



KEVIN KAMENETZ
County Executive

EDWARD C. ADAMS, JR., Director
Department of Public Works

August 17, 2015

RE: Contract #15025 PO0
(Silver) Leeds Certified Green Building – Eastern Family Resource Center
9150 Franklin Square Drive, Baltimore, Maryland 21237
Rosedale – District 14 c 6
Job Order No. 249-218-0100-0614

ADDENDUM NO. 6
To All Bidders

This addendum is hereby made a part of the Proposal and the Special Provisions, and is hereby incorporated into the Contract. Should this addendum conflict with any portion of the Special Provisions, the Proposal, or any prior addenda, this addendum shall supersede and control.

Please note the attached changes, corrections, and/or information in connection with the contract and submit bids and be otherwise governed accordingly.

In the Proposal

Revised and attached to be inserted: Page 1828, "Description of Work" **changing** the bid date **to** Thursday, September 3, 2015 at 2:15 p.m. EST **from** Thursday, August 20, 2015 at 2:15 p.m. EST.

Handwritten signature of Vincent G. Kicas in blue ink.

Vincent G. Kicas, Chief
Division of Construction Contracts Administration

VGK:KM:AEC:bjw

Attachments - 10

Please acknowledge this Emailed Addendum by signing below and faxing back to Tony Crews at 410-887-4505. "Failure by a Bidder to acknowledge receipt of this Addendum to the County may result in the Bidder's bid being considered non-responsive and rejected."

RECEIVED BY: _____ DATE: _____

NAME ABOVE PRINTED: _____

COMPANY NAME PRINTED: _____

ADDENDUM 06

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to acknowledge addendum may disqualify Bidder.

GENERAL CLARIFICATIONS

- The contractor shall provide one of the three dental equipment options included in the drawings.

CHANGES TO SPECIFICATIONS

ADD: New specifications, dated 08.17.2015

Section No.	Title
07 81 00	APPLIED FIREPROOFING

CHANGES TO SPECIFICATIONS

ADD: Change or clarification below to existing specification section:

<u>Section-Page#</u>	<u>Article / Paragraph</u>	<u>Change or Clarification</u>
11 68 00-3	2.3-B-3	DELETE "Blast Off (#ZZXX0594)" ADD "Whirligig (#ZZXX0043)"
11 68 00-3	2.4-A-1	DELETE "Design A (#ZZPD5020)" ADD "Mighty Fun Mountain (#PSD-1101-FTD)"

SECTION 07 81 00

APPLIED FIREPROOFING

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 sprayed fire-resistive materials.

1.3 DEFINITIONS

- A. SFRM: Sprayed fire-resistive materials.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product, including the following:
 - 1. For paints and coatings used on the interior of the building, include a statement of VOC content in g/L.

1.5 INFORMATIONAL SUBMITTALS

- A. Product Certificates: For each type of fireproofing.
- B. Evaluation Reports: For fireproofing, from ICC-ES.
- C. Manufacturer's written installation instructions.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: A firm or individual certified, licensed, or otherwise qualified by fireproofing 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 fireproofing when ambient or substrate temperature is 44 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.

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- 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. Fire-Resistance Design: Indicated on Drawings, tested according to ASTM E 119 or UL 263; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
1. Steel members are to be considered unrestrained unless specifically noted otherwise.
- D. VOC Content: Coating products used on the interior of the building (defined as inside the weatherproofing system and applied on-site) shall comply with VOC content limits of authorities having jurisdiction and the following VOC limits:
1. Do not exceed the VOC content limits established in Green Seal Standard GS-11, Paints, 1st Edition, May 20, 1993 and the following VOC limits when calculated according to 40 CFR 59, Subpart D (EPA Method 24):
 - a. Flat Topcoat: 50 g/L.
 - b. Non-Flat Topcoat: 100 g/L.
 - c. Primer or Undercoat: 100 g/L.
 2. Anticorrosive and Antirust Paints Applied to Interior Ferrous Metal Substrates: Do not exceed the VOC content limit of 250 g/L established in Green Seal Standard GC-03, Anti-Corrosive Paints, Second Edition, January 7, 1997.
- E. Asbestos: Provide products containing no detectable asbestos.

