

Wake County Office Building
12th & 14th Floor Upfit
Raleigh, North Carolina
February 21, 2025

HUFFMAN ARCHITECTS, PA
632 PERSHING ROAD
RALEIGH, NORTH CAROLINA 27608
PHONE (717) 644-1562

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 February 12, 2025. 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 one (1) page and twelve (12) 8 1/2" X 11" attachments. All documents are distributed digitally.

DRAWINGS

Item No. Description

- 1. None.

SPECIFICATIONS

Item No. Description

- 1. Add the attached Specification 07 8100 – "Applied Fire Protection".

CLARIFICATIONS

Item No. Description

- 1. The meeting minutes from the February 20, 2025 Pre-Bid Conference are attached below.
- 2. There is a site walkthrough scheduled for Tuesday, February 25, 2025 at 1:00PM. Attendees shall meet in the Sallsbury Lobby of the Wake County Office Building.

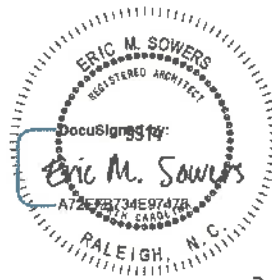
QUESTIONS

Item No. Description

- 1. Who is responsible for the electrical power, water, gas, etc. during the construction phase? Owner or Contractor? If by the Contractor, how is each floor metered and what is the average monthly cost for each utility listed above?

Response: The Owner is providing existing utilities from within the Wake County Office Building, and the Contractor is allowed reasonable use of all existing utilities as required for construction. Connections and extensions shall be made by the Contractor. The Contractor shall not connect to any emergency generator circuits.

END OF ADDENDUM NUMBER TWO



2/21/2025

**HUFFMAN
ARCHITECTS**

632 Peeking Road
Raleigh, North Carolina 27608

**Wake County Office Building
12th & 14th Floor Upfit
Project No. 2314
Pre-Bid Conference**

Date: February 20, 2025
Time: 9:30 AM
Location: Virtual – Microsoft Teams

- 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, assisted by Greg Johnson.
 - Teddy Coleman with Huffman Architects is the design team project manager, assisted by Tara Reed.
 - Richard Thorne with HDM Associates is the MEP engineer.
- C. This is the Pre-Bid Conference for the renovation of the 12th & 14th Floor of the Wake County Office Building.
- a. The County's fire alarm maintenance contract for the building is with Schneider. The points of contact are Aaron Yocum (aaron.yocum@se.com) and Vann Conyers (vann.conyers@se.com). It is recommended that the general contractor utilize Schneider because Schneider is still required to be engaged for fire alarm programming, and they are familiar with the building.
 - b. The County's security consultant is Protus3. The point of contact is Jerry Blanchard jblanchard@protus3.com.
- D. Bids are due on **Thursday, March 13, 2025 by 3:00 PM** to 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. Bids must be received no later than 3:00 PM on March 13th or they will be rejected. Be mindful that it may take some time to get through security. The WC parking deck is around the corner.
 - 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 weapons, knives, or tools 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.
 - 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 (Tara Reed, tara@esse-architects.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. Any changes in the bid phase will be issued via addendum. The cut-off date for questions is **Tuesday March 4, 2025 by 5:00 pm**, and the last addendum will be issued by **Thursday, March 6, 2025**. Addenda will be issued to all plan holders via email and will also be uploaded to the digital plan room.
- a. The digital plan room can be accessed at <https://www.planscope.com/projects/1419/details/wcob-12-14-upfit/>
- 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. There will be no permit fees for this project.
- H. The project is a formal bid contract with formal Minority Business Enterprise 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 300 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. There are eleven (11) allowances included in the project. Refer to Specifications 01 2100 Allowances for more information. Allowances 1 & 2 for telecom and security work will be bid by the selected contractor to Wake County's preferred vendors.
 - a. Allowance No. 1: Lump-Sum Allowance: Include the sum of \$35,000.00 for voice/data. The General Contractor shall bid the voice/data work out to a list of vendors provided by the owner. The cost of this work shall be applied to the Allowance. All voice/data infrastructure, as shown in the bid documents, these shall be included as part of the base bid.
 - b. Allowance No. 2: Lump-Sum Allowance: Include the sum of \$80,000.00 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.
 - c. Allowance No. 3: Lump-Sum Allowance: Include the sum of \$15,500.00 for the F10 carpet tile.
 - d. Allowance No. 4: Lump-Sum Allowance: Include the sum of \$15,900.00 for the F20 carpet tile.
 - e. Allowance No. 5: Lump-Sum Allowance: Include the sum of \$7,000.00 for the F30 carpet tile.
 - f. Allowance No. 6: Lump-Sum Allowance: Include the sum of \$1,500.00 for the F40 floor tile.
 - g. Allowance No. 7: Lump-Sum Allowance: Include the sum of \$2,900.00 for the F50 VCT.
 - h. Allowance No. 8: Lump-Sum Allowance: Include the sum of \$2,500.00 for the B40 base tile.
 - i. Allowance No. 9: Lump-Sum Allowance: Include the sum of \$6,200.00 for the W30 wall tile.
 - j. Allowance No. 10: Lump-Sum Allowance: Include the sum of \$9,000 for the W40 mosaic tile.
 - k. Allowance No. 11: Unit-Cost Allowance: Plaster Patching.
 - i. Coordinate allowance adjustment with corresponding unit-price requirements in Section 01 2200 "Unit Prices."
 - ii. Allowance Quantity: 20 SF.
- K. There are six (6) 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
 - a. Unit Price No. 1: Wall and ceiling exit signs.
 - i. Unit of Measurement: Each.
 - b. Unit Price No. 2: Fire alarm speaker/strobe.
 - i. Unit of Measurement: Each.
 - c. Unit Price No 3: Duplex/quad receptacle.
 - i. Unit of Measurement: Each.
 - d. Unit Price No. 4: Sprinkler head.
 - i. Unit of Measurement: Each.
 - e. Unit Price No. 5: Data drop.
 - i. Unit of Measurement: Each.
 - f. Unit Price No. 6: Plaster patching.
 - i. Unit of Measurement: Square Foot.
- L. The project will begin when contracts are signed and the Notice-to-Proceed has been issued.
- M. 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. An additional \$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.
- N. All general and subcontractors should visit the site and become familiar with the conditions. Additional project walk-throughs before the bid due date should be coordinated through Huffman Architects (Tara Reed, tara@esse-architects.com).
 - a. A project walk-through is scheduled for **Tuesday, February 25, 2025 @ 1:00 PM**. Attendees should plan to meet in the Salisbury Street lobby of the Wake County Office Building.
- O. It is suggested that all contractors and subcontractors carefully read and understand Specifications 01 1000 Summary.

