

Wake County Office Building
 8th Floor and Skybridge Demolition
 Raleigh, North Carolina
 March 29, 2024

ADDENDUM NO. 1
 Page 1

HUFFMAN ARCHITECTS, PA
 632 PERSHING ROAD
 RALEIGH, NORTH CAROLINA 27608
 PHONE (919) 972-9949

TO: ALL PRIME BIDDERS OF RECORD

This Addendum forms a part of the Contract Documents and modifies the original Project Manual and Construction Documents dated March 13, 2024. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification. This Addendum consists of three (3) pages and fifty-two (52) 8 1/2" X 11" attachments. All documents are distributed digitally.

DRAWINGS

Item No. Description

1. Sheet C003 "ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES", under GENERAL NOTES, add the following item:
 23. No abatement work shall be done without informing EEC, Inc. at (919) 291-6814 to schedule inspection, quantification, and clearance of the work area.
2. Sheets D101 "DEMOLITION PLAN - WCOB EIGHTH FLOOR" and D111 "DEMOLITION RCP - WCOB EIGHTH FLOOR", under DEMOLITION KEY NOTES, make the following revision:
 2. Demolish existing partition wall and marble wall cladding as needed for new construction – salvage entirety of marble base and five (5) large-format marble wall panels for owner attic stock – transport to the Wake County GSA Headquarters at 401 Capital Boulevard, Raleigh, NC 27603.
3. Sheets D101 "DEMOLITION PLAN - WCOB EIGHTH FLOOR" and D111 "DEMOLITION RCP - WCOB EIGHTH FLOOR", under DEMOLITION KEY NOTES, make the following revision:
 3. Remove existing marble wall cladding – salvage entirety of marble base for owner attic stock – transport to the Wake County GSA Headquarters at 401 Capital Boulevard, Raleigh, NC 27603.
4. Sheets D101 "DEMOLITION PLAN - WCOB EIGHTH FLOOR" and D111 "DEMOLITION RCP - WCOB EIGHTH FLOOR", under DEMOLITION KEY NOTES, delete the following:
 13. Demolish existing terrazzo, divider strips, underbed wire mesh, and isolation membrane down to existing concrete slab all locations this room.

The existing terrazzo will remain at all locations on the Eighth Floor of the Wake County Office Building.
5. Sheets D101 "DEMOLITION PLAN - WCOB EIGHTH FLOOR", D102 "DEMOLITION FLOOR PLAN - WCCH SIXTH FLOOR AND SKYBRIDGE", D111 "DEMOLITION RCP - WCOB EIGHTH FLOOR", and D112 "DEMOLITION RCP AND SECTIONS - WCCH SIXTH FLOOR AND SKYBRIDGE", under DEMOLITION GENERAL NOTES, make the following revision:
 14. Certified fall protection anchor points are available on both buildings but must not be used for any purpose other than moving or securing people. They must not be used for tools, materials, or equipment of any nature.

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ADDENDUM NO. 1
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SPECIFICATIONS

- | <u>Item No.</u> | <u>Description</u> |
|-----------------|--|
| 1. | Replace the original "Bid Proposal Form" with the attached "Bid Proposal Form". |
| 2. | Specification 01 2100 – "Allowances" – under Part 3, Section 3.3, make the following revision: <ul style="list-style-type: none"> C. Allowance No. 3: Lump-Sum Allowance: Include the sum of \$25,000.00 for security installation. The General Contractor shall bid the security work out to a list of vendors provided by the Owner. The cost of this work shall be applied to the Allowance. |
| 3. | Specification 01 5000 – "Temporary Facilities and Controls" – under Part 3, Section 3.2, Section C – "Sanitary Facilities", make the following revision: <ul style="list-style-type: none"> 2. Wake County Courthouse: No toilet facilities will be provided for use in the Courthouse. |
| 4. | Add the attached Specification 02 0760-A – "Removal of Asbestos-Containing Thermal System Insulation". |
| 5. | Add the attached Specification 02 0820 – "Glovebag Removal Procedures". |
| 6. | Add the attached Specification 02 0840 – "Disposal of Asbestos-Containing Waste Materials". |
| 7. | Specification 03 4500 – "Precast Architectural Concrete" – under Part 2, Section 2.2, Section A, add the following item: <ul style="list-style-type: none"> 4. P&D Architectural Precast, Inc. |
| 8. | Add the attached Specification 08 5113 – "Aluminum Windows". |
| 9. | Specification 08 5125 – "Cold-Rolled Steel Windows" – under Part 2, Section 2.1, Section A – "Manufacturers", add the following item: <ul style="list-style-type: none"> 5. Curries Company, an Assa Abloy Group Company. |
| 10. | Add the attached Specification 09 6623 – "Resinous Matrix Terrazzo Flooring". |

CLARIFICATIONS

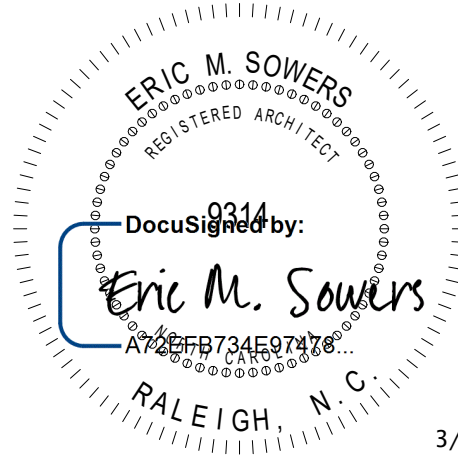
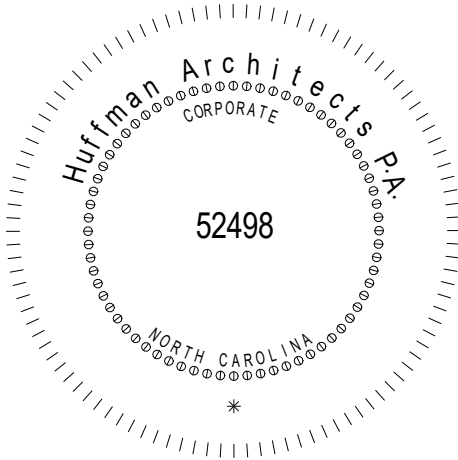
- | <u>Item No.</u> | <u>Description</u> |
|-----------------|---|
| 1. | The bid date will be moved back one week. Bids will now be due by Thursday, April 18, 2024, at 2:00PM. The cut-off date for questions will be Tuesday, April 9, 2024, at 12:00PM. The last addendum will be issued by Thursday, April 11. |
| 2. | An additional project walk-through is scheduled for Monday, April 1, 2024, at 2:00PM. Attendees shall meet in the Salisbury Street lobby of the Wake County Courthouse. |
| 3. | In November 2023, Wake County contracted with EEC, Inc. to identify any asbestos-containing materials on the Eighth Floor of the Wake County Office Building. The report is attached. |

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- 4. All other clarifications are included in section UU of the attached pre-bid conference minutes.

END OF ADDENDUM NUMBER ONE



3/29/2024

Wake County Office Building – 8th Floor and Skybridge Demolition
RFB #24-018

BID PROPOSAL FORM

(USE THIS FORM ONLY. Bids submitted on anything other than the form(s) provided may be considered non-responsive and subject to rejection)

SINGLE PRIME GENERAL CONSTRUCTION WORK
FORMAL CONTRACT

BIDDERS NAME

_____ License Number: _____

BASE BID PROPOSAL

The undersigned, as Bidder, hereby declares that the only person or persons interested in this Proposal as principal or principals is or are named herein and that no other person than herein mentioned has any interest in this Proposal or in the Contract to be entered into; that this Proposal is made without connection with any other person, company or parties making a Bid or Proposal; and that it is in all respects fair and in good faith without collusion or fraud.

The Bidder further declares that he has examined the site of the work and informed himself fully in regard to all conditions pertaining to the place where the work is to be done; that he has examined the specifications for the work and the Contract Documents relative thereto, including addenda, if any, and has read all special provisions furnished prior to the opening of bids; that he has satisfied himself relative to the work to be performed.

The Bidder proposes and agrees if this Proposal is accepted to contract with the County of Wake with a definite understanding that no money will be allowed for extra work except as set forth in the General Conditions and Contract Documents, for the sum of:

Base Bid _____ Dollars (\$_____).

SUBCONTRACTOR LISTING

PLUMBING CONTRACTOR

Name: _____ License Number: _____

\$ _____

HVAC CONTRACTOR

Name: _____ License Number: _____

\$ _____

ELECTRICAL CONTRACTOR

Name: _____ License Number: _____

\$ _____

FIRE ALARM CONTRACTOR

Name: _____ License Number: _____

\$ _____

FIRE SUPPRESSION CONTRACTOR

Name: _____ License Number: _____

\$ _____

DEMOLITION CONTRACTOR

Name: _____ License Number: _____

\$ _____

ABATEMENT CONTRACTOR

Name: _____ License Number: _____

\$ _____

UNIT PRICES

Unit prices are complete for labor, equipment, material, overhead and profit. Base bid includes the stipulated allowance quantity of each item. Unused amount will be credited to the Owner by change order at the end of the project.

Description	Unit Price	Unit Measure	Allowance Units
Plaster Ceiling Demolition		1 Square Foot	150
Abatement of Asbestos Containing TSI		1 Linear Foot	200
Abatement of Asbestos Containing Black Mastic		1 Square Foot	150

ALLOWANCES

Allowances indicated herein below shall be included in the Base Bid. See Section 01 2100.

- A. Allowance No. 1 – Include the sum of \$20,000 for building permit fees and unforeseen conditions.
- B. Allowance No. 2 – Include the sum of \$4,000 for voice/data.
- C. Allowance No. 3 - Include the sum of \$25,000 for security installation.
- D. Allowance No. 4 – Include a unit cost amount per unit-price requirements in Section 01 2200 “Unit Prices” for Plaster Ceiling Demolition. Allowance of 150 SF.
- E. Allowance No. 5 – Include a unit cost amount per unit-price requirements in Section 01 2200 “Unit Prices” for Abatement of Asbestos Containing TSI. Allowance of 200 Linear Feet.
- F. Allowance No. 6 – Include a unit cost amount per unit-price requirements in Section 01 2200 “Unit Prices” for Abatement of Asbestos Containing Black Mastic. Allowance of 150 Square Feet.

MINORITY BUSINESS PARTICIPATION REQUIREMENTS; 143.128.2.c

Provide with the bid - Under GS 143-128.2(c) the bidder shall identify and include **with the bid, Wake County Form MBE-1 Identity of Minority Business Participation**, the minority businesses that it will use on the project with the total dollar value of the bids that will be performed by the minority businesses. **All bidders must submit, with the bid, Wake County Form MBE-1 Identity of Minority Business Participation Form even if there is zero MBE participation.**

Also include with the bid a list of the good faith efforts made to solicit minority participation in the bid effort, **Wake County Form MBE-2 Listing of the Good Faith Effort.**

NOTE: A contractor that performs all of the work with its own workforce may submit **Wake County Form MBE-3-Intent to Perform Contract with Own Workforce**, to that effect in lieu of **Wake County Form MBE-2-Listing of the Good Faith Effort.**

After the bid opening - The Owner will consider all bids and alternates and determine the lowest responsible, responsive bidder. Upon notification of being the apparent lowest responsible, responsive bidder, the bidder must then file within 72 hours of the notification **Wake County Form MBE-4.** It includes that portion of the Work to be Performed by Minority Business. Also included is a description of the portion of work to be executed by minority businesses, expressed as a percentage of the total contract price, which is equal to or more than the 10% goal established. This affidavit shall give rise to the presumption that the bidder has made the required good faith effort and **Wake County Form MBE-5** is not necessary,

OR

If less than the 10% goal, **Wake County Form MBE-5** documenting all good faith efforts to meet the goal shall be provided. The document must include evidence of all good faith efforts that were implemented, including any advertisements, solicitations and other specific actions demonstrating recruitment and selection of minority businesses for participation in the project.

Note: Bidders must always submit **with their bid** the Identification of Minority Business Participation Form listing all MBE contractors, vendors, and suppliers that will be used. If there is no MBE participation, then enter none or zero on the form. **Wake County Form MBE-2** or **Wake County Form MBE-3** as applicable must also be submitted with the bid. Failure to submit a required affidavit or form with the bid or within the time required may be grounds for rejection of the bid.

