#### **ADDENDUM NO. 01**

PROJECT:	Ossining Union Free School District Park Early Childhood Center Second Floor Classroom Addition
SED PROJECT NO:	66-14-01-03-0-004-024
DATE:	September 22, 2023
CPL PROJECT NO:	14428.20

Include this Addendum as part of the Contract Documents. It supplements portions of the original Specifications and Drawings, the extent of which shall remain, except as revised herein:

#### **CLARIFICATIONS / RESPONSE TO BIDDER QUESTIONS:**

- 1.1 Attached, for reference, is the sign-in sheet for the Pre-Bid meeting (held 09/19/2023).
- **1.2** See attached "Forms to be Submitted with Bid" checklist.
- **1.3** Per REV, the price has increased for both digital and printed sets of plans to \$100 for each. It was previously noted "\$49 for digital and \$75 for printed sets". The address to pick up prints is 28 Church St., Unit 7 Warwick, NY 10990.
- 1.4 Question: Can a copy of the manufacturer roof warranty associated with the "cafeteria area" be provided?
  Answer: Cafeteria wing is Carlisle however the warranty is expired.
- **1.5** Question: Please provide contact information for the ATC company that services the school? Answer: Automated Control Logic, 578 Commerce St., Thornwood, NY 10594 : 914-769-8880
- 1.6 Question: Drawing P800 Detail 3 shows a thermostatic mixing valve and an emergency eye wash to be provided, but does not list what is required on Plumbing Schedule Drawing P800 or in Specification Section 22 10 06 Plumbing Specialties, Specification Section 22 40 00 Plumbing Fixtures, please advise on what is required for these items?
  - Answer: The emergency eye wash can be anything equal to Guardian G1814P with the appropriate mixing valve (Guardian G6020) designed for use with an emergency eye wash station.

#### **CHANGES TO THE PROJECT MANUAL:**

#### 1.7 Section 00 0110 Table of Contents:

- A. Division 07:
  - a. Add "07 8100 Applied Fireproofing"
  - b. Add "07 8123 Intumescent Fireproofing"

#### 1.8 Section 00 2000 Instructions to Bidders

A. Replace "Article 6 Post-Bid Information"

#### **1.9 Section 01 7700 Closeout Procedures:**

A. Add "Checklist for Project Closeout and Processing of Final Payment"

Ossining Union Free School District Park ECC Second Floor Addition Addendum No. 01

# **CHANGES TO THE DRAWINGS**

# 1.10 Drawing PES/203

A. Replace drawing PES/203 with attached drawing PES/203.

## PREVIOUSLY ISSUED ADDENDA

A. None.

### END OF ADDENDUM NO. 01

# Ossining UFSD Park ES 2<sup>nd</sup> Floor Classroom Addition - Pre-Bid Meeting 09/19/2023 4PM Project Meeting Sign-in Sheet

Company	Name	Phone Number	Email
			1.9
10 Nov Group			
All Bright Electric			
Aps			
Berussi Contracting			
Empire Core Group			
Icon Const. Gr.	Tony Monaco	914-288-0018	+monaco@iconcginc.com
Intricate Tech Solutions			
Jennings Co	José Vlon	9111-755-4701	Lose o sockledges ca Hold.con
Joe Lombardo Plumbing & Heating			
Key Construction			
MDS HVAC-R Inc.		20.	
Mengler Mechanical	JUHN MADEN	845-2.141029	MECHON HOZ WIM
Niko Development			

# Ossining UFSD Park ES 2<sup>nd</sup> Floor Classroom Addition - Pre-Bid Meeting 09/19/2023 4PM Project Meeting Sign-in Sheet

Company	Name	Phone Number	Email
Piazza Inc			
Pierotti Corp			
S & O Construction Service			
S & L Plumbing & Heating			
Solar Electric Systems	JOHN R. LOZADA	201-220-7047	j10Zada @ solavelectvic.org
Southeast Mechanical			
TWP Plumbing			
UniMak LLC	MARIO SPIROSKI	973-478-4925 × 303	estimating o unimartly ion
VFR Contracting	V		
Vinco Builders			
ABM AIR COND. & HTG	EDWARD HORVATT	+ 914-747-0910 x12	6 EHORVATTHE ABMHVAC, CON
NABER EEC. Corp	AWNI NABER	914 941-2244	AJNENABERELECERCOM
MARKley Mean	Glen Martzla	914 788 0536	Glenn @ Markley Mechanicat low
Empire love group UC	Retar Bitanga	9 212 494 0 003	estimating@empirecore.com
	U	1	2

# Ossining UFSD Park ES 2<sup>nd</sup> Floor Classroom Addition - Pre-Bid Meeting 09/19/2023 4PM Project Meeting Sign-in Sheet