- P. The building is 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.
- Q. Contractor work hours will be between 6:00 AM and 6:00 PM during the work week. Weekends are available for construction with 72-hour notice. Contractors must verify with Wake County Security that working on the weekend is acceptable. The general contractor is required to clean from the work area to the Salisbury and Fayetteville Street entrances at the end of each work day. The contractor is required to keep a clean site, including the path through the building out to the street curb.
 - a. Storage outside of the work area cannot typically be accommodated; if needed, there may be some space available on the Basement level of the WCCH parking garage. The contractor shall coordinate any storage outside of the work area with FD&C.
- R. All deliveries shall be made to the contractor's shop. No deliveries will be accepted on site. 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 material stocking, movement of materials, and removal of trash and debris shall be accomplished between 6 PM and 6 AM. The freight elevator and elevator #3 (service elevator) will be designated for use by the contractor. Under no condition shall contractors use other elevators in the building to transport materials or debris.
 - a. The contractor shall protect the elevator interior as well as elevator doors and frames within the work area for the project duration. The contractor is liable for any damage to elevator finishes.
 - b. The contractor shall document the condition of the elevators prior to installing protections.
 - c. Only elevator #3 will call to the work area – other elevators will be locked out. A badge is required to call the elevator to the floors.
- S. Temporary protections and partitions around the work area will be required. The existing elevator frames have been recently upgraded and should be protected at all times.
- T. Contractors must make arrangements with the City of Raleigh to block sidewalks or streets. It is the contractor's responsibility to coordinate all dumpster placement and pick-ups, and permission to locate dumpsters on the street must be obtained from the City of Raleigh. The contractor is expected to comply with all City requirements.
- U. Weapons of any kind (including concealed firearms), illegal drugs, and explosives are prohibited at all times.
- V. The Wake County Office Building is a non-smoking facility. No smoking is allowed within the building. Alcohol, tobacco products, e-cigarettes, and vapes are prohibited at all times.
- W. No parking will be provided to the contractor.
- X. Other projects within the building are expected to begin during the contract period. The general contractor will be expected to coordinate with other contractors working within the building.
- Y. All contractors are urged to review the security procedures of Wake County. A list of all individuals who will be working in the Wake County Office Building on a regular basis must be submitted prior to the date of the Notice-To-Proceed. ID cards will be issued to all workers.
- Z. The site and building 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.
- AA. Any utility shut-downs must be coordinated with David Rutherford with a minimum of 7 days' notice and typically require GSA supervision. Any utility shutdowns that require GSA personnel on site must be completed by 11:00 PM. 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.
- BB. When dust-producing construction work is ongoing, the fire alarm system must be placed in 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. If proper procedure is not followed and the contractor accidentally activates the fire alarm and the building must be evacuated there will be a \$5,000.00 penalty assessed to the contractor per incident.
 - a. Fire-alarm shut down forms are required weekly for the duration of any dust-producing work.