Attach to Bid Form

**WAKE COUNTY FORM MBE-1 (2002)
IDENTIFICATION OF MINORITY BUSINESS PARTICIPATION FORM**

I _____
(Name of Bidder)

do hereby certify that on this project we will use the following minority business enterprises as construction subcontractors, vendors, suppliers or providers of professional services.

Firm Name, Address, Phone No.	Work Type	Minority Category

Minority Categories: Black, African American (B), Hispanic (H), Asian American (A), American Indian (I), Female (F), Socially and Economically Disadvantaged (D)

The total value of minority business contractors will be \$ _____.

Attach to Bid Form

Wake County – Form MBE-2 (2002)

Listing of the Good Faith Effort

Affidavit of _____
(Name of Bidder)

I have made a good faith effort to comply under the following areas checked:

Bidders must earn at least 50 points from the good faith efforts listed for their bid to be considered responsive. (1 NC Administrative Code 30 I.0101)

- 1 – (10 pts)** Contacted minority businesses that reasonably could have been expected to submit a quote and that were known to the contractor, or available on State or local government maintained lists, at least 10 days before the bid date and notified them of the nature and scope of the work to be performed.
- 2. -(10 pts)** Made the construction plans, specifications and requirements available for review by prospective minority businesses, or providing these documents to them at least 10 days before the bids are due.
- 3 - (15 pts)** Broken down or combined elements of work into economically feasible units to facilitate minority participation.
- 4 - (10 pts)** Worked with minority trade, community, or contractor organizations identified by the Office of Historically Underutilized Businesses and included in the bid documents that provide assistance in recruitment of minority businesses.
- 5 - (10 pts)** Attended prebid meetings scheduled by the public owner.
- 6 - (20 pts)** Provided assistance in getting required bonding or insurance or provided alternatives to bonding or insurance for subcontractors.
- 7 - (15 pts)** Negotiated in good faith with interested minority businesses and did not reject them as unqualified without sound reasons based on their capabilities. Any rejection of a minority business based on lack of qualification should have the reasons documented in writing.
- 8 - (25 pts)** Provided assistance to an otherwise qualified minority business in need of equipment, loan capital, lines of credit, or joint pay agreements to secure loans, supplies, or letters of credit, including waiving credit that is ordinarily required. Assisted minority businesses in obtaining the same unit pricing with the bidder's suppliers in order to help minority businesses in establishing credit.
- 9 - (20 pts)** Negotiated joint venture and partnership arrangements with minority businesses in order to increase opportunities for minority business participation on a public construction or repair project when possible.
- 10 - (20 pts)** Provided quick pay agreements and policies to enable minority contractors and suppliers to meet cash flow demands.

The undersigned, if apparent low bidder, will enter into a formal agreement with the firms listed in the Identification of Minority Business Participation schedule conditional upon scope of contract to be executed with the Owner. Substitution of contractors must be in accordance with GS 143-128.2(d). Failure to abide by this statutory provision will constitute a breach of the contract.

The undersigned hereby certifies that he or she has read the terms of the minority business commitment and is authorized to bind the bidder to the commitment herein set forth.

Date: _____

Name of Authorized Officer _____

Signature _____

Title: _____



State of North Carolina, County of _____

Subscribed and sworn to before me this __ day of _____ 20__

Notary Public _____

My commission expires _____

Attach to Bid Only If Bidder Performs All Work With Own Workforces

**Wake County Form MBE-3 (2002)
Intent to Perform Contract with Own Workforce**

Affidavit of

(Name of Bidder)

I hereby certify that it is our intent to perform 100% of the work required for the project

(Name of Project)

In making this certification, the Bidder states that the Bidder does not customarily subcontract elements of this type project, and normally performs and has the capability to perform and will perform all elements of the work on this project with his/her own current work forces; and

The Bidder agrees to provide any additional information or documentation requested by the owner in support of the above statement.

The undersigned hereby certifies that he or she has read this certification and is authorized to bind the Bidder to the commitments herein contained.

Date: _____

Name of Authorized Officer: _____

Signature: _____

Title: _____



State of North Carolina, County of _____

Subscribed and sworn to before me this __ day of _____ 20__

Notary Public _____

My commission expires _____

CERTIFICATION OF PROPOSER:

The Bidder further proposes and agrees hereby to commence work under his Contract on a date to be specified in a written order of Wake County and shall fully complete all work thereunder within the number of consecutive calendar days stipulated in the Supplementary General Conditions. Applicable liquidated damages shall be as stated in Supplementary General Conditions.

The undersigned acknowledges receipt of the following addenda issued during the time of bidding and includes the changes therein in this Proposal:

Addendum Number _____, Dated _____

Addendum Number _____, Dated _____

Addendum Number _____, Dated _____

The undersigned agrees that this Proposal will not be withdrawn for a period of sixty (60) days.

The undersigned agrees to comply with the E-Verify requirements of the General Statutes of North Carolina, all contractors, including any subcontractors employed by the contractor(s), by submitting a bid, proposal or any other response, or by providing any material, equipment, supplies, services, etc., attest and affirm that they are aware and in full compliance with Article 2 of Chapter 64, (NCGS64-26(a)) relating to the E-Verify requirements.

The undersigned agrees not to discriminate in any manner on the basis of race, natural hair or hairstyles, ethnicity, creed, color, sex, pregnancy, marital or familial status, sexual orientation, gender identity or expression, national origin or ancestry, marital or familial status, pregnancy, National Guard or veteran status, religious belief or non-belief, age, or disability with reference to the subject matter of this Contract. The Parties agree to comply with the provisions and intent of Wake County Ordinance SL 2017-4. This anti-discrimination provision shall be binding on the successors and assigns of the Parties with reference to the subject matter of this Contract.

The undersigned further agrees that in the case of failure on his part to execute the said Contract and the Bond within ten (10) consecutive calendar days after written notice being given of the award of the Contract, the check, cash or Bid Bond accompanying this Bid shall be paid into the funds of Owner's Account set aside for this Project, as liquidated damages for such failure; otherwise the check, cash or Bid Bond accompanying this Proposal shall be returned to the undersigned.

Respectfully submitted this ___ day of _____, 20__

PROPOSER SIGNATURE PAGE

(Name of Firm or Corporation making Bid)

By: _____

WITNESS:

(Proprietorship or Partnership)

Title: _____
(Owner, Partner, or Corporation President
or Vice President only)

Address: _____

License Number: _____



Affix Corporate Seal Above

ATTEST:

By: _____

Title: _____
(Corporation Secretary or Assistant Secretary only)

**WAKE COUNTY OFFICE BUILDING
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Huffman Architects, PA

SECTION 02 0760-A - REMOVAL OF ASBESTOS-CONTAINING THERMAL SYSTEM INSULATION**PART 1 GENERAL**

- 1.01 Prepare jobsite(s) per applicable articles for specified removal "**Decontamination Units**" or "**Work Area Preparations**" as required for asbestos removal to comply with NC-HHCU and EPA and OSHA regulations.
- 1.02 Submit the Material Safety Data Sheets (MSDS), or equivalent, in accordance with OSHA Hazard Communication Standard (29 CFR 1910.1200) for each surfactant and encapsulating material proposed for use on the Work.
- 1.03 Prior to asbestos abatement, the Abatement Contractor's equipment, Work Area and Decontamination Unit(s) will be inspected and approved by the Designer or his Air Monitor on site.

PART 2 PRODUCTS

Not Applicable.

PART 3 EXECUTION

- 3.01 The Abatement Contractor shall remove all ACM and non-ACM pipe insulation along with all pipes as per the specifications. Pipes can be cut except no cutting shall be done on any asbestos materials. Only non-active lines can be cut if marked on plumbing or heating lines.
- 3.02 Asbestos containing materials are existing above ceiling or in chases around the columns or in plumbing chases near the restrooms. Asbestos-containing thermal system insulation (TSI) shall generally be removed using glovebag removal where required and specified and on the Drawings, as follows:
- A. Preclean the Work Area. See, "**Glovebag Removal Procedures**" for specific requirements for precleaning. Put six mil poly underneath the work area before attaching glovebag.
- B. Attach the glovebag as per the manufacturer's recommendation(s). Ensure that each bag is properly installed and sealed. The Air Monitor and/or Designer shall inspect the installation of each glovebag prior to the Abatement Contractor being permitted to commence the work. The Abatement Contractor shall provide smoke tube to be used to ensure that each glovebag is properly attached and sealed. Use glovebag as required and then after removal of insulation in glovebag, cut the pipes in manageable sizes.
- C. A fine spray/mist of the amended water shall be applied, using spray fiber release before and during removal of the identified asbestos-containing insulation. Allow time for water, amended water or removal encapsulant to penetrate the insulation thoroughly before disturbing the insulation. The insulating material shall be sufficiently saturated, without causing excess dripping, to prevent emission of airborne asbestos fibers and to comply with OSHA and NESHAP requirements. Remove materials in manageable quantities using care not to overweight the glovebag. Spray the ACM repeatedly during disturbance to maintain a "wet" condition and to minimize the release of fibers.
- D. Wet-wipe the pipeline and all tools before removing the glovebag from the pipeline.

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- E. Evacuate contaminated air from the glovebag through a HEPA-equipped vacuum.
 - F. Carefully remove the glovebag(s) from the pipeline, seal and place each glovebag in a waste disposal bag and “gooseneck” seal each bag. Insert only one seal glovebag in each waste disposal bag to prevent breakage. Waste disposals shall be performed as specified in Section 020840A, entitled “**Disposal of Asbestos-Containing Waste Materials**”.
 - G. The Abatement Contractor shall use an adequate number of negative air-pressurizing machines equipped with HEPA filtration systems in conjunction with polyethylene “drop cloths” as a precaution in case of an accidental breakage of the glovebag and/or release of asbestos fibers.
 - H. After inspection, clean the area and remove waste in to another waste bag.
- 3.03 If removal of the asbestos-containing thermal system insulation **cannot** be performed using glovebags, then the Abatement Contractor will be required to perform the required abatement within a negative pressure enclosure system, as follows:
- A. Boiler should be isolated and covering around must be removed carefully and then remove required insulation and then cut the boiler and remove from the building.
 - B. Preclean and prepare the regulated Work Area as required.
 - C. The identified asbestos-containing TSI shall be sprayed with water containing an appropriate wetting agent (amended water) to enhance penetration. The wetting agent used shall be absorbed by the material being removed.
 - D. Remove the TSI. Residue material(s) shall be removed using nylon bristled hand brush. Remove materials in manageable quantities and immediately insert the material inside a waste disposal bag. Do not allow material to dry. Seal each waste disposal bag, clean the outside and move the bag(s) to the Washdown Station adjacent to Waste Decontamination Unit.
 - E. Clean all surfaces in the removal area by wet wiping, HEPA vacuuming or washing down with hoses. Clean the area from the top down. Excess water and debris shall be cleaned using a HEPA-equipped vacuum or by being placed in waste disposal bags. HEPA-equipped vacuum(s) shall contain filtration system(s) equipped to remove particles down to a size of 5-microns.
- 3.04 Removal shall be performed by two-man teams. There shall be a separate water source for each asbestos team in the Work Area. Waste disposals shall be performed as specified in Section 020840A.
- 3.05 Each bag shall be individually sealed and placed in containers, at a minimum a second waste disposal bag, suitable for transport to the landfill.
- 3.06 All material shall be double-bagged and the outside bag and container shall be clean before leaving the Waste Decontamination Unit. Contaminated materials such as panels, pipe, etc., may be wrapped in at least two (2) layers of properly labeled polyethylene sheeting, as an alternative to using plastic bags. The bags and containers shall be labeled as per OSHA, NESHAP, DOT, State and local regulations. All waste may be inspected by the Building Owner’s representative prior to disposal.
- 3.07 All excess water (except shower water) shall be either combined with removed material or other absorptive material and properly disposed of as per Section 020840A, or filtered, using a 5-micron filter and disposed in the sanitary sewage system. The Contractor shall NOT place water in storm drains, onto lawns, or into ditches, creeks, streams, rivers or oceans.

