ERIE COUNTY DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER

Addendum No. 1

Project Name: BECPL Exterior Marble Restoration
Project No.: 2025-812-03

Project Location:
Buffalo & Erie County Central Library
One Lafayette Square
Buffalo, New York 14202

Date: November 5, 2026

This Addendum is being issued to clarify the bid documents and shall supersede and supplement all portions of previously issued bid documents with which it conflicts. It shall be made an integral part of the construction documents.

RFI RESPONSES

1. QUESTION: Recommend using DOW Corning 756 sealant in lieu of DOW Corning 795.
RESPONSE: Refer to attached Section 079200 – Joint Sealants, paragraph 2.4 and add sub-paragraph C. For stone-to-stone joints, stone-to-concrete joints, or stone-to-metal joints use DOWSIL 756 SMS Building Sealant or approved equal meeting the specified performance requirements. Specification Section 07 92 00 shall be revised accordingly.
D. For metal-to-metal joints use DOWSIL 795 Silicone Building Sealant or approved equal meeting the specified performance requirements. Specification Section 07 92 00 shall be revised accordingly.

2. QUESTION: Please provide a copy of the Destructive Testing Report.
RESPONSE: The Exterior Stone Panel Destructive Testing Report will be posted with this addendum.

3. QUESTION: Please provide a budget for bonds.
RESPONSE: As part of the project is funded by a state grant we have not yet heard back on, the budget is variable. This is reflected in the different alternates to ensure that, at a minimum, the base bid will be able to be completed.

4. QUESTION: Do the contract documents outline how long joints may remain unprotected after the sealant is removed?

RESPONSE: Add Specification Section 07 92 00 – 3.4.F. as follows: Joint Sealants, shall be revised to require that sealant removal be limited to the quantity that can be cleaned, prepared, and resealed during the same workday. Open joints shall not remain unprotected overnight. Temporary weatherproof protection shall be provided where immediate sealant replacement is not possible.

5. QUESTION: Please confirm the intent of cleaning the building. Whether the stone and other materials should be cleaned prior to the repair/replacement work.

RESPONSE: Attached Section 040140 – Maintenance of Stone Masonry clarifies that the stone façade is to be cleaned prior to repair and replacement work to expose existing conditions and permit accurate evaluation of deterioration. Stone restoration, repointing, and sealant replacement shall follow cleaning. A localized final cleaning shall be performed after restoration work is complete. All stone restoration work shall be completed prior to final cleaning of adjacent glass and stainless-steel surfaces. Refer to attached specification section 040140 which includes the following:

3.7 SEQUENCE OF WORK

A. The intent of façade cleaning is to expose existing conditions and permit accurate evaluation of deterioration prior to stone restoration.

B. Perform work in the following sequence:

1. Provide temporary repairs and weather protection for active leaks and areas susceptible to water infiltration.
2. Perform cleaning test panels at inconspicuous locations and obtain Architect's approval of cleaning methods prior to proceeding with façade cleaning.
3. Clean stone surfaces in accordance with approved test panels and specified cleaning procedures.
4. Following completion of cleaning, perform stone restoration work, including crack repairs, dutchman repairs, stone replacement, mortar repointing, and joint sealant replacement.
5. Upon completion of restoration activities, perform localized final cleaning of affected areas to remove mortar residue, construction-related staining, debris, and other restoration by-products.

C. Protect adjacent glass, stainless steel, and other finished materials throughout cleaning and restoration operations.

D. Complete all stone restoration activities prior to final cleaning of adjacent glass and stainless-steel surfaces.

6. QUESTION: Can you share the photos for the pre-investigation survey?

RESPONSE: The Exterior Stone Panel Destructive Testing Report will be posted with this addendum.

7. QUESTION: For Alternate #3, can the existing soil in planter C be stored on the existing deck and soil in planter D be stored on the existing sidewalk.

RESPONSE: The plaza deck has a radiant heating system. No additional weight can be placed on it. It is acceptable to store soil on the existing sidewalk. Area must be restored to original condition at the end of construction. Use plywood to protect the sidewalk and tarp over the soil for protection.

8. QUESTION: For Alternate # 3 can the existing soils and plants be stored on the north side of planter C.

RESPONSE: The plaza deck has a radiant heating system. No additional weight can be placed on it.

9. QUESTION: Is there existing waterproofing on the concrete in planter C and planter D or is it just a cementitious coating.

RESPONSE: Planters C and D do not have any existing waterproofing. They do have a cementitious coating.

10. QUESTION: Can we get access to the roof for viewing?

RESPONSE: The roof will be undergoing construction throughout 2027 and 2028. No access will be provided.

11. QUESTION: Is there power on the roof and at grade?

RESPONSE: Power is available at grade. Power from the roof is available from the penthouses.

12. QUESTION: How are the existing stone panels mounted? Can as-built drawings be provided to show the mounting/pinning details of the stone façade panels?

RESPONSE: The Exterior Stone Panel Destructive Testing Report will be posted with this addendum. As built drawings from the original plans will also be posted.

13. QUESTION: The roof was not accessed during the prebid walk-thru. Can photos of the roof and a roof plan be provided.

RESPONSE: Existing roof drawings will be included in this addendum. PLEASE NOTE: The existing roof was recently replaced. Mounting a swing-stage on the roof is not acceptable.

14. QUESTION: Does Allowance #2 (sealant replacement) include the sealant replacement for the base bid scope only (41,000 LF)?

RESPONSE: Allowance #2 will apply to all base bid and the alternates. It should be carried in the base bid.

15. QUESTION: Please confirm that all sealant replacement as indicated on the drawings is covered by Allowance #2.

RESPONSE: Please refer to Section 012100 – Allowances, Paragraph 3.3 and delete subparagraph B. Allowance No. 2.

16. QUESTION: Is Allowance #1 to be carried in the Base Bid or in Alternate #3 (planters)?

RESPONSE: Allowance #1 is to be carried in Alternate #3. Please refer to the Allowances paragraph in the Proposal.

17. QUESTION: What is the intended schedule or completion date for the project? Will the schedule be extended if the alternates are accepted.

RESPONSE: Construction will begin at the start of the 2027 Exterior Construction Season and continue to the end of the 2028 Exterior Construction Season.

a. Base Bid Construction to be finished in 2027.
b. Alternates 1 and 2(if selected) to start and finish in 2028.
c. Alternates 3 and 4 (if selected) to start and finish in 2027 -2028.

REVISIONS TO THE DRAWINGS:

1. Refer to Dwgs. G002 and G003 and delete all instances of the phrase "assume pcbs for now" in the notes.

2. Revised ELEVATION GENERAL NOTE #5 on sheets A300, A301, A302, A303, A304, and A305 to read as follows:
   CLEAN ALL EXTERIOR BUILDING SURFACES WITHIN THE LIMITS OF THE BASE BID AND APPLICABLE ALTERNATE WORK AREAS, INCLUDING STONE FACADES, SOFFITS, STAINLESS STEEL TRIM, METAL DOORS AND FRAMES, OVERHEAD COILING DOORS, EXTERIOR FENESTRATION SYSTEMS (INCLUDING CURTAIN WALLS, STOREFRONTS, WINDOWS, ENTRANCE DOORS, FRAMES, AND GLAZING), AND ALL OTHER EXPOSED EXTERIOR COMPONENTS. CLEANING LIMITS SHALL CORRESPOND TO THE WORK AREAS IDENTIFIED FOR THE BASE SCOPE OF WORK AND EACH APPLICABLE ALTERNATE. REFER TO SPECIFICATIONS FOR CLEANING REQUIREMENTS AND APPROVED METHODS FOR EACH SURFACE TYPE. COMPLY WITH NATIONAL PARK SERVICE PRESERVATION BRIEFS 1 AND 6 WITH SUPPLEMENTAL GUIDANCE FROM PRESERVATION BRIEF 13 WHERE APPLICABLE.

3. Drawings HM301-HM306 – Replace with attached revised Drawings HM301 to HM306.

REVISIONS TO THE PROJECT MANUAL:

1. Specification Section 000115 – List of Drawing Sheets
   Replace with attached Section 000115

2. Specification Section 003126 – Existing Hazardous Material Information
   Refer to paragraph 1.1 E sub-paragraph 4 and replace the words "Section 028400" with "Section 028700"

3. Specification Section 015639 – Temporary Tree and Plant Protection
   Replace all references to Divisions 30 – 32 with "refer to Drawings A304 and A802"

4. Specification Section 017300 – Execution
   Refer to paragraph 1.4 and add the following subparagraph:
   C. Scaffolding Plan: Submit plan for supporting work occurring above grade. Provide attachment points, details and forces applied to attachment points. Plans must be stamped by a licensed engineer. Do not begin installation until plan has been reviewed by Architect

5. Specification Section 028213 – Asbestos Removal
   Replace with attached Section 028213

6. Specification Section 027800 – Containing Caulk and Sealant Removal
   Replace with attached Section 028700.

7. Delete Section 040100-Maintenance of Masonry and replace with attached Section 040140 – Maintenance of Stone Masonry

8. Specification 076200 – Sheet Metal Flashing and Trim
   Delete paragraph 2.2 B and replace with the following:
   Stainless Steel: ASTM A666/A666M, Type 304 Alloy, soft temper, 26 gauge, 0.0187 inch thick; smooth No. 4 – Brushed Finish.

9. Specification 012300 – Alternates
   Replace with attached Section 012300.

10. Bid Proposal – General Construction
    See attached for updated Bid Proposal sheets.

END OF ADDENDUM NO. 1



Buffalo and Erie County Public Library

Exterior Stone Panel Destructive Testing Report

July 16th, 2026

CPL
ARCHITECTURE
ENGINEERING
PLANNING
CPLteam.com

July 16th, 2026

Re: Project Assignment A – Exterior Marble Panel Stabilization | Pre-Design

Dear Ms. Amanda Aponte,

The following documentation supplements CPL's Pre-Design Report dated April 14, 2026, prepared for the Buffalo & Erie County Public Library regarding the repair and stabilization of the building's exterior envelope.

This report summarizes the findings and recommendations resulting from destructive testing performed by R.E. Kelley at five locations, as agreed upon by the County, the Mason, and the A/E team. The purpose of the investigation was to further evaluate the structural integrity of the exterior envelope, identify sources of water infiltration, and assess conditions contributing to deterioration, movement, or damage of the exterior stone wall panels and stone ceiling system.

Hazardous materials sampling, destructive testing, and temporary restoration of the investigation locations were completed during the week of July 13–19, 2026. The findings documented herein are intended to assist the County in determining the appropriate scope of work to advance into the design and construction phases of the project.

Following the County's review of this report and confirmation of the project scope, the A/E team will incorporate the selected recommendations into the construction documents and proceed with the 75% Design Submission, followed by the 100% Bid Documents. The current project schedule anticipates completing the bid documents and advertising the project for bidding in mid- to late September 2026.

Please contact CPL with any questions or comments regarding the contents of this report.

Very truly yours,

Paul Dudkowski

Paul Dudkowski, AIA
Senior Project Manager
CPL

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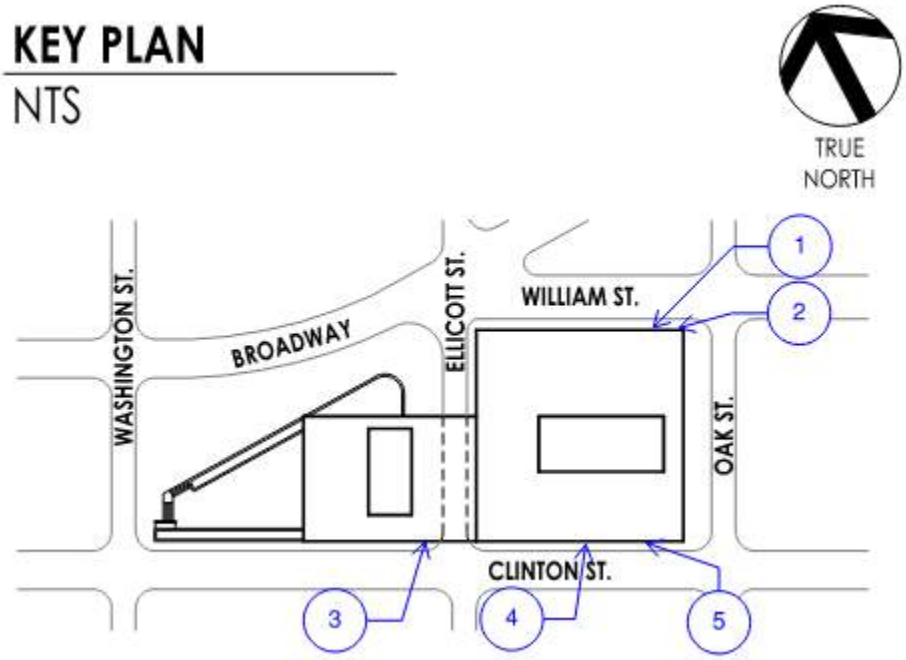
EXECUTIVE SUMMARY: DESTRUCTIVE TESTING





SAMPLE LOCATION LEGEND :

1 Test 1: White Marble at 1st Floor Level
2 Test 2: White Marble at 2nd Floor Level
3 Test 3: White Marble at Underpass
4 Test 4: Red Granite
5 Test 5: Black Granite

EXECUTIVE SUMMARY

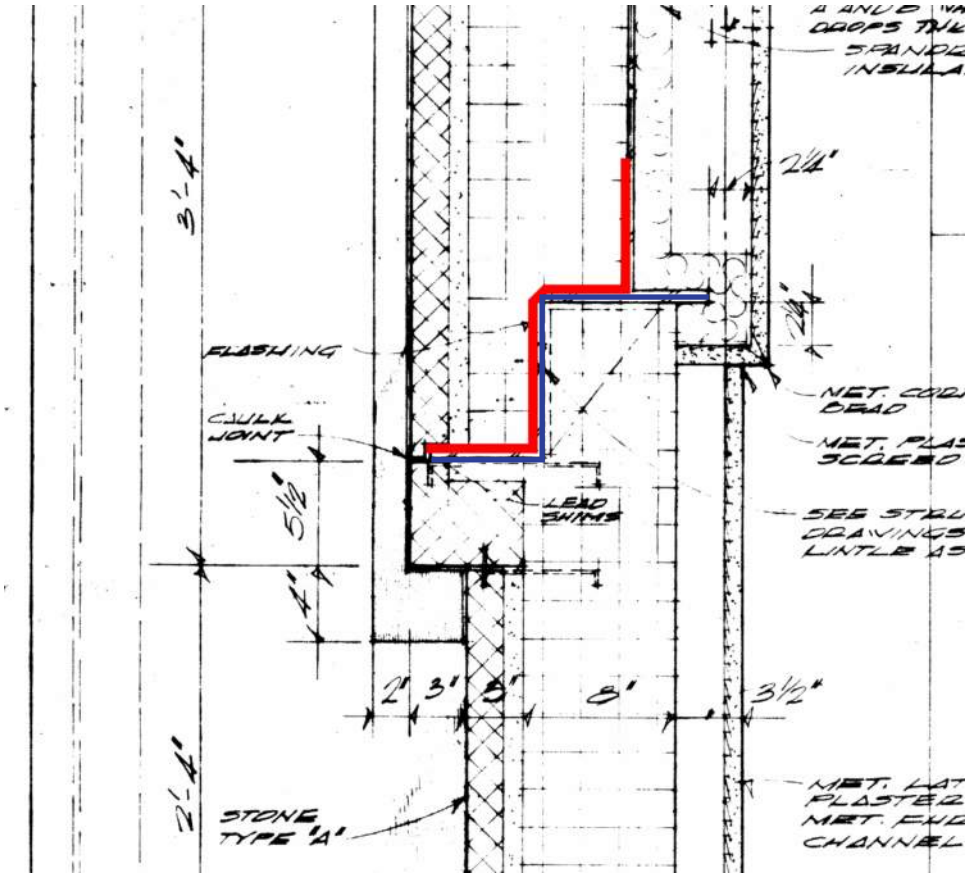
This report documents the findings of the destructive testing program completed to further evaluate the existing conditions of the Buffalo & Erie County Public Library's exterior envelope and to support refinement of the project's scope of work. The investigation builds upon the April 14, 2026 Pre-Design Report by providing additional information regarding the condition of the stone anchorage systems, supporting substrates, waterproofing, and other concealed building components.

The County's planned exterior rehabilitation includes replacement of the building's exterior sealants, repair or replacement of loose and deteriorated stone panels, and cleaning of all street-visible exterior envelope surfaces. Since the building's last comprehensive exterior rehabilitation was completed in 2003, this investigation provides valuable information to confirm existing conditions and guide the design of the proposed repairs.

