispute Resolution proceeding brought under the Contract and shall be bound by the results thereof; and

7.4 Liquidated Damages, or if no Liquidated Damages are specified in the Contract, actual damages caused by delayed performance or non-performance of the Contractor.

8. The Surety shall not be liable to the Agency or others for obligations of the Contractor that are unrelated to the Contract, and the Balance of the Contract Sum shall not be reduced or set-off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the Agency or its heirs, executors, administrators, or successors.

9. The Surety hereby waives notice of any change, including changes of time, to the contract or to related subcontracts, purchase orders and other obligations.

10. Notice to the Surety, the Agency or the Contractor shall be mailed or delivered to the address shown on the signature page.

11. Definitions

11.1 Balance of the Contract Sum: The total amount payable by the Agency to the Contractor under the Contract after all proper adjustments have been made, including allowance to the Contractor of any amounts to be received by the Agency in settlement of insurance or other Claims for damages to which the Contractor is entitled, reduced by all valid and proper payments made to or on behalf of the Contractor under the Contract.

11.2 Contractor Default: Failure of the Contractor, which has neither been remedied nor waived, to perform the Contract or otherwise to comply with the terms of the Contract.

SE-357
Labor and Material Payment Bond

KNOW ALL MEN BY THESE PRESENTS, that *(Insert full name or legal title and address of Contractor)*

Name: _____
Address: _____

hereinafter referred to as "Contractor", and *(Insert full name and address of principal place of business of Surety)*

Name: _____
Address: _____

hereinafter called the "surety", are jointly and severally held and firmly bound unto *(Insert full name and address of Agency)*

Name: _____
Address: _____

hereinafter referred to as "Agency", or its successors or assigns, the sum of _____ (\$ _____), being the sum of the Bond to which payment to be well and truly made, the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Contractor has by written agreement dated _____ entered into a contract with Agency to construct

Project Name: New Fire Alarm System for James F. Byrnes Building
Project Number: H27-1851-A
Brief Description of Awarded Work, as found on the SE-330, Bid Form: Project includes installation of new fire alarm system for the James F. Byrnes Building per the contract documents. The existing system will remian in place and functional while the new system is installed, then demolished. Small and minority participation is encouraged.

in accordance with Drawings and Specifications prepared by *(Insert full name and address of A/E)*

Name: Jumper Carter Sease Architects
Address: 412 Meeting Street
West Columbia, SC 29169

which agreement is by reference made a part hereof, and is hereinafter referred to as the Contract.

IN WITNESS WHEREOF, Surety and Contractor, intending to be legally bound hereby, subject to the terms stated herein, do each cause this Labor and Material Payment Bond to be duly executed on its behalf by its authorized officer, agent or representative.

DATED this _____ day of _____, 2_____, BOND NUMBER _____
(shall be no earlier than Date of Contract)

CONTRACTOR

SURETY

By: _____
(Seal)

By: _____
(Seal)

Print Name: _____

Print Name: _____

Print Title: _____

Print Title: _____
(Attach Power of Attorney)

Witness: _____

Witness: _____

(Additional Signatures, if any, appear on attached page)

SE-357**Labor and Material Payment Bond****NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH THAT:**

1. The Contractor and the Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Agency to pay for all labor, materials and equipment required for use in the performance of the Contract, which is incorporated herein by reference.
2. With respect to the Agency, this obligation shall be null and void if the Contractor:
 - 2.1 Promptly makes payment, directly or indirectly, for all sums due Claimants; and
 - 2.2 Defends, indemnifies and holds harmless the Agency from all claims, demands, liens or suits by any person or entity who furnished labor, materials or equipment for use in the performance of the Contract.
3. With respect to Claimants, this obligation shall be null and void if the Contractor promptly makes payment, directly or indirectly, for all sums due.
4. With respect to Claimants, and subject to the provisions of Title 29, Chapter 5 and the provisions of §11-35-3030(2)(c) of the SC Code of Laws, as amended, the Surety's obligation under this Bond shall arise as follows:
 - 4.1 Every person who has furnished labor, material or rental equipment to the Contractor or its subcontractors for the work specified in the Contract, and who has not been paid in full therefore before the expiration of a period of ninety (90) days after the date on which the last of the labor was done or performed by him or material or rental equipment was furnished or supplied by him for which such claim is made, shall have the right to sue on the payment bond for the amount, or the balance thereof, unpaid at the time of institution of such suit and to prosecute such action for the sum or sums justly due him.
 - 4.2 A remote claimant shall have a right of action on the payment bond upon giving written notice by certified or registered mail to the Contractor within ninety (90) days from the date on which such person did or performed the last of the labor or furnished or supplied the last of the material or rental equipment upon which such claim is made.
 - 4.3 Every suit instituted upon a payment bond shall be brought in a court of competent jurisdiction for the county or circuit in which the construction contract was to be performed, but no such suit shall be commenced after the expiration of one year after the day on which the last of the labor was performed or material or rental equipment was supplied by the person bringing suit.
5. When the Claimant has satisfied the conditions of paragraph 4, the Surety shall promptly and at the Surety's expense take the following actions:
 - 5.1 Send an answer to the Claimant, with a copy to the Agency, within sixty (60) days after receipt of the claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed.
 - 5.2 Pay or arrange for payment of any undisputed amounts.
 - 5.3 The Surety's failure to discharge its obligations under this paragraph 5 shall not be deemed to constitute a waiver of defenses the Surety or Contractor may have or acquire as to a claim. However, if the Surety fails to discharge its obligations under this paragraph 5, the Surety shall indemnify the Claimant for the reasonable attorney's fees the Claimant incurs to recover any sums found to be due and owing to the Claimant.
6. Amounts owed by the Agency to the Contractor under the

Contract shall be used for the performance of the Contract and to satisfy claims, if any, under any Performance Bond. By the Contractor furnishing and the Agency accepting this Bond, they agree that all funds earned by the contractor in the performance of the Contract are dedicated to satisfy obligations of the Contractor and the Surety under this Bond, subject to the Agency's prior right to use the funds for the completion of the Work.

7. The Surety shall not be liable to the Agency, Claimants or others for obligations of the Contractor that are unrelated to the Contract. The Agency shall not be liable for payment of any costs or expenses of any claimant under this bond, and shall have under this Bond no obligations to make payments to, give notices on behalf of, or otherwise have obligations to Claimants under this Bond.

8. The Surety hereby waives notice of any change, including changes of time, to the Contract or to related Subcontracts, purchase orders and other obligations.

9. Notice to the Surety, the Agency or the Contractor shall be mailed or delivered to the addresses shown on the signature page. Actual receipt of notice by Surety, the Agency or the contractor, however accomplished, shall be sufficient compliance as of the date received at the address shown on the signature page.

10. By the Contractor furnishing and the Agency accepting this Bond, they agree that this Bond has been furnished to comply with the statutory requirements of the South Carolina Code of Laws, as amended, and further, that any provision in this Bond conflicting with said statutory requirements shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory Bond and not as a common law bond.

11. Upon request of any person or entity appearing to be a potential beneficiary of this bond, the Contractor shall promptly furnish a copy of this Bond or shall permit a copy to be made.

12. Any dispute, suit, action or proceeding arising out of or relating to this Bond shall be governed by the laws of the State of South Carolina.

13. DEFINITIONS

13.1 Claimant: An individual or entity having a direct contract with the Contractor or with a Subcontractor of the Contractor to furnish labor, materials, or equipment for use in the performance of the Contract. The intent of this Bond shall be to include without limitation in the terms "labor, materials or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental equipment used in the Contract, architectural and engineering services required for performance of the Work of the Contractor and the Contractor's Subcontractors, and all other items for which a mechanic's lien might otherwise be asserted.

13.2 Remote Claimant: A person having a direct contractual relationship with a subcontractor of the Contractor or subcontractor, but no contractual relationship expressed or implied with the Contractor.

13.3 Contract: The agreement between the Agency and the Contractor identified on the signature page, including all Contract Documents and changes thereto.



800 Columbiana Drive, Suite 208 • Irmo, SC • 29063 • 803-765-1007 • www.simgroupusa.com

NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING
ELECTRICAL ITEMS - ADDENDUM NO. 1
June 1, 2012

This addendum modifies the Contract Documents only in the manner and to the extent stated herein and shown on any accompanying drawings and will become a part of the Contract Documents. Except as specified or otherwise indicated by this addendum, all work shall be in accordance with the basic requirements of the Contract Documents.

SPECIFICATIONS:

1. **SECTION 283100 - FIRE ALARM SYSTEMS:**

- Section 2-01 Acceptable Manufacturers: Add the following to list of approved manufacturers:
 1. Edwards/EST – EST 3 Series

DRAWINGS:

2. **SHEET E001:**

- See attached drawing for Revision 2, dated 5/31/12 for addition of Mass Communication requirements and installations.

QUESTIONS/CLARIFICATIONS:

1. *Will evacuation on Alarm be general for the entire building or Floor above and Below?*

Per USC Fire Department, unless instructed otherwise during programming stage, alarm shall be general for the entire building.

2. *On the 4th Floor there is no access above ceiling tile due to sheet rock installation. Will this floor be all exposed WireMold Raceway?*

In all areas where conduit cannot be concealed above ceiling or in walls (except for storage rooms, electrical rooms, basement, etc), Fire Alarm wiring shall be concealed in Wiremold (or equal) surface mounted raceway. Locations will be coordinated in the field.

Each Bidder shall acknowledge receipt of this Addendum and all other Addenda on his bid form.