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- 3.08 After final clean up procedures have been completed as outlined in Section 017110, entitled "**Project Decontamination**", porous substrata which can be assumed to have some degree of non-visible contamination from prior exposure shall receive a thin coat of a satisfactory encapsulating agent to seal in non-visible residue.
- 3.09 After visual inspection completion and acceptance by the air monitor, the air monitor shall finally air samples in an aggressive manner by disturbing air currents with 1 hp leaf blower supplied by the Abatement Contractor.

END OF SECTION 02 0760-A

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SECTION 02 0820 - "GLOVEBAG REMOVAL PROCEDURES"**PART 1 GENERAL:**

- 1.1 Drawings and general provisions of Contract, including General and Supplementary Conditions and other Specification sections, apply to work of this section.
- 1.2 Glovebag procedures must be performed in strict compliance with OSHA requirements, a copy of which is attached herein.
- 1.3 Prepare work sites "DECONTAMINATION UNITS" and "WORK AREA PREPARATION" as recommended by NC-HHCU and EPA requirements.
- 1.4 Submit the Material Safety Data, or equivalent, in accordance with OSHA Hazard Communication Standard (29 CFR 1910.1200) for each surfactant and encapsulating material proposed for use on the work. Include a separate attachment for each sheet indicating the specific worker protective equipment proposed for use with the material indicated.

BEFORE STARTING THE GLOBEBAG:

- 1.5 Two persons are required to perform the glove bag removal project. A third person is often helpful to assist with the supplies, to keep unwanted visitors out of the work area, and to conduct the air monitoring. Each of the team members should have received training on the use and limitations of glove bag removal projects. They will also be participating in the respiratory protection program and medical surveillance program.
- 1.6 Before any work begins, all necessary materials and supplies should be brought to the work area. This work area should be roped off and warning signs posted on the perimeter to minimize the chance of visitors entering this area. Barrier tape (3") with a preprinted asbestos warning label works well for this. With this completed the following generic guidelines may be used for most pipe lagging projects. **REMEMBER -- NEVER PERFORM GLOVE BAG REMOVAL ON HOT PIPES (OVER 150°F).** This may cause the bag or gloves to melt over the workers' hands and arms.
- 1.7 **REMOVAL PROCEDURES**
 - A. Following the manufacturer's directions, mix the surfactant with water in the garden sprayer.
 - B. Have each employee put on a dual cartridge respirator and perform proper fit-checks.
 - C. Have each employee put on a disposable full body suit. **Remember, the hood goes over the respirator straps.**
 - D. Check the pipe where the work will be performed. If it is damaged (broken, torn, etc.), wrap the pipe in polyethylene plastic and "candystripe" it with duct tape. Clean the floor area underneath the glovebag to make sure all the debris are removed before the start of the glovebag is put on the pipe or fitting. If the pipe is undamaged, it is still necessary to place one layer of duct tape around the pipe at each end where the glove bag will be attached. This serves two purposes: it provides a good surface to which to seal the ends of the glove bag, and it minimizes the chance of releasing fibers when the tape at the ends of the glove bag is removed upon completion of the job.

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- E. Slit the top of the glove bag open (if necessary) and cut down the sides to accommodate the size of the pipe (about two inches longer than the pipe diameter). One brand has a zipper top and straps at each end facilitating installation of the bag on the pipe.
- F. Place the necessary tools into the pouch located inside the glove bag. This will usually include a bone saw, utility knife, rags, scrub brush, wire cutters, tin snips, and wettable cloth. NOTE: It is easiest to pre-cut the wettable cloth at this point. Cut out a donut shape with the inner diameter of the pipe beneath the insulation. The outer diameter of the donut should be three inches longer than the diameter of the pipe insulation being removed. Finally, cut a slit in each of the donuts so they can be slipped around the pipe.
- G. Place one strip of duct tape along the edge of the open top slit of the glove bag for reinforcement.
- H. Place the glove bag around the section of the pipe to be worked on, then staple the top together through the reinforcing duct tape. Staple at intervals of approximately one inch. Next, fold the stapled top flap back and tape it down to the strip of duct tape. This should provide an adequate seal along the top. Next, duct tape the ends of the glove bag to the pipe itself, previously covered with plastic or duct tape.
- I. Using the smoke tube and aspirator bulb, place the tube into the water sleeve (two-inch opening top the glove bag). By squeezing the bulb, fill the bag with visible smoke. Remove the smoke tube and twist the water sleeve closed. While holding the water sleeve tightly, gently squeeze the glove bag and look for smoke leaking out, especially at the top and ends of the bag. If leaks are found, they should be taped and closed using duct tape and the bag should be re-tested.
- J. Insert the wand from the water sprayer through the water sleeve. Using duct tape, tape the water sleeve tightly around the wand to prevent leakage.
- K. One person places his hand into the long-sleeved gloves while the second person directs the water sprayer at the work.
- L. If the section of pipe is covered with an aluminum jacket, remove the jacket by using the wire cutters to cut any bands and the tin snippers to remove the jacket itself. It is important to fold any sharp edges in order to prevent cutting the bag when it is placed in the bottom. Use caution to prevent cuts as the edges are sharp sometimes.
- M. Using the bone saw to cut the exposed insulation at each end of the section to be removed, if requested.

NOTE: A bone saw is a serrated heavy gauge wire with ring-type handles at each end. Throughout this process water is sprayed on the cutting area to keep dust to a minimum.
- N. Once the ends are cut, the section of insulation should be slit from end to end using the utility knife. The cut should be made along the bottom of the pipe and water continuously supplied. Again care should be taken when using the knife not to puncture the bag. Some insulation may have wire to be clipped as well.
- O. Rinse all tools with water inside the bag and place back into pouch.
- P. The insulation can now be lifted off the pipe and gently placed in the bottom of the bag.
- Q. Using the scrub brush, rags, and water, scrub and wipe down the exposed pipe.
NOTE: Inexpensive horse rub down mittens work well for this.

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- R. Wet the donut shaped pieces of wettable cloth and place it over the exposed ends of the insulation remaining on the pipe.
- S. Remove the water wand from the water sleeve and attach the small nozzle from the HEPA-filtered vacuum. Turn on the vacuum only briefly to collapse the bag.
- T. Remove the vacuum nozzle and twist the water sleeve closed and seal with duct tape.
- U. From outside the bag, pull the tool pouch away from the bag and twist it to separate it from the bag. Place duct tape over the twisted portion and cut the tool bag from the glove bag, cutting through the twisted/taped section. In this manner, the contaminated tools may be placed directly into the glove bag without cleaning them. Alternatively, the tool pouch with the tools can be placed in a bucket of water, opened under water, and the tools cleaned and dried without releasing asbestos into the air. NOTE: rags and scrub brush cannot be cleaned in this manner and should be discarded with the asbestos waste. If more than one adjacent section of pipe is to be removed, the glove bag may be loosened at each end and slid along the pipe to the next section. In this case, the tools would remain in the bag for continued use.
- V. With the removed insulation in the bottom of the bag, twist the bag several times and tape it to keep the material in the bottom during removal of the glove bag from the pipe.
- W. Slip a 6-mil disposable bag over the glove bag (still attached to the pipe). Remove the tape and open the top of the glove bag and fold it down into the disposable bag.
- X. Remove the disposable suits and put them into the bag with the waste.
- Y. Twist the top of the bag to close it, fold it to goose neck it and then seal with duct tape. Label the bag with an asbestos warning label.
- Z. Using clean damp rag, wipe the exterior of the respirator and leave the work area. Remove the respirator.
- AA. Asbestos-containing material must be disposed of in an approved landfill in accordance with EPA regulations.
- BB. Air sampling should be conducted during and after completion of glovebag projects to determine if any detectable leakage occurred. Sampling must be done by qualified person and immediate analysis must be provided. Once the area has been found to be safe for unprotected personnel, the barriers can be removed.

END OF SECTION 02 0820

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SECTION 02 0840 - DISPOSAL OF ASBESTOS-CONTAINING WASTE MATERIALS**PART 1 GENERAL**

- 1.01 Drawings and general provisions of Contract including General and Supplementary Conditions and other Specification Sections apply to Work of this Section.
- 1.02 As the work progresses, to prevent exceeding available storage capacity onsite, sealed and labeled containers of asbestos-containing waste shall be removed and transported directly to the prearranged disposal location, which must be an authorized site in accordance with regulatory requirements of NESHAP and DOT. All waste (including containers) shall be labeled as required by OSHA, NESHAP, DOT, State and local regulations.
- 1.03 Any containerized asbestos-containing waste that must be stored onsite until proper disposal must be adequately posted and enclosed to prevent any possible tampering by others.
- 1.04 The Abatement Contractor shall provide documentation in the form of a transportation and disposal manifest and disposal bonding insurance to the Designer with the request for final payment. All asbestos-containing waste generated must be accounted for by these records and copies of all such records shall be delivered to Duplin County, Designer and the North Carolina Health Hazards Control Unit (HHCUC). Manifest forms are available from the HHCUC. Only HHCUC forms will be acceptable.
- 1.05 Disposal bags for asbestos waste shall be of 6 mil thickness and shall be pre-printed with labels, markings and address as required by OSHA, EPA and DOT regulations.
- 1.06 All asbestos-containing waste shall be initially bagged in opaque bags. The bags shall be double-bagged with clear bags and the wrapped items shall be double wrapped with clear 6-mil poly waste bags. Any grid work, black iron, lights etc. shall be initially wrapped in 6-mil black poly.
- 1.07 The exterior of all contaminated waste disposal bags and poly-wrapped materials shall be washed before going through the Waste Loadout in order to avoid the release of "dried" asbestos-containing debris outside the containment.
- 1.08 The moveable containers can be used to move bags/containers from the loadout area to covered trucks. No rental vehicles shall be used for the transport of asbestos waste unless a letter of notification has been sent to the rental agency and an authorization letter has been received by the Abatement Contractor and submitted to the Designer.

PART 2 Not Applicable.**PART 3 EXECUTION**

TRANSPORTATION TO THE LANDFILL:

- 3.01 Once containers or bags (polyethylene or burlap) or wrapped components (two individual layers of 6-mil polyethylene sheeting) have been removed from the Work Area, they shall be loaded into an enclosed truck for transport to the landfill.
- 3.02 The enclosed cargo area of the truck shall be free of debris and lined with 6-mil polyethylene sheeting to prevent contaminated materials from leaking or spilling into the cargo area. Floor

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sheeting shall be installed first and extend up the sidewalls. Wall sheeting shall be overlapped and taped into place.

- 3.03 All containers shall be placed on level surfaces in the cargo area and packed tightly together to prevent shifting and tipping. Large components shall be secured to prevent shifting and bags placed on top. Do not throw containers into truck cargo area.
- 3.04 Workers loading asbestos-containing waste shall be protected by disposable clothing including head, body and foot protection and, at a minimum, half-face, air-purifying, dual cartridge respirators equipped with HEPA filters.
- 3.05 Any debris or residue observed on containers or surfaces outside of the Work Area resulting from cleanup or disposal activities shall be immediately cleaned up using HEPA filtered vacuum equipment and/or wet cleaning methods, as appropriate.

DISPOSAL AT THE LANDFILL:

- 3.06 Upon reaching the landfill, trucks are to approach the dump location as closely as possible for unloading of the asbestos-containing waste.
- 3.07 Bags, drums and components must be inspected as they are off-loaded at the disposal site. Damaged containers shall be very carefully taped shut and re-packed into drums or bags, as applicable. Waste containers shall be placed on the ground at the disposal site, not pushed or thrown out of trucks (weight of wet material could rupture containers).
- 3.08 Personnel off-loading containers at the disposal site shall wear protective equipment consisting of disposable head, body and foot protection and, at a minimum, half-face, air-purifying, dual cartridge respirators equipped with HEPA filters.
- 3.09 Following the removal of all containerized waste, the truck cargo area shall be decontaminated using HEPA vacuums and/or wet methods to meet the no visible residue criteria. Polyethylene sheeting shall be removed and discarded along with contaminated cleaning materials and protective clothing, in bags or drums, at the disposal site.