2.2 SPRAYED FIRE-RESISTIVE MATERIALS

- A. Concealed Sprayed Fire-Resistive Material: 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. Products: Subject to compliance with requirements, provide one of the following:
 - a. Carboline Company; a subsidiary of RPM International; Southwest Type 5GP.
 - b. Grace Construction Products; W.R. Grace & Co. - Conn.; Monokote MK-6 or Monokote MK-6/HY.
 - c. Isolatak International; Cafco 300 or Cafco Blaze-Shield II.
 2. Bond Strength: Minimum 150-lbf/sq. ft. cohesive and adhesive strength based on field testing according to ASTM E 736.

3. Density: Not less than density specified in the approved fire-resistance design, according to ASTM E 605.
 4. Thickness: As required for fire-resistance design indicated, measured according to requirements of fire-resistance design or ASTM E 605, whichever is thicker, but not less than 0.3125 inch.
 5. Combustion Characteristics: ASTM E 136.
 6. Surface-Burning Characteristics: Flame-spread and smoke-developed indexes of 10 or less according to ASTM E 84.
 7. Compressive Strength: Minimum 10 lbf/sq. in. according to ASTM E 761.
 8. Corrosion Resistance: No evidence of corrosion according to ASTM E 937.
 9. Deflection: No cracking, spalling, or delamination according to ASTM E 759.
 10. Effect of Impact on Bonding: No cracking, spalling, or delamination according to ASTM E 760.
 11. Air Erosion: Maximum weight loss of 0.025 g/sq. ft. in 24 hours according to ASTM E 859.
 12. Locations: Sprayed fire-resistive materials (SFRM) applied to structural steel beams, columns, bracing, and their connections, where covered by other construction.
- B. Exposed SFRM: 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. Products: Subject to compliance with requirements, provide one of the following:
 - a. Carbolite Company; a subsidiary of RPM International; Southwest Type 7GP.
 - b. Grace Construction Products; W.R. Grace & Co. – Conn.; Monokote Z-106 or Monokote Z-106/HY.
 - c. Isolatak International; Cafco 400 or Cafco Blaze-Shield HP.
 2. Bond Strength: Minimum 150-lbf/sq. ft. cohesive and adhesive strength based on field testing according to ASTM E 736.
 3. Density: Not less than 22 lb/cu. ft. and as specified in the approved fire-resistance design, according to ASTM E 605.
 4. Thickness: As required for fire-resistance design indicated, measured according to requirements of fire-resistance design or ASTM E 605, whichever is thicker, but not less than 0.3125 inch.
 5. Combustion Characteristics: ASTM E 136.
 6. Surface-Burning Characteristics: Flame-spread and smoke-developed indexes of 10 or less according to ASTM E 84.
 7. Compressive Strength: Minimum 51 lbf/sq. in. according to ASTM E 761.
 8. Corrosion Resistance: No evidence of corrosion according to ASTM E 937.
 9. Deflection: No cracking, spalling, or delamination according to ASTM E 759.
 10. Effect of Impact on Bonding: No cracking, spalling, or delamination according to ASTM E 760.
 11. Air Erosion: Maximum weight loss of 0.025 g/sq. ft. in 24 hours according to ASTM E 859.
 12. Fungal Resistance: Treat products with manufacturer's standard antimicrobial formulation to result in no growth on specimens per ASTM G21 or rating of 10 according to ASTM D 3274 when tested according to ASTM D 3273.
 13. Finish: As selected by Architect from manufacturer's standard finishes.
 - a. Color of Topcoat: As selected by Architect from manufacturer's full range.
 14. Locations: Sprayed fire-resistive materials (SFRM) applied to exposed structural steel beams, columns, bracing, their connections, and to steel deck.