Company	Name	Phone Number	Email
WD EXCAVATION	ADKE DUBRAY	(914)271-5724	WDEXCAVATION @ Gmail rom
OCS Industries	MANOS GARIHBLIA	845479-2490	Marinella Cowindustries. 6m

### FORMS TO BE SUBMITTED WITH BID (Submit All Forms With Bid In The Order They Are Listed Below)

Sexual Harassment Prevention Certification Form	
Bid Proposal	
Bid Forms	
Surety's Consent	
Certificate of Bidder	
Statement of Bidders Qualifications	
Bidder's Personnel	
Conflict of Interest Certificate	
Form of Disclosure Certificate	
Non-Collusion Affidavit	
Certification of Compliance with the Iran Divestment Act	
Declaration of Bidder's Inability to Provide Certifiation of Compliance with the Iran Divestment Act	
Insurance Certification Form	
Hold Harmless Agreement	
Bid Bond	
Insurance Requirements	

#### SECTION 078100 - APPLIED FIREPROOFING

#### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. This Section includes the following:
  - 1. Concealed SFRM.
- B. Related Sections include the following:
  - 1. Division 05 Section "Structural Steel Framing" for surface conditions required for structural steel receiving SFRM.
  - 2. Division 07 Section "Penetration Firestopping" for fire-resistance-rated firestopping systems.
  - 3. Division 07 Section "Fire-Resistive Joint Systems" for fire-resistance-rated joint systems.
  - 4. Division 09 Section "Intumescent Painting" for fire-resistance-rated paint systems.

#### **1.2 DEFINITIONS**

- A. SFRM: Sprayed fire-resistive material.
- B. Concealed: Fire-resistive materials applied to surfaces that are concealed from view behind other construction when the Work is completed or that are exposed in mechanical rooms.
- C. Exposed: Fire-resistive materials applied to surfaces that are exposed to view when the Work is completed and that are identified as exposed on Drawings.

#### **1.3 SUBMITTALS**

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Structural framing plans indicating the following:
  - 1. Locations and types of surface preparations required before applying SFRM.
    - 2. Extent of SFRM for each construction and fire-resistance rating, including the following:
      - a. Applicable fire-resistance design designations of a qualified testing and inspecting agency acceptable to authorities having jurisdiction.
      - b. Minimum thicknesses needed to achieve required fire-resistance ratings of structural components and assemblies.
- C. Samples for Initial Selection: For each type of colored, exposed SFRM indicated.
- D. Product Certificates: For each type of SFRM, signed by product manufacturer.
- E. Compatibility and Adhesion Test Reports: From SFRM manufacturer indicating the following:
  - 1. Materials have been tested for bond with substrates.
    - 2. Materials have been verified by SFRM manufacturer to be compatible with substrate primers and coatings.
    - 3. Interpretation of test results and written recommendations for primers and substrate preparation needed for adhesion.
- F. Warranties: Special warranties specified in this Section.

#### 1.4 QUALITY ASSURANCE

- A. Installer Qualifications: A firm or individual certified, licensed, or otherwise qualified by SFRM manufacturer as experienced and with sufficient trained staff to install manufacturer's products according to specified requirements. A manufacturer's willingness to sell its SFRM to Contractor or to an installer engaged by Contractor does not in itself confer qualification on the buyer.
- B. Source Limitations: Obtain SFRM through one source from a single manufacturer.
- C. Fire-Test-Response Characteristics: Provide SFRM with the fire-test-response characteristics indicated, as determined by testing identical products per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify bags containing SFRM with appropriate markings of applicable testing and inspecting agency.
  - 1. Fire-Resistance Ratings: Indicated by design designations from UL's "Fire Resistance Directory" acceptable to authorities having jurisdiction, for SFRM serving as direct-applied protection tested per ASTM E 119.
  - 2. Surface-Burning Characteristics: ASTM E 84.
- D. Provide products containing no detectable asbestos as determined according to the method specified in 40 CFR 763, Subpart E, Appendix E, Section 1 "Polarized Light Microscopy".
- E. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination." Review methods and procedures related to SFRM including, but not limited to, the following:
  - 1. Review products, exposure conditions, design ratings, restrained and unrestrained conditions, calculations, densities, thicknesses, bond strengths, and other performance requirements.
  - 2. Review and finalize construction schedule and verify sequencing and coordination requirements.
  - 3. Review weather predictions, ambient conditions, and proposed temporary protections for SFRM during and after installation.
  - 4. Review surface conditions and preparations.
  - 5. Review field quality-control testing procedures.