FIRE ALARM SYSTEM NOTES

1. ALL FIRE ALARM SYSTEM WIRING SHALL BE RUN ABOVE GRADE IN WALLS AND ABOVE CEILING IN METAL RACEWAYS. RACEWAYS SHALL BE RUN CONCEALED WHERE PRACTICAL. FIRE ALARM WIRING MAY NOT BE RUN UNDERGROUND OR IN SLAB UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
2. VERIFY WIRING REQUIREMENTS WITH EQUIPMENT MFR PRIOR TO ROUGH-IN AND INSTALL ACCORDINGLY. NOTIFICATION APPLIANCE CIRCUITS SHALL BE RUN AS REQ'D TO PROVIDE A 3-PULSE TEMPORAL AUDIBLE SIGNAL WITHOUT COMPROMISING THE OPERATION OF THE STROBES.
3. PROVIDE SYNCHRONIZATION OF ALL STROBE LIGHTS.
4. FIRE ALARM SYSTEM TO BE CLASS B SUPERVISED SYSTEM (STYLE B INITIATING DEVICE CIRCUITS, STYLE 4 SIGNALING LINE CIRCUITS, CLASS B NOTIFICATION APPLIANCE CIRCUITS). FURNISH & INSTALL END-OF-LINE RESISTORS WHERE REQ'D. ONLY SPLICES ALLOWED ARE TO BE LOCATED IN RISER BOXES ONLY. SPLICES SHALL BE MADE WITH THE USE OF WIRE TERMINALS AND NOT WIRE NUTS.
5. EQUIPMENT SUPPLIER SHALL SUBMIT SHOP DRAWINGS INDICATING EXACT ROUTING OF RACEWAYS AND NUMBER AND SIZE OF CONDUCTORS IN RACEWAYS FOR THE FIRE ALARM SYSTEM. THE ELECTRICAL CONTRACTOR SHALL USE THE REVIEWED DRAWING FOR ROUGH-IN OF FIRE ALARM SYSTEM RACEWAYS AND OUTLET BOXES.
6. SMOKE DETECTORS SHALL BE LOCATED AS NEAR THE CENTER OF THE ROOM AS PRACTICAL. DO NOT LOCATE ANY DETECTOR WITHIN 3'-FT. OF GRILLE. PROVIDE AUXILIARY CONTACT ON SMOKE DETECTORS LOCATED IN CORRIDORS AT SMOKE DOORS. WIRE MAGNETIC DOOR HOLDERS THRU AUXILIARY CONTACT TO RELEASE DOOR WHEN THOSE DETECTORS ARE ACTUATED. SMOKE DETECTORS SHALL BE PROGRAMMED FOR A 60 SECOND VERIFICATION BEFORE GOING INTO ALARM.
7. DUCT DETECTORS SHALL BE FURNISHED BY THE FIRE ALARM SYSTEM SUPPLIER AND INSTALLED BY A QUALIFIED HVAC TECHNICIAN UNDER DIVISION 28. FIRE ALARM SYSTEM WIRING WILL BE FURNISHED & INSTALLED BY THE FIRE ALARM SYSTEM SUPPLIER UNDER DIVISION 28. HVAC CONTROL WIRING WILL BE FURNISHED & INSTALLED BY THE MECHANICAL CONTRACTOR UNDER DIVISION 28. PROVIDE AUXILIARY CONTACT WITH EACH DUCT DETECTOR FOR USE BY HVAC CONTROLS.

DUCT DETECTORS TO BE LOCATED AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE THE LOCATION OF EACH DUCT DETECTOR IN THE FIELD WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN TO INSURE COMPLIANCE WITH THE MANUFACTURER'S REQUIREMENTS.

PROVIDE DOCUMENTATION OF DUCT DETECTOR TESTING PER NFPA 72, 2010 EDITION TABLE 10.4.2.2-14(G)(4). AIR DUCT DETECTORS SHALL BE TESTED/INSPECTED TO ENSURE THAT THE DEVICE WILL SAMPLE THE AIRSTREAM. THE TEST SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS.

8. LOCATE MANUAL PULL STATIONS WITHIN 5'-0" OF THE EXIT DOOR PER NFPA AND IBC REQUIREMENTS. PROVIDE ANY SPECIAL ADAPTER PLATES OR COVER PLATES REQ'D TO MOUNT PULL STATIONS IN DOOR MULLIONS WHERE APPLICABLE.
9. EACH SPEAKER/STROBE LOCATED AT THE END OF A CORRIDOR MUST BE WITHIN 15'-0" OF THE END WALL PER NFPA 72, 2010 EDITION. HORN/STROBES IN CLASSROOMS AND OFFICES MUST BE LOCATED TO COMPLY WITH TABLE 7.5.4.3.1(a) & TABLE 7.5.4.3.1(b) OF NFPA 72. DO NOT ADJUST LOCATIONS OF HORN/STROBES WITHOUT CONSULTING WITH THE ENGINEER AND OBTAINING WRITTEN PERMISSION.
10. FIELD VERIFY LOCATION OF FIRE ALARM PANEL "FAC" AND/OR REMOTE FIRE ALARM ANNUCIATOR "FAA" WITH OWNER AND AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN.
11. IN ADDITION TO SMOKE DETECTORS SHOWN, CONTRACTOR WILL BE REQUIRED TO FURNISH & INSTALL SMOKE DETECTORS IN ALL ROOMS WITH FIRE ALARM POWER SUPPLIES AND POWER BOOSTERS. IN ADDITION TO 120V CIRCUITS SHOWN, CONTRACTOR SHALL BE REQUIRED TO FURNISH & INSTALL ANY 120V CIRCUITS NECESSARY TO PROVIDE A COMPLETE AND OPERABLE FIRE ALARM SYSTEM.
12. ADDITIONAL FIRE ALARM DEVICES: THE ELECTRICAL CONTRACTOR AND FIRE ALARM SYSTEM INSTALLER SHALL FURNISH AND INSTALL ADDITIONAL FIRE ALARM DEVICES AT THE DISCRETION OF THE ARCHITECT/ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION IN THE FOLLOWING QUANTITIES:
 - (4) SPEAKER/STROBE LIGHTS
 - (4) STROBE LIGHTS
 - (6) DUCT MOUNTED SMOKE DETECTORS
 - (2) MANUAL PULL STATIONS
 - (4) CEILING MOUNTED SMOKE OR HEAT DETECTORS
 - (6) FIRE/SMOKE DAMPER CONNECTIONS WITH REMOTE INDICATORS.

INCLUDE COMPLETE COSTS TO FURNISH AND INSTALL THE ABOVE ADDITIONAL DEVICES IN BASE BID, INCLUDING ALL CONDUIT, OUTLET BOXES, 120V POWER, WIRING, AND SYSTEM PROGRAMMING. ANY DEVICES NOT USED SHALL BE TURNED OVER TO THE OWNER AS SPARE DEVICES AT THE END OF THE PROJECT.

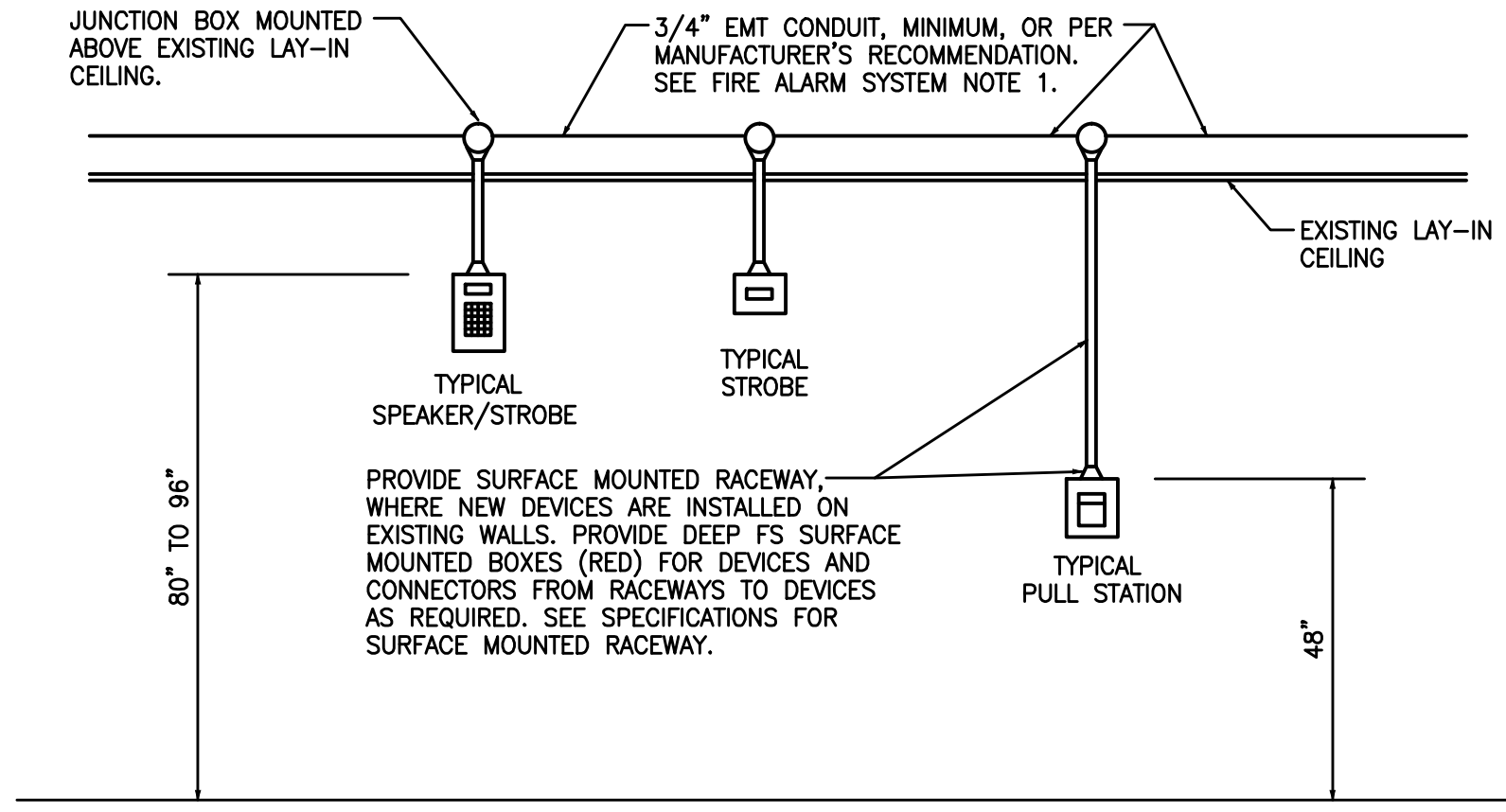
13. FACP PANEL AND DIGITAL VOICE COMMAND CENTER SHALL BE CAPABLE OF ADDING ASI MASS NOTIFICATION SYSTEM COMPONENTS TO THE PANEL. SUPPLY ALL NECESSARY COMMUNICATION CARDS AND SYSTEM COMPONENTS FOR ADDITION OF THIS SYSTEM BY THE UNIVERSITY UNDER THIS PROJECT. CONTRACTOR SHALL COORDINATE INSTALLATION WITH RADIO COMMUNICATION SERVICE - CONTACT: DAVID WHITE @ 803-773-9743 AND VINNY BOCCINO @ 803-931-2951. THIS COORDINATION SHALL OCCUR PRIOR TO STARTING WORK