END OF SECTION 02 0840

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SECTION 08 5113 - ALUMINUM WINDOWS

PART 1 GENERAL

1.01 SUMMARY

- A. Related Documents: Conditions of the Contract, Division 1 - General Requirements, and Drawings apply to Work of this Section.
- B. Section Includes:
 - 1. Aluminum Prime Windows
 - a. Type: Fixed.
 - b. Category: Architectural (AW).
 - c. Designation: AW70.
- C. Related Sections:
 - 1. Drawings, General and Supplementary Conditions of the Contract, Division 1 and the following Specification Sections, apply to this Section.
 - 2. Section 07 9200 – “Joint Sealants.”
 - 3. Section 08 5113 – “Aluminum Windows.”
 - 4. Section 08 8000 – “Glazing.”

1.02 REFERENCES

- A. American Architectural Manufacturers Association (AAMA):
 - 1. AAMA/WDMA/CSA 101/I.S.2/A440—Standard Specifications for Windows, Doors, and Skylights.
 - 2. AAMA 910 – Voluntary “Life Cycle” Specifications and Test Methods for AW Class Architectural Windows and Doors.
 - 3. 1503 – Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections.
- B. American National Standards Institute (ANSI):
 - 1. ANSI Z97.1 - American National Standard for Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test.
- C. ASTM International:
 - 1. ASTM E283 - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
 - 2. ASTM E330 - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
 - 3. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.
 - 4. ASTM E2188 - Standard Test Method for Insulating Glass Unit Performance.
 - 5. ASTM E2189 - Standard Test Method for Testing Resistance to Fogging in Insulating Glass Units.

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6. ASTM E2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation.

1.03 SYSTEM DESCRIPTION

A. Test Procedures and Performance:

1. Specifications for Windows, Doors and Unit Skylights: AAMA 101.
2. Air Infiltration Test: ASTM E 283, at 6.24 psf static air pressure differential. Air infiltration shall not exceed 0.10 CFM per sq. ft.
3. Water Resistance Test: ASTM E 331, no water leakage at 12 psf static air pressure differential.
4. Uniform Load Deflection Test: ASTM E 330, at static air pressure of +/- 70 psf. No member shall deflect more than 1/175 of its span.
5. Uniform Load Structural Test: ASTM E 330, at static air pressure difference of +/- 105 psf.
6. Condensation Resistance Test: AAMA 1503.1, CRF shall be not less than 55.
7. Thermal Transmittance Test: AAMA 1503.1, U-Value shall not exceed .60 BTU/HR/SQ.FT/°F.

1.04 SUBMITTALS

A. Provide submittals in a timely manner to meet required construction completion schedule and in accordance with specifications.

1. Shop Drawings:

- a. Shop drawings will be prepared by the window manufacturer. Shop drawings prepared by window distributor, installer, representative/dealer of outside drafting firm are not acceptable.
- b. Shop drawings must be specific to the project. Standard details will not be accepted.
- c. Show components complete with dimensions, material and details of anchoring and fastening.
- d. Show finishes, sealants and other information indicating compliance with specifications.
- e. Submit test report per 1.03 SYSTEM DESCRIPTION A. Test Procedures and Performance.

2. Samples:

- a. Components: submit samples of anchors, fasteners, hardware, assembled corner sections and other materials and components if requested by architect.
- b. Finish: submit full range color samples for approval by architect.

3. Warranties: submit written copies in accordance with - 1.08 WARRANTIES

1.05 DELIVERY, STORAGE AND HANDLING

A. Protect materials from damage before installation per instructions and in accordance with specifications.

1.06 QUALITY ASSURANCE

A. Installer Qualifications: An experienced installer that has completed the same or similar projects in size and scope.

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- B. Source Limitations: Obtain aluminum windows from single source manufacturer.
- C. In-House Testing: Conduct air and/or water testing of 2% windows prior to shipping.
 - 1. Detailed documentation on in-house testing is available upon request.

1.07 PROJECT / SITE CONDITIONS

- A. Ensure ambient and surface temperatures and joint conditions are suitable for installation of materials.

1.08 WARRANTY

- A. Window System:
 - 1. Qualified window manufacturer, with proven financial responsibility and years of experience of at least the length of the warranty period shall provide written 10 year warranty against defects in materials and workmanship.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Basis of Design: Aluminum windows are based on Signature Series 12PL as manufactured by Oldcastle. Subject to compliance with requirements provide the named products or comparable products by one of the following:
 - 1. Kawneer North America.
 - 2. YKK AP America, Inc,

2.02 MATERIALS

- A. Hardware: material shall be corrosion resistant and compatible with aluminum. Hardware must prove its strength and suitability by being installed on units that are tested in accordance with specifications.
 - 1. Fasteners: provide non-magnetic stainless steel screws, epoxy adhesives, or other material warranted by the manufacturer.
- B. Sealants: color of exposed sealants shall be compatible with adjacent window materials. Comply with AAMA 803.3.
- C. Glazing: windows shall be factory glazed unless too large or unsafe for handling.
 - 1. Glass: provide in accordance with Section 08 8000 "Glazing."
 - 2. Glazing Materials: units shall be exterior wet glazed using silicone cap beads, setting blocks, edge blocks and accessories as recommended by and in accordance with GANA Glazing Manual.

2.03 FABRICATION

- A. Frames: shall be machined, mechanically fastened and sealed to form a watertight joint.

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- B. Component Forming: all aluminum components shall be formed, free of scratches and burrs, before application of finish.

2.04 FINISHES

- A. Cover all exposed areas of aluminum windows and components. Overall finish shall be Clear Anodized, Color Anodized or 70% Polyvinylidene Fluoride, as required to match existing.

- 1. Clear Anodized:

- a. Type: Architectural Class I clear anodizing.
- b. AAMA Specification: Comply with AAMA 611.
- c. Aluminum Association Designation: AA-M10-C22-A41.

- 2. Color Anodized:

- a. Type: Architectural Class I for color anodizing.
- b. AAMA Specification: Comply with AAMA 611.
- c. Aluminum Association Designation: AA-M10-C22-A44.

- 3. 70% Polyvinylidene Fluoride:

- a. Type: high performance baked-on organic coating.
- b. AAMA Specification: Comply with AAMA 2605.

PART 3 EXECUTION**3.01 EXAMINATION**

- A. Verify that openings are dimensionally within allowable tolerances, plumb, level, clean, provide a solid anchoring surface and are in accordance with approved shop drawings.

3.02 INSTALLATION

- A. Install windows with skilled tradesman in accordance with approved shop drawings and specifications.
- B. Unfinished aluminum shall be insulated from direct contact with steel, masonry concrete, and non-compatible materials by bituminous paint, zinc chromate primer or other suitable insulating material.
- C. Install vapor retarder/air barrier in accordance specifications between window perimeter and adjoining collateral materials and existing wall barriers to assure continuity.
- D. Plumb window faces in a single plane for each wall plane. Erect square and true. Anchor to maintain position when subjected to normal thermal and building movement, seismic forces and specified wind loads.
- E. Apply sealants at joints and intersections and at opening perimeters in accordance with approved shop drawings and Section 07 93 13 to provide watertight installation.

3.03 FIELD QUALITY CONTROL

- A. Conduct on-site air and water infiltration tests in accordance with AAMA 502, ASTM E 783, ASTM E 1105, and with architect and window manufacturer's representative

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present. Architect will select units to be tested. Air infiltration shall not exceed 1.5 x air infiltration amount specified for laboratory testing.

- B. Tested units not meeting specified requirements and units having similar deficiencies shall be corrected at no cost to owner.
- C. Cost for successful tests shall be paid by owner. Unsuccessful tests shall be paid by contractor.
- D. Testing shall be by agency acceptable to architect and window manufacturer and employed by contractor.

3.04 CLEANING

- A. After installation and testing, windows and glazing shall be inspected, adjusted, and left clean and free of labels and dirt. Protect finished installation against damage.
- B. Final cleaning of anodized finish shall be in accordance with AAMA 609.1; painted finish shall be in accordance with AAMA 610.1.

END OF SECTION 08 5113

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SECTION 09 6623 - RESINOUS MATRIX TERRAZZO FLOORING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Patching and repair of existing epoxy-resin terrazzo flooring.

- B. Related Requirements:

- 1. Section 01 7300 "Execution" for cutting and patching of existing construction.
- 2. Section 02 4119 "Selective Demolition" for removal requirements of existing construction.
- 3. Section 07 9200 "Joint Sealants" for sealants installed with terrazzo.

1.3 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

- 1. Review methods and procedures related to terrazzo including, but not limited to, the following:
 - a. Inspect and discuss condition of substrate and other preparatory work performed by other trades.
 - b. Review and finalize construction schedule and verify availability of materials, installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - c. Review special terrazzo designs and patterns.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.

- B. Samples for Verification: For each type, material, color, and pattern of terrazzo and accessory required showing the full range of color, texture, and pattern variations expected. Label each terrazzo Sample to identify manufacturer's matrix color and aggregate types, sizes, and proportions. Prepare Samples of same thickness and from same material to be used for the Work, in sizes indicated below:

- 1. Terrazzo: 6-inch- (150-mm-) square Samples.
- 2. Accessories: 6-inch- (150-mm-) long Samples of each exposed strip item required.

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1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For terrazzo to include in maintenance manuals.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications:
 - 1. Engage an installer who is a contractor member of NTMA.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to Project site in supplier's original wrappings and containers, labeled with source's or manufacturer's name, material or product brand name, and lot number if any.
- B. Store materials in their original, undamaged packages and containers, inside a well-ventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity.

1.8 FIELD CONDITIONS

- A. Environmental Limitations: Comply with manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting terrazzo installation.
- B. Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during terrazzo installation.
- C. Close spaces to traffic during terrazzo application and for not less than 24 hours after application unless manufacturer recommends a longer period.
- D. Control and collect water and dust produced by grinding operations. Protect adjacent construction from detrimental effects of grinding operations.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. General Polymers Corporation.
 - 2. Key Resin Company.
 - 3. Master Terrazzo Technologies.
- B. Source Limitations: Obtain primary terrazzo materials from single source from single manufacturer. Provide secondary materials including patching and fill material, joint sealant, and repair materials of type and from source recommended by manufacturer of primary materials.

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- C. Source Limitations for Aggregates: Obtain each color, grade, type, and variety of granular materials from single source with resources to provide materials of consistent quality in appearance and physical properties.

2.2 PERFORMANCE REQUIREMENTS

- A. NTMA Standards: Comply with NTMA's written recommendations for terrazzo type indicated unless more stringent requirements are specified.

2.3 EPOXY-RESIN TERRAZZO

- A. Epoxy-Resin Terrazzo: Comply with manufacturer's written instructions for matrix and aggregate proportions and mixing.

- B. Mix Color and Pattern: As required to match existing.

- C. Thickness: Match existing.

- D. Materials:

1. Moisture-Vapor-Emission-Control Membrane: Two-component, high-solids, high-density, low-odor, epoxy-based membrane-forming product produced by epoxy terrazzo manufacturer that reduces moisture emission from concrete substrate to not more than 3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m) in 24 hours.
2. Substrate-Crack-Suppression Membrane: Product of terrazzo-resin manufacturer, having minimum 120 percent elongation potential according to ASTM D412.
3. Primer: Manufacturer's product recommended for substrate and use indicated.
4. Epoxy-Resin Matrix: Manufacturer's standard recommended for use indicated and in color required for mix indicated.

- a. Physical Properties without Aggregates:

- 1) Hardness: 60 to 85 per ASTM D2240, Shore D.
- 2) Minimum Tensile Strength: 3000 psi (20.7 MPa) per ASTM D638 for a 2-inch (51-mm) specimen made using a "C" die per ASTM D412.
- 3) Minimum Compressive Strength: 10,000 psi (6.9 MPa) per ASTM D695, Specimen B cylinder.
- 4) Chemical Resistance: No deleterious effects by contaminants listed below after seven-day immersion at room temperature per ASTM D1308.

- a) Distilled water.
- b) Mineral water.
- c) Isopropanol.
- d) Ethanol.
- e) 0.025 percent detergent solution.
- f) 1.0 percent soap solution.
- g) 5 percent acetic acid.
- h) 10 percent sodium hydroxide.
- i) 10 percent hydrochloric acid.
- j) 30 percent sulfuric acid.

