SECTION 000002 – ADDENDUM NUMBER 2

DATE: **NOVEMBER 4, 2025**

TO: **ALL BIDDERS**

FROM: **NV5, INC.**
200 BRICKSTONE SQUARE, SUITE 201
ANDOVER, MA 01810

RE: **29 ALBANY STREET HEATING SYSTEM UPGRADE, WORCESTER, MA**

THIS ADDENDUM FORMS A PART OF THE CONTRACT AND MODIFIES THE ORIGINAL DOCUMENTS DATED OCTOBER 15, 2025.

PART 1 - GENERAL

1.1 This addendum must be returned with plans and specifications (if not already returned) to have your deposit returned.

1.2 This addendum modifies, amends, and supplements the Contract Documents for the above referenced project. This addendum is hereby made a part of the Contract Documents by reference and shall be as binding as though inserted in locations designated hereunder.

1.3 Each general bidder shall be responsible for notifying all his non-filed sub-bidders and suppliers of the content of this addendum. No claim for additional compensation will be considered because of lack of knowledge of changes or modifications contained in this addenda.

1.4 Questions or requests for clarification shall be in writing, addressed to Jeremy C. Flansburg at **PURCHASING DIVISION,** and may be sent to flansburgj@worcesterma.gov. Please include your name, phone number, your e-mail.

1.5 Part 2 of this addendum indicates revisions to the Project Manual.

1.6 Part 3 of this addendum indicates revisions to the Drawings.

1.7 Part 4 of this addendum indicates clarification to Contractors Questions.

PART 2 - PROJECT MANUAL - NONE

PART 3 - DRAWINGS – NONE

PART 4 - CONTRACTORS QUESTION – SEE ATTATCHED

END OF ADDENDUM NUMBER 2

CITY OF WORCESTER
29 ALBANY STREET
HEATING SYSTEM UPGRADE
WORCESTER, MASSACHUSETTS

ADDENDUM NO. 2

NOTICE TO BIDDERS:

This addendum is issued prior to receipt of bids and does hereby become part of the contract Documents, and in case of conflict, it shall supersede original plans and specifications.

Other descriptive narrative
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ITEM 1: QUESTIONS FROM CONTRACTORS

1.1 The specs call for the plumbing to be a filed bid, is this the case or should it only be the electrical sub bid?

Response: There are 2 filed sub-bids, Plumbing & Electrical. General bidders DCAMM certification is for HVAC.

1.2 There is no roofing mentioned but the location of the new flues will require holes in the existing roof.

a. Is there a preferred vendor for roofing?

Response: Attached is the roofing warranty. It has a 20 year warranty (starting 5-2-13). The roofing penetrations must be with a certified Firestone installer.

1.3 There is a asbestos spec, is there any scope of work that needs to be abated?

a. If there is any work, can a clear scope be provided?

Response: The asbestos & lead paint specifications are listed in the table of contents under division 2. It shows an appendix hazardous waste report, but there is no report/appendix. Just the specs. Hazardous Waste Report attached.

1.4 There is a spec for lead paint, is there any scope of work that this pertains to?

a. If there is any work, can a clear scope be provided?

Response: The asbestos & lead paint specifications are listed in the table of contents under division 2. It shows an appendix hazardous waste report, but there is no report/appendix. Just the specs. Hazardous Waste Report attached.

200 Brickstone Square | Andover, MA 01810 | www.NV5.com | Office 978.296.6200 | Fax 888.235.6617

CONSTRUCTION QUALITY ASSURANCE - INFRASTRUCTURE - UTILITY SERVICES - PROGRAM MANAGEMENT - ENVIRONMENTAL

Attachments: Roofing Warranty
Hazardous Waste Report

END OF ADDENDUM 2

200 Brickstone Square | Andover, MA 01810 | www.NV5.com | Office 978.296.6200 | Fax 888.235.6617

TRI

TRANSMITTAL SHEET
TITAN ROOFING, INC.

A SOMWBA CERTIFIED MBE

TO:	City of Worcester-DPW 50 Skyline Drive Worcester, MA 01605	Date	**August 12, 2013**
		Project	**Worcester DPW Central Garage #41C704 TRI#120158**
ATTN:	Jeremy Flansburg	Location	**Worcester, MA**

We are sending you _x_herewith__by bearer__under separate cover__handed to you

TYPE OF ENCLOSURE	NO. COPIES	MATERIALS / DESCRIPTION	WHERE USED
G702/G703	3	Application for Payment #5	
Warranty	2	Firestone 20 YR System Warranty	
Warranty	2	Titan 2 YR Membrane Roofing Workmanship Warranty	

__Approval and/or corrections
__Price Quotation
__Distribution
__Your Files
__Information

NOTE..

TITAN ROOFING, INC.
By Marie S. Lawler, Billing Coordinator

70 ORANGE ST. CHICOPEE, MASS 01013 TEL. (413) 536-1624 FAX (413)533-2560

TRI#120158

RED SHIELD WARRANTY

RED SHIELD ROOFING SYSTEM LIMITED WARRANTY

Warranty No: RO057044 **FBPCO #** AE3318 **Square Footage:** 61000 **s.f.**
Building Owner: CITY OF WORCESTER- DPW
Building Identification: WORCESTER DPW GARAGE
Building Address: 29 ALBANY ST, WORCESTER, MA, 01604-3640
Warranty Period Of: TWENTY (20) Years, Beginning On: 05/21/13
Roofing Contractor: TITAN ROOFING INC (CHICOPEE) (02202)

For the warranty period indicated above, Firestone Building Products Company, LLC ("Firestone"), an Indiana limited liability company, warrants to the Building Owner ("Owner") named above that Firestone will, subject to the Terms, Conditions and Limitations set forth below, repair any leak in the Firestone Roofing System ("System").