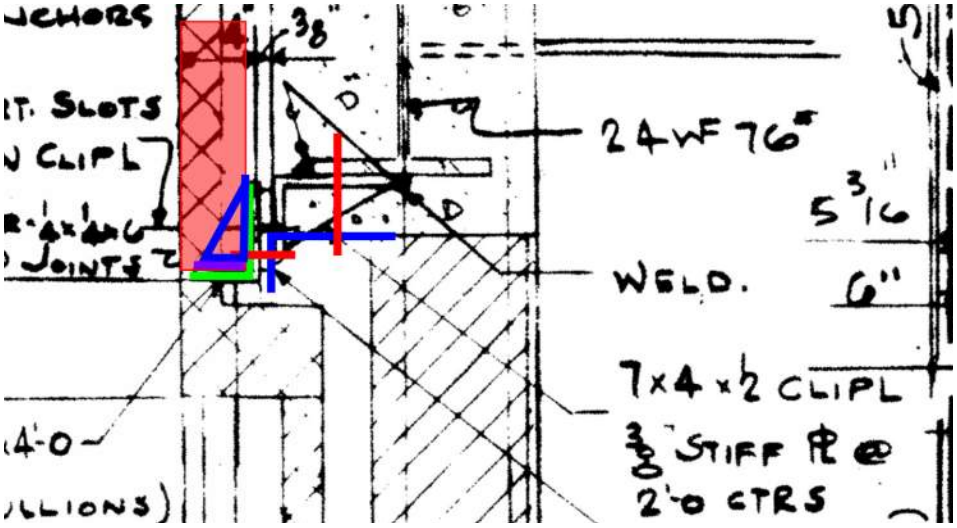
Destructive testing was performed at five representative locations encompassing the building's white marble, red granite, and black granite assemblies. Concurrently, Watts A&E completed supplemental hazardous materials sampling to better define the extent of PCB-containing materials and support accurate contract documents, hazardous waste management, and worker safety during construction.

The observations and recommendations presented in this report are intended to assist the County in finalizing the project scope before completion of the 75% and Bid Document submissions.

TEST 1: WHITE MARBLE AT 1ST FLOOR LEVEL



Original construction detail showing structural steel lintel location (highlighted in blue), and potentially compromised flashing at shelf (highlighted in red).



Original construction detail showing structural steel beam with angle clips supporting a continuous angle shelf to support the stone panels. The angle's structural integrity may be compromised in areas due to waterinfiltration and oxidation.

The markups suggest adding steel and stiffeners to help reinforce the otherwise compromised stone shelf.

TEST 1: WHITE MARBLE AT 1ST FLOOR LEVEL

General Testing Sample Information

Facade: North along William Street
Level: 1st Floor Level
Stone: White Marble
Detail: Base Banding Panel and Bottom Row Panel

Findings - White Marble Banding and Base Wall Panels

White Marble Banding

The white marble banding remains securely anchored; however, oxidation of the supporting steel angle above, combined with repeated moisture infiltration and freeze-thaw cycles, has caused rust jacking that is displacing the banding out of plane, rotating the stone, and producing localized cracking at the anchor locations. While distress is evident, cracking is generally limited to one or both anchor locations, and no banding sections exhibit damage requiring full replacement.

Bottom Row of Full-Height White Marble Panels

The same deterioration mechanism affecting the banding is also impacting the bottom row of full-height white marble panels. Moisture infiltration at the steel angle and lower ferrous dovetail anchors has resulted in oxidation and rust jacking, causing the lower portion of the panels to shift, crack, and displace outward. Damage ranges from isolated corner fractures adjacent to anchor locations to multiple cracks extending across the lower edge of certain panels.

Despite this localized deterioration, the overall panel system remains structurally stable and securely restrained by multiple redundant anchorage mechanisms. The observed distress is localized and does not indicate a global anchorage failure. Hazardous materials investigations identified ACM-containing asphaltic flashing, ACM-containing tar-coated copper through-wall flashing, and PCB-containing white sealant at the East Building (approximately 8,200 LF / 680 SF). Low PCB concentrations were also identified at the West Building, and additional investigation may be warranted to determine the full extent.



Image of cracking at banding and bottom row at the steel support shelf at the 1st floor.



Image of cracking at banding and bottom row at the steel support shelf at the 1st floor.



Image of dutchman patch at area of removal. Please note a better stone match will be identified by contractor for project.



Image of steel shelf angle deteriorated from oxididization due to water infiltration.



Image of clip attached to the beam above that supports the steel shelf angle to the left of side of the image.



Image of ACM membrane flashing on copper flashing that terminates at top of the steel shelf angle rather than extending beyond the end of the angle.

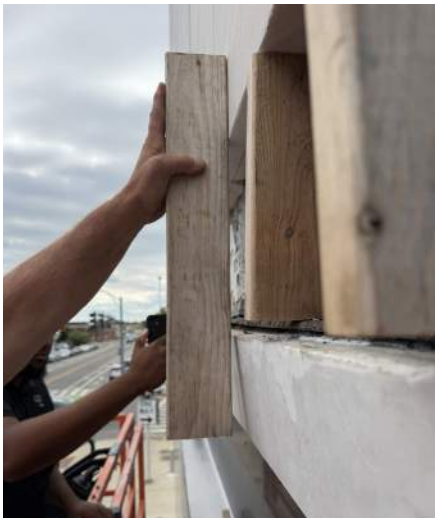


Image showing the extent the banding stone has rotated due to the rust jacking.



Image of the deterioration to the steel shelf angle from oxididization due to water infiltration.

TEST 1: WHITE MARBLE AT 1ST FLOOR LEVEL

General Testing Sample Information

Facade: North along William Street
Level: 1st Floor Level
Stone: White Marble
Detail: Base Banding Panel and Bottom Row Panel

Recommendations – White Marble Banding and Base Wall Panels

White Marble Banding

The existing banding should remain in place. Localized epoxy and pinning repairs should be performed at cracked anchor locations to prevent the banding from separating. Full replacement of the banding is not recommended.

Bottom Row of Full-Height White Marble Panels

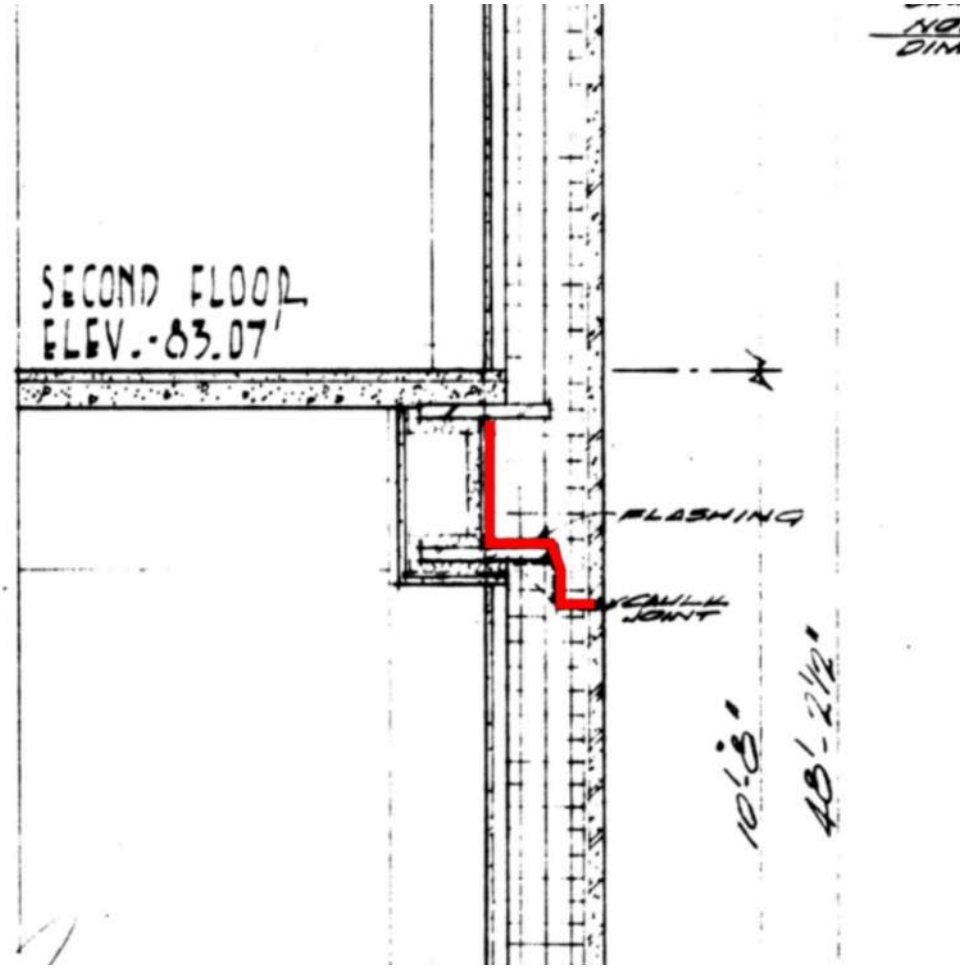
Where deterioration is limited to isolated anchor locations, remove the existing ferrous dovetail anchor, replace it with a stainless steel anchor, and complete a localized dutchman repair using matching marble, epoxied and pinned into place.

Where several or a majority of panels within a continuous section exhibit deterioration, remove approximately the bottom 10 inches across the full width of each affected panel. Replace both lower ferrous dovetail anchors with stainless steel anchors and install a full-width dutchman repair using matching marble. Because this repair introduces a new horizontal joint into a historic stone panel, the repair approach should be reviewed and approved by SHPO prior to implementation.

While the lower portion of the panels is removed:

- Retain the existing structural steel. Remove rust and scale, apply a rust-inhibitive coating, and reinforce the steel, where required by the structural engineer, with welded flat stock and vertical web stiffeners at stone panel joints.
- Remove and replace ACM-containing flashing where disturbed by the work.
Install new through-wall flashing securely fastened to the masonry substrate and extending beyond the supporting steel angle to direct water away from the structure. The existing flashing terminates on the steel angle, allowing water to collect on the steel and potentially migrate beneath the flashing into the building.
- Remove and replace PCB-containing white sealant in accordance with applicable hazardous material regulations. Additional testing of the West Building sealant should be considered to define the full extent of PCB-containing material.
- Provide discreet weeps at the base of the stone system to facilitate early detection of moisture infiltration and reduce the potential for concealed deterioration.

TEST 2: WHITE MARBLE AT 2ND FLOOR LEVEL



Original construction detail showing structural steel location (circled in blue). Please note flashing was note observed at second floor as shown in this detail (highlighted in red).

TEST 2: WHITE MARBLE AT 2ND FLOOR LEVEL

General Testing Sample Information

Facade: North along William Street
Level: 2nd Floor Level
Stone: White Marble
Detail: Field Panel at Corner

Findings – White Marble Wall Panels

The existing sealant, installed circa 2003, remains in good condition with no significant deterioration, deformation, or loss of adhesion. Its long-term performance indicates the marble panels have remained stable with no evidence of differential movement, confirming the anchorage system continues to adequately support the façade.

Inspection of the panel anchorage revealed routed grooves at the top and bottom of the panel accommodating two ferrous dovetail anchors at the top and two at the bottom. One lower ferrous dovetail anchor exhibited oxidation due to moisture infiltration behind the stone. The resulting rust jacking has caused localized cracking of the marble adjacent to the anchor, creating the potential for a stone fragment to become dislodged and present a localized life safety concern.

Despite this localized deterioration, the overall panel system remains stable. The panels continue to be restrained by multiple redundant attachment mechanisms, including grout bedding, top and bottom dovetail anchors, intermediate dovetail anchors providing horizontal restraint, and stainless steel pin connections between adjacent panels. No flashing or exposed structural steel was observed at the investigation location.

Recommendations – White Marble Wall Panels

Where cracking is limited to the corner surrounding a single anchor pocket, remove the existing ferrous dovetail anchor and replace it with a stainless steel anchor secured to the masonry substrate. Repair the damaged stone with a dutchman repair using matching marble, color, veining, finish, and profile, epoxied and pinned into place to eliminate the potential for stone fragments becoming dislodged.

Where multiple cracks extend along the bottom edge of a panel, localized dutchman repairs are not recommended. Instead, remove approximately the bottom 10 inches across the full width of the panel, replace both lower ferrous dovetail anchors with stainless steel anchors, and install a full-width dutchman repair using matching marble. This approach provides a more durable repair while preserving the majority of the original panel.



Image of piece removed that could have become dislodged.



Image of oxidized steel anchor causing rust jacking.



Image of steel shelf angle showing mild oxidization.



Image of oxidized steel anchor causing rust jacking.

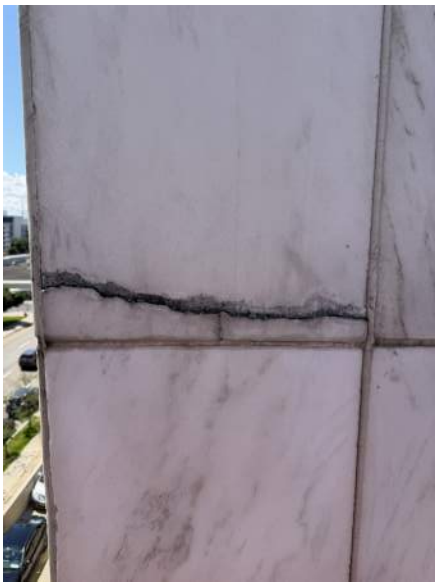


Image of crack at anchors from rust jacking. Concern of pieces becoming dislodged. This is an example where a dutchman repair across the full width of the panel is recommended.



Image of crack at anchors from rust jacking. Concern of pieces becoming dislodged. This is an example where a localized dutchman repair is recommended.

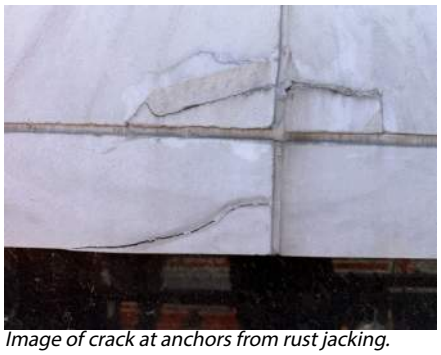


Image of crack at anchors from rust jacking. Concern of pieces becoming dislodged. This is an example where multiple localized dutchman repair is recommended.

TEST 3: STONE PANELS AT UNDERPASS



Image of adjacent panels out of plane with one another.



Image of adjacent panels out of plane with one another.

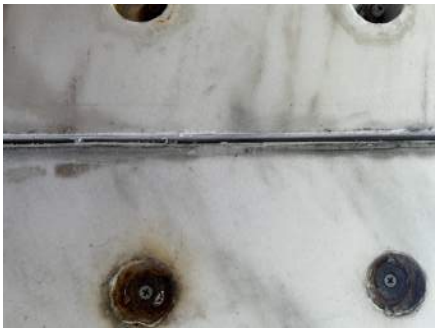


Image of anchors showing mild signs of oxidation, and marble plugs missing.



Image of four suspended rods that secure the panel that was removed.



Image of structural steel clip secured to structural steel above.



Image of structural steel clip secured to concrete above.

TEST 3: STONE PANELS AT UNDERPASS

General Testing Sample Information

Facade: South along Clinton Street
Level: 1st Floor Level
Stone: White Marble
Detail: Base Banding Panel and Bottom Row Panel

Finding(s) - Suspended Stone Ceiling Panels:
The suspended stone ceiling system consists of white marble panels located along the south edge adjacent to Clinton Street and black granite panels located along the north edge adjacent to William Street.

The suspended stone ceiling system consists of white marble panels located along the south edge adjacent to Clinton Street and black granite panels located along the north edge adjacent to William Street. The panel removed during destructive testing was found to be adequately supported in accordance with the original design. The panel is suspended from painted ferrous steel clips attached to the structural concrete beams above, with threaded rods secured to the clips using double-nut connections. Each panel is supported at four locations by threaded rods passing through the stone and secured with a screw, washer, and nut assembly. The connection points were originally concealed with stone plugs matching the panel material; however, many of these plugs are missing. Overall, the exposed hardware was found to be in good condition, with only minor surface oxidation observed on some ferrous components.

Existing sealant, installed circa 2003, remains in generally good condition with no evidence of ACM or PCBs (per Watts report dated July 2026). Although still serviceable, it has reached its expected service life and should be replaced as part of this project to maintain a watertight building envelope and reduce the potential for future water infiltration.

Recommendation(s) – Suspended Stone Ceiling Panels:
Based on the destructive testing, the investigated panel was found to be securely supported, and the remaining suspended stone ceiling panels of similar construction appear to be in good visual condition. Minor misalignment between adjacent panels appears to be the result of original installation tolerances rather than ongoing movement. At this time, the suspended stone ceiling system does not present a life safety concern.