- b. FD&C realizes there are accidents regarding fire-alarm systems. In the event that proper procedure is followed and the fire alarm is activated, the Owner would be considerate of those circumstances.
- CC. The Owner will allow contractors reasonable use of electric and water services with all connections and extensions to be by the contractor. One men's restroom and one women's restroom in the Basement will be designated for use by the contractor. The general contractor is to keep these facilities clean and ready for public use. The contractor shall not connect any temporary power to the emergency generator circuit.
- DD. The G104 Conference Room in the Wake County Office Building will be utilized for all bi-weekly progress meetings. The contractor's office shall be located within the work area.
- EE. Time is critical to the project. The contractor will be required to submit a construction schedule by the beginning of each month and stick to it. Monthly schedule updates will be required to process all applications for payment.
- FF. A complete itemized and detailed breakdown of all labor, equipment, and material prices for any change order is required.
- GG. 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. The contractor will be required to create and maintain a list of emergency contacts for all trades to be kept on site.
- HH. 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. Refer to the MEP drawings.
- II. Egress and accessibility must be maintained throughout the construction period during the building's operational hours.
- JJ. 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 general contractor's project office at all times.
- KK. 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.
- LL. The Pre-Bid Conference also serves as the open public meeting for the Preferred Brand Alternates. The following preferred brand items are being considered as an Alternate by the owner for this project:
 - a. Preferred Alternate 1: Mechanical Locksets – Provide Schlage L9000 series mortise locksets to match the existing building locksets.
 - b. Preferred Alternate 2: Electromechanical Locksets – Provide Schlage L9000 series mortise locksets to match the existing building locksets.
 - c. Preferred Alternate 3: Electromechanical Exit Devices – Provide Sargent 80 series exit devices to match the existing building devices.
 - d. Preferred Alternate 4: Cylinders – Provide Corbin Russwin to match the existing building devices.
- MM. Questions/Clarifications:
 - a. David Rutherford (FD&C) mentioned as a reminder there are security hardware additions/replacements in a small area of the 10th floor included on the drawings. Please include these during the bid process.
 - i. The contractor is advised to visit that area during the scheduled site visit on 2/25.
 - b. David Rutherford (FD&C) reiterated both the 11th and 13th Floors will be occupied during construction. The contractor shall be mindful of noise. The contractor is advised to coordinate with FD&C at least 72 hours prior if excessively noisy or messy work is expected to occur.
 - i. The contractor is advised that above ceiling work on the 11th and 13th Floors cannot be performed during normal business hours – those floors are both occupied. That work shall be arranged with FD&C beforehand.
 - ii. The logistics of an occupied building can be challenging – the contractor is advised to be mindful of their surroundings.

- c. Richard Thome (HDM) mentioned as a reminder there will also be some ductwork runs on the 15th floor. The contractor is advised to walk that area as well.
 - i. It is not an occupied floor.
 - ii. There is no AHU required as part of this project because the unit on the 15th Floor feeds both the 12th and 14th Floors.
- ci. David Rutherford (FD&C) is anticipating Board of Commissioners approval on the work scope by the second week of April - it is anticipated that the Contract and Notice to Proceed will be issued in May.
- cii. The contractor is advised that there will be some overlap in this work with the 8th Floor upfit – that work is expected to be substantially complete by December 7, 2025.
- ciii. David Rutherford (FD&C) advised that the new production area on the 14th Floor has some special lighting needs – the contractor should pay attention to that package prior to bid day and reach out in advance with any questions.
- civ. Richard Thome (HDM) advises the contractor that Siemens holds the County's contract for DDC work – they will likely need to be pushed early and often to perform.

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:
Tara Reed

**WAKE COUNTY OFFICE BUILDING
12th & 14th Floors Upfit**

Huffman Architects, PA

SECTION 07 8100 - APPLIED FIRE PROTECTION

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. Sprayed fire-resistive materials.

1.3 DEFINITIONS

- A. SFRM: Sprayed fire-resistive materials.