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.
- B. Substrate Primers: Primers approved by fireproofing manufacturer and complying with one or both of the following requirements:
 - 1. Primer and substrate are identical to those tested in required fire-resistance design by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
 - 2. Primer's bond strength in required fire-resistance design complies with specified bond strength for fireproofing and with requirements in UL's "Fire Resistance Directory" or in the listings of another qualified testing agency acceptable to authorities having jurisdiction, based on a series of bond tests according to ASTM E 736.
- C. Bonding Agent: Product approved by fireproofing manufacturer and complying with requirements in UL's "Fire Resistance Directory" or in the listings of another qualified testing agency acceptable to authorities having jurisdiction.
- D. Topcoat: Suitable for application over applied fireproofing; of type recommended in writing by fireproofing 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 fireproofing with substrates under conditions of normal use or fire exposure.
 - 2. Verify that objects penetrating fireproofing, including clips, hangers, support sleeves, and similar items, are securely attached to substrates.
 - 3. Verify that substrates receiving fireproofing are not obstructed by ducts, piping, equipment, or other suspended construction that will interfere with fireproofing application.
- B. Verify that concrete work on steel deck is complete before beginning fireproofing work.
- C. Verify that roof construction, installation of rooftop HVAC equipment, and other related work are complete before beginning fireproofing work.
- D. Conduct tests according to fireproofing manufacturer's written instructions to verify that substrates are free of substances capable of interfering with bond.
- E. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
- F. Proceed with installation only after unsatisfactory conditions have been corrected.

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3.2 PREPARATION

- A. Cover other work subject to damage from fallout or overspray of fireproofing materials during application. Provide temporary enclosure as required to confine spraying operations, protect the environment, and ensure maintenance of adequate ambient conditions for temperature and ventilation.
- B. Clean substrates of substances that could impair bond of fireproofing material, including oil, grease, rolling compounds, incompatible primers, and loose mill scale.
- C. Prime 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.
- D. 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, sealers, 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. Metal Decks:
 - 1. Do not apply fireproofing to underside of metal deck substrates until concrete topping, if any, is completed.
 - 2. Do not apply fireproofing to underside of metal roof deck until roofing is completed; prohibit roof traffic during application and drying of fireproofing.
 - a. If roof traffic is anticipated after SFRM application is complete, then specified roof walkways must be installed.
- E. 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.

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- F. 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.
- G. Extend fireproofing in full thickness over entire area of each substrate to be protected.
- H. Install body of fireproofing in a single course unless otherwise recommended in writing by fireproofing manufacturer.
- I. Where sealers are used, apply products that are tinted to differentiate them from fireproofing over which they are applied.
- J. Provide a uniform finish complying with description indicated for each type of fireproofing material and matching finish approved for required mockups.
- K. Cure fireproofing according to fireproofing manufacturer's written instructions.
- L. Do not install enclosing or concealing construction until after fireproofing has been applied, inspected, and tested and corrections have been made to deficient applications.
- M. 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.
 - 4. Skip-Troweled Finish: Even leveled surface produced by troweling spray-applied finish to smooth out the texture and neaten edges.

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 17 05 .13, "Sprayed Fire-Resistant Materials."
 - 2. Test and inspect in accordance with the AWCI "Technical Manual 12-A - Standard Practice for the Testing and Inspection of Field-Applied Sprayed Fire-Resistive Materials; an Annotated Guide," most current edition.
- 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.

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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.

END OF SECTION 07 81 00

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PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations: Obtain playground equipment from single source from single manufacturer.
- B. Playground equipment and components shall have the IPEMA Certification Seal.
- C. The following playground equipment and components shall have the IPEMA Certification Seal:
 - 1. All proposed equipment

2.2 PERFORMANCE REQUIREMENTS

- A. Safety Standard: Provide playground equipment according to ASTM F 1487.