FIRE ALARM SYMBOLS

	FIRE ALARM CONTROL PANEL OR REMOTE ANNUCIATOR.
	FIRE ALARM REMOTE ANNUCIATOR.
	FIRE ALARM MANUAL PULL STATION. 48" AFF.
	FIRE ALARM SPEAKER AND FLASHING LIGHT, CANDELA RATING AS NOTED. MOUNT BETWEEN 80" AND 96" AFF PER NFPA 72 AND ADA REQ'TS.
	SAME AS ABOVE, EXCEPT CEILING MOUNTED SPEAKER AND FLASHING LIGHT.
	FIRE ALARM FLASHING LIGHT, CANDELA RATING AS NOTED. MOUNT BETWEEN 80" AND 96" AFF PER NFPA 72 AND ADA REQ'TS.
	SAME AS ABOVE, EXCEPT CEILING MOUNTED FLASHING LIGHT.
	SMOKE DETECTOR. CEILING MOUNTED, UNLESS NOTED.
	HEAT DETECTOR. CEILING MOUNTED, UNLESS NOTED.
	DUCT MOUNTED SMOKE DETECTOR, FURNISHED & INSTALLED UNDER DIVISION 28. SEE ELECTRICAL SPECIFICATIONS AND DETAIL ON DRAWINGS FOR WIRING.
	FIRE ALARM MONITORING MODULE.
	FIRE ALARM CONTROL MODULE.
	FIRE / SMOKE DAMPER, FURNISHED & INSTALLED BY MECHANICAL CONTRACTOR, POWER WIRED BY ELECTRICAL CONTRACTOR. PROVIDE DUCT DETECTOR AS REQUIRED BY CODE AND AS SHOWN ON DRAWINGS. PROVIDE 120V CONNECTION AS REQUIRED.
	EXISTING WALL OR CEILING MOUNTED HORN/STROBE LIGHT TO BE REMOVED. SEE DEMOLITION PLANS.
	EXISTING WALL OR CEILING MOUNTED STROBE LIGHT TO BE REMOVED. SEE DEMOLITION PLANS.
	EXISTING CEILING MOUNTED SMOKE OR HEAT DETECTOR TO BE REMOVED. SEE DEMOLITION PLAN.
	EXISTING DUCT MOUNTED SMOKE DETECTOR TO BE REPLACED. SEE DEMOLITION PLANS.
	EXISTING MANUAL PULL STATION TO BE REMOVED/REPLACED. SEE DEMOLITION PLANS.

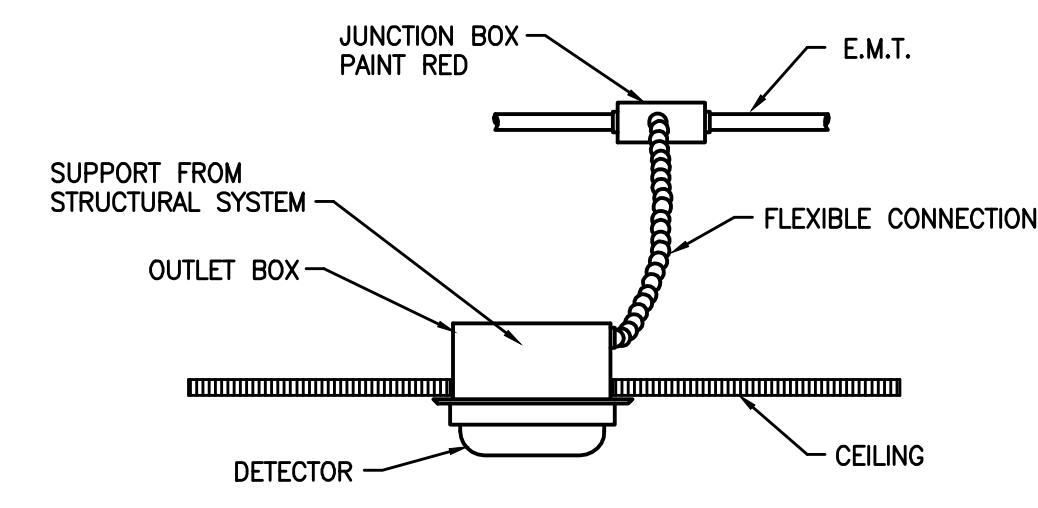
ELECTRICAL DEMOLITION NOTES

- FD1. THE EXISTING FIRE ALARM SYSTEM SHALL BE DEMOLISHED COMPLETELY AND A NEW SYSTEM INSTALLED. THE EXISTING FIRE ALARM SYSTEM MUST REMAIN COMPLETE AND OPERATIONAL DURING THE INSTALLATION OF THE NEW FIRE ALARM SYSTEM UNLESS SPECIFICALLY PHASED WITH THE OWNER AND OFFICE OF SCHOOL FACILITIES. ONCE NEW SYSTEM HAS BEEN INSTALLED, THE EXISTING SYSTEM CAN BE DEMOLISHED.
- FD2. IN ALL AREAS WHERE EXISTING FIRE ALARM DEVICES ARE BEING REMOVED, AND WHERE OTHER DEMOLITION WORK IS OCCURRING, REMOVE ALL EXISTING FIRE ALARM DEVICES AND OTHER RELATED EQUIPMENT NO LONGER IN USE, AND ALL WIRING AND CONDUIT NOT BEING REUSED. EXISTING CONDUIT RUN CONCEALED IN EXISTING WALLS NOT BEING REMOVED AND/OR REPLACED MAY BE ABANDONED. WHERE EXISTING DEVICES ARE SURFACE MOUNTED, THE EXISTING DEVICE, BOX, CONDUIT AND WIRE MUST BE REMOVED TO A POINT ABOVE THE FINISH CEILING AND THEN ABANDONED.



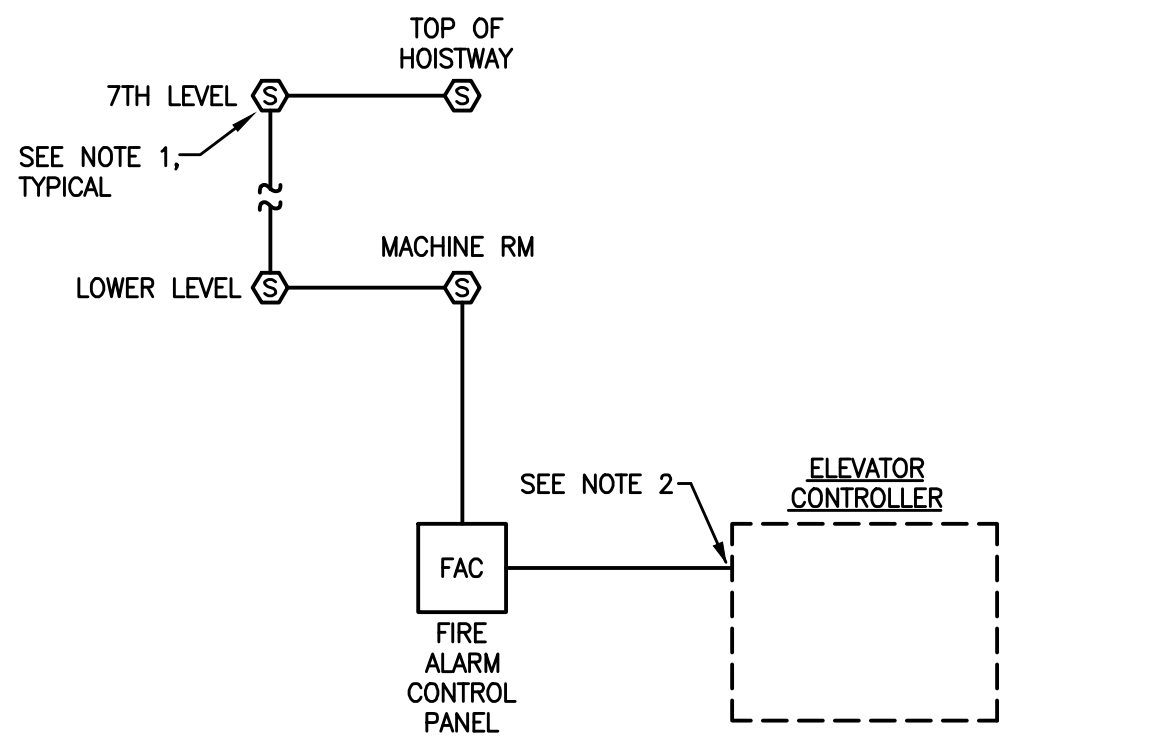
TYPICAL ELEVATIONS - NEW WALL MOUNTED DEVICES

NOT TO SCALE



SMOKE DETECTOR INSTALLATION DETAIL

NOT TO SCALE



ELEVATOR NOTES

1. LOCATE SMOKE DETECTORS IN LOBBIES AND MACHINE ROOM ON CEILING NEAR CENTER OF ROOM, 36" FROM ANY AIR VENT. INSTALL ON EACH FLOOR AS REQUIRED.
2. TIE IN FAC PANEL TO ELEVATOR CONTROLLER PER THE MFR'S RECOMMENDATIONS SO THAT ELEVATOR RECALL OCCURS UPON ACTIVATION OF THE LOBBY OR MACHINE ROOM DETECTORS. PROVIDE ALL RELAYS & CONTROL MODULES NECESSARY TO SEND THE ELEVATOR RECALL SIGNALS REQ'D BY ASME 17.1. COORDINATE WITH ELEVATOR SUPPLIER PRIOR TO STARTING WORK TO AVOID CONFLICTS.
3. REFER TO FIRE ALARM PLAN FOR ACTUAL WIRING OF DETECTORS.