- b. Physical Properties with Aggregates: For terrazzo blended according to manufacturer's recommendations with one part epoxy resin with three parts marble

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aggregate consisting of 60 percent No. 1 chips and 40 percent No. 0 chips that is ground and grouted to a 1/4-inch (6.35-mm) nominal thickness, and cured for 7 days at 75 deg F (24 deg C) plus or minus 2 deg F (1 deg C) and at 50 percent plus or minus 2 percent relative humidity.

- 1) Flammability: Self-extinguishing, maximum extent of burning 1/4 inch (6.35 mm) according to ASTM D635.
 - 2) Thermal Coefficient of Linear Expansion: 0.0025 inch/inch per deg F (0.0025 mm/mm per 0.5556 deg C) according to ASTM C531.
5. Marble Chips: Comply with NTMA gradation standards for mix indicated and contain no deleterious or foreign matter.
- a. Hardness: Ha – 10 minimum per ASTM C 241.
 - b. 24-Hour Absorption Rate: Less than 0.75 percent.
 - c. Dust Content: Less than 1.0 percent by weight.
6. Finishing Grout: Resin based.

2.4 STRIP MATERIALS

- A. Divider Strips: L-type angle in depth required for topping thickness indicated.
1. Material: White zinc alloy.
 2. Top Width: 1/8 inch (3.2 mm).
 3. Adhesive: As recommended or approved by terrazzo manufacturer.
- B. Control-Joint Strips: Separate, double L-type angles, positioned back to back, that match material and color of divider strips and in depth required for topping thickness indicated.

2.5 MISCELLANEOUS ACCESSORIES

- A. Patching and Fill Material: Terrazzo manufacturer's resinous product approved and recommended by manufacturer for application indicated.
- B. Joint Compound: Terrazzo manufacturer's resinous product approved and recommended by manufacturer for application indicated.
- C. Resinous Matrix Terrazzo Cleaner: Chemically neutral cleaner with pH factor between 7 and 10 that is biodegradable, phosphate free, and recommended by sealer manufacturer for use on terrazzo type indicated.
- D. Sealer: Slip- and stain-resistant, penetrating-type sealer that is chemically neutral; does not affect terrazzo color or physical properties; and is recommended by sealer manufacturer.
1. Surface Friction: Not less than 0.6 according to ASTM D2047.

**WAKE COUNTY OFFICE BUILDING
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- A. After removal of existing construction, examine substrates and areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions, including levelness tolerances, have been corrected.

3.2 PREPARATION

- A. Clean substrates of substances, including oil, grease and curing compounds, that might impair terrazzo bond. Provide clean, dry, and neutral substrate for terrazzo application.
- B. Concrete Slabs:
 - 1. Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil and other contaminants incompatible with terrazzo.
 - a. Shot-blast surfaces with an apparatus that abrades the concrete surface, contains the dispensed shot within the apparatus, and recirculates the shot by vacuum pickup.
 - b. Repair damaged and deteriorated concrete according to terrazzo manufacturer's written instructions.
 - c. Use patching and fill material to fill holes and depressions in substrates according to terrazzo manufacturer's written instructions.
- C. Verify that concrete substrates are dry and moisture-vapor emissions are within acceptable levels according to manufacturer's written instructions.
- D. Preinstallation Moisture Testing:
 - 1. Testing Agency: Engage a qualified testing agency to perform tests.
 - 2. Moisture Testing: Perform tests so that each test area does not exceed 200 sq. ft. (18.6 sq. m) and perform no fewer than three tests in each installation area and with test areas evenly spaced in installation areas.
 - a. Moisture-Vapor-Emission Test: Maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m) in 24 hours when tested according to ASTM F1869 using anhydrous calcium chloride.
 - b. Relative Humidity Test: Maximum 75 percent relative humidity measurement when tested according to ASTM F2170 using in-situ probes.
 - 3. Proceed with terrazzo installation only after concrete substrates pass moisture testing.
- E. Moisture-Vapor-Emission-Control Membrane: Install according to manufacturer's written instructions.
 - 1. Install on concrete substrates that incorporate lightweight aggregates.
 - 2. Install concrete substrates that fail preinstallation moisture testing.

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- F. Substrate-Crack-Suppression Membrane: Install to isolate and suppress substrate cracks according to manufacturer's written instructions.
 - 1. Prepare and prefill substrate cracks with membrane material.
 - 2. Install membrane at substrate cracks in areas to receive terrazzo.
- G. Protect other work from water and dust generated by grinding operations. Control water and dust to comply with environmental protection regulations.
 - 1. Erect and maintain temporary enclosures and other suitable methods to limit water damage and dust migration and to ensure adequate ambient temperatures and ventilation conditions during installation.

3.3 EPOXY-RESIN TERRAZZO INSTALLATION

- A. Comply with NTMA's written recommendations for terrazzo and accessory installation.
- B. Strip Materials:
 - 1. Divider and Control-Joint Strips:
 - a. Locate divider strips in locations indicated.
 - b. Install control-joint strips back to back and directly above concrete-slab control joints.
 - c. Install control-joint strips with 1/4-inch (6.4-mm) gap between strips, and install sealant in gap.
 - d. Install strips in adhesive setting bed without voids below strips or mechanically anchor strips as required to attach strips to substrate, as recommended by strip manufacturer.
- C. Apply primer to terrazzo substrates according to manufacturer's written instructions.
- D. Place, rough grind, grout, cure grout, fine grind and finish terrazzo according to manufacturer's written instructions.
 - 1. Installed Thickness: Match existing.
 - 2. Terrazzo Finishing: Ensure that matrix components and fluids from grinding operations do not stain terrazzo by reacting with divider and control-joint strips.
 - a. Rough Grinding: Grind with 24-grit or finer stones or with comparable diamond abrasives. Follow initial grind with 60/80-grit stones or with comparable diamond abrasives.
 - b. Grouting: Before grouting, clean terrazzo with water, rinse and allow to dry. Apply and cure epoxy grout.
 - 3. Installation Tolerance: Limit variation in terrazzo surface from level to 1/4 inch in 10 feet (6.4 mm in 3 m); noncumulative.

3.4 REPAIR

- A. Cut out and replace terrazzo areas that evidence lack of bond with substrate. Cut out terrazzo areas in panels defined by strips and replace to match adjacent terrazzo, or repair panels according to NTMA's written recommendations, as approved by Architect.

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3.5 CLEANING AND PROTECTION

A. Cleaning:

1. Remove grinding dust from installation and adjacent areas.
2. Wash surfaces with cleaner according to NTMA's written recommendations and manufacturer's written instructions; rinse surfaces with water and allow them to dry thoroughly.

B. Sealing:

1. Seal surfaces according to NTMA's written recommendations.
2. Apply sealer according to sealer manufacturer's written instructions.

C. Protection: Provide final protection and maintain conditions, in a manner acceptable to Installer, that ensure that terrazzo is without damage or deterioration at time of Substantial Completion.

END OF SECTION 09 6623

REPORT OF LIMITED FACILITY SURVEY TO IDENTIFY ASBESTOS-CONTAINING MATERIALS



**WAKE COUNTY OFFICE BUILDING
8TH FLOOR RENOVATION
337 SOUTH SALISBURY STREET
RALEIGH, NORTH CAROLINA
EEC JOB NO.: N-23-52**

**FOR:
WAKE COUNTY
FACILITIES DESIGN & CONSTRUCTION
P. O. BOX 550
RALEIGH, NORTH CAROLINA 27603**

PREPARED BY:

**EEC, Inc.
423 FARINTOSH VALLEY LANE
DURHAM, NORTH CAROLINA 27703
PHONE: 919-291-6814**



EEC, INC.

PHONE: (919) 291-6814

423 FARINTOSH VALLEY LANE, DURHAM, NORTH CAROLINA 27703

November 24, 2023

Facilities Design & Construction County of Wake (FD&C)
P. O. Box 550
Raleigh, NC 27603

Attention: Mr. David Rutherford
Project Manager

Subject: **Report of Limited Facility Survey to Identify Asbestos-Containing Materials
Waverly Akins Wake County Office Building
8th Floor Renovations
337 S. Salisbury Street
Raleigh, North Carolina 27603
EEC Job No.: N-23-52**

Dear Mr. Rutherford,

EEC, Inc. (EEC) is pleased to present this report of the limited facility survey to identify asbestos-containing materials (ACM) on the 8th Floor of the Wake County Office Building (WCOB) located at 337 South Salisbury Street in Raleigh, North Carolina. This report details our findings and visual observations during our survey and recommendations.

PROJECT INFORMATION

It is our understanding that Wake County Facilities Design and Construction intends to renovate the entire 8th Floor. Before doing any type of renovation activities, the building materials must be inspected of any asbestos content as per EPA NESHAP regulations. Any ACM that may be disturbed during renovations will require abatement. On November 21, 2023, EEC representatives Stephen Halyard and Donnie Mercer met with Wake County Office Building Security to gain access to all the areas of the 8th floor to collect bulk samples for analysis. The sampling included bulk samples from the Ceiling Tiles, Ceiling Panels, Ceiling Tile Glue Dots, Floor Tile, Floor Tile Mastic, Drywall, Drywall Joint Compound, Textured Tar-based Wall Coating Materials, etc.

SURVEY PROCEDURES

The visual survey and assessment began with our personnel walking through and visually assessing the 8th floor of the building for the presence of suspect ACM. For asbestos, both friable and nonfriable suspect materials were considered during the course of the survey. Friable materials are those materials that can be pulverized or reduced to powder by hand pressure, such as spray-applied textured ceiling finish and gypsum wallboard with associated joint compound.

At the completion of our assessment, a sampling strategy was determined and bulk samples were obtained. Suspect materials were grouped based on material homogeneity. A homogeneous area is an area that contains materials that seem by texture, color and wear to be uniform and applied during the same general time period. Several suspect materials were observed and documented. Bulk samples were obtained and sent to National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratories AmeriSci Richmond, Inc. (AmeriSci) and EMSL Analytical, Inc. (EMSL) for analysis. The NVLAP accreditation number for the AmeriSci laboratory, located in Midlothian, Virginia, is 101904-0. The NVLAP accreditation number for the EMSL laboratory, located in Morrisville, North Carolina, is 200671-0.

Each bulk sample obtained was then placed in a sealed container and labeled with consecutive numbers, a description of the sampling location, the date of sampling and the sampler's name. This information was logged on to each laboratory's chain-of-custody and then shipped to the respective laboratories for analysis. The "signed" chain-of-custody forms were maintained with the samples until they are returned or disposed of by the laboratories.

ANALYTICAL PROCEDURES

Asbestos Bulk Samples:

Each bulk sample suspected of containing asbestos fibers were analyzed using Polarized Light Microscopy (PLM), coupled with Dispersion Staining as outlined in the Environmental Protection Agency's (EPA) accredited test method EPA 600/M4-82-020 that incorporates method EPA-600/R-93/116 where applicable as per 40 CFR 763. There were no bulk samples identified to contain asbestos in amounts greater than one percent (1%). A summary of the bulk sampling performed during our assessment is attached in the section entitled, "Asbestos Bulk Sampling Record". We have also attached copies of the laboratory reports in the sections entitled, "AmeriSci Richmond PLM Bulk Asbestos Report" and "EMSL Asbestos Analysis of Bulk Materials Test Report".

*Survey Report to Identify Asbestos Containing-Materials
Wake County Office Building
8th Floor Renovations
Raleigh, North Carolina
EEC Job No.: N-23-052*

*November 24, 2023
Page 3*

SUMMARY OF ANALYTICAL RESULTS

No asbestos was detected in any of the bulk building material samples collected during our survey.

QUALIFICATIONS

This report summarizes EEC's evaluation of the conditions observed in Wake County Office Building Eighth Floor Area during the course of our survey and assessment. Our findings are based upon our observations made at the facility and analytical results of the samples obtained at the time of our survey. Any conditions discovered which deviate from the data contained in this report should be presented to us for our evaluation.

EEC appreciates the opportunity to have provided these services. We would be glad to discuss any of the results contained in this report at your convenience. If there are any questions concerning this report or results, please contact us at (919) 846-1016.

Sincerely,

EEC, INC.