2.3 FREESTANDING PLAYGROUND EQUIPMENT

- A. Climber: Tri-Geo Climber (#ZZXX0131)
 - 1. Frame: Manufacturer's standard galvanized-steel pipe or tubing.
 - 2. Colors: As selected by Architect from manufacturer's full range.
- B. Rocking/Springing Equipment:
 - 1. Model: Spring Mates Turtle (#ZZXX0741)
 - a. Color: As selected by Architect from manufacturer's full range.
 - 2. Model: Sidewinder Cycle with Sidecar (#ZZXX0584)
 - a. Color: As selected by Architect from manufacturer's full range.
 - 3. Model: Whirligig (#ZZXX0043)
 - a. Color: As selected by Architect from manufacturer's full range.

2.4 COMPOSITE PLAYGROUND EQUIPMENT

- A. Composite Play Structure: Integral play assembly that provides more than one play activity; manufactured as a system or assembled from manufacturer's standard modular-sized units.
 - 1. Model: Mighty Fun Mountain (#PSD-1101-FTD)
 - 2. Metal Frame: Galvanized-steel pipe or tubing connected with bolts or clamps.
 - a. Main Frame Posts: Not less than 4-inch OD.
 - b. Color: As selected by Architect from manufacturer's full range.
 - 3. Platforms: Perforated metal.

SECTION -V
PROPOSAL

DESCRIPTION OF WORK

Opening of bids Thursday, September 3, 2015 at 2:15 p.m. EST

Begin Work within Fifteen (15) Days after NOTICE TO PROCEED.

Calendar Days for Completion FIVE HUNDRED AND THIRTY (530) CALENDAR DAYS

Liquidated and Other Damages: FIFTEEN HUNDRED DOLLARS (\$1,500.00) PER CALENDAR DAY

Cost Group "H (OVER \$15,000,000)"

Work Classification: I-1

TO BALTIMORE COUNTY, MARYLAND: Construct a new homeless shelter approximately 80,000 ± for women, men and children including: Housing, activity spaces, social and community services. **Rosedale – District 14 c 6.**

The following listed Drawing Number(s) are collectively the "Drawings", and are hereby incorporated in the Contract. *The Drawing(s) are on a CD in a PDF Format.*

<u>Job Order No.</u>	<u>Drawing Number's</u>
249-218-0100-0614	2015-1639 through 1997

Note: No successful bidder may withdraw their bid within Ninety (90) days after the opening thereof.

A pre-bid meeting will be held on Tuesday, July 21, 2015 at 10:00 a.m. EST in Room 118 of the Baltimore County Historic Courthouse, 400 Washington Avenue, Towson, Maryland 21204.

The Contractor hereby declares that it has carefully examined the solicitation, plans and specifications, form of contract, Special Provisions and Drawings (***drawings may be in hard copy or CD format***) (collectively the "Contract Documents"). The Contractor also hereby declares that it has carefully examined the February 2000 "Standard Specifications for Construction and Materials" and "Standard Details for Construction," collectively the "Applicable County Law" and any and all Department of Public Works revisions thereto as of the date of advertisement. The Contract Documents, the Applicable County Law and the Department of Public Works revisions thereto are collectively the "Specifications" and are incorporated herein. Copies of any and all Department of Public Works revisions including but not limited to Addendum No. 3 and General Conditions Building Projects, are on file and available in the Division of Construction Contracts Administration, County Office Building, Towson, Maryland, and can be downloaded and printed from the internet using Acrobat Reader at:

<http://www.baltimorecountymd.gov/Agencies/publicworks/standardsandspecs/specsanddetails.html>

Also, the Contractor has, to its satisfaction, examined the locality of the proposed work and agrees to furnish all labor, tools, materials, machinery, equipment, and other means of construction called for in the manner provided in the Specifications for the prices shown on the next page(s) and as evidenced by Contractor's signature on the last page thereof.

SCHEDULE OF PRICES

NOTE: The Bidder shall fill out this Proposal, write in the unit prices in clear numerals, and make the extensions.

For complete information concerning these items, see Specifications and contract forms.