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
 - 1. Review products, design ratings, restrained and unrestrained conditions, densities, thicknesses, bond strengths and other performance requirements.

1.5 ACTION SUBMITTALS

- A. Product Data: For the following:
 - 1. Sprayed fire-resistive material.
 - 2. Metal lath.
 - 3. Sealer.
- B. Shop Drawings: Framing plans or schedules, or both, indicating the following:
 - 1. Extent of fire protection for each construction and fire-resistance rating.
 - 2. Applicable fire-resistance design designations of a qualified testing and inspecting agency acceptable to authorities having jurisdiction.
 - 3. Minimum sprayed fire-resistive material thicknesses needed to achieve required fire-resistance rating of each structural component and assembly.
 - 4. Treatment of sprayed fire-resistive material after application.
- C. Samples: For each exposed product and for each color and texture specified, in manufacturer's standard dimensions in size.

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1.6 QUALITY ASSURANCE

- A. **Installer Qualifications:** A firm or individual certified, licensed, or otherwise qualified by sprayed fire-resistive material manufacturer as experienced and with sufficient trained staff to install manufacturer's products according to specified requirements.

1.7 FIELD CONDITIONS

- A. **Environmental Limitations:** Do not apply fire protection when ambient or substrate temperature is 44 deg F (7 deg C) or lower unless temporary protection and heat are provided to maintain temperature at or above this level for 24 hours before, during, and for 24 hours after product application.
- B. **Ventilation:** Ventilate building spaces during and after application of fire protection, providing complete air exchanges according to manufacturer's written instructions. Use natural means or, if they are inadequate, forced-air circulation until fire protection dries thoroughly.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. **Assemblies:** Provide fire protection, including auxiliary materials, according to requirements of each fire-resistance design and manufacturer's written instructions.
- B. **Source Limitations:** Obtain fire protection from single source.
- C. **Fire-Resistance Design:** Indicated on Drawings, tested according to ASTM E119 or UL 263; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
- D. **Asbestos:** Provide products containing no detectable asbestos.

2.2 SPRAYED FIRE-RESISTIVE MATERIALS

- A. **Sprayed Fire-Resistive Material UL J701:** Manufacturer's standard, factory-mixed, lightweight, dry formulation, complying with indicated fire-resistance design, and mixed with water at Project site to form a slurry or mortar before conveyance and application or conveyed in a dry state and mixed with atomized water at place of application.
 - 1. **Manufacturers:** Subject to compliance with requirements, provide products by one of the following:
 - a. Arabian Vermiculite Industries.
 - b. Pyrok, Inc.
 - c. Southwest Fireproofing Products Co,
 - 2. **Application:** Designated for interior use by a qualified testing agency acceptable to authorities having jurisdiction.
 - 3. **Bond Strength:** Minimum cohesive and adhesive strength based on field testing according to ASTM E736.

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4. Density: Not less than density specified in the approved fire-resistance design, according to ASTM E605.
5. Thickness: As indicated on the drawings.
6. Combustion Characteristics: ASTM E136.
7. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - a. Flame-Spread Index: 10 or less.
 - b. Smoke-Developed Index: 10 or less.
8. Corrosion Resistance: No evidence of corrosion according to ASTM E937.
9. Deflection: No cracking, spalling, or delamination according to ASTM E759.
10. Effect of Impact on Bonding: No cracking, spalling, or delamination according to ASTM E760.
11. Air Erosion: Maximum weight loss of 0.025 g/sq. ft. (0.270 g/sq. m) in 24 hours according to ASTM E859.
12. Finish and Color: Manufacturer's standard finish to match existing conditions.

2.3 AUXILIARY MATERIALS

- A. Provide auxiliary materials that are compatible with sprayed fire-resistive material and substrates and are approved by UL or another testing and inspecting agency acceptable to authorities having jurisdiction for use in fire-resistance designs indicated.
- B. Metal Lath: Expanded metal lath fabricated from material of weight, configuration, and finish required, according to fire-resistance designs indicated and sprayed fire-resistive material manufacturer's written instructions. Include clips, lathing accessories, corner beads, and other anchorage devices required to attach lath to substrates and to receive sprayed fire-resistive material.
- C. Sealer: Transparent-drying, water-dispersible, tinted protective coating recommended in writing by sprayed fire-resistive material manufacturer for each fire-resistance design.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for substrates and other conditions affecting performance of the Work and according to each fire-resistance design.
 1. Verify that substrates are free of dirt, oil, grease, release agents, rolling compounds, mill scale, loose scale, incompatible primers, paints, and encapsulants, or other foreign substances capable of impairing bond of fire protection with substrates under conditions of normal use or fire exposure.
 2. Verify that objects penetrating fire protection, including clips, hangers, support sleeves and similar items, are securely attached to substrates.
 3. Verify that substrates receiving fire protection are not obstructed by ducts, piping, equipment, or other suspended construction that will interfere with fire protection application.