ELEVATOR RETROFIT NOTES:

THE EXISTING ELEVATORS (TOTAL OF 3) SHALL BE RETROFITTED TO PROVIDE A FIREMAN SAFETY WARNING SYSTEM (FIRE HELMET/HAT) PER THE USC FIRE MARSHAL PER ANSI/ASME A17.1. THIS SYSTEM AND ASSOCIATED FA CIRCUITS WILL NEED TO BE PROVIDED IN EACH INDIVIDUAL HOISTWAY AND MACHINE ROOM.

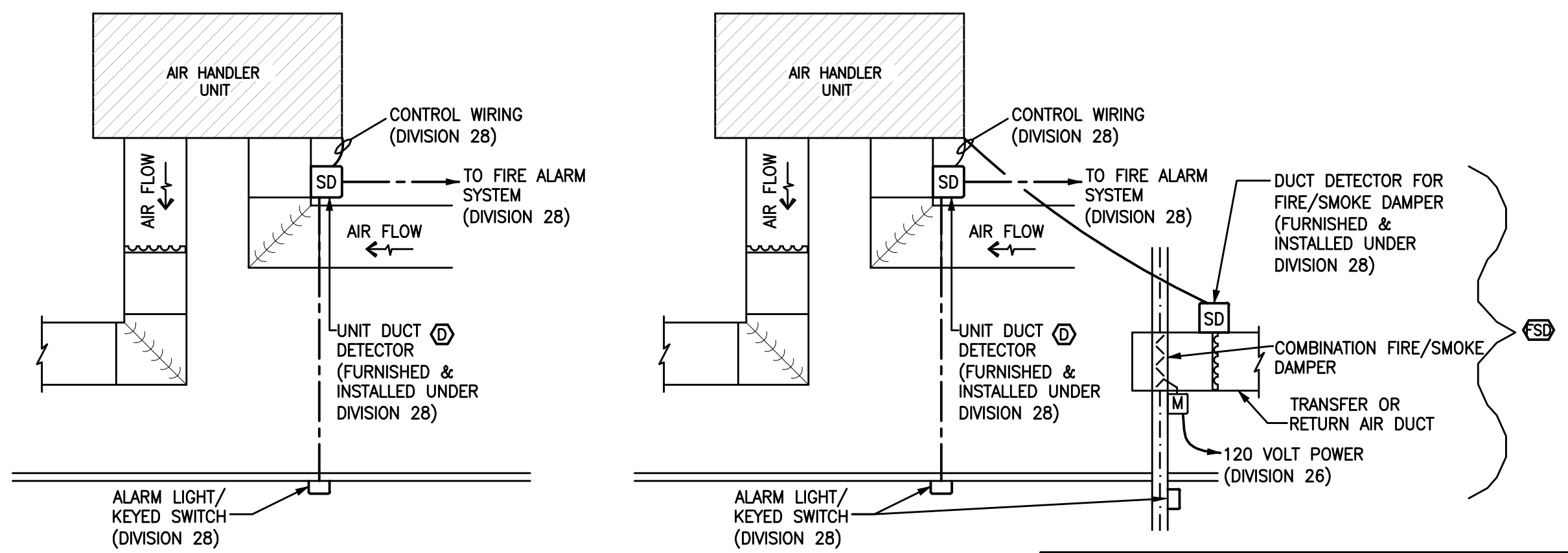
OPERATION - FIREFIGHTER'S HELMET (HAT) SHALL:

1. BURN STEADY ON WHEN ELEVATOR IS PLACED IN BYPASS BY SERVICE KEY.
2. FLASH IF THE SMOKE DETECTOR IS ACTIVATED IN THAT ELEVATORS PARTICULAR HOISTWAY OR ASSOCIATED MACHINE ROOM.

THE ELEVATOR EQUIPMENT MANUFACTURER AND THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE SAFETY WARNING SYSTEM REQUIREMENTS OF THE ELEVATOR PRIOR TO STARTING WORK, AND SHALL REVISE THE WIRING DIAGRAM TO REFLECT THE ACTUAL EQUIPMENT BEING SUPPLIED, AT NO COST TO THE OWNER OR THE ENGINEER.

ELEVATOR RISER DIAGRAM (Non-Sprinkled Building)

NOT TO SCALE



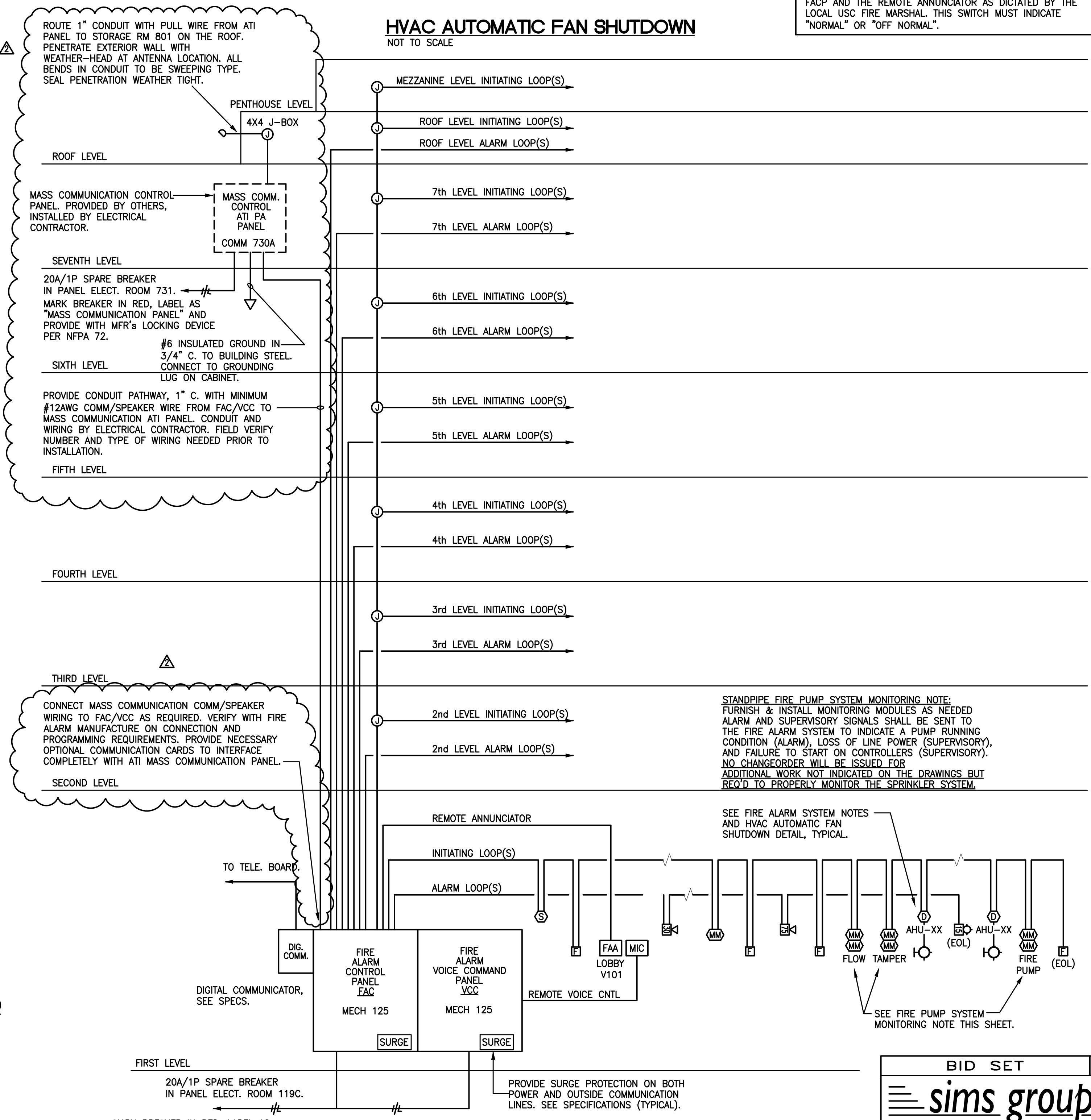
NOTE: UNIT DUCT MOUNTED SMOKE DETECTORS SHALL BE FURNISHED & INSTALLED UNDER DIVISION 28. CONNECTION TO FIRE ALARM SYSTEM SHALL BE FURNISHED & INSTALLED UNDER DIVISION 28. ALARM LIGHT & WIRING SHALL BE FURNISHED & INSTALLED UNDER DIVISION 28. HVAC CONTROL AND INTERLOCK WIRING SHALL BE FURNISHED & INSTALLED UNDER DIVISION 28. ELECTRICAL CONTRACTOR SHALL FURNISH & INSTALL ALL CONDUIT AND BOXES NECESSARY FOR ALARM LIGHT/KEYED SWITCH, LOCATE AS DIRECTED IN FIELD. SEE FIRE ALARM NOTES FOR LOCATION AND TESTING OF DUCT MOUNTED SMOKE DETECTORS.