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to Project site in original, unopened packages with intact and legible manufacturers' labels identifying product and manufacturer, date of manufacture, shelf life if applicable, and fire-resistance ratings applicable to Project.
- B. Use materials with limited shelf life within period indicated. Remove from Project site and discard materials whose shelf life has expired.
- C. Store materials inside, under cover, and aboveground; keep dry until ready for use. Remove from Project site and discard wet or deteriorated materials.

#### **1.6 PROJECT CONDITIONS**

- A. Environmental Limitations: Do not apply SFRM when ambient or substrate temperature is 40 deg F 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 SFRM. Use natural means or, if they are inadequate, forced-air circulation until fire-resistive material dries thoroughly.

### 1.7 COORDINATION

- A. Sequence and coordinate application of SFRM with other related work specified in other Sections to comply with the following requirements:
  - 1. Provide temporary enclosure as required to confine spraying operations and protect the environment.
  - 2. Provide temporary enclosures for applications to prevent deterioration of fire-resistive material due to exposure to weather and to unfavorable ambient conditions for humidity, temperature, and ventilation.
  - 3. Avoid unnecessary exposure of fire-resistive material to abrasion and other damage likely to occur during construction operations subsequent to its application.
  - 4. Do not apply fire-resistive material to metal roof deck substrates until roofing has been completed; prohibit roof traffic during application and drying of fire-resistive material.
  - 5. Do not begin applying fire-resistive material until clips, hangers, supports, sleeves, and other items penetrating fire protection are in place.
  - 6. Do not begin applying fire-resistive material until clips, hangers, supports, sleeves, and other items penetrating fire protection are in place.
  - 7. Defer installing ducts, piping, and other items that would interfere with applying fireresistive material until application of fire protection is completed.
  - 8. Do not install enclosing or concealing construction until after fire-resistive material has been applied, inspected, and tested and corrections have been made to defective applications.

### 1.8 WARRANTY

- A. Special Warranty: Manufacturer's standard form, signed by Contractor and by Installer, in which manufacturer agrees to repair or replace SFRMs that fail in materials or workmanship within specified warranty period.
  - 1. Failures include, but are not limited to, the following:
    - a. Cracking, flaking, spalling, or eroding in excess of specified requirements; peeling; or delaminating of SFRM from substrates.
    - b. Not covered under the warranty are failures due to damage by occupants and Owner's maintenance personnel, exposure to environmental conditions other than those investigated and approved during fire-response testing, and other causes not reasonably foreseeable under conditions of normal use.
  - 2. Warranty Period: Two years from date of Substantial Completion.

#### PART 2 - PRODUCTS

#### 2.1 CONCEALED SFRM

- A. Products: Subject to compliance with requirements, provide one of the following:
  - 1. Concealed Cementitious SFRM:
    - a. Carboline Co., Fireproofing Products Div.; Pyrolite 15 High Yield.
    - b. Grace, W. R. & Co. Conn., Construction Products Div.; Monokote Type MK-6.
    - c. Isolatek International Corp.; Cafco 300.
  - 2. Concealed Sprayed-Fiber Fire-Resistive Material:
    - a. Isolatek International Corp.; Cafco Blaze-Shield II.
- B. Material Composition: Manufacturer's standard product, or either of the following:
  - 1. Concealed Cementitious SFRM: Factory-mixed, dry formulation of gypsum or portland cement binders, additives, and lightweight mineral or synthetic aggregates mixed with water at Project site to form a slurry or mortar for conveyance and application.

- 2. Concealed Sprayed-Fiber Fire-Resistive Material: Factory-mixed, dry formulation of inorganic binders, mineral fibers, fillers, and additives conveyed in a dry state by pneumatic equipment and mixed with water at spray nozzle to form a damp, as-applied product.
- C. Physical Properties: Minimum values, unless otherwise indicated, or higher values required to attain designated fire-resistance ratings, measured per standard test methods referenced with each property as follows:
  - 1. Thickness: Minimum average thickness required for fire-resistance design indicated according to the following criteria, but not less than 0.375 inch, per ASTM E 605:
    - a. Where the referenced fire-resistance design lists a thickness of 1 inch or more, the minimum allowable individual thickness of SFRM is the design thickness minus 0.25 inch.
    - b. Where the referenced fire-resistance design lists a thickness of less than 1 inch but more than 0.375 inch, the minimum allowable individual thickness of SFRM is the greater of 0.375 inch or 75 percent of the design thickness.
    - c. No reduction in average thickness is permitted for those fire-resistance designs whose fire-resistance ratings were established at densities of less than 15 lb/cu. ft..
  - 2. Bond Strength: 150 lbf/sq. ft. minimum per ASTM E 736 based on laboratory testing of 0.75-inch minimum thickness of SFRM.
  - 3. Corrosion Resistance: No evidence of corrosion per ASTM E 937.
  - 4. Deflection: No cracking, spalling, or delamination per ASTM E 759.
  - 5. Effect of Impact on Bonding: No cracking, spalling, or delamination per ASTM E 760.
  - 6. Fire-Test-Response Characteristics: Provide SFRM with the following surface-burning characteristics as determined by testing identical products per ASTM E 84 by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:
    - a. Flame-Spread Index: 10 or less.
    - b. Smoke-Developed Index: 0.
  - 7. Fungal Resistance: No observed growth on specimens per ASTM G 21.