TERMS, CONDITIONS AND LIMITATIONS

1. **Products Covered.** The System shall mean only the Firestone brand roofing membranes, Firestone brand roofing insulations, Firestone brand roofing metal, and other Firestone brand roofing accessories when installed in accordance with Firestone technical specifications by a Firestone-licensed applicator.
2. **Notice.** In the event any leak should occur in the System, the Owner must give notice in writing or by telephone to Firestone within thirty (30) days of any occurrence of a leak. Written notice may be sent to Firestone at the street address or fax number shown on the reverse side of this Limited Warranty. Evidence of this notice shall be the receipt by Owner of a Firestone Leak Notification Acknowledgement. By so notifying Firestone, the Owner authorizes Firestone or its designee to investigate the cause of the leak.
3. **Investigation.** If upon investigation, Firestone determines that the leak is not excluded under the Terms, Conditions and Limitations set forth in this Red Shield Roofing System Limited Warranty (the "Limited Warranty"), the Owner's sole and exclusive remedy and Firestone's total liability shall be limited to the repair of the leak. Should the investigation reveal that the leak is excluded under the Terms, Conditions and Limitations, the Owner shall be responsible for payment of the investigation costs. Failure by Owner to pay for these costs shall render this Limited Warranty null and void. Firestone will advise the Owner of the type and/or extent of repairs required to be made at the Owner's expense that will permit this Limited Warranty to remain in effect for the unexpired portion of its term. Failure by the Owner to properly make these repairs in a reasonable manner using a Firestone-licensed applicator and within 60 days shall render this Limited Warranty null and void.
4. **No Dollar Limit (NDL):** There is no dollar limit placed on warranted leak repairs to the extent such repairs are covered by this Limited Warranty.
5. **Disputes.** Any dispute, controversy or claim between the Owner and Firestone concerning this Limited Warranty shall be settled by mediation. In the event that the Owner and Firestone do not resolve the dispute, controversy or claim in mediation, the Owner and Firestone agree that neither party will commence or prosecute any suit, proceeding, or claim other than in the courts of Hamilton County in the state of Indiana or the United States District Court, Southern District of Indiana, Indianapolis Division. Each party irrevocably consents to the jurisdiction and venue of the above-identified courts.
6. **Payment Required.** Firestone shall have no obligation under this Limited Warranty unless and until Firestone and the licensed applicator have been paid in full for all materials, supplies, services, approved written change orders, warranty costs and other costs which are included in, or incidental to, the System. In the event that repairs not covered by this Limited Warranty are necessary in the future, Firestone reserves the right to suspend this Limited Warranty until such repairs have been completed and the licensed applicator and/or Firestone has been paid in full for such repairs.
   Exclusions. Firestone shall have no obligation under this Limited Warranty, or any other liability, now or in the future if a leak or damage is caused by: (a) Natural forces, disasters, or acts of God including, but not limited to, fires, hurricanes, tornadoes, hail, wind-blown debris, lightning, earthquakes, volcanic activity, atomic radiation, insects or animals; (b) Winds of peak gust speed at or in excess of 55MPH calculated at ten(10) meters above ground using available meteorological data; (c) Act(s), conduct or omission(s) by any person, or act(s) of war, terrorism or vandalism, which damage the System or which impair the System's ability to resist leaks; (d) Failure by the Owner to use reasonable care in maintaining the System, said maintenance to include, but not be limited to, those items listed on the reverse side of this Limited Warranty entitled "Building Envelope Care and Maintenance Guide"; (e) Deterioration or failure of building components, including, but not limited to, the roof substrate, walls, mortar, HVAC units, skylights etc.; (f) Construction generated moisture, condensation or infiltration of moisture in, from, through, or around the walls, copings, rooftop hardware or equipment, skylights, building structure or underlying or surrounding materials; (g) Acid, oil, harmful chemicals, or the reaction between them; (h) Alterations or repairs to the System that are not completed in accordance with Firestone's published specifications, not completed by an approved contractor, and/or not completed with proper notice to Firestone; (i) The design of the roofing system: Firestone does not undertake any analysis of the architecture or engineering required to evaluate what type of System is appropriate for a building and makes no warranty express or implied as to the suitability of its Products for any particular structure; such a determination is the responsibility of the architect, engineer or design professional; (j) Improper selection of materials for the roof assembly or the failure to accurately calculate wind uplift and/or roof loads; (k) Deterioration to metal roofing materials and accessories caused by marine salt water, atmosphere, or by regular spray of either salt or fresh water; or, (l) Change in building use or purpose.
7. **Transfer.** This Limited Warranty shall be transferable subject to Owner's payment of the current transfer fee set by Firestone.
8. **Term.** The term of this Limited Warranty shall be for the period set forth above and such term shall not be extended under any circumstances.
9. **Roof Access.** During the term of this Limited Warranty, Firestone's designated representative or employees shall have free access to the roof during regular business hours. In the event that roof access is limited due to security or other restrictions, Owner shall reimburse Firestone for all reasonable cost incurred during inspection and/or repair of the System that are due to delays associated with said restrictions. Owner shall be responsible for the damage caused by, removal and replacement of any overburdens, superstrata or overlays, either permanent or temporary, excluding accepted stone ballast or pavers, as necessary to expose the system for inspection and/or repair.
10. **Waiver.** Firestone's failure to enforce any of the terms or conditions stated herein shall not be construed as a waiver of such provision or of any other terms and conditions of this Limited Warranty.
11. **Governing Law.** This Limited Warranty shall be governed by and construed in accordance with the laws of the State of Indiana without regard to that State's rules on conflict of laws.
12. **Severability.** If any portion of this Limited Warranty is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remaining provisions shall nevertheless continue in full force.

FIRESTONE DOES NOT WARRANT PRODUCTS INCORPORATED OR UTILIZED IN THIS INSTALLATION THAT WERE NOT FURNISHED BY FIRESTONE. FIRESTONE SPECIFICALLY DISCLAIMS LIABILITY UNDER ANY THEORY OF LAW ARISING OUT OF THE INSTALLATION OF, PERFORMANCE OF, OR DAMAGES SUSTAINED BY OR CAUSED BY, PRODUCTS NOT FURNISHED BY FIRESTONE.

THIS LIMITED WARRANTY SUPERSEDES AND IS IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND FIRESTONE HEREBY DISCLAIMS ALL SUCH WARRANTIES. THIS LIMITED WARRANTY SHALL BE THE OWNER'S SOLE AND EXCLUSIVE REMEDY AGAINST FIRESTONE, AND FIRESTONE SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL OR OTHER DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS OR DAMAGES TO THE BUILDING OR ITS CONTENTS OR THE ROOF DECK. THIS LIMITED WARRANTY CANNOT BE AMENDED, ALTERED OR MODIFIED IN ANY WAY EXCEPT IN WRITING SIGNED BY AN AUTHORIZED OFFICER OF FIRESTONE. NO OTHER PERSON HAS ANY AUTHORITY TO BIND FIRESTONE WITH ANY REPRESENTATION OR WARRANTY WHETHER ORAL OR WRITTEN.

FIRESTONE BUILDING PRODUCTS COMPANY, LLC
By: Phil LaDuke
Authorized Signature: Phil LaDuke
Title: Director, Quality Assurance

Firestone

040907

BUILDING ENVELOPE CARE AND MAINTENANCE GUIDE
(For Red Shield Warranted Roofing Systems)

Congratulations on your purchase of a Firestone Roofing System! Your roof is a valuable asset that should be properly maintained. **All roofs and roofing systems require periodic inspection and maintenance to perform as designed and to keep your Limited Warranty in full force and effect.**

1. The roof should be inspected at least twice yearly and after any severe storms. A record of all inspection and maintenance activities should be maintained, including a listing of the date and time of each activity as well as the identification of the parties performing the activity.
2. Proper maintenance and good roofing practice require that ponded water (defined as water standing on the roof forty-eight hours after it stops raining) not be allowed on the roof. Roofs should have slope to drain, and all drain areas must remain clean. Bag and remove all debris from the roof since such debris can be quickly swept into drains by rain. This will allow for proper water run-off and avoid overloading the roof.
3. The Firestone Roofing System should not be exposed to acids, solvents, greases, oil, fats, chemicals and the like. If the Firestone Roofing System is in contact with any such materials, these contaminants should be removed immediately and any damaged areas should be inspected by a Firestone Licensed Applicator and repaired if necessary.
4. The Firestone Roofing System is designed to be a waterproofing membrane and not a traffic surface. Roof traffic other than periodic traffic to maintain rooftop equipment and conduct periodic inspections should be prohibited. In any areas where periodic roof traffic may be required to service rooftop equipment or to facilitate inspection of the roof, protective walkways should be installed by a Firestone Licensed Applicator as needed to protect the roof surface from damage.
5. Some Firestone roofing membranes require maintenance of the surface of the membrane:
   a. **<u>Smooth-surfaced Firestone APP membranes</u>** should be coated with an approved liquid coating, such as Firestone Aluminum Roof Coating or Firestone AcryliTop applied in accordance with Firestone specifications, in order to maximize the service life of the membrane. If this coating is not applied as part of the initial roofing installation, it should be applied within the first five years after the roof is installed to help protect the membrane from surface crazing and cracking. In addition, this coating should be maintained as needed to re-coat any areas that have blistered, peeled or worn through.
   b. **<u>Granule-surfaced Firestone APP and SBS membranes</u>** do not normally require surface maintenance other than periodic inspection for contaminants, cuts or punctures. If areas of granular loss are discovered during inspection, these areas should be coated with Firestone AcryliTop or other Firestone-approved coating applied in accordance with Firestone specifications.
   c. **<u>Gravel-surfaced Firestone BUR membranes</u>** do not normally require surface maintenance other than periodic inspection for contaminants or damage. If areas of gravel loss are discovered during inspection, gravel must be reinstalled into hot asphalt to protect the surface of the membrane. Coatings on smooth surface BUR membranes must be maintained as needed to re-coat any areas that have blistered, peeled or worn through.
   d. **<u>Firestone EPDM and TPO roofing membranes</u>** do not normally require surface maintenance other than periodic inspection for contaminants, cuts or punctures. Occasionally, approved liquid roof coatings, such as Firestone AcryliTop, are applied to the surface of EPDM membranes in order to provide a lighter surface color. Such coatings do not need to be maintained to assure the performance of the underlying EPDM roof membrane, but some maintenance and re-coating may be necessary in order to maintain a uniform surface appearance.
   e. **<u>Firestone Una-Clad metal roofing panels and trim</u>** do not normally require surface maintenance other than periodic inspection for contaminants or damage. In addition, periodic cleaning of the surface may be required to remove dirt and maintain the aesthetic appearance of the coated metal. Simple washing with plain water using hoses or pressure spray equipment is usually adequate. If cleaning with agents other than water is contemplated, several precautions should be observed: (1) do not use wire brushes, abrasives, or similar cleaning tools which will mechanically abrade the coating surface, and (2) cleaning agents should be tested in an inconspicuous area before use on a large scale.
6. All metal work, including counter-flashings, drains, skylights, equipment curbs and supports, and other Firestone brand rooftop accessories must be properly maintained at all times. Particular attention should be paid to sealants at joints in metal work and flashings. If cracking or shrinkage is observed, the joint sealant should be removed and replaced with new sealant.
7. Any alterations to the roof, including but not limited to roof curbs, pipe penetrations, roof-mounted accessories, and tie-ins to building additions must be performed by a licensed Firestone Licensed Applicator and reported to Firestone. Additional information and reporting forms for roof alterations are available at www.firestonebpco.com.
8. Should you experience a leak:
   (a) Check for the obvious: clogged roof drains, loose counterflashings, broken skylights, open grills or vents, broken water pipes.
   (b) Note conditions resulting in leakage. Heavy or light rain, wind direction, temperature and time of day that the leak occurs are all-important clues to tracing roof leaks. Note whether the leak stops shortly after each rain or continues to drip until the roof is dry. If you are prepared with the facts, the diagnosis and repair of the leak can proceed more rapidly.
   (c) Contact Firestone Warranty Claims at 1-800-830-5612 as soon as possible...but please don't call until you are reasonably sure that the Firestone Roofing System is the cause of the leak.