AHU SHUT DOWN "HOT-KEY"

THE FIRE ALARM MANUFACTURER IS TO PROVIDE A "HOT-KEY" TO OPERATED THE SHUT DOWN OF ALL AHU UNITS. A SUPERVISED PROGRAMMABLE "HOT KEY" FOR ALL AHU SHUTDOWN DEFEAT MODULES MUST BE PROVIDED AT THE FACP AND THE REMOTE ANNUCIATOR AS DICTATED BY THE LOCAL USC FIRE MARSHAL. THIS SWITCH MUST INDICATE "NORMAL" OR "OFF NORMAL".

HVAC AUTOMATIC FAN SHUTDOWN

NOT TO SCALE

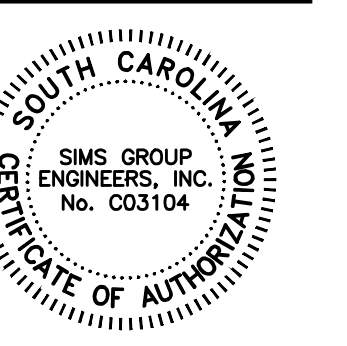


STANDPIPE FIRE PUMP SYSTEM MONITORING NOTE:
FURNISH & INSTALL MONITORING MODULES AS NEEDED ALARM AND SUPERVISORY SIGNALS SHALL BE SENT TO THE FIRE ALARM SYSTEM TO INDICATE A PUMP RUNNING CONDITION (ALARM), LOSS OF LINE POWER (SUPERVISORY), AND FAILURE TO START ON CONTROLLERS (SUPERVISORY). NO CHANGEORDER WILL BE ISSUED FOR ADDITIONAL WORK NOT INDICATED ON THE DRAWINGS BUT REQ'D TO PROPERLY MONITOR THE SPRINKLER SYSTEM.

PARTIAL FIRE ALARM RISER DIAGRAM

NOT TO SCALE

Jumper Carter Sease
Architects PA
412 Meeting Street
West Columbia
South Carolina



NEW FIRE ALARM SYSTEM FOR JAMES F. BYRNES BUILDING UNIVERSITY OF SOUTH CAROLINA

BID DOCUMENTS

REVISIONS:
REV 1 OSE COMMENTS ADDED 4/5/12
REV 2 - ADDENDUM NO. 1 ADDED MASS COMMUNICATION 5/31/12

DRAWN BY:

CHECKED BY:

COMM NO: 11104

DATE: 08/24/2011

SHEET TITLE:

FIRE ALARM SYMBOLS, DETAILS, RISER AND NOTES

BID SET

sims group
SIMS GROUP ENGINEERS, INC.
800 Columbiana Drive, Suite 208
Irmo, South Carolina 29063
Phone: (803) 765-1007 Fax: (803) 765-1030
www.simgroupusa.com

SHEET NO:

E001

FM00346277

USC Work Order

Description HAZMAT SURVEY-001

Site	COLUMBIA	Assigned To	JPROVENCE
Building	001 JAMES F. BYRNES BUILDING	Crew	HAZMAT
Floor	Room:	Start Date	Priority 5
Equipment		Due date	28-OCT-10
		Request Date	28-SEP-10 by KALLEY

Request #	FM00346277	Description	HAZMAT SURVEY-001
Parent WO #			

CP Number	CP00306099	BYRNES FIRE PROTECTION UPGRADES
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State/Internal Project Number	H27-1851
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Requestor	FISHER,PETE	Project Manager	FISHER, PETER L.
Telephone	7-9346	Telephone	777-9346
Alternate		Estimated Cost	\$ 0.00
Telephone		Billing	FIXED PRICE
Non-Available Time		53100-W384-57120	(COLUMBIA CAMPUS FIRE ALARM UPGRADES)

Task List
 (CHECK ALL THAT APPLY AND PROVIDE ADDITIONAL INFORMATION AS NEEDED)

HAZMAT SURVEY(S) REQUESTED FOR THE FOLLOWING

- FLOOR TILE
- JOINT COMPOUND
- WALLS
- MASTIC
- CEILING TILE
- PIPE INSULATION
- VINYL SHEET FLOORING
- FIREPROOFING
- FUME HOODS/TABLE TOPS
- ROOFING MATERIALS
- FIRE DOORS
- GASKETS/VALVES
- BOILER INSULATION
- ACOUSTICAL POPCORN CEILING
- DUCT WORK
- OTHER (PLEASE DESCRIBE BELOW)

DATE WORK STARTED	CAUSE
--------------------------	--------------

DATE WORK COMPLETED	CONDITION
----------------------------	------------------

EQUIPMENT

CLOSING REMARKS

BENCHSTOCK MATERIALS		Price Per Unit
Qty	Description	

Supervisor's Approval _____

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

04-AUG-11 HAZMAT SURVEY RESULTS

SURVEY DATE: 7-29-2011

INSPECTOR #: DARRYL WASHINGTON II BI-00568

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

PLASTER- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

JOINT COMPOUND- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

SHEET ROCK- NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

TEXTURED CEILING MATERIAL - (CEILING OF MECHANICAL ROOM)- POSITIVE FOR ASBESTOS CONTAINING MATERIALS

9X9 GREY FLOORING- POSITIVE FOR ASBESTOS CONTAINING MATERIALS

BLACK MASITC (FLOORING OR ON FIBERGLASS LINES)- POSITIVE FOR ASBESTOS CONTAINING MATERIALS

WHITE PAINT- NEGATIVE FOR LEAD BASE PAINT

BLUE PAINT- NEGATIVE FOR LEAD BASE PAINT

INSPECTORS NOTES

1. MOST WALL MATERIALS WILL BE EITHER PLASTER OR METAL PRE FAB MATERIALS
2. ALL FLOORING MUST BE DEEMED POSITIVE UNTIL FURTHER TESTING
3. NO DRILLING OR DISTURBANCE OF ANY CEILING MATERIAL IN LOWER MECHANICAL ROOM
4. WHITE 2X2 FIBERGLASS CEILING TILES IN PLACE NOT SUSPECT FOR ASBESTOS CONTAINING MATERIALS
5. ANY MATERIALS NOT LISTED THAT YOU MAY COME INTO CONTACT WITH DURING JOB PLEASE CALL THE ASBESTOS PROGRAM MANGER FOR FURTHER TESTING OR ASBESTOS OR LEAD ABATEMENT

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

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

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

AS OF 4/2/2004 THE FOLLOWING AREAS WITHIN THE BUILDING HAVE BEEN IDENTIFIED BY SURVEY TO CONTAIN ASBESTOS:

BLDG. NO. 001 .J. BYRNES CENTER
 BASEMENT MECHANICAL ROOM--> SPRAY ON 3 COATS PLASTER --> CEILING [800 SQ FT]
 ENTRANCE FOYER ASBESTOS --> HAS BEEN REMOVED
 BASEMENT MECHANICAL ROOM --> SUPPLY DUCT PLENUM ON AIR HANDING UNIT [225 SQUARE FEET.]
 SOUTH WEST CORNER --> ABANDONED DUCT [10 SQ FT]
 SOUTH WEST CORNER --> BOILER PIPE [8 LIN FT]

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.

04-AUG-10 2009-09-15 BLDG COMPONENT ASBESTOS/LEAD EXPOSURE UPDATE

BELOW ARE THE ASBESTOS AND LEAD TESTING RESULTS FOR THE J F BYRNES BUILDING:

SHEET ROCK: NEGATIVE FOR ASBESTOS CONTAINING MATERIALS
 JOINT COMPOUND: NEGATIVE FOR ASBESTOS CONTAINING MATERIALS
 PLASTER WALL MATERIAL: NEGATIVE FOR ASBESTOS CONTAINING MATERIALS
 WHITE WALL PAINT: NEGATIVE FOR LEAD BASE PAINT
 BLUE PAINT: NEGATIVE FOR LEAD BASE PAINT
 2X2 WHITE CEILING TILES: NEGATIVE FOR ASBESTOS CONTAINING MATERIALS
 HVAC DUCT RETURNS: POSITIVE FOR BLACK MASTIC
 FIBERGLASS LINES ABOVE THE CEILING: POSITIVE FOR BLACK MASTIC
 FLOOR TILE: POSITIVE FOR BLACK MASTIC

JOINTS AND ENDS: POSITIVE FOR ASBESTOS CONTAINING MATERIALS

IF YOU AND/ OR CONTRACTORS NEED TO DISTURB ANY MATERIALS YOU DEEM SUSPECT THAT ARE NOT LISTED ABOVE, STOP WORK AND CONTACT THE ASBESTOS PROGRAM MANAGER, 777-1208. IF YOU NEED TO DISTURB ANY MATERIAL LISTED AS POSITIVE, YOU MUST CONTACT THE ASBESTOS PROGRAM MANAGER TO ARRANGE FOR REMOVAL. THIS INFORMATION MUST BE PASSED ALONG TO ALL CONTRACTORS, SUB-CONTRACTORS, AND INDIVIDUALS WORKING IN THIS BUILDING



EMSL Analytical, Inc.
 706 Gralin Street, Kernersville, NC 27284
 Phone: (336) 992-1025 Fax: (336) 992-4175 Email: greensborolab@emsl.com

Attn: **Ed Pitts**
University of South Carolina
743 Greene Street
Columbia, SC 29208

Customer ID: UNSC62
 Customer PO:
 Received: 09/03/09 10:00 AM
 EMSL Order: 020905187

Fax: (803) 777-7334 Phone: (803) 777-3296
 Project: 1 JF Byrnes Bld

EMSL Proj:
 Analysis Date: 9/8/2009

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 <i>020905187-0001</i>	Plaster	White Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
2 <i>020905187-0002</i>	Ceiling Tile	Tan Fibrous Heterogeneous	10% Cellulose 70% Min. Wool	20% Non-fibrous (other)	None Detected
3 <i>020905187-0003</i>	Joint Compound	White Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
4 <i>020905187-0004</i>	Sheetrock	White Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
5 <i>020905187-0005</i>	Ceiling Tile	Tan/White Fibrous Heterogeneous	30% Cellulose 40% Min. Wool	30% Non-fibrous (other)	None Detected
6 <i>020905187-0006</i>	Plaster	White Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
7 <i>020905187-0007</i>	Joint Compound	White Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected

Analyst(s)

Kristie Hein (18)

Stephen Bennett, Laboratory Manager
 or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Samples analyzed by EMSL Analytical, Inc. Kernersville 706 Gralin Street, Kernersville NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321



EMSL Analytical, Inc.
 706 Gralin Street, Kernersville, NC 27284
 Phone: (336) 992-1025 Fax: (336) 992-4175 Email: greensborolab@emsl.com

Attn: **Ed Pitts**
University of South Carolina
743 Greene Street
Columbia, SC 29208

Customer ID: UNSC62
 Customer PO:
 Received: 09/03/09 10:00 AM
 EMSL Order: 020905187

Fax: (803) 777-7334 Phone: (803) 777-3296
 Project: 1 JF Byrnes Bld

EMSL Proj:
 Analysis Date: 9/8/2009

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
8 020905187-0008	Sheetrock	Gray Fibrous Heterogeneous	<1% Cellulose <1% Glass	100% Non-fibrous (other)	None Detected
9 020905187-0009	Plaster	White Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
10 020905187-0010	Joint Compound	White Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
11 020905187-0011	Sheetrock	Gray Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
12 020905187-0012	Plaster	Gray/Tan Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
13 020905187-0013	Joint Compound	White Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
14 020905187-0014	Sheetrock	Beige Fibrous Heterogeneous	3% Cellulose	97% Non-fibrous (other)	None Detected

Analyst(s)

Kristie Hein (18)

Stephen Bennett, Laboratory Manager
 or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Samples analyzed by EMSL Analytical, Inc. Kernersville 706 Gralin Street, Kernersville NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321



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 Project: 1 JF Byrnes Bld


EMSL Proj:
 Analysis Date: 9/8/2009

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
15 <i>020905187-0015</i>	Plaster	White Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
16 <i>020905187-0016</i>	Plaster	White Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
17 <i>020905187-0017</i>	Plaster	White Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
18 <i>020905187-0018</i>	Joint Compound	White Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
19 <i>020905187-0019</i>	Sheetrock				Not Submitted

Analyst(s)

 Kristie Hein (18)



 Stephen Bennett, Laboratory Manager
 or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.
 Samples analyzed by EMSL Analytical, Inc. Kernersville 706 Gralin Street, Kernersville NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

5187



107 Haddon Avenue, Westmont, New Jersey 08108

1-800-220-3675

http://www.emsl.com

EMSL ANALYTICAL, Inc. CHAIN OF CUSTODY

EMSL Rep: Un of S.C. Third Party Billing requires written authorization from third party

Your Name: John E. P. H. EMSL-Bill to: _____

Company: _____

Street: _____ Street: _____

Box #: _____ Box #: _____

City/State: _____ Zip: _____ City/State: _____ Zip: _____

Phone Results to: _____ Fax Results to: _____

Name: _____ Name: _____

Telephone #: _____ Fax #: _____

Project Name/Number: #1 Bryson Purchase Order #: _____

TURNAROUND TIME

3 Hours 6 Hours 12 Hours 24 Hours 48 Hours 72 Hours 4 Days 5 Days 6-10 Days

SAMPLE MATRIX

Air Bulk Soil Wipe Micro-Vac Drinking Water Wastewater Chips Other

ASBESTOS ANALYSIS

PCM - Air

NIOSH 7400 (A) Issue 2: August 1994

OSHA w/TWA

TEM AIR

AHERA 40 CFR, Part 763 Subpart F

NIOSH 7402 Issue 2

EPA Level II

PLM - Bulk

EPA 600/R-93/116

NY Stratified Point Count

California Air Resource Board (CARB) 435

NIOSH 9002

PLM NOB (Gravimetric) NYS 198.1

EPA Point Count (400 Points)

EPA Point Count (1,000 Points)

Standard Addition Point Count

SOILS

EPA Protocol Qualitative

EPA Protocol Quantitative

EMSL MSD 9000 Method fibers/gram

Superfund EPA 540-R097-028 (dust generation)

TEM BULK

Drop Mount (Qualitative)

Chatfield SOP-1988-02

TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC

ASTM D 5755-95 (Quantitative)

TEM WIPE

ASTM D-6480-99

Qualitative

TEM WATER

EPA 100.1

EPA 100.2

NYS 198.2

LEAD ANALYSIS

Flame Atomic Absorption

Wipe, SW846-7420 ASTM non ASTM

Soil, SW846-7420

Air, NIOSH 7082

Chips, SW846-7420 or AOAC 5.009 (974.02)

Wastewater, SW 846-7420

TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption

Air, NIOSH 7105

Wastewater, SW846-7421

Soil, SW846-7421

Drinking Water, EPA 239.2

ICP - Inductively Coupled Plasma

Wipe, SW846-6010 ASTM non ASTM

Soil, SW846-6010

Air, NIOSH 7300

MICROBIAL ANALYSIS

Air Samples

Mold & Fungi by Air O Cell

Mold & Fungi by Agar Plate count & id

Bacterial Count and Gram Stain

Bacterial Count and Identification

Water Samples

Total Coliforms, Fecal Coliforms

Escherichia Coli, Fecal Streptococcus

Legionella

Salmonella

Giardia and Cryptosporidium

Wipe and Bulk Samples

Mold & Fungi - Direct Examination

Mold & Fungi - (Culture follow up to direct examination if necessary)

Mold & Fungi - Culture (Count & ID)

Mold & Fungi - Culture (Count only)

Bacterial Count & Gram Stain

Bacterial Count & Identification (3 most prominent types)

Other: _____

MATERIALS ANALYSIS

Full Particle Identification

Optical Particle Identification

Dust Mites and Insect Fragments

Particle Size & Distribution

Product Comparison

Paint Characterization

Failure Analysis

Corrosion Analysis

Glove Box Containment Study

Petrographic Examination of Concrete

Portland Cement in Workplace Atmospheres (OSHA ID-143)

Man Made Vitreous Fibers - MMVF's

Synthetic Fiber Identification

Other: _____

IAQ ANALYSIS

Nuisance Dust (NIOSH 0500 & 0600)

Airborne Dust (PM10, TSP)

Silica Analysis by XRD NIOSH 7500

HVAC Efficiency

Carbon Black

Airborne Oil Mist

Other: _____

Client Sample # (S) _____ TOTAL SAMPLE # 19

Relinquished: _____ Date: _____ Time: _____

Received: KH Date: _____ Time: _____

Relinquished: _____ Date: 9/13 Time: _____

Received: _____ Date: _____ Time: 10:00

Reset Form

Print Form

5187

2012



Building # 001 J F BYRNES BLD

Type of Analysis: Lead / Asbestos Date: 09-01-2009

Sample Analysis

Turn Around Time 3 DAYS

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
A	1	PLASTER	HALL @ STAIRWAY 01	F	GOOD	140 SQ FT	LOW
A	2	2X2 WHITE CEILING TILE	HALL @ STAIRWAY 01	F	GOOD	140 SQ FT	LOW
A	3	JOINT COMPOUND	RM 608	F	GOOD	20 SQ FT	LOW
A	4	SHEET ROCK	RM 608	F	GOOD	220 SQ FT	LOW
A	5	2X2 WHITE CEILING TILE	HALL @ 608	F	GOOD	800 SQ FT	LOW
A	6	PLASTER	WALL AT MENS REST ROOM	F	GOOD	150 SQ FT	LOW
A	7	JOINT COMPOUND	RM 501	F	GOOD	35 SQ FT	LOW
A	8	SHEET ROCK	RM 501	F	GOOD	320 SQ FT	LOW
A	9	PLASTER	RM 522	F	GOOD	130 SQ FT	LOW
A	10	JOINT COMPOUND	WALL AT 429	F	GOOD	20 SQ FT	LOW

License # 00568

FM# FM00314345

Requestor JEFF TAYLOR

Signature

Send lab results in PDF format as soon as possible to:

Ed Pitts 803-777-3296
720 College St.
Columbia, SC 29208
EHP@fmc.sc.edu

Ty Russell 803-777-1208
720 College St.
Columbia, SC 29208
NTRusse@fmc.sc.edu

Fax # 803-777-3990

4819

292

#1

Reset Form

Print Form



Building # Byznea Type of Analysis: Lead / Asbestos Date: 9-01-09 Turn Around Time 72h

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
A	11	SHEET ROCK	HALL @ 429	F	GOOD	120 SQ FT	LOW
A	12	PLASTER	WALL AT 429	F	GOOD	40 SQ FT	LOW
A	13	JOINT COMPOUND	RM 305	F	GOOD	25 SQ FT	LOW
A	14	SHEET ROCK	RM 305	F	GOOD	200 SQ FT	LOW
A	15	PLASTER	RM 308	F	GOOD	175 SQ FT	LOW
A	16	PLASTER	RM 205	F	GOOD	300 SQ FT	LOW
A	17	PLASTER	HALL AT 120	F	GOOD	500 SQ FT	LOW
A	18	JOINT COMPOUND	RM 119	F	GOOD	60 SQ FT	LLOW
A	19	SHEET ROCK	RM 119	F	GOOD	800 SQ FT	LOW

License # _____ FM# _____ Signature _____ Requestor _____

Send lab results in PDF format as soon as possible to:

Ed Pitts 803-777-3296
720 College St.
Columbia, SC 29208
EHP@fmc.sc.edu

Darryl Washington 803-777-2399
720 College St.
Columbia, SC 29208
WashinDH@fmc.sc.edu