It is recommended that new stone plugs, matching the existing stone, be installed to conceal the exposed panel anchorage hardware. Prior to installation of the new plugs, the Owner may wish to replace the exposed ferrous hardware with non-ferrous components. This work can be completed without removing the stone panels and should be performed before installation of the new sealant to accommodate any minor movement that may occur during hardware replacement.

It is further recommended that discreet weeps be incorporated into the suspended stone ceiling system to provide a means of identifying future water infiltration. In addition, the weeps will promote limited airflow within the cavity, allowing incidental moisture that collects above the stone panels to drain, evaporate, and dry more readily, thereby reducing the potential for prolonged moisture accumulation and related deterioration.



Image of panel removed looking towards column.



Image of area of panel removal towards adjacent field panel.



Image of structural steel clip secured to structural steel above.



Image of structural steel clip secured to concrete above.

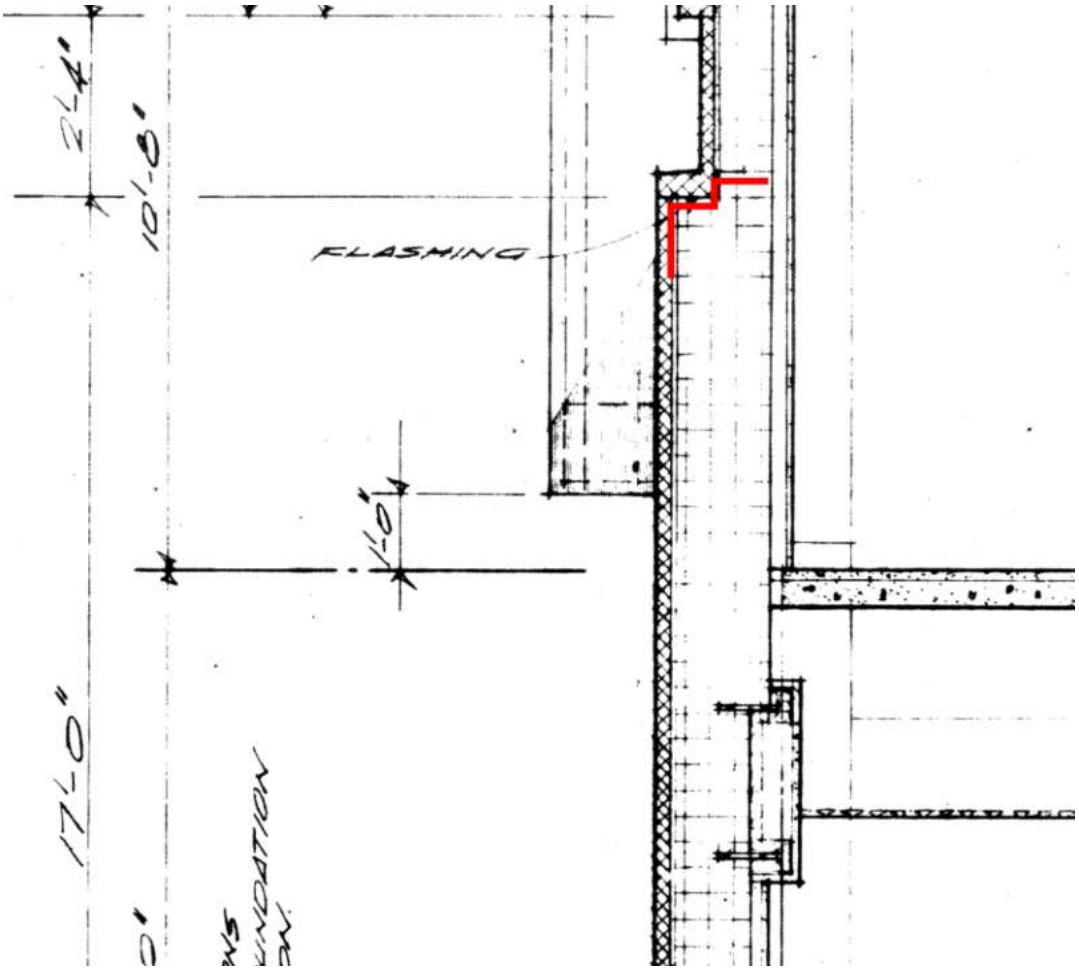


Image of structural steel clip secured to concrete above.



Image of threaded rods showing little evidence of wear and tear.

TEST 4: RED GRANITE



Original construction detail showing structural steel location (circled in blue), and potentially compromised flashing near first floor (highlighted in red).

TEST 4: RED GRANITE

General Testing Sample Information

Facade: South along Clinton Street
Level: 1st Floor Level
Stone: Red Granite
Detail: 2nd row above sidewalk

Findings – Red Granite Wall Panels (Excludes Planter Panels)

The findings in this section apply only to the red granite wall panels. Red granite planter panels are discussed separately.

The existing black sealant, installed circa 2003, remains in good condition with no significant deterioration, deformation, or loss of adhesion. Its long-term performance indicates the panels have remained stable with no evidence of differential movement. Watts A&E confirmed the black sealant contains PCBs and must be managed as hazardous waste during removal. Approximately 10,500 LF (875 SF) of PCB-containing sealant was identified throughout the Library.

Destructive testing confirmed each panel is supported by two dovetail anchors at the top and two at the bottom, seated within routed anchor slots in the stone. Intermediate dovetail anchors provide horizontal restraint near the lower third of the panels, while stainless-steel pin connections near the upper third tie adjacent panels together. All exposed anchors and hardware were in good condition with no significant corrosion or evidence of structural deterioration.

At the investigation location, one anchor slot at the back of the panel had been filled with grout where a portion of the stone had been omitted during the original installation. Combined with oversized pin holes that allowed slight movement during installation, this indicates the observed panel misalignment is an original construction condition rather than the result of structural movement or water infiltration. The panel system remains securely restrained by multiple redundant anchorage mechanisms and does not exhibit signs of global instability or an increased risk of panel dislodgement.

No flashing or exposed structural steel was observed at the investigation location.



Image of full panel removal.



Image of dove tail anchor at the top of the panel in good condition.



Image of pin at the top third of the panel.

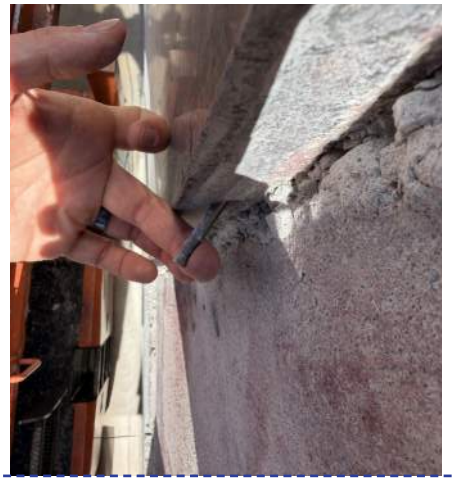


Image showing how the oversized hole for the small pin would allow for the panel to pull away from the wall while it was set in place with mortar.



Image of the back of the panel showing the mortar that is in place of where the stone should be to accept the anchor this allowing panel to shift while being set.



Image of panel removed.

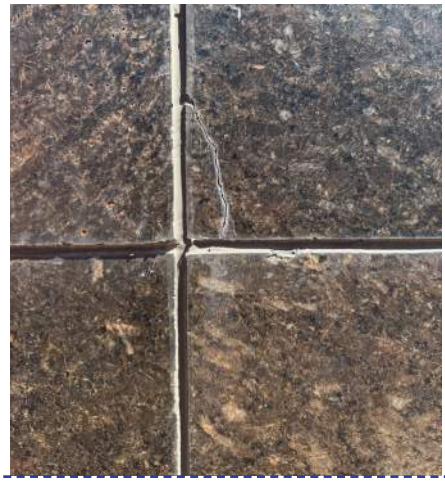


Image of cracked piece that could become dislodged and is recommended to be epoxied back in place.

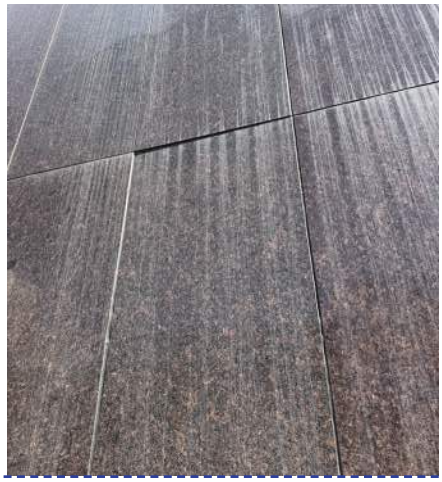


Image of panels being out of plane due to original installation and construction tolerances rather than panels shifting.



Image of undistrurbed sealant showing no sign of movement after 20+ years.

TEST 4: RED GRANITE - CONTINUED

General Testing Sample Information

Facade: South along Clinton Street
Level: 1st Floor Level
Stone: Red Granite
Detail: 2nd row above sidewalk

Recommendations – Red Granite Wall Panels

The investigated panel was found to be securely anchored, and the remaining granite wall panels of similar construction appear to be in good visual condition. Minor offsets between adjacent panels are consistent with original installation tolerances and do not indicate ongoing movement. At this time, the granite wall panel system does not present a life safety concern.

Panels exhibiting less than approximately 1/2 inch of out-of-plane displacement relative to adjacent panels should remain in place, as these conditions appear to be original to the construction and do not adversely affect the anchorage system.

Remove and replace all existing PCB-containing sealant in accordance with applicable hazardous waste regulations to restore the weather-tightness of the exterior envelope.

Full panel removal and resetting is not recommended solely because a panel is out of plane or contains stable full-width cracks. However, localized corner fractures or cracks that could allow stone fragments to become dislodged should be epoxy repaired to eliminate potential falling hazards and prevent water infiltration that could lead to future deterioration.

It is further recommended that discreet weeps be incorporated at the base of the stone system to provide an early indication of future water infiltration. Because this is a fully grouted stone-on-masonry/concrete substrate system rather than a drained cavity wall, the weeps are not intended to drain the weather-resistive barrier. Instead, they will facilitate early detection, and reduce the potential for concealed deterioration.

TEST 5: BLACK GRANITE



Image of crack in stone. Crack is not a concern. Filling the crack may make it more visible.



Image of stone at window sill.



Image of panel and flashing.



Image of panel at stainless steel trim.



Image of black granite meeting red granite. Vertical, horizontal and skyward facing sealants all in good condition.



Image of black granite meeting red granite. Vertical, horizontal and skyward facing sealants all in good condition.

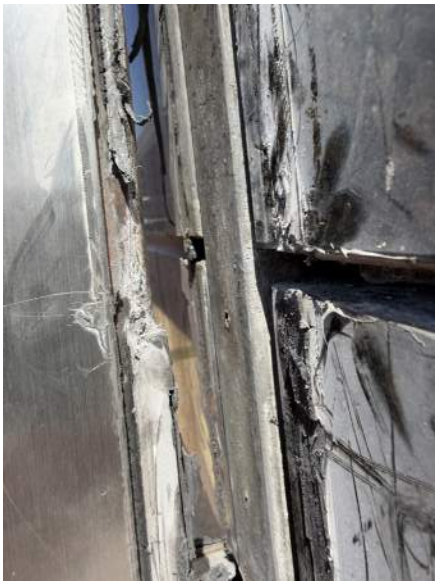


Image of stainless steel trim concealed anchor connection.

TEST 5: BLACK GRANITE

General Testing Sample Information

Facade: South along William Street
Level: 1st Floor Level
Stone: Black Granite
Detail: Panel Below Punched Window

Findings – Black Granite Wall Panels

The investigated panel was found to be securely anchored, and the remaining black granite wall panels of similar construction appear to be in good visual condition. Minor offsets between adjacent panels are consistent with original installation tolerances and do not indicate ongoing movement. At this time, the black granite wall panel system does not present a life safety concern.

The existing ferrous anchorage system was found to be in good condition with no evidence of significant corrosion or structural compromise. The investigated panel contained a full-width horizontal hairline crack; however, the crack was determined to be stable. During destructive testing, suction cups were used to apply in excess of 600 pounds of outward force in an attempt to remove the panel. Despite the existing crack, the panel remained securely anchored, demonstrating that the redundant anchorage system continues to perform as intended and that the crack does not indicate an increased risk of panel dislodgement.

The existing black sealant, installed circa 2003, remains in generally good physical condition. Per the July 2026 Watts A&E investigation, the black sealant associated with the black granite panels contains PCBs throughout both the East and West Buildings. Approximately 21,600 LF (1,800 SF) of PCB-containing sealant was identified across the Library.

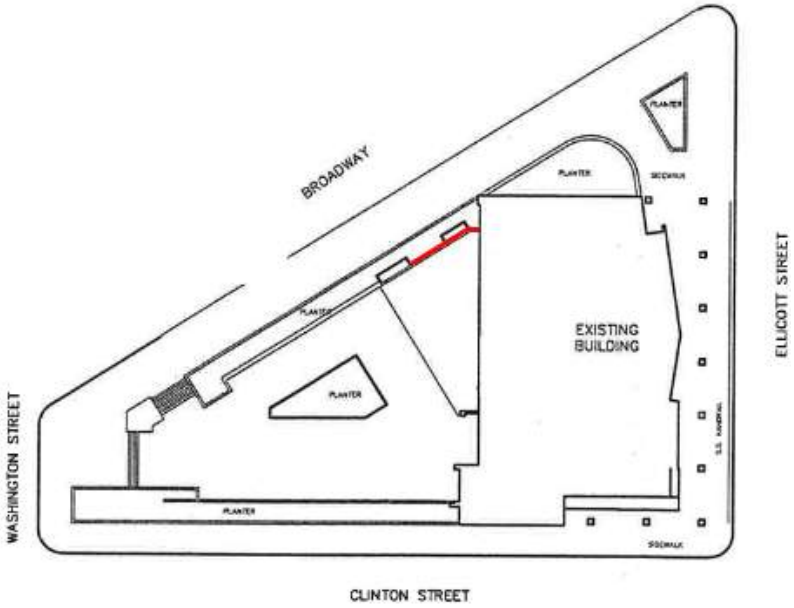
Recommendations – Black Granite Wall Panels

Remove and replace the existing PCB-containing sealant in accordance with applicable hazardous material regulations. Although the sealant remains in good condition, it has exceeded its expected service life and should be replaced to maintain a watertight building envelope.

Full panel removal and resetting is not recommended solely because a panel is out of plane or contains a stable full-width crack. However, localized corner fractures or cracks that could allow stone fragments to become dislodged should be epoxy repaired to eliminate potential falling hazards and prevent water infiltration that could lead to future deterioration.

Provide discreet weeps at the base of the stone system to provide an early indication of future water infiltration. Because this is a fully grouted stone-on-masonry/concrete substrate system rather than a drained cavity wall, the weeps are not intended to drain the weather-resistive barrier. Instead, they will facilitate early detection of moisture infiltration and reduce the potential for concealed deterioration.

OTHER SITE FINDINGS & RECOMMENDATIONS



Site Plan Above: Approximate location of damaged flashing highlighted in red.



Image Above: Compromised flashing at planter walls



Image above from Watts Hazardous report: Closeup view of a window system. Window frame caulk (red arrow), window glazing caulk (yellow arrow) and caulk between window frames and sashes (purple arrow) are all PCB-containing.



Image above shows black sealant at planter stone.

OTHER SITE FINDINGS & RECOMMENDATIONS

PLANTER FLASHING:

FINDINGS PER REPORT DATED 4/14/26

Displaced and compromised flashing was observed beneath the red granite stone panels at the north planter.

RECOMMENDATIONS PER REPORT DATED 4/14/26

Remove the existing flashing, clean and prepare the substrate, and install new flashing to match adjacent materials and ensure proper waterproofing continuity.

REVISED RECOMMENDATIONS PER THIS REPORT

After reviewing this location with R.E. Kelley during the site visit, it was determined that this work was completed by R.E. Kelley approximately four to five years ago. The existing sheet membrane remains intact and is performing as intended. The metal flashing is decorative in nature and serves as a protective kick guard for the sheet membrane. At this location, the flashing has become detached and only requires reattachment to restore its intended function.

BLACK SEALANT AT PLANTERS:

FINDINGS:
The existing black sealant at the plaza-level retaining walls and planters, installed circa 2003, remains in good condition with no significant deterioration or loss of adhesion. Per the April 14, 2026 report and confirmed by the July 2026 Watts A&E investigation, the sealant contains both ACM and PCBs. Approximately 800 LF (67 SF) of hazardous sealant was identified. The material is non-friable.

RECOMMENDATIONS:
Remove and dispose of the existing ACM- and PCB-containing sealant in accordance with applicable regulations and replace it with new sealant. Although the existing sealant remains in good condition, it has exceeded its expected service life and should be replaced to maintain a watertight system and prevent future water infiltration.