## 2.2 AUXILIARY FIRE-RESISTIVE MATERIALS

- A. General: Provide auxiliary fire-resistive materials that are compatible with SFRM 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. Substrate Primers: For use on each substrate and with each sprayed fire-resistive product, provide primer that complies with one or more of the following requirements:
  - 1. Primer's bond strength complies with requirements specified in UL's "Fire Resistance Directory" for coating materials based on a series of bond tests per ASTM E 736.
  - 2. Primer is identical to those used in assemblies tested for fire-test-response characteristics of SFRM per ASTM E 119 by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
- C. Adhesive for Bonding Fire-Resistive Material: Product approved by manufacturer of SFRM.
- D. Metal Lath: Expanded metal lath fabricated from material of weight, configuration, and finish required to comply with fire-resistance designs indicated and fire-resistive material manufacturer's written recommendations. Include clips, lathing accessories, corner beads, and other anchorage devices required to attach lath to substrates and to receive SFRM.
- E. Reinforcing Fabric: Glass- or carbon-fiber fabric of type, weight, and form required to comply with fire-resistance designs indicated; approved and provided by manufacturer of SFRM.

#### 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 work. A substrate is in satisfactory condition if it complies with the following:
  - 1. Substrates comply with requirements in the Section where the substrate and related materials and construction are specified.
  - 2. Substrates are free of dirt, oil, grease, release agents, rolling compounds, mill scale, loose scale, incompatible primers, incompatible paints, incompatible encapsulants, or other foreign substances capable of impairing bond of fire-resistive materials with substrates under conditions of normal use or fire exposure.
  - 3. Objects penetrating fire-resistive material, including clips, hangers, support sleeves, and similar items, are securely attached to substrates.
  - 4. Substrates are not obstructed by ducts, piping, equipment, and other suspended construction that will interfere with applying fire-resistive material.
- B. Verify that concrete work on steel deck has been completed.
- C. Verify that roof construction, installation of roof-top HVAC equipment, and other related work are completed.
- D. Conduct tests according to fire-resistive material manufacturer's written recommendations to verify that substrates are free of substances capable of interfering with bond.
- E. 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-resistive materials during application.
- B. Clean substrates of substances that could impair bond of fire-resistive material, including dirt, oil, grease, release agents, rolling compounds, mill scale, loose scale, and incompatible primers, paints, and encapsulants.
- C. Prime substrates where recommended in writing by SFRM manufacturer unless compatible shop primer has been applied and is in satisfactory condition to receive SFRM.

#### 3.3 APPLICATION, GENERAL

- A. Comply with fire-resistive material manufacturer's written instructions for mixing materials, application procedures, and types of equipment used to mix, convey, and spray on fire-resistive material, as applicable to particular conditions of installation and as required to achieve fire-resistance ratings indicated.
- B. Apply SFRM that is identical to products tested as specified in Part 1 "Quality Assurance" Article and substantiated by test reports, with respect to rate of application, accelerator use, sealers, topcoats, tamping, troweling, water overspray, or other materials and procedures affecting test results.

- C. Install metal lath and reinforcing fabric, as required, to comply with fire-resistance ratings and fire-resistive material manufacturer's written recommendations for conditions of exposure and intended use. Securely attach lath and fabric to substrate in position required for support and reinforcement of fire-resistive material. Use anchorage devices of type recommended in writing by SFRM manufacturer. Attach accessories where indicated or required for secure attachment of lath and fabric to substrate.
- D. Coat substrates with bonding adhesive before applying fire-resistive material where required to achieve fire-resistance rating or as recommended in writing by SFRM manufacturer for material and application indicated.
- E. Extend fire-resistive material in full thickness over entire area of each substrate to be protected. Unless otherwise recommended in writing by SFRM manufacturer, install body of fire-resistive covering in a single course.
- F. Spray-apply fire-resistive materials to maximum extent possible. Following the spraying operation in each area, complete the coverage by trowel application or other placement method recommended in writing by SFRM manufacturer.

#### **3.4 APPLICATION, CONCEALED SFRM**

- A. Apply concealed SFRM in thicknesses and densities not less than those required to achieve fireresistance ratings designated for each condition, but apply in greater thicknesses and densities if specified in Part 2 "Concealed SFRM" Article.
- B. Apply water overspray to concealed sprayed-fiber fire-resistive material as required to obtain designated fire-resistance rating.
- C. Cure concealed SFRM according to product manufacturer's written recommendations.