Firestone feels that the preceding requirements will assist you, the building owner, in maintaining a watertight roof for many years. Your roof is an investment, and maintenance is essential to maximize your return on this important investment.

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER™
250 West 96th Street – Indianapolis, IN 46260
1-800-428-4442 * 1-317-575-7000 * FAX 1-317-575-7100
www.firestonebp.com

TRI#120158

RED SHIELD WARRANTY

Firestone BUILDING PRODUCTS

RED SHIELD ROOFING SYSTEM LIMITED WARRANTY

Warranty No: RO057044 **FBPCO #:** AE3318 **Square Footage:** 61000 s.f.
Building Owner: CITY OF WORCESTER- DPW
Building Identification: WORCESTER DPW GARAGE
Building Address: 29 ALBANY ST, WORCESTER, MA, 01604-3640
Warranty Period Of: TWENTY (20) Years, Beginning On: 05/21/13
Roofing Contractor: TITAN ROOFING INC (CHICOPEE) (02202)

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3. **Investigation.** If upon investigation, Firestone determines that the leak is not excluded under the Terms, Conditions and Limitations set forth in this Red Shield Roofing System Limited Warranty (the "Limited Warranty"), the Owner's sole and exclusive remedy and Firestone's total liability shall be limited to the repair of the leak. Should the investigation reveal that the leak is excluded under the Terms, Conditions and Limitations, the Owner shall be responsible for payment of the investigation costs. Failure by Owner to pay for these costs shall render this Limited Warranty null and void. Firestone will advise the Owner of the type and/or extent of repairs required to be made at the Owner's expense that will permit this Limited Warranty to remain in effect for the unexpired portion of its term. Failure by the Owner to properly make these repairs in a reasonable manner using a Firestone-licensed applicator and within 60 days shall render this Limited Warranty null and void.
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Exclusions. Firestone shall have no obligation under this Limited Warranty, or any other liability, now or in the future if a leak or damage is caused by: (a) Natural forces, disasters, or acts of God including, but not limited to, fires, hurricanes, tornadoes, hail, wind-blown debris, lightning, earthquakes, volcanic activity, atomic radiation, insects or animals; (b) Winds of peak gust speed at or in excess of 55MPH calculated at ten(10) meters above ground using available meteorological data; (c) Act(s), conduct or omission(s) by any person, or act(s) of war, terrorism or vandalism, which damage the System or which impair the System's ability to resist leaks; (d) Failure by the Owner to use reasonable care in maintaining the System, said maintenance to include, but not be limited to, those items listed on the reverse side of this Limited Warranty entitled "Building Envelope Care and Maintenance Guide"; (e) Deterioration or failure of building components, including, but not limited to, the roof substrate, walls, mortar, HVAC units, skylights etc.; (f) Construction generated moisture, condensation or infiltration of moisture in, from, through, or around the walls, copings, rooftop hardware or equipment, skylights, building structure or underlying or surrounding materials; (g) Acid, oil, harmful chemicals, or the reaction between them; (h) Alterations or repairs to the System that are not completed in accordance with Firestone's published specifications, not completed by an approved contractor, and/or not completed with proper notice to Firestone; (i) The design of the roofing system. Firestone does not undertake any analysis of the architecture or engineering required to evaluate what type of System is appropriate for a building and makes no warranty express or implied as to the suitability of its Products for any particular structure; such a determination is the responsibility of the architect, engineer or design professional; (j) Improper selection of materials for the roof assembly or the failure to accurately calculate wind uplift and/or roof loads;(k) Deterioration to metal roofing materials and accessories caused by marine salt water, atmosphere, or by regular spray of either salt or fresh water; or, (l) Change in building use or purpose.
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10. **Waiver.** Firestone's failure to enforce any of the terms or conditions stated herein shall not be construed as a waiver of such provision or of any other terms and conditions of this Limited Warranty.
11. **Governing Law.** This Limited Warranty shall be governed by and construed in accordance with the laws of the State of Indiana without regard to that State's rules on conflict of laws.
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THIS LIMITED WARRANTY SUPERSEDES AND IS IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND FIRESTONE HEREBY DISCLAIMS ALL SUCH WARRANTIES. THIS LIMITED WARRANTY SHALL BE THE OWNER'S SOLE AND EXCLUSIVE REMEDY AGAINST FIRESTONE, AND FIRESTONE SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL OR OTHER DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS OR DAMAGES TO THE BUILDING OR ITS CONTENTS OR THE ROOF DECK. THIS LIMITED WARRANTY CANNOT BE AMENDED, ALTERED OR MODIFIED IN ANY WAY EXCEPT IN WRITING SIGNED BY AN AUTHORIZED OFFICER OF FIRESTONE. NO OTHER PERSON HAS ANY AUTHORITY TO BIND FIRESTONE WITH ANY REPRESENTATION OR WARRANTY WHETHER ORAL OR WRITTEN.

FIRESTONE BUILDING PRODUCTS COMPANY, LLC
By: Phil LaDuke
Authorized Signature: Phil LaDuke
Title: Director, Quality Assurance

Firestone

BUILDING ENVELOPE CARE AND MAINTENANCE GUIDE
(For Red Shield Warranted Roofing Systems)

Congratulations on your purchase of a Firestone Roofing System! Your roof is a valuable asset that should be properly maintained. **All roofs and roofing systems require periodic inspection and maintenance to perform as designed and to keep your Limited Warranty in full force and effect.**