GRAY SEALANT AT WINDOWS:

FINDINGS:
The existing gray window sealant, installed circa 2003, remains in good condition with no significant deterioration or loss of adhesion. Per the April 14, 2026 report and confirmed by the July 2026 Watts A&E investigation, the gray sealant at window frames, window sashes, and glazing contains PCBs throughout the Library. Approximately 26,000 LF (2,200 SF) of PCB-containing sealant was identified.

RECOMMENDATIONS:
Remove and dispose of the existing PCB-containing sealant in accordance with applicable regulations and replace it with new sealant. Although the existing sealant remains in good condition, it has exceeded its expected service life and should be replaced to maintain a watertight building envelope and reduce the potential for future water infiltration.

APPENDIX A: AXONOMETRIC DIAGRAMS

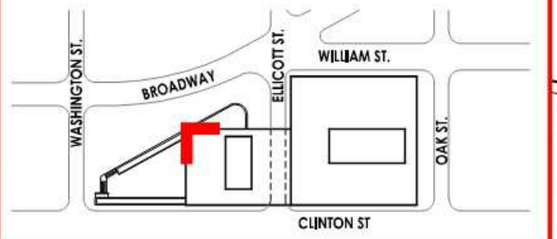
crack(s) at bottom of field panel

crack(s) at banding panel

recommended dutchman repair area to replace flashing and repair steel

KEY PLAN
NTS

TRUE NORTH



Northwest corner - West Building

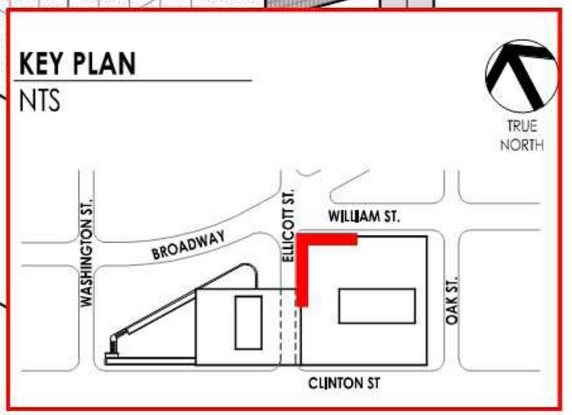
crack(s) at bottom of field panel

crack(s) at banding panel

recommended dutchman repair area to replace flashing and repair steel

KEY PLAN

NTS



Northwest corner - East Building

crack(s) at bottom of field panel

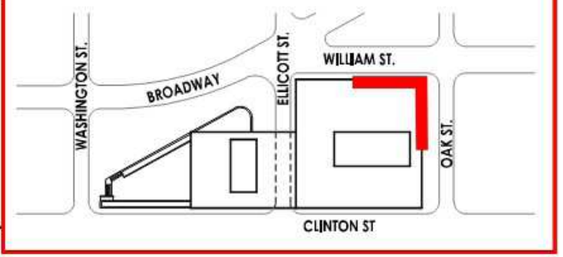
crack(s) at banding panel

recommended dutchman repair area to replace flashing and repair steel

KEY PLAN

NTS

TRUE NORTH



Northeast corner - East Building

crack(s) at bottom of field panel

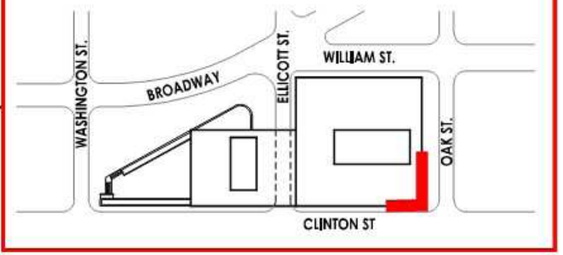
crack(s) at banding panel

recommended dutchman repair area to replace flashing and repair steel

KEY PLAN

NTS

TRUE NORTH



Southeast corner - East Building

crack(s) at bottom of field panel

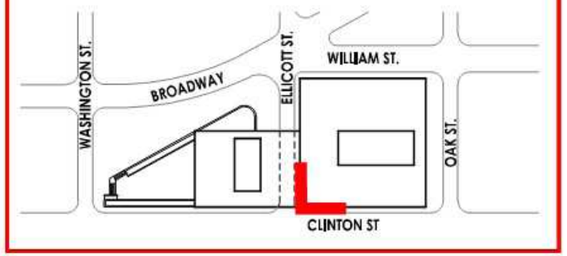
crack(s) at banding panel

recommended dutchman repair area to replace flashing and repair steel

KEY PLAN

NTS

TRUE NORTH



Southwest corner - West Building

APPENDIX B: HAZARDOUS MATERIALS

HAZARDOUS MATERIALS SURVEY

FOR

ASBESTOS-CONTAINING MATERIALS AND POLYCHLORINATED BIPHENYLS IN CAULKS AND SEALANTS

FOR THE

EXTERIOR STONE PANEL AND SEALANT PROJECT

AT

BUFFALO & ERIE COUNTY CENTRAL LIBRARY
1 LAFAYETTE SQUARE
BUFFALO, NEW YORK



JULY 2026

PREPARED FOR:

CPL
726 Exchange Street, Suite 920
Buffalo, New York 14210

FOR SUBMISSION TO:

Buffalo & Erie County Public Library
1 Lafayette Square
Buffalo, New York 14203

Watts Architects &Engineers
95 Perry Street
Suite 300
Buffalo, NY 14203

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1.0 – EXECUTIVE SUMMARY

1.0 EXECUTIVE SUMMARY

Watts Architects & Engineers (Watts) was retained by CPL to perform a hazardous materials survey for asbestos-containing materials (ACM) and polychlorinated biphenyls (PCBs) in caulks and sealants at the Buffalo & Erie County Central Library, located at 1 Lafayette Square in Buffalo, New York. The scope of the project includes the replacement of most exterior sealants on the building façade and limited panel replacement.

The Buffalo & Erie County Public Library was constructed in two phases between 1960 and 1964. Materials and sealants on the exterior of the building appear to be homogeneous. However; for sampling purposes, Watts generally treated the East and West Buildings separately to account for the construction phasing.

The field survey work was conducted by Watts on June 16, 2026, and included the following:

- A review of prior testing reports including:
    - "Hazardous Materials Survey for Asbestos-Containing Materials and Polychlorinated Biphenyls In Caulks and Sealants for the Exterior Sealants Project" prepared by Watts Architects & Engineers and issued in November 2025.
    - "Supplemental Asbestos and PCB in Caulk/Sealants Sampling, Auditorium Renovation Project – Exterior Planter" prepared by Watts Architects & Engineers and issued on August 19, 2016.
    - "Survey for Asbestos-Containing Materials and PCBs in Caulk, Repair Retaining Wall and Chimney – Buffalo & Erie County Public Library" prepared by Watts Architects & Engineers and issued on June 4, 2021.
    - "Asbestos-Containing Materials and PCB Caulk/Sealants Pre-Renovation Survey, Stone Panels at the Base of the Flagpole, Broadway and Washington St" prepared by Watts Architects & Engineers and issued on November 21, 2016.
    - "Revised Asbestos and PCB in Caulk/Sealants Letter Report, Exterior Panel Evaluation, Proposed Library Elevator Installation Project" prepared by Watts Architects & Engineers and issued on January 26, 2016.
- A visual site inspection to identify suspect ACM and PCBs that are anticipated to be disturbed by the scope of the project;
- Collection and laboratory analysis of bulk material samples for asbestos and PCBs, as appropriate, that may be disturbed by the project;
- Documentation of asbestos and PCB bulk sample locations on drawings and chain-of-custody forms, and
- Inspection photographs.

ASBESTOS-CONTAINING MATERIALS

The inspection included collection of four (4) bulk samples to represent identified suspect materials that may be disturbed within the proposed project limits. ACM is defined as any material

containing more than one percent (1%) of asbestos. Based on laboratory analysis of bulk samples collected as part of this investigation and previous testing data, **the following ACM have been identified:**

- **Black asphaltic flashing[1]** behind the top edge of marble and granite panels on the building exterior. The flashing was observed behind and along the top edge of the panels and was not observed beneath the entire panel. It is currently unknown if the asphaltic flashing will be disturbed by the project. Flashing is a non-friable material and is assumed to be in good condition.
- **Tar coated copper through wall flashing[1]** behind mortar associated with the marble and granite panels. The tar coated copper through wall flashing was previously observed behind black granite panels at the Ellicott Street bridge but is assumed to be present across the building. It is currently unknown if the tar coated copper through wall flashing will be disturbed by the project. Tar coated copper through wall flashing is a non-friable material and assumed to be in good condition.
- **Black caulk at plaza level panels and planters[1] (material is also PCB-containing).** Asbestos-containing black caulk was previously identified at the West Building plaza level retaining wall seams. The caulk was also observed at plaza level planter seams. Therefore, all black caulk at the plaza level retaining walls and planters shall be treated as asbestos-containing. In total, approximately 800 linear feet or sixty-seven (67) square feet of caulk was observed at the plaza level retaining walls and planters. Caulk is a non-friable material and was observed to be in good condition.

[1] Material was identified to be asbestos-containing as part of previous testing. Applicable laboratory data is included in Section 7.0 of this report.

NON-ASBESTOS-CONTAINING MATERIALS

Based on laboratory analysis of samples collected as part of this inspection and previous testing data, the following materials have been identified to be non-ACM:

- Gray caulk at sidewalk
- Light gray window caulk
- White caulk at white marble panels – West Building[2]
- Black caulk at red granite panels – West Building[2]
- Black caulk at black granite panels – West Building[2]
- White caulk at white marble panels – East Building[2]
- Black caulk at red granite panels – East Building[2]
- Black caulk at black granite panels – East Building[2]
- Light gray/silver caulk at window frames[2]
- Thin set/mortar behind exterior marble panels[2]
- Thin set/mortar behind exterior granite panels[2]
- Mosaic wall tile grout and mudset observed under the Ellicott Street bridge[2]

- Brown fibrous joint filler at panels seams[2]
- Gray caulk between retaining wall panels and sidewalk[2]

[2] Material was previously identified to be non-ACM. Applicable laboratory data is included in Section 7.0 of this report.

POLYCHLORINATED BIPHENYLS

The Environmental Protection Agency (EPA) regulates PCBs and considers any debris generated from construction materials manufactured with PCBs derived from building renovation projects with a concentration of equal to or greater than 50 parts per million (ppm) to be "PCB bulk product waste". The Toxic Substances Control Act (TSCA) regulations (40 CFR Part 761) prescribes requirements for the proper management of PCB materials, including their handling and disposal. PCB bulk product waste at concentrations ≥ 50 ppm must follow specific storage, transport, and disposal requirements.

The following caulk/sealants were observed within the project limits, and have been sampled as part of this investigation or previous investigations, and submitted for laboratory analysis of PCB-content:

- Light gray window caulk – East Building
- Light gray window caulk – West Building
- Gray caulk at sidewalks
- White caulk between white marble panels – West Building
- Black caulk between red granite panels – West Building
- Black caulk between black granite panels – West Building
- White caulk between white marble panels – East Building
- Black caulk between red granite panels – East Building
- Black caulk between black granite panels – East Building
- White caulk between white marble ceiling panels – Ellicott Street library bridge
- Beige caulk between new white marble panels – Elevator shaft at Ellicott Street
- Caulk between white marble panels at elevator shaft (sampled prior to elevator addition project)
- Black caulk between exterior granite panels and at vertical metal mullions, library bridge over Ellicott Street
- Black caulk at planters
- Black caulk at flag poles

The following caulk/sealants were determined to contain PCBs at a concentration greater than the regulatory threshold of 50 ppm, therefore special handling and disposal considerations with respect to PCBs will be required if these will be disturbed by the project:

- **Gray window caulk – Entire Library.** Gray caulk at window frames, window sashes and at window glazing is PCB-containing across the entire library. The caulk was observed in approximately 1" thick beads in each of these areas. Approximately 26,000 linear feet or 2,200 square feet of window caulk was identified across the library.

- **Black caulk associated with black granite panels – Entire Library.** The caulk was determined to be PCB-containing at both the East and West Buildings. Approximately 21,600 linear feet or 1,800 square feet of black caulk associated with black granite panels was identified across the entire library.
- **Black caulk associated with red granite panels and planters – Entire Library.** The caulk was determined to be PCB-containing at both the East and West Buildings and at planters. Approximately 10,500 linear feet or 875 square feet of black caulk associated with red granite panels and planters was identified across the entire library.
- **White caulk associated with white marble panels - East Building only.** The caulk was observed in approximately 1" thick beads. Approximately 8,200 linear feet or 680 square feet of white caulk was identified on the East Building. Low levels of PCBs were identified between the panels of the West Building. Further investigation may be warranted.

Refer to Section 3.0 of this report for additional information on each material that was sampled and analyzed for PCB-content as part of this investigation.

OBSERVATIONS

During the survey, Watts' personnel investigated suspect ACM and PCBs in caulk/sealants that may be disturbed by the Exterior Stone Panel and Sealant project at the Buffalo & Erie County Central Library, located at 1 Lafayette Square in Buffalo, New York.

The Buffalo & Erie County Public Library was constructed in two phases between 1960 and 1964 and consists of an East Building and a West Building, which are connected to each other. Materials appear to be homogeneous across both buildings. Window systems across the Library have three separate sealants all of which are PCB-containing; a sealant at window frames, a sealant at the window glazing, and a sealant where the window sash meets the window frame. Two samples of white caulk associated with white marble panels at the West Building have been submitted for PCB content and both were determined to have concentrations less than the 50 ppm threshold and are therefore considered non-PCB. However, low levels of PCBs were identified in the two white caulk samples and further investigation may be warranted. A licensed abatement contractor will be required for removal of caulks identified to be asbestos-containing and PCB-containing. The previously identified asbestos-containing black caulk at the West Building planter retaining wall is unique to the plaza level and planter area only. There is sufficient data showing that black caulk associated with panels across the building is non-ACM.

During Watts June 16, 2026 field investigation, Watts observed the conditions behind a few stone façade panels that were removed by others for test purposes. The stone panels were adhered with a thick application of mortar and there was no disturbance to the asbestos-containing black asphaltic flashing and tar coated copper through wall flashing that are present behind the mortar.

It is the belief of Watts that this investigation has identified all suspect ACM and PCB-containing caulks and sealants that may be disturbed by the proposed scope of the work as it was defined at the time this report was issued. However, if the scope of the proposed project is expanded, additional field investigation and sampling may be necessary. If additional suspect building materials are to be disturbed that have not been sampled as part of this investigation, or part of a previous investigation, samples of each material should be collected and analyzed for asbestos or PCB-content, as appropriate.

2.0 – ASBESTOS-CONTAINING MATERIALS

2.0 ASBESTOS-CONTAINING MATERIALS

Sampling and Laboratory Methodology

A NYSDOL-certified asbestos inspector from Watts collected bulk samples of all suspect ACM that may be disturbed by the proposed renovation project. Bulk samples were collected using simple hand tools from each matrix identified as a potential ACM.

Samples were delivered with the proper chain-of-custody forms to a New York State-accredited laboratory that is a participant in the Environmental Laboratory Approval Program (ELAP) and National Voluntary Laboratory Approval Program (NVLAP). All materials, except non-friable organically bound (NOB) materials, and cellulose-containing ceiling tiles (CCT) were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.1. In addition, all samples analyzed via 198.1 were examined for the presence of vermiculite. CCTs and NOBs, which include, but are not limited to, roofing materials, mastics, and caulks underwent gravimetric reduction and were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.6. Any CCTs or NOB materials that were found to be negative under PLM were then analyzed by Transmission Electron Microscopy (TEM) using NY ELAP Method 198.4. The New York State Department of Health (NYSDOH) protocol requires analysis by TEM if the PLM analysis does not confirm the presence of asbestos.

Where possible, Watts visually inspected identified ACMs to assess their condition. The condition of ACMs are classified as good, fair, or poor. The requirement for each designation is as follows:

Good: Material with no visible damage or deterioration or showing very limited damage or deterioration.

Fair: The surface of the material is crumbling, blistering, water-stained, gouged, punctured, or otherwise damaged with the damage covering less than one tenth of the surface if the damage is evenly distributed or up to 25% of the material if the damage is localized.

Poor: The surface of the material is crumbling, blistering, water-stained, gouged, punctured, or otherwise damaged with the damage covering more than one tenth of the surface if the damage is evenly distributed or more than 25% of the material if the damage is localized. Material with large areas hanging from the substrate, delaminated, heavily gouged, crushed, etc.

The following sections include information on all suspect ACM sampled and contain the following: a Homogeneous Materials List containing all suspect homogeneous materials identified, bulk sample location descriptions, corresponding bulk sample numbers, and whether or not they are ACM, drawings identifying the approximate locations of asbestos bulk samples, and asbestos laboratory reports and associated chain-of custody forms.