Ty Russell 803-777-1208
720 College St.
Columbia, SC 29208
NTRusse@fmc.sc.edu

Fax # 803-777-3990



EMSL Analytical, Inc.
 706 Gralin Street, Kernersville, NC 27284
 Phone: (336) 992-1025 Fax: (336) 992-4175 Email: greensborolab@emsl.com

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

Customer ID: UNSC62
 Customer PO:
 Received: 08/03/11 10:10 AM
 EMSL Order: 021104656
 EMSL Proj:
 Analysis Date: 8/3/2011

Fax: (803) 777-7334 Phone: (803) 777-7000
 Project: **001 Byrnes Blvd**


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 021104656-0001	Textured Ceiling Material	Beige Fibrous Heterogeneous		97% Non-fibrous (other)	3% Chrysotile
2 021104656-0002	Textured Ceiling Material				Stop Positive (Not Analyzed)
3 021104656-0003	Textured Ceiling Material				Stop Positive (Not Analyzed)
4 021104656-0004	Textured Ceiling Material				Stop Positive (Not Analyzed)
5 021104656-0005	Textured Ceiling Material				Stop Positive (Not Analyzed)

Initial report from 08/03/2011 11:59:15

Analyst(s)

 Kristie Elliott (1)



 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

4656



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LABORATORY PRODUCTS TRAINING

Chain of Custody

EMSL Order Number (Lab Use Only):

[Empty box for EMSL Order Number]

EMSL
200
PHONE
FAX

Company: Univ of South Carolina EMSL-Bill to: Same Different
 Street: 743 Greene St If Bill to is Different note instructions in Comments
 City: Columbia State/Province: SC Zip/Postal Code: 29208 Country: USA
 Report To (Name): Ed PHS Fax: 803-792-9074
 Telephone #: 803-792-9074 Email/Address: on file
 Project Name/Number: Byrnes Bid
 Please Provide Results: Fax Email Purchase Order: U.S. State Samples Taken:

Turnaround Time (TAT) Options* - Please Check
 3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 week
 *For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)

Asbestos

PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Water Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) 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%)	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable) <input type="checkbox"/> Chatfield SOI Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.1%) <input type="checkbox"/> PLM CARB 435 - B (0.1%) <input type="checkbox"/> TEM CARB 435 - B (0.1%) <input type="checkbox"/> EPA Reg. 1 Screening Protocol Other:
--	--	---

Lead (Pb)

Flame Atomic Absorption <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> TCLP SW846-1311/7420/SM 3111B	ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C	Materials Science <input type="checkbox"/> Common Particle ID (large part) <input type="checkbox"/> Full Particle ID (environmental) <input type="checkbox"/> Basic Material ID (solids) <input type="checkbox"/> Advanced Material ID <input type="checkbox"/> Physical Testing (Tensile Compres) <input type="checkbox"/> Combustion-by-products (soot) <input type="checkbox"/> X-Ray Fluorescence (elemental) <input type="checkbox"/> X-Ray Diffraction (Crystalline) <input type="checkbox"/> MMVF's (Fibrous glass, RC) <input type="checkbox"/> Particle Size (sieve/microscope) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination Other:
Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9	Other: <input type="checkbox"/>	

Microbiology

Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> Pseudomonas aeruginosa	Air Samples <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing	IAQ Nuisance Dust NIOSH <input type="checkbox"/> 0500 Airborne Dust <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristobalite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist Radon Testing: Call for Kit and Instructions Other:
Water Samples <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)	Real Time Q-PCR (See Analytical Guide for Code) Code: _____ Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other:	

**Comments/Special instructions:

Client Sample #'s: _____

Relinquished (Client): _____ Date: _____ Total # of Samples: 5

Received (Lab): MV Date: 8-3-11 Time: _____

Time: 10:10

Print Form

Reset Form

4656

STG Prospector



001 BYRNES BUILDING

08-01-2011

Sample Analysis Date: 08-01-2011

Type of Analysis: Lead / Asbestos

Turn Around Time 48 HRS

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
A	1	TEXTURED CEILING MATERIAL	CEILING MATERIAL OF MECHANICAL ROOM BASEMENT	F	G	1000 SQ FT	LOW
A	2	TEXTURED CEILING MATERIAL	CEILING MATERIAL OF MECHANICAL ROOM BASEMENT	F	G	1000 SQ FT	LOW
A	3	TEXTURED CEILING MATERIAL	CEILING MATERIAL OF MECHANICAL ROOM BASEMENT	F	G	1000 SQ FT	LOW
A	4	TEXTURED CEILING MATERIAL	CEILING MATERIAL OF MECHANICAL ROOM BASEMENT	F	G	1000 SQ FT	LOW
A	5	TEXTURED CEILING MATERIAL	CEILING MATERIAL OF MECHANICAL ROOM BASEMENT	F	G	1000 SQ FT	LOW

Requestor PETE FISHER

Signature [Handwritten Signature]

Ty Russell 803-777-1208
720 College St.
Columbia, SC 29208
NTRusse@fmc.sc.edu

FM# FM00368419

Send lab results in PDF format as soon as possible to:
Darryl Washington 803-777-2399
720 College St.
Columbia, SC 29208
WashimDH@fmc.sc.edu

License # ASBI-00568

Ed Pitts 803-777-3296
720 College St.
Columbia, SC 29208
EHP@fmc.sc.edu

Fax # 803-777-3990



EMSL Analytical, Inc.
 706 Gralin Street, Kernersville, NC 27284
 Phone: (336) 992-1025 Fax: (336) 992-4175 Email: greensborolab@emsl.com

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

Customer ID: UNSC62
 Customer PO:
 Received: 04/18/11 9:45 AM
 EMSL Order: 021102315

Fax: (803) 777-7334 Phone: (803) 777-7000
 Project: **01-Byrnes Building**

EMSL Proj:
 Analysis Date: 4/18/2011

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 021102315-0001	Ceiling Material	Gray/Tan/Gold Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
2 021102315-0002	Ceiling Material	Gray/Tan/Gold Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
3 021102315-0003	Ceiling Material	Gray/Tan Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
4 021102315-0004	Ceiling Material	Gray/White Fibrous Heterogeneous	45% Cellulose 25% Min. Wool	30% Non-fibrous (other)	None Detected
5 021102315-0005	Ceiling Material	Gray/White Fibrous Heterogeneous	45% Cellulose 25% Min. Wool	30% Non-fibrous (other)	None Detected
6 021102315-0006	Ceiling Material	Tan/White Fibrous Heterogeneous	40% Cellulose 25% Min. Wool	35% Non-fibrous (other)	None Detected
7-Floor Tile 021102315-0007	Tile/Mastic	Gray Fibrous Heterogeneous		92% Non-fibrous (other)	8% Chrysotile

Initial report from 04/18/2011 13:48:01

Analyst(s)

Kristie Elliott (4)
Scott Combs (10)

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



EMSL Analytical, Inc.

706 Gralin Street, Kernersville, NC 27284

Phone: (336) 992-1025 Fax: (336) 992-4175 Email: greensborolab@emsl.com

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

Customer ID: UNSC62
Customer PO:
Received: 04/18/11 9:45 AM
EMSL Order: 021102315

Fax: (803) 777-7334 Phone: (803) 777-7000
Project: **01-Byrnes Building**

EMSL Proj:
Analysis Date: 4/18/2011

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
7-Black Mastic 021102315-0007A	Tile/Mastic	Black Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
7-Orange Mastic 021102315-0007B	Tile/Mastic	Gold/Orange Non-Fibrous Heterogeneous	2% Synthetic <1% Cellulose	98% Non-fibrous (other)	None Detected
8-Floor Tile 021102315-0008	Tile/Mastic	Gray Fibrous Heterogeneous		92% Non-fibrous (other)	8% Chrysotile
8-Black Mastic 021102315-0008A	Tile/Mastic	Black Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
8-Orange Mastic 021102315-0008B	Tile/Mastic	Gold/Orange Non-Fibrous Heterogeneous	3% Synthetic <1% Cellulose	97% Non-fibrous (other)	None Detected
9-Floor Tile 021102315-0009	Tile/Mastic	Gray Fibrous Heterogeneous		92% Non-fibrous (other)	8% Chrysotile
9-Mastic 021102315-0009A	Tile/Mastic	Black Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected

No Orange Mastic Present.

Initial report from 04/18/2011 13:48:01

Analyst(s)

Kristie Elliott (4)
Scott Combs (10)



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



EMSL Analytical, Inc.
 706 Gralin Street, Kernersville, NC 27284

Phone: (336) 992-1025 Fax: (336) 992-4175 Email: greensborolab@emsl.com

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

Customer ID: UNSC62
 Customer PO:
 Received: 04/18/11 9:45 AM
 EMSL Order: 021102315

Fax: (803) 777-7334 Phone: (803) 777-7000
 Project: **01-Byrnes Building**

EMSL Proj:
 Analysis Date: 4/18/2011

**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
8-Orange Mastic 021102315-0010					
	Insufficient Material Insufficient mastic for NOB analysis on samples 7 & 8. No orange mastic present on sample # 9.				
9-Black Mastic 021102315-0011					
	Insufficient Material Insufficient mastic for NOB analysis on all 3 samples.				