#### **3.5 FIELD QUALITY CONTROL**

- A. Special Inspections: Owner will engage a qualified special inspector to perform special inspection and prepare reports on SFRM.
- B. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections and prepare test reports.
  - 1. Testing and inspecting agency will interpret tests and state in each report whether tested work complies with or deviates from requirements.
- C. Tests and Inspections: Testing and inspecting of completed applications of SFRM shall take place in successive stages, in areas of extent and using methods as follows. Do not proceed with application of SFRM for the next area until test results for previously completed applications of SFRM show compliance with requirements. Tested values must equal or exceed values indicated and required for approved fire-resistance design.
  - 1. Thickness for Floor, Roof, and Wall Assemblies: For each 1000-sq. ft. area, or partial area, on each floor, from the average of 4 measurements from a 144-sq. in. sample area, with sample width of not less than 6 inches per ASTM E 605.
  - 2. Thickness for Structural Frame Members: From a sample of 25 percent of structural members per floor, taking 9 measurements at a single cross section for structural frame beams or girders, 7 measurements of a single cross section for joists and trusses, and 12 measurements of a single cross section for columns per ASTM E 605.
  - 3. Density for Floors, Roofs, Walls, and Structural Frame Members: At frequency and from sample size indicated for determining thickness of each type of construction and structural framing member, per ASTM E 605 or AWCI Technical Manual 12-A, Section 5.4.5, "Displacement Method."

- 4. Bond Strength for Floors, Roofs, Walls, and Structural Framing Members: For each 10,000-sq. ft. area, or partial area, on each floor, cohesion and adhesion from one sample of size indicated for determining thickness of each type of construction and structural framing member, per ASTM E 736.
  - a. Field test SFRM that is applied to flanges of wide-flange, structural-steel members on surfaces matching those that will exist for remainder of steel receiving fire-resistive material.
  - b. If surfaces of structural steel receiving SFRM are primed or otherwise painted for coating materials, perform series of bond tests specified in UL's "Fire Resistance Directory." Provide bond strength indicated in referenced UL fire-resistance criteria, but not less than 150 lbf/sq. ft. minimum per ASTM E 736.
- D. If testing finds applications of SFRM are not in compliance with requirements, testing and inspecting agency will perform additional random testing to determine extent of noncompliance.
- E. Remove and replace applications of SFRM that do not pass tests and inspections for cohesion and adhesion, for density, or for both and retest as specified above.
- F. Apply additional SFRM, per manufacturer's written instructions, where test results indicate that thickness does not comply with specified requirements, and retest as specified above.

#### 3.6 CLEANING, PROTECTING, AND REPAIR

- 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.
- B. Protect SFRM, according to advice of product manufacturer and Installer, from damage resulting from construction operations or other causes so fire protection will be without damage or deterioration at time of Substantial Completion.
- C. Coordinate application of SFRM with other construction to minimize need to cut or remove fire protection. As installation of other construction proceeds, inspect SFRM and patch any damaged or removed areas.
- D. Repair or replace work that has not successfully protected steel.

END OF SECTION 078100

#### SECTION 078123 - INTUMESCENT FIREPROOFING

#### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section includes mastic and intumescent fire-resistive coatings.
- B. Related Requirements:
  - 1. Section 078100 "Applied Fireproofing" for sprayed fire-resistive materials (SFRM).
  - 2. Section 099646 "Intumescent Painting" for intumescent paints that are fire retarding, but not fire resistive.

#### **1.2 PREINSTALLATION MEETINGS**

- A. Preinstallation Conference:
  - 1. Review products, design ratings, restrained and unrestrained conditions, thicknesses, and other performance requirements.

#### **1.3 ACTION SUBMITTALS**

- A. Product Data: For each type of product.
- B. Shop Drawings: Framing plans or schedules, or both, indicating the following:
  - 1. Extent of fireproofing 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 fireproofing thicknesses needed to achieve required fire-resistance rating of each structural component and assembly.
  - 4. Treatment of fireproofing after application.
- C. Samples: For each exposed product and for each color and texture specified, in manufacturer's standard dimensions in size.

#### **1.4 INFORMATIONAL SUBMITTALS**

- A. Qualification Data: For Installer and testing agency.
- B. Product Certificates: For each type of fireproofing.
- C. Evaluation Reports: For fireproofing, from ICC-ES.
- D. Field quality-control reports.