HOMOGENEOUS MATERIALS LIST
EXTERIOR STONE PANEL AND SEALANT PROJECT
BUFFALO & ERIE COUNTY CENTRAL LIBRARY
BUFFALO, NEW YORK

Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)		ACM
				PLM	TEM	Y/N
Gray Caulk at Stone Sidewalk	West Building Main Entrance	M	260370-01	NAD	NAD	N
			260370-02	NAD	NAD	
Light Gray Window Caulk	East Building, Clinton & Ellicott, Window Frame	M	260370-03	NAD	NAD	N
	East Building, William & Oak, Glazing		260370-04	NAD	NAD	

Results Abbreviations

NAD = No asbestos detected

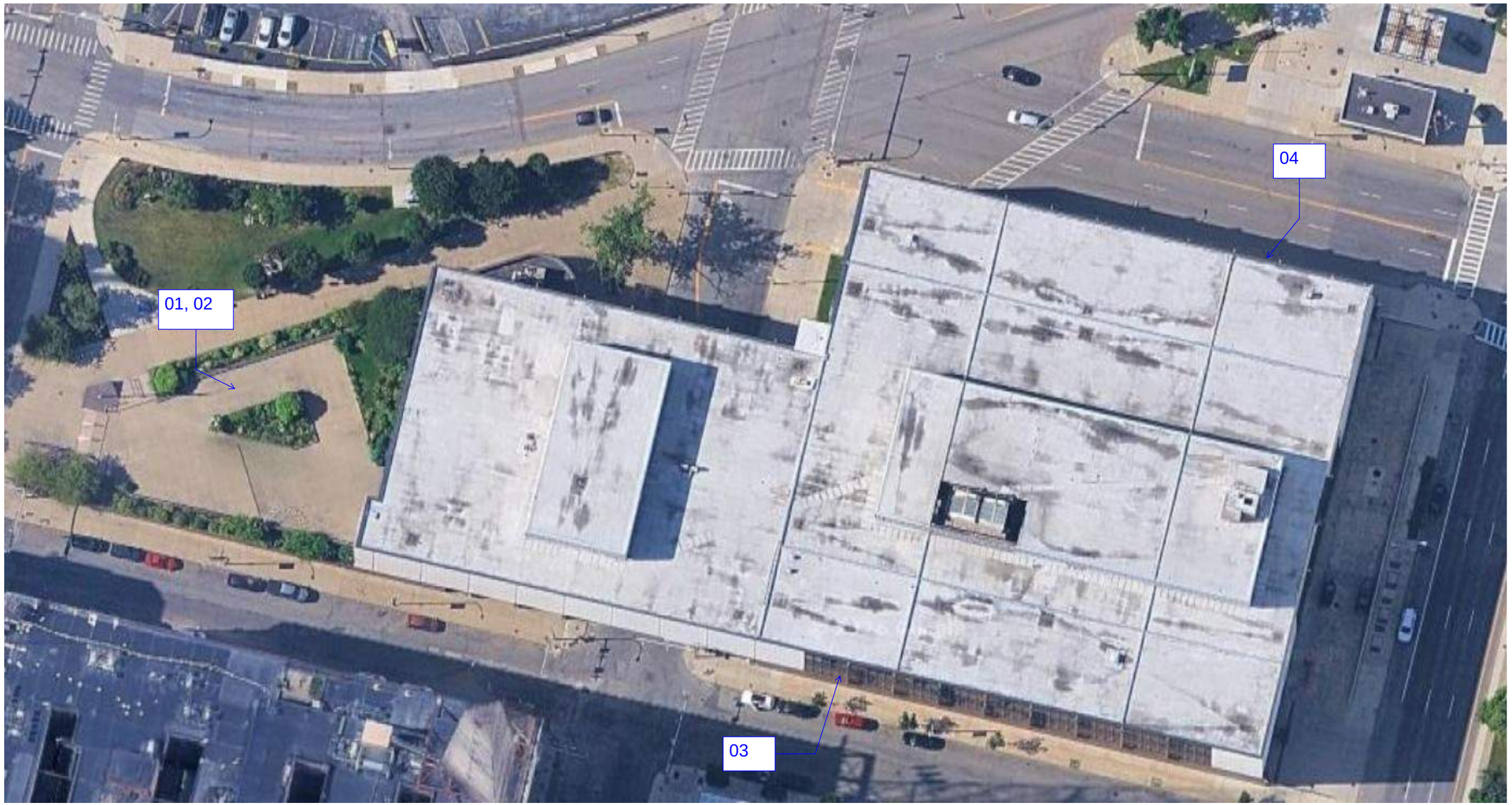
Type

M = Miscellaneous

ACM

Y = Yes N = No

2.1 – ASBESTOS SAMPLE LOCATION DRAWING



ASBESTOS BULK SAMPLE LOCATIONS
SAMPLES COLLECTED ON JUNE 16, 2026
SAMPLES PREFIXED BY 260370-
SAMPLES IN RED ARE ASBESTOS-CONTAINING

2.2 – ASBESTOS LABORATORY REPORT AND CHAIN-OF CUSTODY FORMS

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-0493

PLM Bulk Asbestos Report

Watts Architecture & Engineers
Attn: Ted Gorenflo
95 Perry Street
Suite 300
Buffalo, NY 14203

Date Received 6/19/2026 **AmeriSci Job #** 126061968
Date Examined 06/24/26 **P.O. #**
ELAP # 10984 **Page** 1 **of** 2

RE: 20260370; Buffalo Erie County Public Library Hazardous Testing; 1 Lafayette Square, Buffalo, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos	Notes
260370-01 1	126061968-01	***No***	Inconclusive - NAD (NOB by EPA 600/M4-82-020) by C. David Mintz on 06/24/26	*1*

Location: Gray Caulk At Stone Sidewalk; West Building Main Entrance
Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 15%
Comment: Heat Sensitive (organic): 39.8%; Acid Soluble (inorganic): 45.5%; Inert (Non-asbestos): 14.7%

260370-02 1	126061968-02	***No***	Inconclusive - NAD (NOB by EPA 600/M4-82-020) by C. David Mintz on 06/24/26	*1*

Location: Gray Caulk At Stone Sidewalk; West Building Main Entrance
Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 19%
Comment: Heat Sensitive (organic): 38.1%; Acid Soluble (inorganic): 42.5%; Inert (Non-asbestos): 19.4%

260370-03 2	126061968-03	***No***	Inconclusive - NAD (NOB by EPA 600/M4-82-020) by C. David Mintz on 06/24/26	*1*

Location: Light Gray Window Caulk; East Building - Clinton & Ellicott - Window Frame
Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 40%
Comment: Heat Sensitive (organic): 31.1%; Acid Soluble (inorganic): 29.4%; Inert (Non-asbestos): 39.5%

260370-04 2	126061968-04	***No***	Inconclusive - NAD (NOB by EPA 600/M4-82-020) by C. David Mintz on 06/24/26	*1*

Location: Light Gray Window Caulk; East Building - William & Oak - Glazing
Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 40%
Comment: Heat Sensitive (organic): 36.7%; Acid Soluble (inorganic): 23.7%; Inert (Non-asbestos): 39.7%

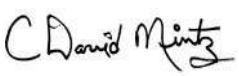
See Reporting notes on last page

PLM Bulk Asbestos Report

20260370; Buffalo Erie County Public Library Hazardous Testing; 1
Lafayette Square, Buffalo, NY

Reporting Notes:

(1) NAD results by NYS 198.6 are inconclusive and are not considered non-ACM

Analyzed by: C. David Mintz  Reviewed by: Cory M. Parnell 

Date: 6/24/2026

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

Client Name: Watts Architecture & Engineers

Table I
Summary of Bulk Asbestos Analysis Results by NYS ELAP 198.4

20260370; Buffalo Erie County Public Library Hazardous Testing; 1 Lafayette Square, Buffalo, NY

AmeriSci Sample #	Client Sample#	HG Area	NOB Sample Weight (gram)	NOB Heat Sensitive Organic %	NOB Acid Soluble Inorganic %	NOB Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	260370-01	1	0.369	39.8	45.5	14.7	NAD	NAD
Location:	Gray Caulk At Stone Sidewalk; West Building Main Entrance							
02	260370-02	1	0.348	38.1	42.5	19.4	NAD	NAD
Location:	Gray Caulk At Stone Sidewalk; West Building Main Entrance							
03	260370-03	2	0.250	31.1	29.4	39.5	NAD	NAD
Location:	Light Gray Window Caulk; East Building - Clinton & Ellicott - Window Frame							
04	260370-04	2	0.353	36.7	23.7	39.7	NAD	NAD
Location:	Light Gray Window Caulk; East Building - William & Oak - Glazing							

Analyzed by: Cory M. Parnell

Reviewed by: Cory M. Parnell

Date: 6/25/2026

Semi-Quantitative Analysis: NAD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed due to positive stop; Trace = <1%; PLM analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) or NY ELAP 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NY ELAP Lab # 10984); TEM prep by EPA 600/R-93/116 Section 2.3 (analysis by Section 2.5, not covered by NVLAP Bulk accreditation); or NY ELAP 198.4 for New York NOB samples (NY ELAP Lab # 10984). Analysis using Jeol, Model JEM-100CX II microscope, Serial #156147-247. ** Warning Notes: Consider PLM fiber diameter limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris, soils or other heterogeneous materials for which a combination PLM/TEM evaluation is recommended; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only.

126061968

WATTS ARCHITECTS & ENGINEERS
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

Client: Buffalo & Erie County Public Library
Project: Buffalo Erie County Public Library Hazardous Testing
Building / Location: 1 Lafayette Square, Buffalo, NY
Contact: Ted Gorenflo at (716) 392-4556
Preliminary Results to: tgorenflo@watts-ae.com and
Mail Report & Invoice to: Watts Architects & Engineers
95 Perry Street, Buffalo, NY 14203

Date: 6/16/2026
Watts Project No: 20260370

Turnaround Requested:

3 Hr.	48 Hr.
6 Hr.	72 Hr.
12 Hr.	4 Day
24 Hr.	x 5 Day

Analysis Requested:
198.1 X 198.4 X
198.8 198.6 X

Sample Number	Material Description	HA	Sample Location	Laboratory Results PLM	Laboratory Results TEM
260370-01	Gray Caulk at Stone Sidewalk	1	West Building Main Entrance		
260370-02	Gray Caulk at Stone Sidewalk	1	West Building Main Entrance		
260370-03	Light Gray Window Caulk	2	East Building - Clinton & Ellicott - Window Frame		
260370-04	Light Gray Window Caulk	2	East Building - William & Oak - Glazing		

Sampled By: Ted Gorenflo Date: 6/16/2026 Time: N/A Received By: Date:

Relinquished By: Ted Gorenflo Date: 6/17/2026 Time: 1700 Received By: Date:

Comments: If PLM NOB is negative, analyze by TEM. Stop at first positive for each homogeneous material description group.
If Vermiculite is detected , cease analysis and contact the Watts Project Manager for further instructions.

Received
JUN 19 2026

2.3 – HOMOGENEOUS MATERIAL TABLES FROM PRIOR TESTING

Buffalo and Erie County Library, 1 Lafayette Square, Buffalo, NY
Auditorium Renovation Project - Exterior Planter
Supplemental Asbestos and PCB in Caulk/Sealants Sampling

- Black caulk at planter cap stone and wall

The following table includes the following: the homogeneous materials identified, their corresponding sample numbers, analytical results and whether or not they are ACM.

Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)		ACM
				PLM	TEM	Y/N
Black Caulk	Planter Cap Stone Top Seam	M	1214720-01 1214720-02	ND ND	ND ND	N
Black Caulk	Planter cap stone at wall	M	1215203-10 1215203-11	ND ND	ND ND	N

ND = None Detected
NA = Not Analyzed
NA/PS = Not Analyzed/Positive Stop
Y = Yes
N = No
S = Surfacing
M = Miscellaneous

ABESTOS-CONTAINING MATERIALS (ACM)

The inspection included the collection and analysis of a total of twelve (12) bulk samples to represent all identified suspect ACM. ACM is defined as any material containing more than one percent of asbestos. Based on testing performed for this project, **the following ACMs were identified within the Project Limits:**

- Black seam caulk between the granite panels on the retaining wall of the plaza (approximately 500 linear feet/20.8 square feet of seam caulk). The seam `caulk is non-friable and in fair condition.

NON-ASBESTOS-CONTAINING MATERIALS (NON-ACM)

The following materials have been tested by Watts as part of this investigation and determined to be non-ACM:

- Grey caulk at the intersection between wall panels and sidewalk
- Waterproofing cement
- Flashing caulk
- Black caulk on flashing
- Grey caulk on ends of chimney flashing*

* This material does not exceed the threshold of greater than 1% asbestos which would classify the material as ACM, however a trace amount of asbestos is present in this material.

The following table identifies the samples that were collected, the sample descriptions and the laboratory results.

Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)		ACM
				PLM	TEM	Y/N
Black Caulk in Seams of Wall Panels	Exterior Plaza Exterior Plaza	M	21075-01 21075-02	NAD 1.9 % Chrysotile	NAD NA	Y

Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)		ACM
				PLM	TEM	Y/N
Grey Caulk at Intersection Between Wall Panels and Sidewalk	Exterior Plaza Exterior Plaza	M	21075-03 21075-04	NAD NAD	NAD NAD	N
Waterproofing Cement	Exterior Plaza Exterior Plaza	M	21075-05 21075-06	NAD NAD	NA NA	N
Flashing Caulk	Chimney Chimney	M	21075-07 21075-08	NAD NAD	NAD NAD	N
Black Caulk on Flashing	Chimney Chimney	M	21075-09 21075-10	NAD	NAD NAD	N
Grey Caulk on Ends of Chimney Flashing	East Building SE Egress Door East Building SE Egress Door	M	20175-11 20175-12	NAD NAD	Trace Chrysotile NAD	N

NAD = No Asbestos Detected NA = Not Analyzed M=Miscellaneous Material

Samples were delivered with the proper chain-of-custody forms to a New York State accredited laboratory that is a participant in the Environmental Laboratory Approval Program (ELAP) and National Voluntary Laboratory Approval Program (NVLAP). All materials, except non-friable organically bound (NOB) materials, were analyzed using Polarized Light Microscopy (PLM) using Method 198.1. NOBs, which include, but are not limited to, flooring materials, mastics, and caulks underwent gravimetric reduction and were analyzed by Polarized Light Microscopy (PLM) Method 198.6. Any NOB materials that were found to be negative under PLM were then analyzed by Transmission Electron Microscopy (TEM) Method 198.4. The New York State Department of Health (NYSDOH) protocol requires analysis by TEM if the PLM analysis does not confirm the presence of asbestos.

POLYCHLORINATED BIPHENYLS (PCBS) IN CAULKS/SEALANTS

It was requested that Watts investigate the caulk and sealants within the project limits to determine if polychlorinated biphenyls (PCBs) were present in these materials. Samples were collected from representative locations identified by Watts based on visual observations made at the time of the site visits.

NON ASBESTOS-CONTAINING MATERIALS

The following materials were tested and determined to be non-ACM:

- Soft black caulk between granite panels, exposed at the surface of joints.
- Light gray caulk in joints between granite panels, below black caulk and on top of gray caulk.
- Gray caulk at the bottom of joints between granite panels, bottom layer.
- Soft gray caulk on bottom side of granite panels, at the damaged side panel.
- Mortar behind granite panels.

The following table identifies the samples that were collected, the sample descriptions and the laboratory results.

Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)		ACM
				PLM	TEM	Y/N
Soft Black Caulk Between Granite Panels	Joint on Top of Stonework at Base of Flagpole, Broadway and Washington St. Plaza	M	1214724-01 1214724-02	Inconclusive: ND Inconclusive: ND	ND ND	N
Gray Caulk at Bottom of Joint Between Granite Panels, Bottom Layer	Joint on Top of Stonework at Base of Flagpole, Broadway and Washington St. Plaza	M	1214724-03 1214724-04	Inconclusive: ND Inconclusive: ND	ND ND	N
Light Gray Caulk in Joint Between Granite Panels, Below Black Caulk and on Top Gray Caulk	Joint on Top of Stonework at Base of Flagpole, Broadway and Washington St. Plaza	M	1214724-05 1214724-06	Inconclusive: ND Inconclusive: ND	ND ND	N
Soft Gray Caulk, Bottom Side of Granite Panel	Behind Damaged Granite Panel at Base of Flagpole, Broadway and Washington St. Plaza	M	1214724-07 1214724-08	Inconclusive: ND Inconclusive: ND	ND ND	N
Mortar Behind Granite Panel	Behind Damaged Granite Panel at Base of Flagpole, Broadway and Washington St. Plaza	M	1214724-09 1214724-10	ND ND	NA NA	N

ND = Non Detected
NA = Not Analyzed
NA/PS = Not Analyzed/Positive Stop

M= Miscellaneous Material

HOMOGENEOUS MATERIALS LIST
EXTERIOR SEALANTS PROJECT
BUFFALO & ERIE COUNTY CENTRAL LIBRARY
BUFFALO, NEW YORK

Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)		ACM
				PLM	TEM	Y/N
West Building						
Exterior Caulk (White) Between White Marble Panels	South of Main Entry Doors South Elevation by Auditorium Entrance	M	250527-01 250527-02	NAD NAD	NAD NAD	N
Exterior Caulk (Black) Between Red Granite Panels	Main Entrance Exterior Foyer South Elevation by Auditorium Entrance	M	250527-03 250527-04	NAD NAD	NAD NAD	N
Exterior Caulk (Black) Between Black Granite Panels	South Elevation by Auditorium Entrance West Elevation Below Window	M	250527-05 250527-06	NAD NAD	NAD NAD	N
Exterior Caulk (Light Gray/Silver) Associated with Windows and Doors	West Elevation – Window Frame Left of Entry Doors West Elevation – North Window Frame	M	250527-13 250527-14	NAD NAD	NAD NAD	N
East Building						
Exterior Caulk (White) Between White Marble Panels	South Elevation North Elevation	M	250527-07 250527-08	NAD NAD	NAD NAD	N
Exterior Caulk (Black) Between Red Granite Panels	South Elevation East Elevation	M	250527-09 250527-10	NAD NAD	NAD NAD	N
Exterior Caulk (Black) Between Black Granite Panels	East Elevation Above Receiving Man Door North Elevation	M	250527-11 250527-12	NAD NAD	NAD NAD	N

Results Abbreviations

NAD = No asbestos detected

Type

M = Miscellaneous

ACM

Y = Yes N = No

Following is information on all suspect ACM sampled that includes the following: the homogeneous materials identified, their corresponding sample numbers, analytical results and whether or not they are ACM.

Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)		ACM
				PLM	TEM	Y/N
Spay-on Fireproofing	Crawlspace West of Elevator Pit	S	1215203-01	ND	NA	N
	Crawlspace SW of Elevator Pit		1215203-02	ND	NA	
	Crawlspace South of Escalator Pit		1215203-03	ND	NA	
	Crawlspace North of Escalator Pit		1215203-04	ND	NA	
	Crawlspace South of Escalator Pit		1215203-05	ND	NA	
	Crawlspace West of Escalator Pit		1215203-06	ND	NA	
	Crawlspace NW of Escalator Pit		1215203-07	ND	NA	
Granite Panel Caulk	West Side of Building Near West Entrance	M	1215203-08	ND	ND	N
			1215203-09	ND	ND	
Marble Panel Caulk	West Side of Building Near West Entrance	M	1215203-10	ND	ND	N
			1215203-11	ND	ND	
Mosaic Tile Grout/Mudset	West Side of Building Near West Entrance	M	1215203-12	ND	NA	N
			1215203-13	ND	NA	
Black Asphalt Flashing	**West Side of Building, Test Area at Ellicott Street, Beneath Top of Granite Panel**	**M**	**1215203-14**	**8.3% Chrysotile**	**NA**	**Y**
			1215203-15	**NA/PS**	**NA**	
Cementitious Thin Set Behind Granite Panels	West Side of Building, Test Area at Ellicott Street, Cement Behind Granite Panel	M	1215203-16	ND	NA	N
	West Side of Building, Test Area at Ellicott Street, on Back Side of Granite Panel		1215203-17	ND	NA	
Brown Fibrous Joint Filler	West Side of Building, Test Area at Ellicott Street, Behind Granite Panel, at Seam	M	1215203-18	ND	ND	N
			1215203-19	ND	ND	

Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)		ACM
				PLM	TEM	Y/N
Cementitious Thin Set Behind Marble Panels	West Side of Building, Test Area at Ellicott Street, on Backside of Marble Panel	M	1215203-20	ND	NA	N
	West Side of Building, Test Area at Ellicott Street, Behind Marble Panel		1215203-21	ND	NA	
Black Caulk Between Metal Mullion and Black Stone Panels	North Side of Library Bridge over Ellicott Street, Lowest Panel	M	1215203-22	ND	ND	N
			1215203-23	ND	ND	
Thin Set Behind Black Stone Panels, on Underlying Mortar	North Side of Library Bridge over Ellicott Street, Lowest Panel, Below Window	M	1215203-24	ND	NA	N
			1215203-25	ND	NA	
Black Caulk Between Edges of Black Stone Panels	North Side of Library Bridge over Ellicott Street, Between Lowest Row Panels	M	1215203-26	ND	ND	N
			1215203-27	ND	ND	
Black Asphaltic Flashing on Copper Flashing	**North Side of Library Bridge over Ellicott Street, Behind Mortar, on Copper Flashing on Concrete**	**M**	**1215203-28**	**5.4% Chrysotile**	**NA**	**Y**
			1215203-29	**NA/PS**	**NA**	
Black Asphaltic Flashing Behind Copper Flashing	**North Side of Library Bridge over Ellicott Street, Behind Mortar, Behind Copper Flashing on Concrete**	**M**	**1215203-30**	**3.0% Chrysotile**	**NA**	**Y**
			1215203-31	**NA/PS**	**NA**	
Black Tar and Fabric, on Concrete Behind Copper Flashing	**North Side of Library Bridge over Ellicott Street, Behind Mortar, on Concrete, Behind Copper Flashing**	**M**	**1215203-32**	**24.9% Chrysotile**	**NA**	**Y**
			1215203-33	**NA/PS**	**NA**	
Yellow Fibrous Packing at Metal Lip, Base of Concrete	North Side of Library Bridge over Ellicott Street, Behind Mortar, Copper & Black Tar Flashing	M	1215203-34	ND	NA	N
			1215203-35	ND	NA	

ND = None Detected
NA = Not Analyzed
NA/PS = Not Analyzed/Positive Stop
Y = Yes
N = No
S = Surfacing
M = Miscellaneous

3.0 – POLYCHLORINATED BIPHENYLS IN CAULKS AND SEALANTS

3.0 POLYCHLORINATED BIPHENYLS (PCBs) IN CAULKS AND SEALANTS

Watts was retained to sample suspect caulks and sealants that may be disturbed by the scope of work to determine if polychlorinated biphenyls (PCBs) are present.

The Environmental Protection Agency (EPA) regulates PCBs and considers any debris generated from construction materials manufactured with PCBs derived from building renovation projects with a concentration of greater than 50 parts per million (ppm) as PCB bulk product waste. The Toxic Substances Control Act (TSCA) regulations (40 CFR Part 761) prescribes requirements for the proper management of PCB materials, including their handling and disposal. PCB bulk product waste at concentrations ≥50 ppm must follow specific storage, transport, and disposal requirements.

Bulk samples were collected using simple hand tools from each matrix identified as a potential PCB-containing material. The samples were analyzed by Schneider Laboratories in Richmond, Virginia. Schneider Laboratories is a New York State Department of Health (NYSDOH) approved laboratory and participant in the National Voluntary Laboratory Approval Program (NVLAP). The samples were analyzed using USEPA SW-846 Method 8082A, PCBs.

Watts collected a total of ten (10) bulk samples of suspect PCB-containing caulks and sealants that were identified within the project scope and are anticipated to be disturbed by the proposed project.

The table on the following page identifies each suspect PCB material identified, its corresponding sample number and PCB aroclor analytical results.

POLYCHLORINATED BIPHENYLS (PCBs)
EXTERIOR STONE PANEL AND SEALANT PROJECT
BUFFALO & ERIE COUNTY CENTRAL LIBRARY
BUFFALO, NEW YORK

Sample Number	PCB Concentration (mg/kg or ppm)									Sample Description
	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	
260370-PCB-01	**<4,210**	**<4,210**	**<4,210**	**<4,210**	**<4,210**	**60,300**	**<4,210**	**<4,210**	**<4,210**	**Bridge – Light Gray with Residual Beige – Window Frame Caulk**
260370-PCB-02	**<4,580**	**<4,580**	**<4,580**	**<4,580**	**<4,580**	**16,900**	**<4,580**	**<4,580**	**<4,580**	**East Building – Light Gray with Residual Beige – Window Frame Caulk**
260370-PCB-03	**<457**	**<457**	**<457**	**<457**	**<457**	**7,090**	**<457**	**<457**	**<457**	**East Building – Light Gray Window Frame Caulk**
260370-PCB-04	**<471**	**<471**	**<471**	**<471**	**<471**	**<518**	**2,200**	**<471**	**<471**	**East Building – Light Gray Window Glazing Caulk**
260370-PCB-05	**<472**	**<472**	**<472**	**<472**	**<472**	**<519**	**2,800**	**<472**	**<472**	**West Building – Light Gray Window Glazing Caulk – Main Entrance**
260370-PCB-06	**<93.8**	**<93.8**	**<93.8**	**<93.8**	**<93.8**	**1,330**	**<93.8**	**<93.8**	**<93.8**	**East Building – Light Gray Caulk Between Window Frame & Sash**
260370-PCB-07	ND	ND	ND	ND	ND	ND	5.63	ND	ND	Bridge – Light Gray Caulk Between Window Frame & Sash
260370-PCB-08	ND	ND	ND	ND	ND	3.2	ND	ND	ND	West Building Main Entrance – Gray Caulk at Stone Sidewalk Seam
260370-PCB-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	West Building Main Entrance – Black Caulk at Middle Planter Seam
260370-PCB-10	ND	ND	ND	ND	ND	4.89	ND	ND	ND	West Building Main Entrance – Black Caulk at Flag Pole Red Panel

Results Abbreviations

ND = No PCBs Detected

Bold rows indicate PCB ≥ 50 ppm limit

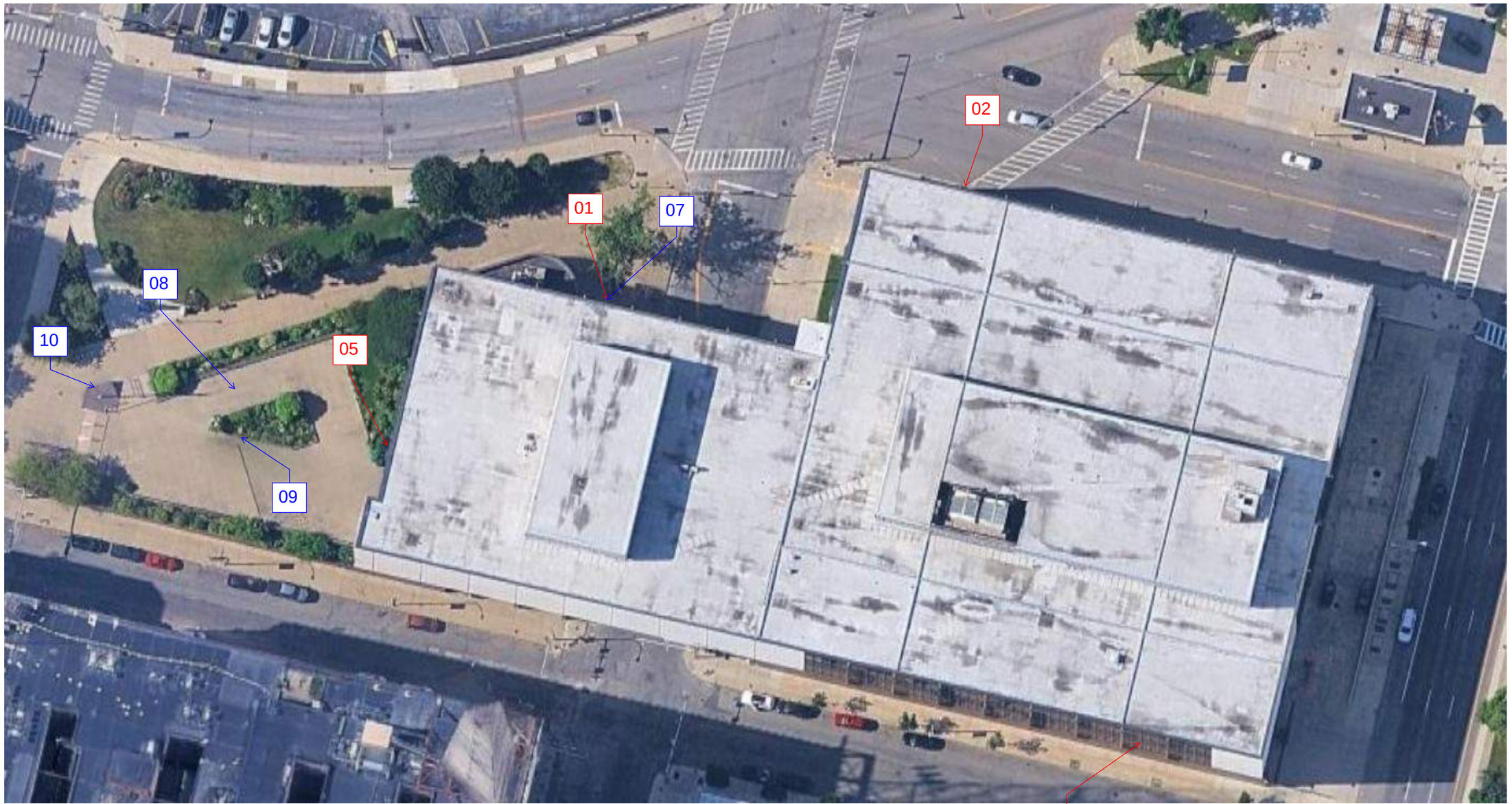
Units

mg/kg = milligram per kilogram

ppm = parts per million

A drawing depicting the approximate PCB sample locations is included in Section 3.1 of this report. It is the belief of Watts that this investigation has identified all suspect PCB-containing materials that will be disturbed by the proposed project. However, if additional suspect materials are identified that have not been previously sampled or sampled as part of this assessment, samples of each material should be collected and analyzed for PCB content.

3.1 – PCB SAMPLE LOCATION DRAWING



PCB BULK SAMPLE LOCATIONS
SAMPLES COLLECTED ON JUNE 16, 2026
SAMPLES PREFIXED BY 260370-PCB-
SAMPLES IN RED ARE PCB-CONTAINING

3.2 – PCB LABORATORY REPORT AND CHAIN-OF-CUSTODY FORMS

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: Buffalo Erie County Public Lib
Location: 1 Lafayette Square, Buffalo
Number: 20260370

Order #: 693464

Matrix Bulk
Received 06/23/26
Reported 06/25/26

PO Number: 7628

Sample ID / Parameter	Cust. Sample ID	Location / Method	Result	RL*	Units	Analysis Date	Analyst
693464-001	260370-PCB-01	Bridge Window Frame					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A / 3550C	**<4210000**	4210000	µg/kg	06/24/26	RR
Aroclor - 1221		SW846 8082A / 3550C	**<4210000**	4210000	µg/kg	06/24/26	RR
Aroclor - 1232		SW846 8082A / 3550C	**<4210000**	4210000	µg/kg	06/24/26	RR
Aroclor - 1242		SW846 8082A / 3550C	**<4210000**	4210000	µg/kg	06/24/26	RR
Aroclor - 1248		SW846 8082A / 3550C	**<4210000**	4210000	µg/kg	06/24/26	RR
Aroclor - 1254		SW846 8082A / 3550C	**60300000**	4630000	µg/kg	06/24/26	RR
Aroclor - 1260		SW846 8082A / 3550C	**<4210000**	4210000	µg/kg	06/24/26	RR
Aroclor - 1262		SW846 8082A / 3550C	**<4210000**	4210000	µg/kg	06/24/26	RR
Aroclor - 1268		SW846 8082A / 3550C	**<4210000**	4210000	µg/kg	06/24/26	RR
693464-002	260370-PCB-02	East Bld Window Frame Clk					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A / 3550C	**<4580000**	4570000	µg/kg	06/24/26	RR
Aroclor - 1221		SW846 8082A / 3550C	**<4580000**	4570000	µg/kg	06/24/26	RR
Aroclor - 1232		SW846 8082A / 3550C	**<4580000**	4570000	µg/kg	06/24/26	RR
Aroclor - 1242		SW846 8082A / 3550C	**<4580000**	4570000	µg/kg	06/24/26	RR
Aroclor - 1248		SW846 8082A / 3550C	**<4580000**	4570000	µg/kg	06/24/26	RR
Aroclor - 1254		SW846 8082A / 3550C	**16900000**	5030000	µg/kg	06/24/26	RR
Aroclor - 1260		SW846 8082A / 3550C	**<4580000**	4570000	µg/kg	06/24/26	RR
Aroclor - 1262		SW846 8082A / 3550C	**<4580000**	4570000	µg/kg	06/24/26	RR
Aroclor - 1268		SW846 8082A / 3550C	**<4580000**	4570000	µg/kg	06/24/26	RR
693464-003	260370-PCB-03	East Bld Window Frame Clk					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A / 3550C	**<457000**	457000	µg/kg	06/24/26	RR
Aroclor - 1221		SW846 8082A / 3550C	**<457000**	457000	µg/kg	06/24/26	RR
Aroclor - 1232		SW846 8082A / 3550C	**<457000**	457000	µg/kg	06/24/26	RR
Aroclor - 1242		SW846 8082A / 3550C	**<457000**	457000	µg/kg	06/24/26	RR

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results apply to the sample as received.