1. The roof should be inspected at least twice yearly and after any severe storms. A record of all inspection and maintenance activities should be maintained, including a listing of the date and time of each activity as well as the identification of the parties performing the activity.
2. Proper maintenance and good roofing practice require that ponded water (defined as water standing on the roof forty-eight hours after it stops raining) not be allowed on the roof. Roofs should have slope to drain, and all drain areas must remain clean. Bag and remove all debris from the roof since such debris can be quickly swept into drains by rain. This will allow for proper water run-off and avoid overloading the roof.
3. The Firestone Roofing System should not be exposed to acids, solvents, greases, oil, fats, chemicals and the like. If the Firestone Roofing System is in contact with any such materials, these contaminants should be removed immediately and any damaged areas should be inspected by a Firestone Licensed Applicator and repaired if necessary.
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5. Some Firestone roofing membranes require maintenance of the surface of the membrane:
   a. **Smooth-surfaced Firestone APP membranes** should be coated with an approved liquid coating, such as Firestone Aluminum Roof Coating or Firestone AcryliTop applied in accordance with Firestone specifications, in order to maximize the service life of the membrane. If this coating is not applied as part of the initial roofing installation, it should be applied within the first five years after the roof is installed to help protect the membrane from surface crazing and cracking. In addition, this coating should be maintained as needed to re-coat any areas that have blistered, peeled or worn through.
   b. **Granule-surfaced Firestone APP and SBS membranes** do not normally require surface maintenance other than periodic inspection for contaminants, cuts or punctures. If areas of granular loss are discovered during inspection, these areas should be coated with Firestone AcryliTop or other Firestone-approved coating applied in accordance with Firestone specifications.
   c. **Gravel-surfaced Firestone BUR membranes** do not normally require surface maintenance other than periodic inspection for contaminants or damage. If areas of gravel loss are discovered during inspection, gravel must be reinstalled into hot asphalt to protect the surface of the membrane. Coatings on smooth surface BUR membranes must be maintained as needed to re-coat any areas that have blistered, peeled or worn through.
   d. **Firestone EPDM and TPO roofing membranes** do not normally require surface maintenance other than periodic inspection for contaminants, cuts or punctures. Occasionally, approved liquid roof coatings, such as Firestone AcryliTop, are applied to the surface of EPDM membranes in order to provide a lighter surface color. Such coatings do not need to be maintained to assure the performance of the underlying EPDM roof membrane, but some maintenance and re-coating may be necessary in order to maintain a uniform surface appearance.
   e. **Firestone Una-Clad metal roofing panels and trim** do not normally require surface maintenance other than periodic inspection for contaminants or damage. In addition, periodic cleaning of the surface may be required to remove dirt and maintain the aesthetic appearance of the coated metal. Simple washing with plain water using hoses or pressure spray equipment is usually adequate. If cleaning with agents other than water is contemplated, several precautions should be observed: (1) do not use wire brushes, abrasives, or similar cleaning tools which will mechanically abrade the coating surface, and (2) cleaning agents should be tested in an inconspicuous area before use on a large scale.
6. All metal work, including counter-flashings, drains, skylights, equipment curbs and supports, and other Firestone brand rooftop accessories must be properly maintained at all times. Particular attention should be paid to sealants at joints in metal work and flashings. If cracking or shrinkage is observed, the joint sealant should be removed and replaced with new sealant.
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8. Should you experience a leak:
   (a) Check for the obvious: clogged roof drains, loose counterflashings, broken skylights, open grills or vents, broken water pipes.
   (b) Note conditions resulting in leakage. Heavy or light rain, wind direction, temperature and time of day that the leak occurs are all-important clues to tracing roof leaks. Note whether the leak stops shortly after each rain or continues to drip until the roof is dry. If you are prepared with the facts, the diagnosis and repair of the leak can proceed more rapidly.
   (c) Contact Firestone Warranty Claims at 1-800-830-5612 as soon as possible...but please don't call until you are reasonably sure that the Firestone Roofing System is the cause of the leak.

Firestone feels that the preceding requirements will assist you, the building owner, in maintaining a watertight roof for many years. Your roof is an investment, and maintenance is essential to maximize your return on this important investment.

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER™
250 West 96th Street – Indianapolis, IN 46260
1-800-428-4442 * 1-317-575-7000 * FAX 1-317-575-7100
www.firestonebp.com

Firestone
BUILDING PRODUCTS

NOW THAT YOU HAVE A NEW FIRESTONE ROOFING SYSTEM...

Congratulations on your purchase of a Firestone Roofing System! Your new roof is a valuable asset and as such should be properly maintained. All components of the building envelope require periodic maintenance to perform as designed. "Building Envelope Care And Maintenance Guide" printed on the back of your Firestone Limited Warranty contains a number of important items to assist you in maintaining a watertight building for many years. These maintenance guidelines recommend that the building envelope be inspected at least twice each year. Although this inspection can be performed by any qualified person selected by you, **Firestone recommends that at least one inspection every year be conducted by the Firestone Licensed Applicator who installed your roof.**

Whenever an inspection of the roof is performed, Firestone recommends that the following items be included:

1 ROOF CONDITIONS REQUIRING PERIODIC INSPECTION:

Periodic inspection of the following items is very important to assure that the Firestone Roofing System has not been exposed to conditions not covered by Firestone's Limited Warranty:

a. **Roof Traffic & Walkways:** The Firestone Roofing System is designed to be a waterproofing component—not a traffic bearing component of the building envelope. As stated in Firestone's System Design Instructions for all Firestone Roofing Systems, "Walkways help protect the membrane from damage due to necessary roof-top service traffic." Please note that walkways should be maintained at all roof access points, around all mechanical equipment which requires maintenance and at all areas where roof traffic more frequent than once a month is anticipated. **If, because of traffic requirements, walkways need to be installed on your roof, contact your Firestone Licensed Applicator before proceeding.**

b. **Discharges:** All components of the Firestone roof system must be protected from discharges, such as petroleum products, greases, oils and fats, acids and the like. If the building will have any such discharges, please contact Firestone for suggested methods of protection. **If, because of the presence of chemical discharges, protection measures are recommended, contact your Firestone Licensed Applicator before proceeding.**

5 ARRANGING FOR PERIODIC INSPECTIONS:

Please note that the cost of periodic inspections, either by your Firestone Licensed Applicator or by any other roofing professional, are not included in the cost of your Limited Warranty. Firestone recommends that you contact your Firestone Licensed Applicator to obtain a proposal for inspection and maintenance services.

6 ADDITION OF PHOTOVOLTAIC (PV), GARDEN, OR SIMILAR SYSTEMS:

Not all roofing systems are configured in a way that allows them to accept photovoltaic (PV) systems, garden systems, or other above-membrane additions. Prior to installing any systems over your Firestone roofing membrane, you must contact Firestone Quality Building Services Group at 1-800-428-4511 for review of the roofing system's readiness for accepting above-membrane systems.

Firestone feels that the preceding recommendations will help you maintain a watertight building for many years. To maximize your return on your building investment, appropriate care is essential. Whenever you have questions concerning your roofing system, do not hesitate to contact your Firestone Licensed Applicator or your local Firestone Sales Representative.

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™

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TITAN ROOFING, INC.
70 Orange St., Chicopee, MA 01013-3849

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Main office fax (413) 533-2560
Estimating fax (413) 533-1186

MINORITY BUSINESS ENTERPRISE
Commonwealth of Massachusetts
State of New York

Date: **May 21, 2013**

Owner: **City of Worcester DPW**
455 Main Street
Worcester, MA 01608

Project: **Worcester DPW Garage**
29 Albany Street
Worcester, MA 01604-3630
TRI Project #:120158

We Titan Roofing Inc., hereby guarantee (or warrant) **All EPDM Membrane Roofing Workmanship** for a period of "**Two**" (**2**) year (s) after the substantial completion date of **May 21, 2013** for the project indicated above, against "all defects according to plans and specifications" in accordance with the requirements of Section **07531**, Page **4**, Article **1.10** of the Contract Documents. This warranty expires **May 20, 2015**.