Donnie Mercer Jr.
Asbestos Projects Manager
N.C. Inspector No. 11224



Mike Shrimanker, PE, CIH, CSP
President

Attachments: Asbestos Bulk Sampling Record
AmeriSci Richmond PLM Bulk Asbestos Report
EMSL Asbestos Analysis of Bulk Materials Test Report

cc. Teddy Coleman – Huffman Architects

ASBESTOS BULK SAMPLING RECORD

**ASBESTOS BULK SAMPLING RECORD
WAKE COUNTY OFFICE BUILDING
8th FLOOR RENOVATION
EEC JOB NO.: N-23-052
SAMPLERS: STEPHEN HALYARD & DONNIE MERCER**

SAMPLE NUMBER	SAMPLE LOCATION	TYPE OF MATERIAL	TYPE OF ASBESTOS AND PERCENTAGE
WOB-8-01	Area 814	Wall Sheetrock	None Detected
WOB-8-02	Area 814	Wall Joint Compound	<1% Chrysotile
WOB-8-03	Area 811	Wall Sheetrock	None Detected
WOB-8-06	Area 826	2'x2' Ceiling Panel w/Large Holes	None Detected
WOB-8-10	Area 826	2'x4' Ceiling Panel w/Large Holes	None Detected
WOB-8-12	Area 826	2'x4' Ceiling Panel w/Large Holes	None Detected
WOB-8-13	EP 829	Black Textured Coating on Wall	None Detected
WOB-8-14	Breakroom 819	Top Layer Blue Floor Tile	None Detected
WOB-8-15	Breakroom 819	White Floor Tile	None Detected
WOB-8-16	Breakroom 819	Yellow Mastic of WOB-8-15	None Detected
WOB-8-17	Breakroom 819	Bottom Layer Blue Floor Tile	None Detected
WOB-8-18	Breakroom 819	Yellow Mastic of WOB-8-17	None Detected
WOB-8-19	Area 805	1'x1' Ceiling Tile	None Detected
WOB-8-20	Area 805	Glue Dot of WOB-8-19	None Detected
WOB-8-21	Area 836	Brown Ceiling Tile Glue Dot on Smooth Plaster	None Detected
WOB-8-22	Area 820C	Dark Brown Ceiling Tile Glue Dot on Plaster Browncoat	None Detected
WOB-8-23	Area 817	Brown Ceiling Tile Glue Dot on Plaster Browncoat	None Detected

AMERISCI RICHMOND PLM BULK ASBESTOS REPORT



AmeriSci Richmond

13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: 8047631200 FAX: 8047631800

November 15, 2023

EEC INC
Attn: Donnie Mercer Jr
8514 Six Forks Road
Suite 101
Raleigh, NC 27615

RE: EEC INC
Job Number 123111478
P.O. #N-23-52
N-23-52; Wake Co Office Bldg 8th Floor Renovations; Entire Floor Asbestos Asbestos Survey

Dear Donnie Mercer Jr:

Enclosed are the results for PLM asbestos analysis of the following EEC INC samples received at AmeriSci on Tuesday, November 14, 2023, for a 24 hour turnaround:

WOB-8-01, WOB-8-02, WOB-8-03, WOB-8-04, WOB-8-06, WOB-8-10, WOB-8-12, WOB-8-13, WOB-8-14, WOB-8-15, WOB-8-16, WOB-8-17, WOB-8-18, WOB-8-19, WOB-8-20

The 15 samples contained in zip lock bag were shipped to AmeriSci via Fed Ex 8175 6326 3852 B 1010. These samples were prepared and analyzed according to EPA PLM Method (EPA 600/R-93/116 Section 2.2). The required analytical information, analysis results, analyst signature and laboratory identification are contained in the PLM Bulk Asbestos Report. If TEM analysis was requested for selected samples the gravimetric reduction data (by Sec 2.3) and TEM Asbestos % (by Sec 2.5) are included in Table 1 along with a summary of Asbestos % by PLM for all samples analyzed.

This report relates ONLY to the sample analysis expressed as % asbestos. AmeriSci assumes no responsibility for customer supplied data such as "sample type", "location", or "area sampled". This report must not be used to claim product endorsement by AmeriSci, NVLAP or any agency of the U. S. Government. The National Institute of Standards and Technology accreditation requirements mandate that this report must not be reproduced, except in full, without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations, if so identified in relevant footnotes.

AmeriSci appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Glenn F. Massey". The signature is fluid and cursive, with a prominent loop at the end.

Glenn F. Massey
QA Manager | Authorized Signatory

**AmeriSci Richmond**

13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

EEC INC
Attn: Donnie Mercer Jr
8514 Six Forks Road
Suite 101
Raleigh, NC 27615

Date Received 11/14/23 **AmeriSci Job #** 123111478
Date Examined 11/15/23 **P.O. #**
Page 1 of 4
RE: N-23-52; Wake Co Office Bldg 8th Floor Renovations; Entire
Floor Asbestos Asbestos Survey

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WOB-8-01 Location: Area 814 / Wall Sheetrock	123111478-01	No	NAD (by CVES) by C. David Mintz on 11/15/23
Analyst Description: Off-White/ Brown, Homogeneous, Fibrous, Drywall w/paperbacking			
Asbestos Types:			
Other Material: Cellulose 6.0%, Non-fibrous 94%			
WOB-8-02 Location: Area 814 / Joint Compound	123111478-02	Yes	Trace (<1.0 %) (by CVES) by C. David Mintz on 11/15/23
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Joint Compound			
Asbestos Types: Chrysotile <1. %			
Other Material: Cellulose Trace, Non-fibrous 100%			
WOB-8-03 Location: Area 811 / Wall Sheetrock	123111478-03	No	NAD (by CVES) by C. David Mintz on 11/15/23
Analyst Description: Lt. Grey/ Brown, Heterogeneous, Non-Fibrous, Paint/ Drywall w/paperbacking			
Asbestos Types:			
Other Material: Cellulose 7.0%, Non-fibrous 93%			
WOB-8-04 Location: Area 811 / Joint Compound	123111478-04		NA
Analyst Description: Insufficient Material			
Asbestos Types:			
Other Material:			
Comment: J C Absent/Insufficient; Multiple layers of Paint on top surface of drywall			

AmeriSci Job #: **123111478**
 Client Name: EEC INC

PLM Bulk Asbestos Report

N-23-52; Wake Co Office Bldg 8th Floor Renovations; Entire
 Floor Asbestos Asbestos Survey

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WOB-8-06	123111478-05	No	NAD
Location: Area 826 / 2'x2' Ceiling Panel w/Large Holes			(by CVES) by C. David Mintz on 11/15/23
Analyst Description: White/ Lt Tan, Homogeneous, Fibrous, Ceiling Tile			
Asbestos Types:			
Other Material: Cellulose 35%, Fibrous glass 5.0%, Non-fibrous 60%			
WOB-8-10	123111478-06	No	NAD
Location: Area 840 / 2'x4' Ceiling Panel w/Large Holes			(by CVES) by C. David Mintz on 11/15/23
Analyst Description: White/ Lt Tan, Homogeneous, Fibrous, Ceiling Tile			
Asbestos Types:			
Other Material: Cellulose 35%, Fibrous glass 5.0%, Non-fibrous 60%			
WOB-8-12	123111478-07	No	NAD
Location: Area 840 / 2'x4' Ceiling Panel w/Small Holes			(by CVES) by C. David Mintz on 11/15/23
Analyst Description: White/ Lt Tan, Homogeneous, Fibrous, Ceiling Tile			
Asbestos Types:			
Other Material: Cellulose 35%, Fibrous glass Trace, Non-fibrous 65%			
WOB-8-13	123111478-08	No	NAD ¹
Location: EP 829 / Black Textured Coating On Wall			(by CVES) by C. David Mintz on 11/15/23
Analyst Description: Dark Brown, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100%			
WOB-8-14	123111478-09	No	NAD
Location: Breakroom 819 / Top Layer Blue Floor Tile			(by CVES) by C. David Mintz on 11/15/23
Analyst Description: Blue, Homogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100%			
WOB-8-15	123111478-10	No	NAD
Location: Breakroom 819 / White Floor Tile			(by CVES) by C. David Mintz on 11/15/23
Analyst Description: Lt. Beige - Off Whit, Homogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100%			

AmeriSci Job #: **123111478**
 Client Name: EEC INC

PLM Bulk Asbestos Report

N-23-52; Wake Co Office Bldg 8th Floor Renovations; Entire
 Floor Asbestos Asbestos Survey

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WOB-8-16 Location: Mastic Of WOB-15	123111478-11	No	NAD (by CVES) by C. David Mintz on 11/15/23
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Mastic Asbestos Types: Other Material: Non-fibrous 100%			
WOB-8-17 Location: Breakroom 819 Layer Blue Floor Tile	123111478-12	No	NAD (by CVES) by C. David Mintz on 11/15/23
Analyst Description: Blue, Homogeneous, Non-Fibrous, Floor Tile Asbestos Types: Other Material: Non-fibrous 100%			
WOB-8-18 Location: Mastic Of WOB-17	123111478-13	No	NAD (by CVES) by C. David Mintz on 11/15/23
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Mastic Asbestos Types: Other Material: Non-fibrous 100%			
WOB-8-19 Location: 1'x1' Ceiling Tile	123111478-14	No	NAD (by CVES) by C. David Mintz on 11/15/23
Analyst Description: White/ Brown, Homogeneous, Fibrous, Ceiling Tile Asbestos Types: Other Material: Cellulose 95%, Non-fibrous 5.0%			
WOB-8-20 Location: Brown Glue Dot Of WOB-8-19	123111478-15	No	NAD (by CVES) by C. David Mintz on 11/15/23
Analyst Description: Dark Brown, Homogeneous, Non-Fibrous, Mastic Asbestos Types: Other Material: Non-fibrous 100%			

AmeriSci Job #: 123111478

Client Name: EEC INC

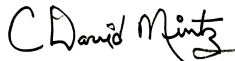
PLM Bulk Asbestos Report

N-23-52; Wake Co Office Bldg 8th Floor Renovations; Entire
Floor Asbestos Asbestos Survey

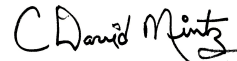
Reporting Notes:

(1) Sample homogenized by grinding to a powder prior to analysis.

Analyzed by: C. David Mintz



Reviewed by: C. David Mintz



Date: 11/15/2023

*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis using Olympus, Model BH-2 microscope, Serial #210972, by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

AMERISCI

CHAIN OF CUSTODY RECORD

AMERISCI Richmond
Job No. #

123111478

AMERISCI RICHMOND
13635 GENITO ROAD
MIDLOTHIAN, VA 23112
PHONE: (804) 763-1200
FAX: (804) 763-1800
TOLL FREE (800) 476-5227
www.amerisci.com