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: Buffalo Erie County Public Lib
Location: 1 Lafayette Square, Buffalo
Number: 20260370

Order #: 693464

Matrix Bulk
Received 06/23/26
Reported 06/25/26

PO Number: 7628

Sample ID / Parameter	Cust. Sample ID	Location / Method	Result	RL*	Units	Analysis Date	Analyst
693464-003	260370-PCB-03	East Bld Window Frame Clk					
Aroclor - 1248		SW846 8082A / 3550C	**<457000**	457000	µg/kg	06/24/26	RR
Aroclor - 1254		SW846 8082A / 3550C	**7090000**	503000	µg/kg	06/24/26	RR
Aroclor - 1260		SW846 8082A / 3550C	**<457000**	457000	µg/kg	06/24/26	RR
Aroclor - 1262		SW846 8082A / 3550C	**<457000**	457000	µg/kg	06/24/26	RR
Aroclor - 1268		SW846 8082A / 3550C	**<457000**	457000	µg/kg	06/24/26	RR
693464-004	260370-PCB-04	East Bld Window Clk					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A / 3550C	**<471000**	471000	µg/kg	06/24/26	RR
Aroclor - 1221		SW846 8082A / 3550C	**<471000**	471000	µg/kg	06/24/26	RR
Aroclor - 1232		SW846 8082A / 3550C	**<471000**	471000	µg/kg	06/24/26	RR
Aroclor - 1242		SW846 8082A / 3550C	**<471000**	471000	µg/kg	06/24/26	RR
Aroclor - 1248		SW846 8082A / 3550C	**<471000**	471000	µg/kg	06/24/26	RR
Aroclor - 1254		SW846 8082A / 3550C	**<518000**	518000	µg/kg	06/24/26	RR
Aroclor - 1260		SW846 8082A / 3550C	**2200000**	471000	µg/kg	06/24/26	RR
Aroclor - 1262		SW846 8082A / 3550C	**<471000**	471000	µg/kg	06/24/26	RR
Aroclor - 1268		SW846 8082A / 3550C	**<471000**	471000	µg/kg	06/24/26	RR
693464-005	260370-PCB-05	West Bld Window Clk					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A / 3550C	**<472000**	472000	µg/kg	06/24/26	RR
Aroclor - 1221		SW846 8082A / 3550C	**<472000**	472000	µg/kg	06/24/26	RR
Aroclor - 1232		SW846 8082A / 3550C	**<472000**	472000	µg/kg	06/24/26	RR
Aroclor - 1242		SW846 8082A / 3550C	**<472000**	472000	µg/kg	06/24/26	RR
Aroclor - 1248		SW846 8082A / 3550C	**<472000**	472000	µg/kg	06/24/26	RR
Aroclor - 1254		SW846 8082A / 3550C	**<519000**	519000	µg/kg	06/24/26	RR
Aroclor - 1260		SW846 8082A / 3550C	**2800000**	472000	µg/kg	06/24/26	RR
Aroclor - 1262		SW846 8082A / 3550C	**<472000**	472000	µg/kg	06/24/26	RR
Aroclor - 1268		SW846 8082A / 3550C	**<472000**	472000	µg/kg	06/24/26	RR

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results apply to the sample as received.

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: Buffalo Erie County Public Lib
Location: 1 Lafayette Square, Buffalo
Number: 20260370

Order #: 693464

Matrix Bulk
Received 06/23/26
Reported 06/25/26

PO Number: 7628

Sample ID / Parameter	Cust. Sample ID	Location / Method	Result	RL*	Units	Analysis Date	Analyst
693464-006	260370-PCB-06	East Bld Clk					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A / 3550C	**<93800**	93700	µg/kg	06/24/26	RR
Aroclor - 1221		SW846 8082A / 3550C	**<93800**	93700	µg/kg	06/24/26	RR
Aroclor - 1232		SW846 8082A / 3550C	**<93800**	93700	µg/kg	06/24/26	RR
Aroclor - 1242		SW846 8082A / 3550C	**<93800**	93700	µg/kg	06/24/26	RR
Aroclor - 1248		SW846 8082A / 3550C	**<93800**	93700	µg/kg	06/24/26	RR
Aroclor - 1254		SW846 8082A / 3550C	**1330000**	103000	µg/kg	06/24/26	RR
Aroclor - 1260		SW846 8082A / 3550C	**<93800**	93700	µg/kg	06/24/26	RR
Aroclor - 1262		SW846 8082A / 3550C	**<93800**	93700	µg/kg	06/24/26	RR
Aroclor - 1268		SW846 8082A / 3550C	**<93800**	93700	µg/kg	06/24/26	RR
693464-007	260370-PCB-07	Bridge Clk					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A / 3550C	**<499**	498	µg/kg	06/24/26	RR
Aroclor - 1221		SW846 8082A / 3550C	**<499**	498	µg/kg	06/24/26	RR
Aroclor - 1232		SW846 8082A / 3550C	**<499**	498	µg/kg	06/24/26	RR
Aroclor - 1242		SW846 8082A / 3550C	**<499**	498	µg/kg	06/24/26	RR
Aroclor - 1248		SW846 8082A / 3550C	**<499**	498	µg/kg	06/24/26	RR
Aroclor - 1254		SW846 8082A / 3550C	**<548**	548	µg/kg	06/24/26	RR
Aroclor - 1260		SW846 8082A / 3550C	**5630**	498	µg/kg	06/24/26	RR
Aroclor - 1262		SW846 8082A / 3550C	**<499**	498	µg/kg	06/24/26	RR
Aroclor - 1268		SW846 8082A / 3550C	**<499**	498	µg/kg	06/24/26	RR
693464-008	260370-PCB-08	West Bld Main Entr Clk					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A / 3550C	**<463**	463	µg/kg	06/24/26	RR
Aroclor - 1221		SW846 8082A / 3550C	**<463**	463	µg/kg	06/24/26	RR
Aroclor - 1232		SW846 8082A / 3550C	**<463**	463	µg/kg	06/24/26	RR
Aroclor - 1242		SW846 8082A / 3550C	**<463**	463	µg/kg	06/24/26	RR

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results apply to the sample as received.

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: Buffalo Erie County Public Lib
Location: 1 Lafayette Square, Buffalo
Number: 20260370

Order #: 693464

Matrix Bulk
Received 06/23/26
Reported 06/25/26

PO Number: 7628

Sample ID / Parameter	Cust. Sample ID	Location / Method	Result	RL*	Units	Analysis Date	Analyst
693464-008	260370-PCB-08	West Bld Main Entr Clk					
Aroclor - 1248		SW846 8082A / 3550C	**<463**	463	µg/kg	06/24/26	RR
Aroclor - 1254		SW846 8082A / 3550C	**3200**	509	µg/kg	06/24/26	RR
Aroclor - 1260		SW846 8082A / 3550C	**<463**	463	µg/kg	06/24/26	RR
Aroclor - 1262		SW846 8082A / 3550C	**<463**	463	µg/kg	06/24/26	RR
Aroclor - 1268		SW846 8082A / 3550C	**<463**	463	µg/kg	06/24/26	RR
693464-009	260370-PCB-09	West Bld Main Entr Clk					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A / 3550C	**<499**	498	µg/kg	06/24/26	RR
Aroclor - 1221		SW846 8082A / 3550C	**<499**	498	µg/kg	06/24/26	RR
Aroclor - 1232		SW846 8082A / 3550C	**<499**	498	µg/kg	06/24/26	RR
Aroclor - 1242		SW846 8082A / 3550C	**<499**	498	µg/kg	06/24/26	RR
Aroclor - 1248		SW846 8082A / 3550C	**<499**	498	µg/kg	06/24/26	RR
Aroclor - 1254		SW846 8082A / 3550C	**<548**	548	µg/kg	06/24/26	RR
Aroclor - 1260		SW846 8082A / 3550C	**<499**	498	µg/kg	06/24/26	RR
Aroclor - 1262		SW846 8082A / 3550C	**<499**	498	µg/kg	06/24/26	RR
Aroclor - 1268		SW846 8082A / 3550C	**<499**	498	µg/kg	06/24/26	RR
693464-010	260370-PCB-10	West Bld Main Entr Clk					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A / 3550C	**<476**	476	µg/kg	06/24/26	RR
Aroclor - 1221		SW846 8082A / 3550C	**<476**	476	µg/kg	06/24/26	RR
Aroclor - 1232		SW846 8082A / 3550C	**<476**	476	µg/kg	06/24/26	RR
Aroclor - 1242		SW846 8082A / 3550C	**<476**	476	µg/kg	06/24/26	RR
Aroclor - 1248		SW846 8082A / 3550C	**<476**	476	µg/kg	06/24/26	RR
Aroclor - 1254		SW846 8082A / 3550C	**4890**	524	µg/kg	06/24/26	RR
Aroclor - 1260		SW846 8082A / 3550C	**<476**	476	µg/kg	06/24/26	RR
Aroclor - 1262		SW846 8082A / 3550C	**<476**	476	µg/kg	06/24/26	RR
Aroclor - 1268		SW846 8082A / 3550C	**<476**	476	µg/kg	06/24/26	RR

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results apply to the sample as received.

Analysis Report

Schneider Laboratories Global, Inc

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804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: Buffalo Erie County Public Lib
Location: 1 Lafayette Square, Buffalo
Number: 20260370

Order #: 693464

Matrix Bulk
Received 06/23/26
Reported 06/25/26

PO Number: 7628

Sample ID / Parameter	Cust. Sample ID / Method	Result	RL*	Units	Analysis Date	Analyst
693464-06/25/26 01:59 PM						

Reviewed By: **Kelly Muncy**
Manager

Surrogate Recoveries

693464-001 - PCB	
DCB	D
TCMX	D
693464-002 - PCB	
DCB	D
TCMX	D
693464-003 - PCB	
DCB	D
TCMX	D
693464-004 - PCB	
DCB	D
TCMX	D
693464-005 - PCB	
DCB	D
TCMX	D
693464-006 - PCB	
DCB	D
TCMX	D
693464-007 - PCB	
DCB	89%
TCMX	118%
693464-008 - PCB	
DCB	91%
TCMX	68%
693464-009 - PCB	
DCB	98%
TCMX	139%
693464-010 - PCB	
DCB	88%

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results apply to the sample as received.

Analysis Report

Schneider Laboratories Global, Inc

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Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
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Project: Buffalo Erie County Public Lib
Location: 1 Lafayette Square, Buffalo
Number: 20260370

Order #: 693464

Matrix Bulk
Received 06/23/26
Reported 06/25/26

PO Number: 7628

Sample ID / Parameter	Cust. Sample ID / Method	Location	Result	RL*	Units	Analysis Date	Analyst
TCMX		114%					

State Certifications

Method	Parameter	New York	Virginia
SW846 8082A	Aroclor - 1016	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1221	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1232	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1242	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1248	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1254	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1260	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1262	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1268	ELAP Certified	VELAP Certified

State	Certificate Number
New York	ELAP 72103
Virginia	VELAP 13831
Virginia	VELAP 13853

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results apply to the sample as received.

SCHNEIDER LABORATORIES GLOBAL, INC.
2512 West Cary Street, Richmond, Virginia 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabinc.com • info@slabinc.com

S 10

693464

V:\693\693464

bwood 6/23/2026 9:35:01 AM

UPS 1Z777A9R0319244315

Submitting Co.	Watts Architects and Engineers	State of Collection	NY	Cert. Required	☐ YES ■ NO
95 Perry Street, Suite 300		Acct #	4637	Phone	(716) 392-4556
Buffalo NY, 14203		Email	tgorenflo@watts-ae.com		
Project Name	Buffalo Erie County Public Library Hazardous Testing	PO #	N/A		
Project Location	1 Lafayette Square, Buffalo, NY	Special Instructions	PCB 8082		
Project Number	20260370				
Collected By	Ted Gorenflo				

Turn Around Time**

- ☐ Same day *
- ☐ 1 business day
- ☐ 2 business days
- ☐ 3 business days
- ■ 5 business days

* not available for all tests

** A job received past 3 PM will begin its TAT the next business day

Please schedule rush tests in advance

Matrix

- ☐ Paint
- ■ Bulk
- ☐ Soil
- ☐ Wipe
- ☐ Ground Water
- ☐ Waste Water

Test selection for all Samples listed below (Circle desired method)

- ☐ VOC (8260/624)
- ☐ 5VOC (8270/625)
- ☐ Pesticides (8081/608)
- ☐ Herbicides (8151)
- ☐ Chlordane (8081/608)
- ☐ Toxaphene (8081/608)
- ■ PCB (8082)
- ☐ TPH-DRO (8015)
- ☐ TPH-GRO (8015)
- ☐ BTEX (8260/8021)
- ☐ MTBE (8260/8021)
- ☐ Naphthalene (8260/8270)

TCLP

- ☐ Volatiles
- ☐ Semi-Volatiles
- ☐ Herbicides
- ☐ Pesticides
- ☐ Full TCLP (10 Day)

Miscellaneous

- ☐ Chlorides (300/9056)
- ☐ Silica (7602)
- ☐ Sulfates (300/9056)
- ☐ PAH (8270/625)
- ☐ Oil and Grease (1664)
- ☐ TPH (EPA 418.1)

Individual Sample Requests

Sample #	Date Sampled	Time Sampled	# of Containers	Sample Identification	Wipe Area
260370-PCB-01	6-16-2026	N/A	1	Bridge - Window Frame Caulk (Light Gray with Residual Beige)	
260370-PCB-02				East Building - Window Frame Caulk (Light Gray with Residual Beige) - William & Ellicott	
260370-PCB-03				East Building - Window Frame Caulk (Light Gray) - Clinton & Oak	
260370-PCB-04				East Building - Window Glazing Caulk (Light Gray) - Clinton & Oak	
260370-PCB-05				West Building - Window Glazing Caulk (Light Gray) - Main Entrance	
260370-PCB-06				East Building - Caulk (Light Gray) Between Frame & Sash - Clinton & Oak	
260370-PCB-07				Bridge - Caulk (Light Gray) Between Frame & Sash	
260370-PCB-08				West Building Main Entrance - Caulk (Gray) at Stone Sidewalk Seam	
260370-PCB-09				West Building Main Entrance - Caulk (Black) at Middle Planter Seam	
260370-PCB-10				West Building Main Entrance - Caulk (Black) at Flag Pole Red Panel	

For Aqueous and Solid samples ensure enough sample is sent for duplicate and spike analyses

Relinquished By: Ted Gorenflo Signature: Ted Gorenflo Date/Time 6-17-26 / 1700

! ALL SHADED FIELDS MUST BE FILLED TO AVOID DELAYS !

Chain-of-Custody documentation continued internally

3.3 – HOMOGENEOUS MATERIAL TABLES FROM PRIOR TESTING

Buffalo and Erie County Library, 1 Lafayette Square, Buffalo, NY
Auditorium Renovation Project - Exterior Planter
Supplemental Asbestos and PCB in Caulk/Sealants Sampling

The following table identifies the samples that were collected, the sample description and laboratory results.

Sample #	PCB Concentration (mg/kg or ppm)									Material & Sample Location
	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	
1214720-PCB-01	**ND**	**ND**	**ND**	**ND**	**ND**	**114.0 ppm**	**ND**	**ND**	**ND**	**Planter Cap Stone Top**
1214720-PCB-02	ND	ND	ND	ND	ND	15.5 ppm	ND	ND	ND	Planter Cap Stone at Wall

Bold: Concentration exceeds 50 ppm (50 mg/kg) ppm = parts per million1 mg/kg = 1,000 ug/kg ND = not detected

The laboratory analytical reports, chain-of-custody forms, laboratory accreditations and Watts' license and certifications are attached. Should you have any questions or need additional information, please contact me at (716) 206-5118.