Shawna Pazmino-Brook
Treasurer

TRI TITAN ROOFING, INC.
70 Orange St., Chicopee, MA 01013-3849

Main office phone (413) 536-1624
Main office fax (413) 533-2560
Estimating fax (413) 533-1186

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Shawna Pazmino-Brook
Treasurer

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32 Railroad Avenue
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Phone 518-235-1707
Fax 518-235-1753

7756 State Route 5, Rear Building
Clinton, NY 13323
Phone 315-381-3089
Fax 315-381-3327

DRAFT LIMITED HAZARDOUS MATERIAL INSPECTION REPORT

DEPARTMENT OF PUBLIC WORKS (DPW) GARAGE

29 ALBANY STREET, WORCESTER, MA 01604

PREPARED FOR:

Mr. Timothy Boucher
DPW & Parks
City of Worcester
50 Officer Manny Familia Way
Worcester, MA 01605
P: 508.989.4631

PREPARED BY:

Atlas Technical Consultants LLC
73 William Franks Drive
West Springfield, MA 01089

August 22, 2025

73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070 | oneatlas.com

August 22, 2025

Atlas No. 183MM25038

Mr. Timothy Boucher
DPW & Parks
City of Worcester
50 Officer Manny Familia Way
Worcester, MA 01605

Subject: Limited Hazardous Material Inspection Report
DPW Garage, 29 Albany St. Worcester, MA 01604

Dear Mr. Boucher,

The enclosed Hazardous Material Inspection Report was performed and prepared by Atlas Technical Consultants (ATLAS). The survey was limited to materials associated with the heating system renovation project at the DPW Garage, 29 Albany Street, Worcester, MA 01605. The scope of the survey was determined by NV5 plans. The following summarizes our findings limited to renovation areas only, see report for additional details:

Pipe insulation fittings contained asbestos and will need to be removed in accordance with asbestos regulations prior to renovation if impacted by the heating upgrade project. Roof top unit duct backing paper also contained asbestos but it unlikely to be impacted by renovation activities.

All paint contained lead and will need to be safely handled during all phases of renovation in accordance with OSHA regulations 29 CFR 1926.62.

Identified universal wastes include gas heating fuel lines that will need to be addressed in accordance with applicable regulations if impacted by the renovation. Heating thermostats appear to be electronic.

ATLAS' visual observations and laboratory reports forms the basis for the conclusions contained in this report. The following licensed and accredited inspectors performed the inspection on 7/25/25. If you have any questions, please call us at 413.522.8833.

Respectfully submitted,

Dylan Matilainen
Massachusetts Asbestos Inspector #: AI90064
Phone: 978-424-3371
Email: Dylan.Matilainen@oneatlas.com

Michael Matilainen CIH, CSP
Project Manager
Phone: 413-522-8833
Email: Michael.Matilainen@oneatlas.com

CONTENTS

APPENDICES

ATTACHMENTS

LIST OF ACRONYMS AND ABBREVIATIONS

ACBM	Asbestos-Containing Building Material
ACM	Asbestos-Containing Material
AHERA	Asbestos-Hazard Emergency Response Act
CFR	Code of Federal Regulations
DPH	Department of Public Health
EPA	Environmental Protection Agency
LBP	Lead Based Paint
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOB	Non-Friable Organically Bound
OSHA	Occupational Safety and Health Administration
PACM	Presumed Asbestos-Containing Material
PLM	Polarized Light Microscopy
RACM	Regulated Asbestos-Containing Building Material
TEM	Transmission Electron Microscopy

1. SITE DESCRIPTION

This report addresses suspect asbestos and lead-containing materials associated with the heating upgrade project at Worcester DPW Garage, located at 29 Albany St. Worcester, MA. The building's construction was completed in 1970 with several renovations at unknown dates. Tested materials include representative building components likely to be impacted by renovation activities. All sampling performed is limited to specific areas identified by the Architect.

1.1 SURVEY LIMITATIONS

The building was unoccupied at the time of the survey. Limited destructive investigation techniques were used in this survey. Suspect lead, PCB, asbestos, mercury or other hazardous materials may exist within inaccessible areas of the building or grounds that could not be evaluated during this study. These areas include but are not limited to:

- Interior of floors, walls and ceiling cavities
- Foundation waterproofing systems
- Underground pipe tunnels and chases
- Gaskets on equipment, tanks, pipe, etc.
- Building plumbing systems
- Electrical wiring
- Pipe and duct wall penetrations

Several regulated materials may also be present in the facility that were not fully evaluated as part of this study including but not limited to containerized wastes, hydraulic equipment, extinguishing systems, life safety equipment, etc.

2. ASBESTOS INSPECTION

Atlas's Scope of Work included a limited asbestos inspection of the above referenced building. Outlined below is a description of Atlas's testing methodology.

2.1 ASBESTOS PROTOCOL

Atlas preformed a limited survey to identify suspect asbestos-containing materials in the above referenced building. The Asbestos Inspection included a visual assessment of accessible suspect asbestos-containing materials and subsequent bulk sampling and analysis.

EPA and OSHA define ACBM as any material containing greater than one percent (>1%) asbestos. The ACBM inspection and bulk sampling was performed in accordance with the methods outlined in the U.S. EPA guidance document titled, Guidance for Controlling Asbestos-Containing Materials in Buildings (Document No. 560/5-85/024). In addition, bulk sampling of asbestos was performed in general accordance with 40 CFR Part 763 Asbestos Hazard Emergency Response Act (AHERA) requirements for number of samples and types of ACBM to be sampled. According to these requirements, materials are classified as either surfacing (e.g., ceiling plaster, wall plaster, spray-applied fireproofing), thermal system insulation (e.g., pipe insulation, pipe fitting insulation, boiler insulation), or miscellaneous materials (e.g., floor tile, ceiling tile, wallboard). The number of samples collected from each material varies based on the classification of the material and increases as the potential for a non-uniform mixture of asbestos in the material increases.

Samples collected for asbestos analysis were obtained by qualified and certified (Certified State of Massachusetts Site Inspector) personnel utilizing proper safety measures such as wetting the material prior to sampling, cleaning up the area by wet wiping any resulting residual debris, and wearing proper protective equipment, as needed. In order to be certain of sampling the entire thickness of a material, coring tools and knives were utilized to penetrate all layers of a material. All collected samples were then placed in appropriately labeled airtight containers for shipment to the laboratory for analysis.

2.2 ASBESTOS ANALYSIS

All samples collected were transported under chain-of-custody protocol to EMSL lab in Long Island City, NY. Bulk samples were analyzed for asbestos content using Polarized Light Microscopy (PLM) with Dispersion Staining (EPA Method 600/R-93/116 and/or EPA Method 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Building Materials). To qualify as asbestos-containing, the material must be determined to contain greater than or equal to one percent (≥1%) from a homogeneous material area set of samples.

Consequently, according to the EPA/AHERA and State of Massachusetts Department of Environmental Protection criteria, all bulk samples from a homogeneous area must be found to contain less than one percent (<1%) asbestos in order to be classified as non-asbestos-containing. MassDEP also requires materials that contain any asbestos (<1%) be handled and disposed of as asbestos containing material.

3. LEAD-BASED PAINT (LBP) TESTING

Atlas performed limited lead characterization of painted, stained, or varnished components located throughout the specified area. Outlined below is a description of Atlas testing methodology.

3.1 LEAD PROTOCOL

All lead bulk samples collected were transported under chain-of-custody protocol to EMSL lab in Long Island City, NY. Paint chip samples were analyzed for lead content using Flame Atomic Absorption Spectrometry (Flame AAS) Method SW 846 3050B/700B. To qualify as lead-containing paint, the Massachusetts Lead Law (105 CMR 460.000) and the U.S. EPA's Renovation, Repair and Painting (RRP) Rule state that painted surfaces must contain lead equal to or greater than 0.5% by weight. However, any detectable level of lead in paint regardless of concentration is subject to the OSHA 29 CFR 1926.62 "Lead in Construction Regulations" if disturbed during renovation activities.

4. HAZARDOUS MATERIALS

The objective of the hazardous materials survey was to visually evaluate building components and containers for potential hazardous materials. No sampling was completed as part of this visual survey. The following is a general description of hazardous materials we evaluate as part of our survey.

Polychlorinated biphenyls (PCBs) are toxic coolants or lubricating oils used in some electrical transformers, light ballasts, electrical panels, capacitors, or other similar equipment manufactured prior to 1979. PCBs may also be identified in miscellaneous building materials. In general, the PCBs were used in these building materials such as sealant (e.g. caulk, sealants, insulation, and window glazing compound) plasticizers and/or flame retardants.

Fluorescent light fixture ballasts manufactured prior to 1979 may contain small quantities of PCBs. Recently manufactured fluorescent light ballasts do not contain PCBs and those manufactured between 1978 and 1998 were required to have “No PCBs” labels.