#### 1.5 QUALITY ASSURANCE

- A. Installer Qualifications: A firm with a minimum of three (3) years experience in the application of fire proofing products and in the same or similar size and scope.
- B. Mockups: Build mockups [to verify selections made under Sample submittals and to demonstrate aesthetic effects and to set quality standards for materials and execution.
  - 1. Build mockup of each type of fireproofing and different substrate and each required finish as shown on Drawings.

- 2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
- 3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

#### **1.6 FIELD CONDITIONS**

- A. Environmental Limitations: Do not apply fireproofing when ambient or substrate temperature is
  50 deg F 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 fireproofing, providing complete air exchanges according to manufacturer's written instructions. Use natural means or, if they are inadequate, forced-air circulation until fireproofing dries thoroughly.

### PART 2 - PRODUCTS

#### 2.1 PERFORMANCE REQUIREMENTS

- A. Assemblies: Provide fireproofing, including auxiliary materials, according to requirements of each fire-resistance design and manufacturer's written instructions.
- B. Source Limitations: Obtain fireproofing for each fire-resistance design from single source.
- C. Primers and topcoats must be compatible with specified fireproofing/intumescent coating.
- D. Fire-Resistance Design: Indicated on Drawings, tested according to ASTM E 119 and UL 263; testing by a qualified testing agency. Extrapolated thickness is not acceptable. Identify products with appropriate markings of applicable testing agency.
  - 1. Steel members are to be considered unrestrained unless specifically noted otherwise.
- E. VOC Content: Applied primers and topcoat products shall comply with VOC content limits of authorities having jurisdiction and the following VOC limits:
  - 1. Flat Paints and Coatings: 50 g/L.
  - 2. Nonflat Paints and Coatings: 150 g/L.
  - 3. Fireproofing Exterior Coatings: 350 g/L.
- F. Low-Emitting Materials: Fireproofing used within the weatherproofing system shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Emissions from Indoor Sources Using Environmental Chambers."
- G. Asbestos: Provide products containing no detectable asbestos.

### 2.2 MASTIC AND INTUMESCENT FIRE-RESISTIVE COATINGS

- A. Single component, Waterbased Mastic and Intumescent Fire-Resistive Coating,
  - 1. Firetex FX 5120 by Sherwin Williams is the basis of design standard of quality product.
    - a. Application: Designated for general interior conditioned space use by a qualified testing agency acceptable to authorities having jurisdiction.
    - b. Insert a minimum thickness in "Thickness" Subparagraph below if required.

- agency.
- Flame-Spread Index: 0. e.
- f. Smoke-Developed Index: 5.
- Hardness: Not less than 70, Type D durometer, according to ASTM D 2240-05. 2.
- Finish: As selected by Architect from manufacturer's standard finishes. 3.
  - Color and Gloss: Flat finish. a.

#### 2.3 **AUXILIARY MATERIALS**

- A. General: Provide auxiliary materials that are compatible with fireproofing 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.
- Substrate Primers: Primers approved by fireproofing manufacturer and complying with required B. fire-resistance design by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
- C. Topcoat: Approved for application over applied fireproofing; of type recommended in writing by fireproofing manufacturer for each fire-resistance design.

### PART 3 - EXECUTION

#### 3.1 **EXAMINATION**

- Examine substrates, areas, and conditions, with Installer present, for compliance with A. 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 fireproofing with substrates under conditions of normal use or fire exposure.
  - Verify that objects penetrating fireproofing, including clips, hangers, support sleeves, and 2. similar items, are securely attached to substrates.
  - Verify that substrates receiving fireproofing are not obstructed by ducts, piping, 3. equipment, or other suspended construction that will interfere with fireproofing application.
- Conduct tests according to fireproofing manufacturer's written instructions to verify that B. substrates are free of substances capable of interfering with bond.
- C. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
- D. 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 fireproofing materials during application.
- B. All surfaces must be clean, dry and free of oil, grease, loose mill scale, dirt, dust or other materials that could impair bond of fireproofing.
- C. Minimum Surface Preparation: SSPC-SP1 Solvent Cleaning, SP2 Hand Tool Cleaning, and/or SP# Power Tool Cleaning as required. For optimum performance, abrasive blast clean steel substrates per SSPC-SP6 Commercial Blast Cleaning.
- D. Confirm compatibility on primed substrates where included in fire-resistance design and where recommended in writing by fireproofing manufacturer unless compatible shop primer has been applied and is in satisfactory condition to receive fireproofing.
- E. 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 fireproofing. Remove minor projections and fill voids that would telegraph through fire-resistive products after application.