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- B. Conduct tests according to sprayed fire-resistive material manufacturer's written instructions to verify that substrates are free of substances capable of interfering with bond.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Cover other work subject to damage from fallout or overspray of fire protection materials during application.
- B. Clean substrates of substances that could impair bond of fire protection.
- C. For applications visible on completion of Project, repair substrates to remove surface imperfections that could affect uniformity of texture and thickness in finished surface of fire protection. Remove minor projections and fill voids that would telegraph through fire-resistive products after application.

3.3 APPLICATION

- A. Construct fire protection assemblies that are identical to fire-resistance design indicated and products as specified, tested and substantiated by test reports; for thickness, primers, sealers, topcoats, finishing, and other materials and procedures affecting fire protection Work.
- B. Comply with sprayed fire-resistive material manufacturer's written instructions for mixing materials, application procedures and types of equipment used to mix, convey and apply fire protection; as applicable to particular conditions of installation and as required to achieve fire-resistance ratings indicated.
- C. Coordinate application of fire protection with other construction to minimize need to cut or remove fire protection.
 - 1. Do not begin applying fire protection until clips, hangers, supports, sleeves and other items penetrating fire protection are in place.
 - 2. Defer installing ducts, piping and other items that would interfere with applying fire protection until application of fire protection is completed.
- D. Metal Decks:
 - 1. Do not apply fire protection to underside of metal deck substrates until concrete topping, if any, is completed.
- E. Install auxiliary materials as required, as detailed, and according to fire-resistance design and sprayed fire-resistive material manufacturer's written instructions for conditions of exposure and intended use. For auxiliary materials, use attachment and anchorage devices of type recommended in writing by sprayed fire-resistive material manufacturer.
- F. Spray apply fire protection to maximum extent possible. After the spraying operation in each area, complete the coverage by trowel application or other placement method recommended in writing by sprayed fire-resistive material manufacturer.
- G. Extend fire protection in full thickness over entire area of each substrate to be protected.

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- H. Install body of fire protection in a single course unless otherwise recommended in writing by sprayed fire-resistive material manufacturer.
- I. Where sealers are used, apply products that are tinted to differentiate them from fire protection over which they are applied.
- J. Provide a uniform finish complying with description indicated for each type of fire protection material and matching finish approved for required mockups.
- K. Cure fire protection according to sprayed fire-resistive material manufacturer's written instructions.
- L. Do not install enclosing or concealing construction until after fire protection has been applied, inspected and tested and corrections have been made to deficient applications.
- M. Finishes: Where indicated, apply fire protection to produce the following finishes:
 - 1. Manufacturer's Standard Finishes: Finish according to manufacturer's written instructions.

3.4 FIELD QUALITY CONTROL

- A. Special Inspections: Engage a qualified special inspector to perform the following special inspections:
 - 1. Test and inspect as required by the IBC, Subsection 1705.13, "Sprayed Fire-Resistant Materials."
- B. Perform the tests and inspections of completed Work in successive stages. Do not proceed with application of fire protection for the next area until test results for previously completed applications of fire protection show compliance with requirements. Tested values must equal or exceed values as specified and as indicated and required for approved fire-resistance design.
- C. Fire protection will be considered defective if it does not pass tests and inspections.
 - 1. Remove and replace fire protection that does not pass tests and inspections, and retest.
 - 2. Apply additional fire protection, per manufacturer's written instructions, where test results indicate insufficient thickness, and retest.
- D. Prepare test and inspection reports.

3.5 CLEANING

- A. Cleaning: Immediately after completing spraying operations in each containable area of Project, remove material overspray and fallout from surfaces of other construction and clean exposed surfaces to remove evidence of soiling.

3.6 PROTECTION

- A. Protect fire protection, according to advice of manufacturer and Installer, from damage resulting from construction operations or other causes, so fire protection is without damage or deterioration at time of Substantial Completion.

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3.7 REPAIRS

- A. As installation of other construction proceeds, inspect fire protection and repair damaged areas and fire protection removed due to work of other trades.
- B. Repair fire protection damaged by other work before concealing it with other construction.
- C. Repair fire protection by reapplying it using same method as original installation or using manufacturer's recommended trowel-applied product.

END OF SECTION 07 8100