Fluorescent and high intensity light bulbs may contain small amounts of heavy metals such as mercury, lead, cadmium, and nickel, and therefore must be handled/disposed of properly.

Thermostats, thermometers, and pressure gauges sometimes contain mercury. In addition, mercury-containing switches were sometimes used on heating boilers.

Rechargeable batteries are generally associated with emergency exit lights, emergency safety lights, and other emergency service items. Rechargeable batteries can contain heavy metals such as mercury, lead, cadmium, and nickel, that need to be recycled of properly disposed.

A variety of containerized chemicals that are consumed on a regular basis (e.g. refrigerants, cleaners, paints, fuels, etc.) are often considered hazardous materials when disposed of as waste product.

5. FINDINGS

Refer to the following Appendices for a summary of each tested material, location, analytical and results and approximate quantities:

I TABLE OF ASBESTOS-CONTAINING MATERIALS
II TABLE OF NON-ASBESTOS MATERIAL
III TABLE OF LEAD RESULTS
IV LIST OF UNIVERSAL WASTES

6. CONCLUSIONS AND RECOMMENDATIONS

Attached analytical results show asbestos was detected in pipe fittings and RTU duct insulation backing paper. Attached analytical results show detectable lead in all sampled paints. The following response actions are required to be implemented to properly manage hazardous materials at the site:

A. In accordance with EPA's National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations, all materials found to be asbestos containing in the building will be required to be abated prior to renovation/demolition activities. In addition, all asbestos abatement work is required to be performed by a Massachusetts state licensed Asbestos Abatement Contractor in accordance with local, state and federal regulations.

B. Any suspect asbestos-containing material discovered during renovation/demolition which is not included in this report shall be assumed to be asbestos-containing until further bulk sampling and analysis is performed.

C. For materials which contain less than 1 percent asbestos several OSHA requirements still apply if the asbestos permissible exposure limit (PEL) is exceeded or might be exceeded. These include requirements regarding:

   - The use of wet methods
   - Prompt clean-up and disposal of waste and debris contaminated with asbestos in leak tight containers; and
   - Record keeping requirements associated with negative exposure assessment.

   MassDEP also requires materials that contain any asbestos (<1%) be handled and disposed of as asbestos-containing material.

D. To comply with OSHA's Hazard Communication Standard, (29 CFR 1910.1200) and Asbestos Standard (29 CFR 1910.1001) workers shall be notified of the presence of asbestos in building materials and trained on proper handling methods. This shall include, but not be limited to:

   - Wearing work clothes and gloves
   - Washing hands prior to eating
   - Not smoking or eating within the work area
   - Employing methods that minimize the generation of dust when disturbing materials to the extent practicable

E. Prior to the start of the work, hazardous material abatement specifications shall be developed to outline project requirements. Air monitoring shall be performed to determine the effectiveness of abatement. The Contractor shall be required to provide a written description detailing the means and methods to achieve compliance with the provisions outlined herein.

F. For hazardous materials left in place, an asbestos Operations and Maintenance program should be developed and followed to ensure that workers:

- Maintain inventory of hazardous materials
- Ensure staff are made aware of hazardous materials locations through training or hazard labeling
- Regularly inspect hazardous materials and maintain in good condition
- Utilize personal protective equipment if exposed to hazard materials

G. Attached analytical results show detectable lead in all sampled paints. All demolition work, which disturbs lead-containing materials, will be subject to OSHA 29 CFR 1926.62 “Lead in Construction Regulations”. Under OSHA, the employer is responsible for protection of their employees when performing renovation and/or demolition work which disturbs lead materials. Compliance shall include written programs, medical monitoring, exposure assessment testing and engineering controls. Any suspect lead-containing material discovered during renovation/demolition which is not included in this report shall be assumed to be lead-containing until further bulk sampling and analysis is performed.

H. Prior to disposal of any waste generated from demolition or renovation activities that disturb lead-containing materials, Toxicity Characteristic Leaching Procedure (TCLP) testing must be conducted in accordance with EPA Method 1311 to determine if the waste exhibits hazardous characteristics under the Resource Conservation and Recovery Act (RCRA). Waste materials that leach lead at concentrations ≥ 5.0 mg/L must be managed as hazardous waste and disposed of in compliance with all applicable federal and state hazardous waste regulations.

I. Other regulated metals (e.g. chromium, cadmium, etc.) may be present in paint that were not evaluated as part of this limited survey.

APPENDIX I
TABE OF ASBESTOS-CONTAINING MATERIALS

Table of Asbestos-Containing Materials 29 Albany St. Worcester, MA 01604					
Material Description	**Asbestos Results**	**Sample Locations**	**Bulk Sample Reference #**	**Locations of Homogeneous Materials**	**Approximate Total Quantities**
Pipe Fitting Insulation	20% Chrysotile	North End Garage Northeast Garage South Garage	DM072525-01A DM072525-01B DM072525-01C	Pipe fittings throughout garage bay	100 EA
RTU Insulation Paper Backing	<1% Chrysotile	North RTU South RTU	DM072525-07A DM072525-07B	3 East Garage RTUs	1,200 SF

LF – Linear Feet
SF – Square Feet
EA – Each

APPENDIX II
TABLE OF NON-ASBESTOS MATERIALS

Table of Non-Asbestos Materials 29 Albany St. Worcester, MA 01604		
Material Description	**Location**	**Bulk Sample Reference #**
Black Roof Patch Sealant	Center Roof Northeast Roof	DM072525-02A DM072525-02B
RTU Duct Insulation	North RTU South RTU	DM072525-03A DM072525-03B
Foam Insulation Paper Backing	Center Roof Northeast Roof	DM072525-04A DM072525-04B
6” Seam Tape Adhesive	Center Roof Northeast Roof	DM072525-05A DM072525-05B
½” Foam Board Layer	Center Roof Northeast Roof	DM072525-06A DM072525-06B
RTU Penetration Sealant	North RTU South RTU	DM072525-08A DM072525-08B
2” Foam Board Layer	Center Roof Northeast Roof	DM072525-09A DM072525-09B
2” Foam Board Layer Paper Backing	Center Roof Northeast Roof	DM072525-10A DM072525-10B

APPENDIX III
TABLE OF LEAD RESULTS

Table of Lead Results 29 Albany St. Worcester, MA 01604				
Material Description	**Results**	**Bulk Sample Reference #**	**Locations of Homogeneous Materials**	**Approximate Total Quantities**
Green Paint on Structural Steel	0.38% wt. Lead	L1	Throughout East Garage Bay	1,400 SF
Silver/Black Paint on Structural Steel	0.64% wt. Lead	L2	Throughout East Garage Bay	670 SF

% wt. – Lead Percent by Sample Weight
SF – Square Feet

APPENDIX IV
LIST OF UNIVERSAL WASTE

List of Universal Wastes 29 Albany St. Worcester, MA 01604		
Material Description	**Locations of Materials**	**Approximate Total Quantities**
Heating System Fuel Lines	Throughout Garage Bay	1,200 LF

LF – Linear Feet

ATTACHMENTS

LABORATORY REPORTS
CHAIN OF CUSTODIES

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http://www.EMSL.com / manhattanlab@emsl.com

EMSL Order: 032510255
Customer ID: ATC62
Customer PO: 11-81-0030
Project ID:

Attention: Michael Matilainen
Atlas Technical
73 William Franks Drive
West Springfield, MA 01089

Phone: (413) 522-8833
Fax: (413) 781-3734
Received Date: 07/31/2025 11:55 AM
Analysis Date: 08/07/2025
Collected Date: 07/25/2025

Project: 183MM25038 / 29 Albany St. - Worcester DPW / 29 Albany St. Worcester, MA 01604