#### **3.3 APPLICATION**

- A. Construct fireproofing assemblies that are identical to fire-resistance design indicated and products as specified, tested, and substantiated by test reports; for thickness, primers, topcoats, finishing, and other materials and procedures affecting fireproofing work.
- B. Comply with fireproofing manufacturer's written instructions for mixing materials, application procedures, and types of equipment used to mix, convey, and apply fireproofing; as applicable to particular conditions of installation and as required to achieve fire-resistance ratings indicated.
- C. Coordinate application of fireproofing with other construction to minimize need to cut or remove fireproofing.
  - 1. Do not begin applying fireproofing until clips, hangers, supports, sleeves, and other items penetrating fireproofing are in place.
  - 2. Defer installing ducts, piping, and other items that would interfere with applying fireproofing until application of fireproofing is completed.
- D. Install auxiliary materials as required, as detailed, and according to fire-resistance design and fireproofing 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 fireproofing manufacturer.
- E. Spray apply fireproofing 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 fireproofing manufacturer.
- F. Extend fireproofing in full thickness over entire area of each substrate to be protected.
- G. Install body of fireproofing in a single course unless otherwise recommended in writing by fireproofing manufacturer.
- H. Provide a uniform finish complying with description indicated for each type of fireproofing material and matching finish approved for required mockups.
- I. Cure fireproofing according to fireproofing manufacturer's written instructions.

- J. Do not install enclosing or concealing construction until after fireproofing has been applied, inspected, and tested and corrections have been made to deficient applications.
- K. Finishes: Where indicated, apply fireproofing to produce the following finishes:
  - 1. Manufacturer's Standard Finishes: Finish according to manufacturer's written instructions for each finish selected.
  - 2. Spray-Textured Finish: Finish left as spray applied with no further treatment.
  - 3. Rolled, Spray-Textured Finish: Even finish produced by rolling spray-applied finish with a damp paint roller to remove drippings and excessive roughness.

#### **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 1705.14, "Mastic and Intumescent Fire-Resistant Coatings."
- B. Perform the tests and inspections of completed Work in successive stages. Do not proceed with application of fireproofing for the next area until test results for previously completed applications of fireproofing show compliance with requirements. Tested values must equal or exceed values as specified and as indicated and required for approved fire-resistance design.
- C. Fireproofing will be considered defective if it does not pass tests and inspections.
  - 1. Remove and replace fireproofing that does not pass tests and inspections, and retest.
  - 2. Apply additional fireproofing, per manufacturer's written instructions, where test results indicate insufficient thickness, and retest.
- D. Prepare test and inspection reports.

#### 3.5 CLEANING, PROTECTING, AND REPAIRING

- 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.
- B. Protect fireproofing, according to advice of manufacturer and Installer, from damage resulting from construction operations or other causes, so fireproofing is without damage or deterioration at time of Substantial Completion.
- C. As installation of other construction proceeds, inspect fireproofing and repair damaged areas and fireproofing removed due to work of other trades.
- D. Repair fireproofing damaged by other work before concealing it with other construction.
- E. Repair fireproofing by reapplying it using same method as original installation or using manufacturer's recommended trowel-applied product.

#### **3.6 COATING SCHEDULE**

- A. Primer: Refer to Approved Primer listing on product data sheet. Apply at the recommended DFT.
- B. Intumescent Coating: Firetex FX5120 Waterbased Intumescent Fireproofing Refer to UL263 Thickness Tables for DFT required

C. Topcoat: Not required but if desired, refer to the Approved Topcoats listing on the product data sheet and apply at the recommended DFT.

END OF SECTION 078123

#### ARTICLE 6 POST-BID INFORMATION

#### § 6.1 Contractor's Qualification Statement

Bidders to whom award of a Contract is under consideration shall submit to the Architect, upon request a properly executed AIA Document A305<sup>TM</sup>, Contractor's Qualification Statement, unless such a Statement has been previously required and submitted for this Bid.

(Paragraphs deleted)

§ 6.3 Submittals

§ 6.3.1 CONTRACTOR'S QUALIFICATION INFORMATION – The apparent low bidder must submit the required pre-award submittal package described below to the Construction Manager within 48 hours after the bids are opened.

Arris Contracting Co., Inc. 189 Smith Street Poughkeepsie, NY 12601 845-473-3600

Submissions must be emailed and must include the Project Name of this contract in the Subject Line of the Pre-Award submission email.