<h2>EEC, INC</h2>		423 Farintosh Valley Lane Durham, NC 27703			P.O.#		SPECIAL INSTRUCTIONS:				
PROJECT INFORMATION		ANALYSIS TYPE	TURNAROUND TIME (X)						AIR FILTER INFORMATION:		
			6-8 HR	12 HR	24 HR	48 HR	72 HR	5 DAY	Other		
JOB NAME: Wake Co. Office Bldg. 8th Floor Renovations		TEM/AHERA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MCE	<input type="checkbox"/>
		TEM/LEVEL II	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PC	<input type="checkbox"/>
JOB NO.: N-23-52		TEM/7402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	25-MM	<input type="checkbox"/>
		TEM/BULK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	37-MM	<input type="checkbox"/>
JOB MANAGER: Donnie Mercer Jr.		TEM/DUST	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.45 UM	<input type="checkbox"/>
		TEM/WATER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.85 UM	<input type="checkbox"/>
JOB DESCRIPTION: Entire Floor Asbestos Survey		PLM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OTHER:	
		PCM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		OTHER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
RESULTS TO: EEC Inc		INVOICE TO: EEC, Inc				RETURN SAMPLES: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>					
EMAIL RESULTS: <input checked="" type="checkbox"/>		EMAIL ADDRESS: dmercer@eecincorporated.com				PHONE: 919-291-6814					
WRITTEN REPORT TO: EEC Inc. (Copies to eecinc@gmail.com & dmercerjr@gmail.com)		FAX:									
COMMENTS:		SITE FAX:									
		PAGER/CELL:									
HGA ID	SAMPLE ID	SAMPLE LOCATION / DESCRIPTION	START TIME	STOP TIME	TOTAL TIME	X	LITERS / MIN	TOTAL VOLUME	DATE COLLECTED		
1	WOB-8-01	Area 814 / Wall Sheetrock							11-10-23		
2	WOB-8-02	Area 814 / Joint Compound							"		
1	WOB-8-03	Area 811 / Wall Sheetrock							"		
2	WOB-8-04	Area 811 / Joint Compound							"		
3	WOB-8-06	Area 826 / 2'x2' Ceiling Panel w/large holes							"		
4	WOB-8-10	Area 840 / 2'x4' Ceiling Panel w/large holes							"		
5	WOB-8-12	Area 835 / 2'x4' Ceiling Panel w/small holes							"		
6	WOB-8-13	EP 829 / Black Textured Coating on Wall							"		
7	WOB-8-14	Breakroom 819 / Top Layer Blue Floor Tile							"		
8	WOB-8-15	Breakroom 819 / White Floor Tile							"		
9	WOB-8-16	Mastic of WOB-8-15							"		
10	WOB-8-17	Breakroom 819 / Bottom Layer Blue Floor Tile							"		
11	WOB-8-18	Mastic of WOB-8-17							"		
12	WOB-8-19	1'x1' Ceiling Tile							"		
13	WOB-8-20	Brown Glue Dot of WOB-8-19							"		
										Received	
SAMPLED BY: Donnie Mercer Jr.		DATE/TIME: 11-13-23 1541 Hrs.	Received By:		NOV 14 2023		DATE/TIME:				
RELINQUISHED BY:		DATE/TIME:	Received in Lab By:		KIDM		DATE/TIME:				

PLEASE SEND COPIES OF ALL LAB RESULTS TO EMAIL: MSHRIMANKER@EECINCORPORATED.COM

**EMSL ASBESTOS ANALYSIS
BULK MATERIALS TEST REPORT**



EMSL Analytical, Inc.

2500 Gateway Centre Blvd., Suite 600 Morrisville, NC 27560

Tel/Fax: (919) 465-3900 / (919) 465-3950

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

EMSL Order: 292309034

Customer ID: EEC150

Customer PO:

Project ID:

Attention: Mike Shrimanker

EEC, Inc.

8514 Six Forks Road

Suite 101

Raleigh, NC 27615

Project: Wake Co. Office Bldg, 8th Flr.

Phone:

Fax:

Received Date: 11/21/2023 5:45 PM

Analysis Date: 11/22/2023

Collected Date: 11/21/2023

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
WOB-8-21 292309034-0001	Rm 836 - Brown Ceiling Tile Glue Dot on Smooth Plaster	Brown Non-Fibrous Homogeneous		5% Ca Carbonate 5% Matrix 90% Non-fibrous (Other)	None Detected
WOB-8-22 292309034-0002	Rm 820C - Dark Brown Ceiling Tile Glue Dot on Plaster Browncoat	Brown Non-Fibrous Homogeneous		5% Ca Carbonate 5% Matrix 90% Non-fibrous (Other)	None Detected
WOB-8-23 292309034-0003	Rm 817 - Brown Ceiling Tile Glue Dot on Plaster Browncoat	Brown Fibrous Homogeneous	2% Cellulose	5% Ca Carbonate 5% Matrix 88% Non-fibrous (Other)	None Detected

Analyst(s)

Joshua Moorman (1)

Roxsee Stover (2)

Billy Barnes, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, 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. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. 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. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Morrisville, NC NVLAP Lab Code 200671-0, VA 3333 000278, WVA LT000296

Initial report from: 11/22/2023 11:59:14



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Bulk Building Material

EMSL ANALYTICAL, INC.
2500 GATEWAY CENTRE
#600
27560
#3900
#3950

Client: EEC, Inc. Test: PLM #Samples: 3
Order: 292309034 Project: Wake Co. Office Bldg, 8th Flr.
Disposition: **Discard after 12/21/2023**

Company Name : <u>EEC, Inc.</u>		EMSL Customer ID: <u>EEC, Inc.</u>	
Street: <u>423 Farintosh Valley Lane</u>		City: <u>Durham</u>	State or Province: <u>NC</u>
Zip/Postal Code: <u>27703</u>	Country: <u>USA</u>	Telephone #: <u>919-291-6814</u>	Fax #: <u> </u>
Report To (Name): <u>Mike Shrimanker</u>		Please Provide Results via: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
email Address: <u>mshrimanker@eecincorporated.com</u> <u>dmrceer@me.com</u>		Purchase Order Number:	
Client Project ID: <u>Wake Co Office Bldg, 8th Flr.</u>		EMSL Project ID (internal use only):	
State or Province Collected:		CT only <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different - If bill to is different note instructions in comment. Third party billing requires written authorization from third party			
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"/> 32 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
*32 Hour TAT available for select tests only; samples must be submitted by 11:30am. Please call ahead for large projects and/or turnaround times 6 hours or less.			
PLM - Bulk (reporting limit)		TEM - Bulk	
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)		<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1	
<input type="checkbox"/> PLM EPA NOB (<1%)		<input type="checkbox"/> NY ELAP Method 198.4 non-friable - NY	
Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)		<input type="checkbox"/> Chatfield Protocol (semi-quantitative)	
Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)		<input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2	
<input type="checkbox"/> NIOSH 9002 (<1%)		<input type="checkbox"/> TEM Qualitative via Filtration Prep Technique	
<input type="checkbox"/> NY ELAP Method 198.1- friable - NY		<input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique	
<input type="checkbox"/> NY ELAP Method 198.6 NOB- non-friable - NY		Other tests (please specify)	
<input type="checkbox"/> NY ELAP Method 198.8- Vermiculite Surfacing Material		<input type="checkbox"/>	
<input type="checkbox"/> OSHA ID-191 Modified			
<input type="checkbox"/> EMSL Standard Addition Method			
<input type="checkbox"/> Positive Stop - Clearly Identify Homogenous Areas (HA)		Date Sampled: <u>11-21-23</u>	
Sampler's Name: <u>Donnie Mercer Jr</u>		Sampler's Signature: <u>Donnie Mercer Jr</u>	
Sample #	HA #	Sample Location	Material Description
<u>WOB-8-21</u>	<u>01</u>	<u>Rm 836</u>	<u>Brown Ceiling Tile Glue Dot on Smooth Plaster</u>
<u>-22</u>	<u>02</u>	<u>Rm 820C</u>	<u>Dark Brown Ceiling Tile Glue Dot on Plaster Browncoat</u>
<u>-23</u>	<u>03</u>	<u>Rm 817</u>	<u>Brown Ceiling Tile Glue Dot on Plaster Browncoat</u>
Client Sample # (s): <u>WOB-8-21</u> - <u>WOB-8-23</u>		Total # of Samples: <u>3</u>	
Relinquished by (Client): <u>EEC, Inc.</u> <u>Grace Em.</u>		Date: <u>11-21-23</u>	Time: <u>5:30pm</u>
Received by (Lab): <u>[Signature]</u>		Date: <u>11/21/23</u>	Time: <u>5:44</u>
Comments/Special Instructions:			



**HUFFMAN
ARCHITECTS**

632 Pershing Road
Raleigh, North Carolina 27608

**Wake County Office Building
8th Floor and Skybridge Demolition
Project No. 2205-D
Pre-Bid Conference**

Date: March 27, 2024
Time: 10:00 AM
Location: Wake County Office Building – 11th Floor Conference Room

- A. The sign-in sheet is attached at the end of these minutes.
- B. Introductions:
- David Rutherford is the owner's representative on this project for Wake County FD&C.
 - Teddy Coleman with Huffman Architects is the design team project manager, assisted by Eric Sowers.
 - Richard Thorne with HDM Associates is the mechanical, electrical, and fire protection engineer.
 - Mark Blankinship with Lysaght & Associates is the structural engineer.
 - Mike Shrimanker with EEC, Inc. is the environmental engineer.
- C. This is the Pre-Bid Conference for the full demolition of the WC Office Building 8th Floor to prepare for new construction, the demolition of the skybridge connecting the Office Building with the WC Courthouse and restoration of both facades, the upfit of approximately 2500 SF of office space in the WC Courthouse, and the upfit of approximately 350 SF of office space on the WCOB 11th Floor. There will be demolition, asbestos abatement, architectural, mechanical, electrical, fire sprinkler, and fire alarm work as part of the project.
- a. The County's fire alarm maintenance contract for the building is with Schneider. The point of contact is Kent Woodard at Kent.Woodard@se.com. It is recommended that the general contractor utilize Schneider because Schneider is still required to do the fire alarm programming work.
 - b. The County's security consultant is Protus3. The point of contact is Cody Dowd at cdowd@protus3.com.
- D. Bids are due on **Thursday, April 18, 2024, by 2:00 PM** to the County of Wake in the Purchasing Department, Suite 2900, Wake County Justice Center, 300 South Salisbury Street (or 301 South McDowell Street), Raleigh, NC 27601. All bids will be opened and read aloud. A photo ID is required to enter the building.
- a. Bids must be received no later than 2:00 PM on the 18th or they will be rejected.
 - b. All contractors must allow adequate time for parking and to get through the building security. Court begins at 1:00 PM and the security line can sometimes remain long until after 2:00 PM. Building security includes X-ray machines and metal detectors. Do not have any weapon, knife, or tool of any size with you as you go through security. It will be confiscated.
 - c. The McDowell Street entry is the better entry to use. It is located closer to the Purchasing Department and typically has shorter security lines.
 - d. The Wake County Parking Deck is the best option for parking. It is located at 216 W. Cabarrus St., on the corners of Davie, McDowell and Cabarrus Streets.
- E. All communication is to go through Huffman Architects (Teddy Coleman, teddy@huffmanarch.com) and must be received in writing. Please thoroughly review all bid documents before submitting questions. Any subcontractor questions must come to the architect through a general contractor. **The cut-off date for questions is Tuesday, April 9, 2024, by 12 PM, and the last addendum will be issued by Thursday, April 11.** Addenda will be issued to all plan holders via email from PlanScope, the online planroom provided by Accent Imaging.

- F. The project is being bid as a single prime contract. All contractors must have a valid license under the state laws governing their trades.
- G. The project has been submitted to the Wake County Inspections Department for building permit review. All inspections will be conducted by Wake County, not the City of Raleigh. Contractors must be on site for any inspections. The successful contractor will be required to pay for and obtain permits through the County's Permit Portal. It is expected at this time that the project will be divided into three permits – a building permit for the WC Office Building, a building permit for the WC Courthouse, and a demolition permit for the skybridge.
- H. The project is a formal bid contract with formal MBE requirements. Wake County's policy for minority contractor participation is included in the bid documents. MBE forms must be submitted with the bid and the lowest apparent bidder must provide additional MBE information within a set time period following the bid.
- I. The total project contract time for the project is 150 calendar days from Notice-To-Proceed to Substantial Completion. Final Completion will be 30 Calendar days from the Substantial Completion date. All closeout documents must be submitted and approved prior to Final Completion. If there are any concerns with material lead times affecting the schedule, the general contractor must make the Architect aware prior to the issuing of the final addendum.
- J. A bid bond, 100% performance bond, and 100% payment bond are all required. The Bid Bond form included in the project manual must be used or the bid may be rejected. This is a standard Wake County document, and the fine print is important.
- K. Contractors must sign and seal bids. Any bids not signed and sealed will be rejected.
- L. There are six (6) Allowances included in the project. Refer to Specifications 01 2100 Allowances for more information. Allowances 2 and 3 will be bid by the selected contractor to Wake County's preferred vendors.
 - 1. Allowance No. 1: \$20,000 for building permit fees.
 - 2. Allowance No. 2: \$4,000 for voice/data (telecom).
 - 3. Allowance No. 3: \$25,000 for security.
 - 4. Allowance No. 4: A unit-cost allowance for existing plaster ceiling demolition up to 150 SF.
 - 5. Allowance No. 5: A unit-cost allowance for asbestos-containing TSI up to 200 LF.
 - 6. Allowance No. 6: A unit-cost allowance for asbestos-containing black mastic up to 150 SF.
- M. There are three (3) Unit Prices included in the project. They can be found in the project manual and must be listed on the Bid Form. See Specifications 01 2200 Unit Prices
- N. The selected contractor will bid the security and telecom packages to the County's approved vendors. The selected contractor will be provided with the package for this purpose. This is the process by which the security and telecom contractors will be selected.
- O. The project will begin when contracts are signed and the Notice-to-Proceed has been issued.
- P. The rate of liquidated damages is \$500.00 per calendar day as damages reasonably estimated in advance to cover the losses to be incurred by the Owner by reason of failure of the contractor to reach Substantial Completion and Final Completion within the time specified.
- Q. In addition to Item Q, \$250.00 per calendar day will be assessed for failure to submit required closeout documents and achieve Final Completion within 30 days after the date of Substantial Completion.
- R. All general and subcontractors should visit the site and become familiar with the conditions. **An additional project walk-through is scheduled for Monday, April 1 at 2PM, meeting in the WC Courthouse Salisbury Street lobby.**