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
DM07252-01A *032510255-0001*	North End Garage - Pipe Fitting Insulation	White Fibrous Homogeneous		80.0% Non-fibrous (Other)	**20% Chrysotile**
DM07252-01B *032510255-0002*	Northeast End Garage - Pipe Fitting Insulation				**Positive Stop (Not Analyzed)**
DM07252-01C *032510255-0003*	South Garage - Pipe Fitting Insulation				**Positive Stop (Not Analyzed)**
DM07252-02A *032510255-0004*	Center Roof - Black Roof Patch Sealant	Black Non-Fibrous Homogeneous		55% Ca Carbonate 45.0% Non-fibrous (Other)	**None Detected**
DM07252-02B *032510255-0005*	Northeast Roof - Black Roof Patch Sealant	Black Non-Fibrous Homogeneous		15% Ca Carbonate 85.0% Non-fibrous (Other)	**None Detected**
DM07252-03A *032510255-0006*	North RTU - RTU Duct Insulation	White Fibrous Homogeneous	80% MinWool	20.0% Non-fibrous (Other)	**None Detected**
DM07252-03B *032510255-0007*	South RTU - RTU Duct Insulation	Gray/White Fibrous Homogeneous	90% MinWool	10.0% Non-fibrous (Other)	**None Detected**
DM07252-04A *032510255-0008*	Center Roof - Foam Insulation Layer Paper Backing	Gray Fibrous Homogeneous	60% Cellulose	40.0% Non-fibrous (Other)	**None Detected**
DM07252-04B *032510255-0009*	Northeast Roof - Foam Insulation Layer Paper Backing	Gray Fibrous Homogeneous	70% Cellulose 10% Glass	20.0% Non-fibrous (Other)	**None Detected**

Initial report from: 08/07/2025 15:24:54

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
DM07252-05A *032510255-0010*	Center Roof - 6" Seam Tape Adhesive	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	**None Detected**
DM07252-05B *032510255-0011*	Northeast Roof - 6" Seam Tape Adhesive	Black Non-Fibrous Homogeneous		15% Ca Carbonate 85.0% Non-fibrous (Other)	**None Detected**
DM07252-06A *032510255-0012*	Center Roof - 1/2" Foam Board Layer	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	**None Detected**
DM07252-06B *032510255-0013*	Northeast Roof - 1/2" Foam Board Layer	Yellow Non-Fibrous Homogeneous	3% Glass	5% Ca Carbonate 92.0% Non-fibrous (Other)	**None Detected**
DM07252-07A *032510255-0014*	North RTU - RTU Insulation Paper Backing	Black Non-Fibrous Homogeneous	5% Wollastonite	95.0% Non-fibrous (Other)	**None Detected**
		The sample group is not homogeneous			
DM07252-07B *032510255-0015*	South RTU - RTU Insulation Paper Backing	Black/Silver Fibrous Homogeneous	35% Glass 3% Fibrous_Other	62.0% Non-fibrous (Other)	**<1% Chrysotile**
		The sample group is not homogeneous			
DM07252-08A *032510255-0016*	North RTU - RTU Penetration Sealant	Black Non-Fibrous Homogeneous	5% Wollastonite	95.0% Non-fibrous (Other)	**None Detected**
DM07252-08B *032510255-0017*	South RTU - RTU Penetration Sealant	Black Non-Fibrous Homogeneous		20% Ca Carbonate 80.0% Non-fibrous (Other)	**None Detected**
DM07252-09A *032510255-0018*	North End Garage - 2" Foam Board Layer	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	**None Detected**

Samples analyzed by EMSL Analytical, Inc. Long Island City, NY AIHA LAP, LLC-IHLAP Accredited #102581, NVLAP Lab Code 101048-9, CT PH-0170, MA AA000170

Initial report from: 08/07/2025 15:24:54

EMSL Analytical, Inc.

10-39 45th Road Long Island City, NY 11101
Tel/Fax: (212) 290-0051 / (212) 290-0058
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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
DM07252-09B *032510255-0019*	Northeast End Garage - 2"' Foam Board Layer	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	**None Detected**
DM07252-10A *032510255-0020*	South Garage - 2" Foam Board Layer Paper Backing	White Non-Fibrous Homogeneous	10% Glass	90.0% Non-fibrous (Other)	**None Detected**
DM07252-10B *032510255-0021*	Center Roof - 2" Foam Board Layer Paper Backing	Yellow/Beige Fibrous Homogeneous	10% Glass	20% Ca Carbonate 70.0% Non-fibrous (Other)	**None Detected**

Initial report from: 08/07/2025 15:24:54

EMSL Analytical, Inc.
10-39 45th Road Long Island City, NY 11101
Tel/Fax: (212) 290-0051 / (212) 290-0058
http://www.EMSL.com / manhattanlab@emsl.com

EMSL Order: 032510255
Customer ID: ATC62
Customer PO: 11-81-0030
Project ID:

Attention: Michael Matilainen
Atlas Technical
73 William Franks Drive
West Springfield, MA 01089

Phone: (413) 522-8833
Fax: (413) 781-3734
Received Date: 07/31/2025 11:55 AM
Analysis Date: 08/07/2025
Collected Date: 07/25/2025

Project: 183MM25038 / 29 Albany St. - Worcester DPW / 29 Albany St. Worcester, MA 01604

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date:	07/31/2025	Sample Receipt Time:	11:55 AM
Analysis Completed Date:	08/07/2025	Analysis Completed Time:	2:47 PM

Analyst(s):

Jessica R Macdonald

Jessica Macdonald PLM (9)

M. Fragoso

Madison Fragoso PLM (10)

Samples Reviewed and approved by:

Charles Johnson, Laboratory Manager
or other approved signatory

Initial report from: 08/07/2025 15:24:54

ATLAS

032510255

Asbestos Bulk Sample Chain-of-Custody

Project Name: 29 Albany St. – Worcester DPW

Project Address: 29 Albany St. Worcester, MA 01604

Project Number: 183MM25038

Project Manager: Michael Matilainen

Sampled By: D. Matilainen

Results To: michael.matilainen@oneatlas.com

Analysis Type: PLM

Turnaround Time: 5-Day

Date: 7/25/25

Positive Stop: Yes

Special Instructions or Comments:

Field ID	Sample Description	Location	Homogeneous Material
DM072525-01A	Pipe Fitting Insulation	North End Garage	01
DM072525-01B	Pipe Fitting Insulation	Northeast End Garage	01
DM072525-01C	Pipe Fitting Insulation	South Garage	01
DM072525-02A	Black Roof Patch Sealant	Center Roof	02
DM072525-02B	Black Roof Patch Sealant	Northeast Roof	02
DM072525-03A	RTU Duct Insulation	North RTU	03
DM072525-03B	RTU Duct Insulation	South RTU	03
DM072525-04A	Foam Insulation Layer Paper Backing	Center Roof	04
DM072525-04B	Foam Insulation Layer Paper Backing	Northeast Roof	04
DM072525-05A	6" Seam Tape Adhesive	Center Roof	05
DM072525-05B	6" Seam Tape Adhesive	Northeast Roof	05
DM072525-06A	½" Foam Board Layer	Center Roof	06
DM072525-06B	½" Foam Board Layer	Northeast Roof	06
DM072525-07A	RTU Insulation Paper Backing	North RTU	07
DM072525-07B	RTU Insulation Paper Backing	South RTU	07
DM072525-08A	RTU Penetration Sealant	North RTU	08
DM072525-08B	RTU Penetration Sealant	South RTU	08

2025 JUL 30 A 11:55

M. Fhargo88 8/7/25

Relinquished By: [signature] **Date:** 7/29/25 **Received By:** Chelsea Longmore **Date:** 07/30/25 11:55 AM

Relinquished By: **Date:** **Received By:** **Date:**

Jessica R Macdonald 8/7/25

73 William Franks Drive, West Springfield, MA 01089
413.781.0070 | oneatlas.com

ATLAS

032510255

Field ID	Sample Description	Location	Homogeneous Material
DM072525-09A	2" Foam Board Layer	North End Garage	09
DM072525-09B	2" Foam Board Layer	Northeast End Garage	09
DM072525-10A	2" Foam Board Layer Paper Backing	South Garage	10
DM072525-10B	2" Foam Board Layer Paper Backing	Center Roof	10

Relinquished By: ______ **Date:** 7/29/25 **Received By:** Chelsea Longmore **Date:** 07/30/25 11:55 AM

Relinquished By: ______ **Date:** ______ **Received By:** ______ **Date:** ______

2025 JUL 30 A 11:55

73 William Franks Drive, West Springfield, MA 01089
413.781.0070 | oneatlas.com

EMSL Analytical, Inc.