- (1) Pre-award Submittal Package
  - (i) Fully executed AIA A305 Contractors Qualification Statement (to be submitted with the bid).
  - (ii) Most recent financial statement certified by CPA.
  - (iii) References and Experience:
    - 1. List of all past contracts with K-12 Public School Districts (Provide Architect & CM Contact Information)
    - 2. Provide three (3) references (Name, Title, and Phone Number) associated with three (3) different projects (public or private sector) of similar scope and size to the one identified in this contract. Additionally, include the names of two major suppliers used for each of these three (3) projects.
- (2) Workforce and Work Plan Provide a detailed written Work Plan which shall demonstrate the contractor's understanding of overall project scope and shall include, but not be limited to, the following
  - (i) Sequential listing of specific project activities required to successfully complete the Work of the contract.
    - 1. Include Critical Milestones
    - 2. Narrative of project work plan, sequencing, etc.
    - 3. Include phasing of the Work, if required.
    - 4. Include listing of long lead items.
    - 5. Statement that the project can be completed in established time.
  - (ii) Resumes for Contractor's proposed supervisory staff, including qualifications for specialized expertise or any certification(s) required to perform the Work.
  - (iii) Names of proposed sub-contractors and a listing of the related trade of work and value.
  - (iv) Any special coordination requirements with other trades.
  - (v) Any special storage and staging requirements for construction materials.
- (3) Detailed Cost Estimate:
  - (i) A copy of a Detailed Cost Estimate outlined in CSI format.

## CHECKLIST FOR PROJECT CLOSEOUT AND PROCESSING OF FINAL PAYMENT

Job Title: Ossining UFSD Park ECC Second Floor Addition

**ACCI #:** 07022

# Close-Out Submittals:

[] Three (3) bound, hard cover, 3-ring binder brochures of Operation and Maintenance Manuals & (1) Thumb-Drive for all equipment installed on the project:

- [] Typed or printed instructions covering the care and operations of equipment and systems furnished and installed.
- [] Manufacturers instruction books, diagrams, spare parts lists covering all equipment.
- [] Instruction of Owner's Representative in care and maintenance of new equipment.
- [] All approved shop drawings.
- [] Certificates of compliance and inspection. (Where applicable electric, elevator, etc.)
- [] Spare parts and Maintenance Materials. (Receipt signed by ACCI field superintendent)
- [] Evidence of compliance with requirements of governing authorities (Certificates of Inspection, Waste Manifests).
- [] Certificates of insurance for products and completed operations.
- [] Notarized statement that only non-asbestos materials were installed on this project.
- [] Fully executed certificate of substantial completion: AIA G704.
- [] Contractor's written one-year warranty and extended warranties (if any required).
- [] Certificates of Insurance for products and completed operations
- [] Project Record Documents: Section 017839.
- [] As-Built Drawings.

# Evidence of Payments and Release of Liens:

- [] Contractor's Affidavit of Payment of Debts and Claims: AIA G706.
- [] Contractor's Affidavit of Release of Liens AIA G706A with:
- [] Separate written releases of waivers and liens for subcontractors, suppliers, and others with lien rights against the property of owner, together with a list of those parties.
- [] Consent of Surety to Final Payment: AIA G707.

*We are unable to process your final payment until all items indicated are received in accordance with Section 017700 – Execution and Closeout Requirements.* 





CPL | Architecture Engineering Planning 50 Front St. Suite 202 Newburgh, NY 12550 CPLteam.com

# PROJECT INFORMATION Project Number 14428.20 Client Name **OSSINING UNION FREE SCHOOL** DISTRICT Project Name 2022-2023 CIP

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District Office Address 22 EDWARD ST, OSSINING, NY 10562

OSSINING PARK ELEMENTARY SED# 66-14-01-03-0-004-024

PROJECT ISSUE & REVISION SCHEDULE RV DATE DESCRIPTION 1 9/22/2023 ADDENDUM #1

PROFESSIONAL STAMPS

ROOF FRAMING NOTES

- 1. ALL EXISTING FRAMING CONDITIONS TO BE VERIFIED IN FIELD. EXISTING STEEL TO BE CHECKED BY ENGINEER OF RECORD FOLLOWING VERIFICATION OF EXISTING STEEL SIZES, SPANS, SPACING AND HVAC UNIT WEIGHT. 2. ROOFTOP UNIT WEIGHTS IF SHOWN SHALL BE VERIFIED WITH MANUFACTURER BY
- CONTRACTOR. CONTRACTOR TO NOTIFY ENGINEER PRIOR TO INSTALLING ROOFTOP UNITS IF UNIT OPERATING WEIGHT EXCEEDS VALUE LISTED ON PLAN.
- 3. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NO SHOWN, AND ALL LOCATIONS SEE TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS. CONTRACTOR TO COORDINATE.



SHEET INFORMATION Scale

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON. UNLESS ACTING UNDER THE DIRECTION OF A LICENSED APCHITECT, ENGINEER OR LAND SURVEYOR. TO ALITER AN THE MI NANY WAY, IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED. THE ALTERING PARTY SHALL AFFLY TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

DRAWING SCALE

Drawn By CLM Drawing Title RTU STRUCTURAL

NEW YORK STATE EDUCATION STATEMENT

Issued

08/14/23

Project Status

**BID SET** 

Checked By SAW

MODIFICATIONS