- S. It is suggested that all contractors and subcontractors carefully read and understand Specifications 01 1000 Summary.
- T. The WC Courthouse and the WC Office Building are both open to the public from 8:00 AM to 5:00 PM. It is the general contractor's responsibility to provide all measures to keep the building safe and secure during the entire project. No project materials shall obstruct any path of egress at any time.
- U. The alleyway between the WC Courthouse and the WC Office Building is not on grade and has a load limit. Placement of any equipment, scaffolding, materials, etc. in the alleyway must be verified by a structural engineer prior to installation. Specific requests may be sent to Huffman Architects (Teddy Coleman, teddy@huffmanarch.com) to verify with Lysaght & Associates, the structural engineer of record.
- V. Contractor work hours will be between 6:00 PM and 6:00 AM during the work week. No activities are permitted between the hours of 6:00 AM and 6:00 PM without prior approval. Weekends are available for construction with 72-hour notice. If the general contractor plans to work every weekend, this can be established with the owner before construction begins. Contractors must verify with Wake County Security that working on the weekend is acceptable. The contractor is required to clean the work area to the main building entrances on Salisbury and Fayetteville Streets by the end of each work day for both buildings, all the way to the curb.
- W. The contractor shall bring all materials to the site outside of regular business hours. The contractor will not be allowed to move materials through the occupied building. All deliveries shall be made to the contractor's facilities and not to the job site, but deliveries may be allowed with a minimum of 24-hours of notice. All deliveries must be received by the contractor. The WC security guard on-duty must be notified and the delivery person must possess a delivery manifest with all items listed. All material stocking, movement of materials, and removal of trash and debris shall be accomplished between 6 PM and 6 AM. All deliveries to the Fayetteville Street Level of the WC Courthouse shall be made between 8 PM and 6 AM. In the WC Office Building, the large freight elevator that serves the basement and the smaller freight elevator (Elevator #3) that serves all floors will be designated for use by the contractor. In the WC Courthouse, a passenger elevator (Elevator #1) will be designated for use. All elevator surfaces must be protected. All elevators must be in service for public use each day.
- X. Access to the WC Courthouse Salisbury Street elevator lobby shall be through the personnel door on the north side of the Salisbury Street Parking Level. Access to the WC Office Building shall be through the freight elevator on Salisbury Street or the Basement Parking Level entrance. Under no circumstances shall the main entrances at Salisbury and Fayetteville Streets in either building be used to bring materials into the work area.
- Y. A maximum of two parking spaces will be allotted to the contractor in the WC Courthouse parking deck. Only spaces marked "GSA Service Vehicles" shall be used. No specific spaces will be allotted; parking will be allowed on a first come, first served basis only. Any vehicle that the contractor would like to park in the deck must be permanently marked with the contractor's identifying name. No other vehicles will be allowed in the building unless authorized by a WC security guard.
- Z. Temporary protections and partitions around the work area will be required. After the demolition of the skybridge and a reasonable period of investigation of concealed conditions, the two building facades must be temporarily closed off and made weathertight until a permanent closure can be installed. Fall protection must be in place immediately after facade removal.
- AA. Minimum storage outside the work area may be available – the contractor is encouraged to keep all project materials stored within the work area.
- BB. Contractors must make arrangements with the City of Raleigh prior to blocking sidewalks or streets. Debris removal and dumpster location will be coordinated with the selected contractor at the Pre-Construction meeting. Permission to locate dumpsters on the street must be obtained from the City of Raleigh.

- CC. Weapons of any kind (including concealed firearms), illegal drugs, incendiary devices, and explosives are prohibited at all times.
- DD. Both buildings are non-smoking. No smoking is allowed within the building. Alcohol, tobacco products, e-cigarettes, and vapes are prohibited at all times.
- EE. There are other ongoing projects within the WC Office Building, including a renovation to the Mezzanine and Second Floor and to the Ninth Floor, both day work. The general contractor will be expected to coordinate with other contractors working within the building.
- FF. All contractors are urged to review the security procedures of Wake County. A list of all individuals who will be working in the WC Office Building and the WC Courthouse on a regular basis, one for each building, must be submitted prior to the date of the Notice-To-Proceed.
- GG. All contractors working in the WC Courthouse will be required to undergo and pass a background check, including for any temporary workers or delivery people. Badges are required for all contractors working in the WC Office Building, but background checks are not required. Contractors will be required to fill out a form and submit a clear photo on a white background for the badge.
- HH. The site and buildings will be occupied during the entire project. All work performed shall not interfere with the Owner's operations. All contractor personnel must remain in the work areas only.
- II. Any utility shut-downs must be coordinated with David Rutherford with a minimum of 7 days' notice. Any utility shutdowns that require GSA personnel on site must be completed by 11:00 PM. The contractor is to witness and confirm utility shutdown before proceeding. Wake County GSA operates a second shift which ends at 11 PM. The contractor shall obtain an approved Life Safety/Mechanical Systems – Impairment Authorization Form from Wake County prior to any shutdown.
- JJ. When construction work is ongoing that may impact the fire alarm systems in either building, they must be placed into test mode. Wake County will provide three days of training for the contractor. The contractor must attend the three days of training, even if they have been through the training before. The contractor shall protect the fire alarm at all times. The contractor must maintain a fire watch while the fire alarm is placed in test mode or taken out of service in any way.
- KK. No abatement work shall be done without informing EEC, Inc. at to schedule inspection, quantification, and clearance of the work area. The County's contact is Mike Shrimanker (mshrimanker@eecincorporated.com, (919) 291-6814).
- LL. The Owner will allow contractors reasonable use of electric and water services with all connections and extensions to be by the contractor. In the WC Office Building, one men's restroom and one women's restroom in the basement will be designated for use by the contractor. Restrooms in the WC Courthouse shall not be used. The general contractor is to keep these facilities clean and ready for public use every day by 6 AM. The contractor shall not connect any temporary power to the emergency generator circuit.
- MM. The project office shall be located within the work area. The WC Office Building 11th Floor Conference Room will be utilized for all bi-weekly progress meetings.
- NN. Time is critical to the project. The contractor will be required to submit a construction schedule and stick to it. Monthly schedule updates will be required to process all applications for payment.
- OO. A complete itemized and detailed breakdown of all labor, equipment, and material prices for any change order is required.
- PP. The successful contractor must name a superintendent and project manager. The project manager must be available between 8:00 AM and 5:00 PM during the week. The superintendent is required to be on site any time construction personnel are working in the building.

QQ. The contractor is responsible for coordinating all trades. Coordination between trades and contractors is critical for a successful project. All subcontractors need to read and understand the project manual.

- a. Telecom conduit is to be provided by the electrical sub-contractor, and wiring is to be pulled by the telecom vendor.

RR. Egress and accessibility must be maintained throughout the construction period during the building's operational hours.

SS. Safety Data Sheets for chemicals used during construction are to be readily available on site should the need arise to reference them in case of an emergency. SDS must be stored in the contractor's project office at all times.

TT. The County expects all work to be of an exceptional quality and expectations for project documentation are high. All general and subcontractors should closely review all the documents, especially the General Conditions, Supplementary General Conditions, all front end documents, and Division 01 sections to become familiar with how the County operates and to understand the expectations for this project.

UU. Questions/Clarifications:

- a. For the entire scope of work and for the whole duration of the project, the work must be conducted between 6PM and 6AM or on weekends. Any exception must be approved with one week of notice.
- b. The wood doors are anticipated to have a long lead time. All long lead times should be communicated as early on in the project as possible.
- c. Certified fall protection anchor points are available on both buildings but must not be used for any purpose other than moving or securing people. They must not be used for tools, materials, or equipment of any nature.
- d. Contractors must use the bid forms included in the Specifications. They are project-specific and will be rejected if they are not identical.
- e. The contractor will be held liable for any damage to unprotected elevator surfaces. The smaller freight elevator in the WC Office Building (Elevator #3) requires badge access. The contractor should contact Wake County if there are any operating issues.
- f. All demolished materials from within the buildings must be removed through the elevators – no debris chutes will be allowed.
- g. The alleyway between the two buildings can be closed with at least one week of notice to the County.
- h. The existing terrazzo in the WC Office Building will not be demolished as is shown on the plans – it will be left in place in all locations on the Eighth Floor.
- i. All existing metal lathe and plaster ceiling above the existing lay-in ceiling on the Eighth Floor of the WC Office Building will be demolished as part of the project – clarification will be given in an upcoming second addendum.
- j. The contractor will only be required to salvage five (5) large-format marble wall panels and the entirety of the marble base for the owner's attic stock. The contractor should make a provision to transport all of the salvaged marble to the WC GSA Headquarters at 401 Capital Boulevard.
- k. WC GSA will come through the work area before the contractor's site mobilization to collect any hardware or signage they wish to retain. All furniture will have been removed in advance.
- l. The new precast concrete exterior façade panels shall match both buildings.
- m. There is a tree in front of the entrance to the alleyway between the two buildings on Fayetteville Street.
 - i. The crane may need to be placed on the sidewalk pavers. The contractor should anticipate that some pavers may be damaged. They are the property of the City of Raleigh.
 - ii. On previous Wake County projects on the block, contractors have been able to get attic stock from the City. The design team can't confirm if there is any available or in what amount.

- n. The contractor should be especially mindful of the background check and badging requirements for the WC Courthouse and plan ahead as much as possible.
 - i. It won't be possible to cordon off the WC Courthouse work from the rest of the building to get around the background check requirement because part of the work area includes the corridor and it has to be left open for free egress.
- o. The contractor should be aware that an elevator project is ongoing in the WC Courthouse, and the elevator machine room is across the corridor from the 6th Floor work area. It is also night work.
 - i. Elevators #5 and #6 are being worked on. The contractor shall use Elevator #1 for the 6th Floor upfit and skybridge work.
- p. This work is expected to be the only large project in the WC Office Building for the entirety of construction.
- q. The contractor should distribute construction debris evenly across the slab as much as possible when staging it to be removed. Debris should only be stored on column lines to avoid overloading the structure.

These minutes represent my understanding of the pertinent issues discussed. Any corrections or additions to these minutes should be submitted to the Architect within five (5) days of the distribution or the minutes shall be deemed an accurate representation of the issues discussed.

Minutes Prepared by:
Teddy Coleman, Assoc. AIA


**HUFFMAN
ARCHITECTS**

632 Pershing Road
Raleigh, North Carolina 27608

**Wake County Office Building
8th Floor and Skybridge Demolition**

**March 27, 2024 10:00AM
Pre-Bid Conference**

	X	NAME	COMPANY	PHONE	E-MAIL
1	X	David Rutherford	WC FD&C	(919) 327-7315	david.rutherford@wake.gov
2	X	Eric Sowers	Huffman Architects	(919) 740-5669	eric@huffmanarch.com
3	X	Teddy Coleman	Huffman Architects	(919) 972-9949	teddy@huffmanarch.com
4	X	Vonni Addison	WC Information Services		vaddison@wake.gov
5	X	James Corrigan	WC GSA		james.corrigan@wake.gov
6	X	James Fowler	WC GSA		james.fowler@wake.gov
7	X	Jeffrey Merritt	WC GSA		jeffrey.merritt@wake.gov
8	X	Cody Dowd	Protus3		cdowd@protus3.com
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