Initial report from 04/18/2011 13:48:01

Analyst(s) _____

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.
 Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

2315


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Chain of Custody

EMSL Order Number (Lab Use Only):

 EMSL ANALYTICAL, INC.
 200 ROUTE 130 NORTH
 CINNAMINSON, NJ 08037
 PHONE: (800) 220-3675
 FAX: (856) 786-5974

Company: <u>Un of South Carolina</u>		EMSL-Bill to: <input type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <u>743 Greene St.</u>		Third Party Billing requires written authorization from third party	
City: <u>Cole</u>	State/Province: <u>SC</u>	Zip/Postal Code: <u>29208</u>	Country:
Report To (Name): <u>Pitt</u>		Fax #:	
Telephone #: <u>803-917-0517 or 917-0291</u>		Email Address: <u>on file</u>	
Project Name/Number: <u>01 - Byrne - 201 R</u>			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order:	U.S. State Samples Taken:
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 RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)</small>			
Asbestos			
PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA		PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) 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%)	
TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312		TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input checked="" type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP	
TEM - Water Fibers $\geq 10\mu m$ <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking		Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative)	
		Other:	
		TEM - Dust	
		<input type="checkbox"/> Microvac - ASTM D 5755	
		<input type="checkbox"/> Wipe-ASTM D6480	
Lead (Pb)		Materials Science	
Flame Atomic Absorption <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> TCLP SW846-1311/7420/SM 3111B		<input type="checkbox"/> Common Particle ID (large particles) <input type="checkbox"/> Full Particle ID (environmental dust) <input type="checkbox"/> Basic Material ID (solids) <input type="checkbox"/> Advanced Material ID <input type="checkbox"/> Physical Testing (Tensile, Compression) <input type="checkbox"/> Combustion-by-products (soot, char, etc.) <input type="checkbox"/> X-Ray Fluorescence (elem. analysis) <input type="checkbox"/> X-Ray Diffraction (Crystalline Part.) <input type="checkbox"/> MMVF's (Fibrous glass, RCF's) <input type="checkbox"/> Particle Size (sieve/microscopy/laser) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination	
ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C		Other: <input type="checkbox"/>	
Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9			
Microbiology			
Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> <i>Pseudomonas aeruginosa</i>		Air Samples <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing	
Water Samples <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)		Real Time Q-PCR (See Analytical Guide for Code) Code: Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: <input type="checkbox"/>	
**Comments/Special Instructions:			
Client Sample #'s		Total # of Samples: <u>9</u>	
Relinquished (Client):		Date:	
Received (Lab): <u>MV</u>		Date: <u>4-18-11</u>	
		Time: <u>9:45</u>	

Reset Form

Print Form

2315



Building # 001 Byrnes Building

Sample Analysis

Date: 04-15-2011

Turn Around Time 24 HRS

Type of Analysis: Lead / Asbestos

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
A	1	CEILING MATERIAL	CEILING ABOVE 2X4 CEILING TILE ROOM 201	F	G	960 SQ FT	LOW
A	2	CEILING MATERIAL	CEILING ABOVE 2X4 CEILING TILE ROOM 201	F	G	960 SQ FT	LOW
A	3	CEILING MATERIAL	CEILING ABOVE 2X4 CEILING TILE ROOM 201	F	G	960 SQ FT	LOW
A	4	2X4 WHITE CEILING TILE	CEILING MATERIAL OF ROOM 201	F	G	960 SQ FT	LOW
A	5	2X4 WHITE CEILING TILE	CEILING MATERIAL OF ROOM 201	F	G	960 SQ FT	LOW
A	6	2X4 WHITE CEILING TILE	CEILING MATERIAL OF ROOM 201	F	G	960 SQ FT	LOW
A	7	GREY 9X9 TILE / MASTIC	FLOORING UNDER CARPET OF ROOM 201	NF	G	960 SQ FT	LOW
A	8	GREY 9X9 TILE / MASTIC	FLOORING UNDER CARPET OF ROOM 201	NF	G	960 SQ FT	LOW
A	9	GREY 9X9 TILE / MASTIC	FLOORING UNDER CARPET OF ROOM 201	NF	G	960 SQ FT	LOW

License # ASBI-00568

FM# FM00361953

Send lab results in PDF format as soon as possible to:

Ed Pitts 803-777-3296
720 College St.
Columbia, SC 29208
EHP@fmc.sc.edu

Darryl Washington 803-777-2399
720 College St.
Columbia, SC 29208
WashinDH@fmc.sc.edu

Signature *[Signature]*

Requestor LINDA CICCIA

Fax # 803-777-3990

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
112	6/29/2009 10:08	PAINT	3.55	mg / cm ^2	Final	WALL	DRYWALL		PEELING	WHITE	001 Byrnes	D Washington	Seventh	730			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	0.9	
113	6/29/2009 10:08	PAINT	3.24	mg / cm ^2	Final	WALL	DRYWALL		PEELING	WHITE	001 Byrnes	D Washington	Seventh	712			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	0.82	
114	6/29/2009 10:09	PAINT	2.93	mg / cm ^2	Final	WALL	DRYWALL		PEELING	WHITE	001 Byrnes	D Washington	Seventh	724			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	1.32	
115	6/29/2009 10:10	PAINT	2.92	mg / cm ^2	Final	WALL	DRYWALL		PEELING	WHITE	001 Byrnes	D Washington	Seventh	719			Negative	2.15			0.7 < LOD	0.04 < LOD	0.04 < LOD	0.04 < LOD	1.45	
116	6/29/2009 10:11	PAINT	2.27	mg / cm ^2	Final	WALL	METAL		INTACT	PINK	001 Byrnes	D Washington	Seventh	702			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	2.1	
117	6/29/2009 10:11	PAINT	2.6	mg / cm ^2	Final	WALL	METAL		INTACT	PINK	001 Byrnes	D Washington	Seventh	702b			Negative	2.93			0.7 < LOD	0.04 < LOD	0.04 < LOD	0.04 < LOD	1.95	
118	6/29/2009 10:13	PAINT	2.92	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	Seventh	704			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	1.32	
119	6/29/2009 10:14	PAINT	8.44	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	Sixth	605			Negative	3.15			0.7 < LOD	0.04 < LOD	0.04 < LOD	0.04 < LOD	0.65	
120	6/29/2009 10:15	PAINT	3.56	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	Sixth	604			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	0.81	
121	6/29/2009 10:15	PAINT	3.25	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	Sixth	620			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	0.82	
122	6/29/2009 10:16	PAINT	3.57	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	Sixth	601			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	0.81	
123	6/29/2009 10:16	PAINT	3.56	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	Sixth	616			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	0.89	
124	6/29/2009 10:17	PAINT	3.24	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	Sixth	614 a			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	0.86	
125	6/29/2009 10:18	PAINT	2.6	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	Sixth	613			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	1.41	
126	6/29/2009 10:19	PAINT	3.24	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	Sixth	609			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	0.82	
127	6/29/2009 10:20	PAINT	7.45	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	Sixth	617			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	0.58	
128	6/29/2009 10:22	PAINT	4.88	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	FIFTH	518			Negative	5.08			0.7 < LOD	0.04 < LOD	0.04 < LOD	0.04 < LOD	0.62	
129	6/29/2009 10:23	PAINT	3.26	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	FIFTH	501b			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	0.85	
130	6/29/2009 10:23	PAINT	3.22	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	FIFTH	502			Negative	1.44			0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	0.84	
131	6/29/2009 10:24	PAINT	5.84	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	FIFTH	504			Negative	1.71			0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	0.64	
132	6/29/2009 10:25	PAINT	3.24	mg / cm ^2	Final	WALL	METAL		INTACT	WHITE	001 Byrnes	D Washington	FIFTH	509			Negative	3.89			0.7 < LOD	0.06 < LOD	0.06 < LOD	0.06 < LOD	1.2	
133	6/29/2009 10:25	PAINT	2.58	mg / cm ^2	Final	WALL	METAL		INTACT	WHITE	001 Byrnes	D Washington	FIFTH	510			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	2.1	
134	6/29/2009 10:26	PAINT	2.28	mg / cm ^2	Final	WALL	METAL		INTACT	WHITE	001 Byrnes	D Washington	FIFTH	511b			Negative	1.17			0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	2.1	
135	6/29/2009 10:27	PAINT	2.6	mg / cm ^2	Final	WALL	METAL		INTACT	WHITE	001 Byrnes	D Washington	FIFTH	512a			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	2.25	
136	6/29/2009 10:28	PAINT	4.22	mg / cm ^2	Final	WALL	METAL		INTACT	WHITE	001 Byrnes	D Washington	FIFTH	513			Negative	2.29			0.7 < LOD	0.04 < LOD	0.04	1.1	0.7	
137	6/29/2009 10:41	PAINT	2.93	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	FOURTH	435			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	1.3	
138	6/29/2009 10:41	PAINT	2.6	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	FOURTH	433			Null		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	1.35	
139	6/29/2009 10:41	PAINT	2.92	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	FOURTH	433			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	1.26	
140	6/29/2009 10:42	PAINT	3.24	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	FOURTH	431			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	0.8	
141	6/29/2009 10:42	PAINT	2.91	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	FOURTH	428			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	1.23	
142	6/29/2009 10:43	PAINT	4.23	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	FOURTH	443			Negative	4.15			0.7 < LOD	0.06 < LOD	0.06 < LOD	0.06 < LOD	0.95	
143	6/29/2009 10:44	PAINT	3.87	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	FOURTH	446			Negative	2.65			0.7 < LOD	0.04 < LOD	0.04 < LOD	0.04 < LOD	1.03	
144	6/29/2009 10:44	PAINT	1.63	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	FOURTH	41ea			Null		10		0.7 < LOD	0.78 < LOD	0.78 < LOD	0.78 < LOD	2.21	
145	6/29/2009 10:45	PAINT	4.54	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	FOURTH	41ea			Negative		6		0.7 < LOD	0.13 < LOD	0.13 < LOD	0.13 < LOD	0.9	
146	6/29/2009 10:46	PAINT	4.87	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	FOURTH	448			Negative	3.1			0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	0.9	
147	6/29/2009 10:47	PAINT	3.58	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	FOURTH	416			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	0.8	
148	6/29/2009 10:47	PAINT	5.17	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	FOURTH	406			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	0.63	
149	6/29/2009 10:48	PAINT	2.91	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	FOURTH	409			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	1.28	
150	6/29/2009 10:48	PAINT	4.53	mg / cm ^2	Final	WALL	DRYWALL		INTACT	WHITE	001 Byrnes	D Washington	FOURTH	402			Negative		1		0.7 < LOD	0.03 < LOD	0.03 < LOD	0.03 < LOD	0.69	