10-39 45th Rd, Long Island City, NY, 11101
Telephone: 212.290.0051 Fax:856-786-5974
emsl.com

EMSL Order ID: 032550861
LIMS Reference ID: DD50861
EMSL Customer ID: ATC62

Attention: Michael Matilainen
Atlas Technical [ATC62]
73 William Franks Drive
West Springfield, MA 01089
(413) 522-8833
michael.matilainen@oneatlas.com

Project Name: 29 Albany St. - Worcester DPW

Customer PO:
EMSL Sales Rep: Christopher Brandt
Received: 07/30/2025 11:58
Reported: 08/02/2025 11:43

Analytical Results

Analyte	Results	RL	Weight(g)	Prep Date & Tech	Prep Method	Analysis Date & Analyst	Analytical Method	Q	DF
Client Sample ID: L1/Green Paint on Steel Beam									**Date Sampled: 07/25/25**
Matrix: Chips									**LIMS Reference ID: DD50861-01**
Lead	0.38 % wt	0.061 % wt	0.2621	08/01/25 NA	SW-846 3050B	08/01/25 NA	SW 846-7000B	D	10
Sample Comments:									
Client Sample ID: L2/Silver/Black Paint on Steel Beam									**Date Sampled: 07/25/25**
Matrix: Chips									**LIMS Reference ID: DD50861-02**
Lead	0.64 % wt	0.061 % wt	0.2627	08/01/25 NA	SW-846 3050B	08/01/25 NA	SW 846-7000B	D	10
Sample Comments:									

EMSL Analytical, Inc.

10-39 45th Rd, Long Island City, NY, 11101
Telephone: 212.290.0051 Fax:856-786-5974
emsl.com

EMSL Order ID: 032550861
LIMS Reference ID: DD50861
EMSL Customer ID: ATC62

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michael.matilainen@oneatlas.com

Project Name: 29 Albany St. - Worcester DPW

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EMSL Sales Rep: Christopher Brandt
Received: 07/30/2025 11:58
Reported: 08/02/2025 11:43

Certified Analyses included in this Report

Analyte	Certifications
SW 846-7000B in Chips	
Lead	03-NYDOH,03-AIHA ELLAP

List of Certifications

Code	Description	Number	Expires
03-AIHA IHLAP	American Industrial Hygiene Association (AIHA LAP, LLC) - IHLAP	102581	01/01/2027
03-AIHA ELLAP	American Industrial Hygiene Association (AIHA LAP, LLC) - ELLAP	102851	01/01/2027
03-NYDOH	New York State Department of Health ELAP	11506	04/01/2026

Please see the specific Field of Testing (FOT) on www.emsl.com <http://www.emsl.com> for a complete listing of parameters for which EMSL is certified.

Notes and Definitions

Item	Definition
D	Analyte was reported from a dilution run.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DA	Direct Analysis
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
NR	Spike/Surrogate showed no recovery.
Q	Qualifier
RCS	Respirable Crystalline Silica
RL	Reporting Limit
Wet	Sample is not dry weight corrected.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

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emsl.com

EMSL Order ID: 032550861
LIMS Reference ID: DD50861
EMSL Customer ID: ATC62

Attention: Michael Matilainen
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Project Name: 29 Albany St. - Worcester DPW

Customer PO:
EMSL Sales Rep: Christopher Brandt
Received: 07/30/2025 11:58
Reported: 08/02/2025 11:43

Bemu Akter

Bemu Akter Laboratory Manager or other approved signatory

Analysis following EMSL SOP for the Determination of Environmental Lead by FLAA. The laboratory has a reporting limit of 0.0064% by wt., based upon a minimum sample weight of 0.25g submitted to the lab, and is not responsible for any result or reporting limit provided in mg/cm2 since it is dependent upon an area value provided by non-lab personnel. A "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty and definitions of modifications are available upon request. Results in this report are not blank corrected unless specified.

EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

Lead Chain of Custody

EMSL Order Number / Lab Use Only

DD50861

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: CinnaminsonLeadLab@emsl.com

If Bill-To is the same as Report-To leave this section blank. Third-party billing requires written authorization.

Customer Information		Billing Information	
Customer ID:		Billing ID:	
Company Name:	Atlas Technical Consultants	Company Name:	
Contact Name:	Michael Matilainen	Billing Contact:	
Street Address:	73 William Franks Drive	Street Address:	
City, State, Zip:	West Springfield, MA 01089 Country: USA	City, State, Zip:	Country:
Phone:	413-522-8833	Phone:	
Email(s) for Report:	michael.matilainen@oneatlas.com	Email(s) for Invoice:	

Project Information

Project Name/No: 29 Albany St. - Worcester DPW	Purchase Order: 183MM25038
EMSL LIMS Project ID: (If applicable, EMSL will provide)	US State where samples collected: MA
State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)	
Sampled By Name: D. Matilainen	Sampled By Signature: [signature]
No. of Samples in Shipment: 2	

Turn-Around-Time (TAT) N.A.

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☐ 48 Hour ☑ ~~72 Hour~~ ☐ 96 Hour ☐ 1 Week ☐ 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT	SELECTION
CHIPS ☑ % by wt. ☐ ppm (mg/kg) ☐ mg/cm² *Chips reporting Limit based on a minimum 0.25g sample weight. Not appropriate for Ceramic Tiles - XRF is recommended. *Sample Area Required below for mg/cm²	SW 846-7000B	Flame Atomic Absorption	*Please select reporting on left. - 0.0064% - 64 ppm - mg/cm2 - RL is Variable	☑ N.A.
	SW 846-6010D	ICP-OES	*Please select reporting on left. - 0.0004% - 4 ppm - mg/cm2 - RL is Variable	☐
AIR	NIOSH 7082	Flame Atomic Absorption	3.2 µg/filter	☐
	NIOSH 7303M	ICP-OES	1.0µ g/filter	☐
	NIOSH 7303M	ICP-MS	0.05 µg/filter	☐
WIPE ☐ ASTM ☐ NON-ASTM	SW 846-7000B*	Flame Atomic Absorption	8 µg/wipe	☐
*If no box is checked, non-ASTM Wipe is assumed	SW 846-6010D*	ICP-OES	1.0 µg/wipe	☐
TCLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.32 mg/L (ppm)	☐
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
SPLP	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.32 mg/L (ppm)	☐
	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
TTLC	22 CCR App. II, 7000B	Flame Atomic Absorption	32 mg/kg (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	2 mg/kg (ppm)	☐
STLC	22 CCR App. II, 7000B	Flame Atomic Absorption	0.32 mg/L (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
Soil	SW 846-7000B	Flame Atomic Absorption	32 mg/kg (ppm)	☐
	SW 846-6010D*	ICP-OES	2 mg/kg (ppm)	☐
Wastewater	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.32 mg/L (ppm)	☐
Unpreserved ☐ Preserved with HNO3 ☐ PH<2	EPA 200.7 / 6010D	ICP-OES	0.020 mg/L (ppm)	☐
Drinking Water	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
Unpreserved ☐ Preserved with HNO3 ☐ PH<2	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	☐
		ICP-MS	0.6 µg/filter	☐
Other:				

EMSL LONG ISLAND CITY LAB RECEIVED
2025 JUL 30 A 11:58

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
L1	Green Paint on Steel Beam		7/25/25
L2	Silver/Black Paint on Steel Beam		7/25/25

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by: D. Matilainen [signature]	Date/Time: 7/21/25 1200	Received by: Chelsea Fougnione	Date/Time ~~01/2~~ 7/30/25 11:58 AM
Relinquished by:	Date/Time:	Received by:	Date/Time

Controlled Document COC-25 Lead R22 03/28/2025

*6010C Available Upon Request

☐ **AGREE TO ELECTRONIC SIGNATURE** (By checking, I consent to signing this Chain of Custody document by electronic signature.)

PL- Naseem Ahmad - 8/1/2025