Sincerely,

WATTS ARCHITECTURE & ENGINEERING

Kevin R. O'Connor
Associate Principal

POLYCHLORINATED BIPHENYLS (PCBs)

PCB Concentration (mg/kg or ppm)										
Sample Number	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Sample Description
1214724-P01	ND	ND	ND	ND	ND	ND	ND	ND	ND	Gray Caulk at Bottom of Joint Between Granite Panels, Bottom Layer, Joint on Top of Stonework
1214724-P02	ND	ND	ND	ND	ND	ND	ND	ND	ND	Light Gray Caulk in Joint Between Granite Panels, Below Black Caulk and on Top Gray Caulk, Joint on Top of Stonework
1214724-P03	ND	ND	ND	ND	ND	ND	ND	ND	ND	Soft Gray Caulk, Bottom Side of Granite Panel, Behind Damaged Granite Panel at Base of Flagpole

Abbreviations:
ND = Non Detected, below Reporting Limit mg/kg = milligram per kilogram ppm = parts per million



Photo 1: View of the stone panels at the base of the flagpole, plaza at Broadway and Washington St. No ACM or PCBs were detected in samples of caulk between the stone panels.

POLYCHLORINATED BIPHENYLS (PCBs)
EXTERIOR SEALANT PROJECT
BUFFALO & ERIE COUNTY CENTRAL LIBRARY
BUFFALO, NEW YORK

Sample Number	PCB Concentration (mg/kg or ppm)									Sample Description
	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	
250527-PCB-01	ND	ND	ND	ND	ND	2.95	ND	ND	ND	Exterior Caulk (White) Between White Marble Panels – West Building
250527--PCB-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	Exterior Caulk (Black) Between Red Granite Panels – West Building
250527-PCB-03	ND	ND	ND	ND	ND	3.92	ND	ND	ND	Exterior Caulk (Black) Between Black Granite Panels – West Building
250527-PCB-04	ND	ND	ND	ND	ND	2.03	ND	ND	ND	Exterior Caulk (White) Between White Marble Panels – East Building
250527-PCB-05	ND	ND	ND	ND	ND	0.399	ND	ND	ND	Exterior Caulk (Black) Between Red Granite Panels – East Building
250527-PCB-06	**ND**	**ND**	**ND**	**ND**	**ND**	**68.0**	**ND**	**ND**	**ND**	**Exterior Caulk (Black) Between Black Granite Panels – East Building**
250527-PCB-07	**ND**	**ND**	**ND**	**ND**	**ND**	**568.0**	**ND**	**ND**	**ND**	**Exterior Caulk (Light Gray/Silver) at Window Frames – West Building**
250527-PCB-08	ND	ND	ND	ND	ND	1.12	ND	ND	ND	Exterior Caulk (White) Between White Marble Ceiling Panels – Ellicott Street Bridge
250527-PCB-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	Exterior Caulk (Beige) Between New White Marble Panels – Elevator Shaft at Ellicott Street

Results Abbreviations

ND = No PCBs Detected

Bold rows indicate PCB ≥ 50 ppm limit

Units

mg/kg = milligram per kilogram

ppm = parts per million

A drawing depicting the approximate PCB sample locations is included in Section 3.1 of this report. It is the belief of Watts that this investigation has identified all suspect PCB-containing materials that will be disturbed by the proposed project. However, if additional suspect materials are identified that have not been previously sampled or sampled as part of this assessment, samples of each material should be collected and analyzed for PCB content.

The following table identifies the samples that were collected, the sample description and laboratory results.

Sample #	PCB Concentration (mg/kg or ppm)									Material & Sample Location
	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	
01	ND	ND	ND	ND	ND	51.0 ppm	ND	ND	ND	Caulk Between Exterior Granite Panels
02	ND	ND	ND	ND	ND	8,250 ppm	ND	ND	ND	Caulk Between Exterior Marble Panels
03	ND	ND	ND	ND	ND	950.0 ppm	ND	ND	ND	Black Caulk Between Metal Mullions and Black Stone Panels, Bridge over Ellicott Street
04	ND	ND	ND	ND	ND	36.0 ppm	ND	ND	ND	Black Caulk Between Edges of Black Stone Panels, Bridge over Ellicott Street

Samples prefixed "12152-PCB-"
Bold: Concentration exceeds 50 ppm (50 mg/kg) ppm = parts per million1 mg/kg = 1,000 ug/kg ND = not detected

Observations

The asbestos-containing flashing beneath the top edge of the granite panel at the proposed elevator location was where the building façade protrudes out from the building wall, forming a narrow ledge. The asbestos-containing flashing may extend beneath the edge of all panels that extend out from the buidlng exteirior.

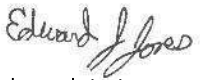
The asbestos-containg black tar on both sides of the copper flashing and the asbestos-containing fabric and black tar on the underlying concrete beneath the flashing was observed behind the stine panels below the floor deck level on the bridge over Ellicott Street. All of the black tar and fabric on concrete behind the copper flashing and the the black stone panels on the library bridge should be considered to be asbestos-containing materials.

Samples of the caulks between the exterior granite panels and exterior white marble panels, and the black caulk between the exterior black stone panels on the library bridge over Ellicott Street are all contained PCBs greater than 50 ppm. Samples were obtained on exterior panels at locations that are representative of the proposed elevator location. Although one caulk sample was less than 50 ppm, it is clear from the results that PCBs were used as an additive. Therefore, we recommend the all exterior caulk between the granite and white marble panels and the black stone panels on the bridge over Ellicott Street be assumed to contain PCBs greater than 50 ppm.

The laboratory analytical reports, chain-of-custody forms, laboratory accreditations and Watts' license and certifications are attached. Should you have any questions or need additional information, please contact me at (716) 206-5142.

Sincerely,

WATTS ARCHITECTURE & ENGINEERING



Edward J. Jones
Environmental Consultant

4.0 – INSPECTION PHOTOGRAPHS



Photo 1: View of the West Building main entrance plaza. Window caulk, black panel and red panel caulk were determined to be PCB-containing. Black caulk associated with the plaza level retaining walls and planters is asbestos-containing.



Photo 2: Closeup view of a window system. Window frame caulk (red arrow), window glazing caulk (yellow arrow) and caulk between window frames and sashes (purple arrow) are all PCB-containing.



Photo 3: View of the library bridge over Ellicott Street. Black caulk at black granite panels, caulk along metal mullions, and window caulk are all PCB-containing.



Photo 4: View of a removed stone panel. Asbestos-containing black asphaltic flashing and tar coated copper through wall flashing was <u>not</u> disturbed by the panel removal. Panel mortar is non-ACM.



Photo 5: View of the West Building planter / retaining wall. Black caulk is both asbestos-containing and PCB-containing.



Photo 6: View of Ellicott Street under the library bridge. White caulk associated with the white marble ceiling panels was determined to be non-ACM and non-PCB.

5.0 – LABORATORY ACCREDITATIONS

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. CORY M. PARNELL
AMERISCI RICHMOND
13635 GENITO RD
MIDLOTHIAN, VA 23112

NY Lab Id No: 10984

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos in Friable Material	Item 198.1 of Manual
	EPA 600/M4/82/020
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	Item 198.4 of Manual
Asbestos-Vermiculite-Containing Mate	Item 198.8 of Manual

Serial No.: 72018

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/, by phone (518) 485-5570 or by email to elap@health.ny.gov.

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 101904-0

AmeriSci Richmond

Midlothian, VA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique on ISO/IEC 17025).

2025-07-01 through 2026-06-30

Effective Dates

For the National Voluntary Laboratory Accreditation Program

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

AmeriSci Richmond
dba AmeriSci Richmond
13635 Genito Road
Midlothian, VA 23112
Cory M. Parnell
Phone: 804-763-1200
Email: cparnell@amerisci.com
http://www.amerisci.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101904-0

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code	*Description*
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

Effective 2025-07-01 through 2026-06-30

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. FAYEZ ABOUZAKI
SCHNEIDER LABORATORIES GLOBAL, INC
2512 WEST CARY STREET
RICHMOND, VA 23220-5117

NY Lab Id No: 11413

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Metals III

Thallium, Total	EPA 6010D
Tin, Total	EPA 6010D
Titanium, Total	EPA 6010D

Nitroaromatics and Isophorone

2,4-Dinitrotoluene	EPA 8270D
Nitrobenzene	EPA 8270D

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
Aroclor 1221 (PCB-1221)	EPA 8082A
Aroclor 1232 (PCB-1232)	EPA 8082A
Aroclor 1242 (PCB-1242)	EPA 8082A
Aroclor 1248 (PCB-1248)	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A

Polynuclear Aromatics

Acenaphthene	EPA 8270D
Anthracene	EPA 8270D
Benzo(a)anthracene	EPA 8270D
Benzo(a)pyrene	EPA 8270D
Benzo(b)fluoranthene	EPA 8270D
Benzo(g,h,i)perylene	EPA 8270D
Benzo(k)fluoranthene	EPA 8270D
Chrysene	EPA 8270D
Dibenzo(a,h)anthracene	EPA 8270D

Serial No.: 72102

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/, by phone (518) 485-5570 or by email to elap@health.ny.gov.

6.0 – CONSULTANT'S LICENSES AND CERTIFICATIONS

WE ARE YOUR DOL

NEW YORK STATE | Department of Labor

DIVISION OF SAFETY & HEALTH LICENSE AND CERTIFICATE UNIT, STATE OFFICE CAMPUS, BLDG. 12, ALBANY, NY 12226

ASBESTOS HANDLING LICENSE

Watts Architecture & Engineering, D.P.C.
95 Perry Street, Suite 300, Buffalo, NY, 14203

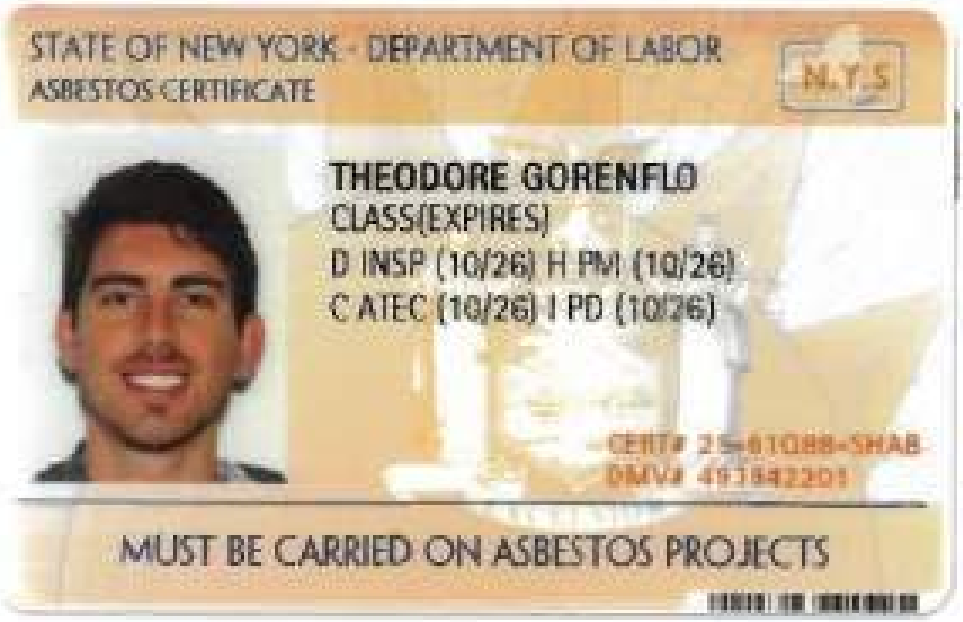
License Number: 68007
License Class: RESTRICTED
Date of Issue: 08/21/2025
Expiration Date: 09/30/2026
Duly Authorized Representative: Kevin Janik

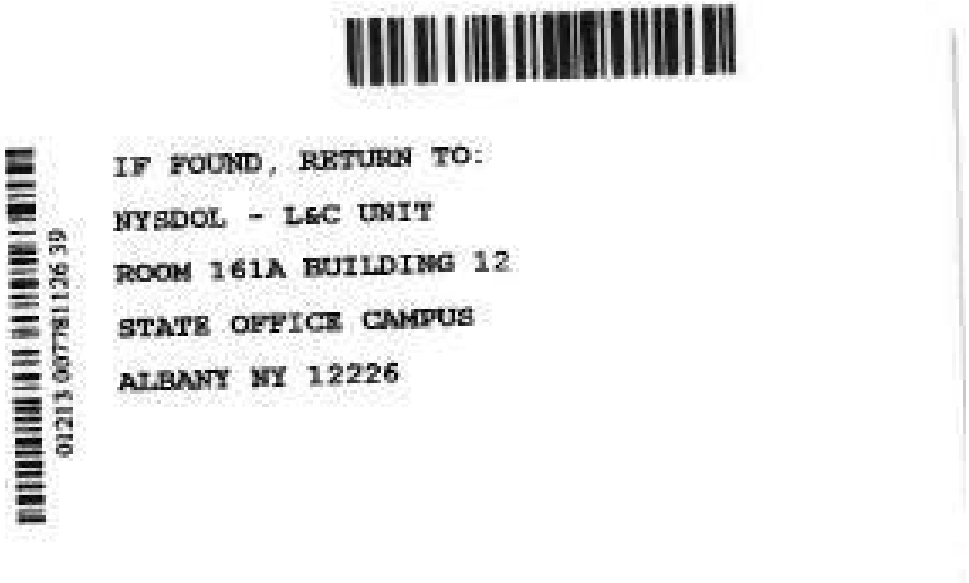
This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Amy Phillips, Director
For the Commissioner of Labor

EXCELSIOR





Theodore Gorenflo

C – Air Sampling Technician
D - Inspector
H – Project Monitor
I – Project Designer

7.0 – LABORATORY DATA FROM PRIOR TESTING

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

PLM Bulk Asbestos Report

Watts Architecture & Engineers
Attn: Jerry Grady
95 Perry Street
Suite 300
Buffalo, NY 14203

Date Received 05/10/21
Date Examined 05/12/21
ELAP # 10984
AmeriSci Job # 121051322
P.O. #
Page 1 **of** 3
RE: 21075; Buffalo & Erie County Public Library - Exterior Renovations; Buffalo, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
21075-01	121051322-01	*No*	NAD

Location: Black Caulk In Seams Of Wall Panels; Exterior Plaza

(by NYS ELAP 198.6)
by C. David Mintz
on 05/12/21

Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 31.4%
Comment: Heat Sensitive (organic): 35.8%; Acid Soluble (inorganic): 32.8%; Inert (Non-asbestos): 31.4%

21075-02	121051322-02	*Yes*	1.9%

Location: Black Caulk In Seams Of Wall Panels; Exterior Plaza

(by NYS ELAP 198.6)
by C. David Mintz
on 05/12/21

Analyst Description: Black, Homogeneous, Fibrous, Bulk Material
Asbestos Types: Chrysotile 1.9 %
Other Material: Non-fibrous 18.3%
Comment: Heat Sensitive (organic): 69.4%; Acid Soluble (inorganic): 10.4%; Inert (Non-asbestos): 18.3%

21075-03	121051322-03	*No*	NAD

Location: Grey Caulk At Intersection Between Wall Panels And Sidewalk; Exterior Plaza

(by NYS ELAP 198.6)
by C. David Mintz
on 05/12/21

Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 30.6%
Comment: Heat Sensitive (organic): 31.7%; Acid Soluble (inorganic): 37.7%; Inert (Non-asbestos): 30.6%

21075-04	121051322-04	*No*	NAD

Location: Grey Caulk At Intersection Between Wall Panels And Sidewalk; Exterior Plaza

(by NYS ELAP 198.6)
by C. David Mintz
on 05/12/21

Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 35.4%
Comment: Heat Sensitive (organic): 25.4%; Acid Soluble (inorganic): 39.2%; Inert (Non-asbestos): 35.4%

See Reporting notes on last page

PLM Bulk Asbestos Report

21075; Buffalo & Erie County Public Library - Exterior Renovations; Buffalo, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
21075-05	121051322-05	***No***	NAD (by NYS ELAP 198.1) by C. David Mintz on 05/12/21
Location: Waterproofing Cement; Exterior Plaza			
Analyst Description: Gray, Homogeneous, Non-Fibrous, Cementitious, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100%			
21075-06	121051322-06	***No***	NAD [1] (by NYS ELAP 198.1) by C. David Mintz on 05/12/21
Location: Waterproofing Cement; Exterior Plaza			
Analyst Description: Gray, Homogeneous, Non-Fibrous, Cementitious, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100%			
21075-07	121051322-07	***No***	NAD (by NYS ELAP 198.6) by C. David Mintz on 05/12/21
Location: Flashing Caulk; Chimney			
Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 26.1%			
Comment: Heat Sensitive (organic): 57.1%; Acid Soluble (inorganic): 16.8%; Inert (Non-asbestos): 26.1%			
21075-08	121051322-08	***No***	NAD (by NYS ELAP 198.6) by C. David Mintz on 05/12/21
Location: Flashing Caulk; Chimney			
Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 25.3%			
Comment: Heat Sensitive (organic): 57.5%; Acid Soluble (inorganic): 17.1%; Inert (Non-asbestos): 25.3%			
21075-09	121051322-09	***No***	NAD (by NYS ELAP 198.6) by C. David Mintz on 05/12/21
Location: Black Caulk On Flashing; Chimney			
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 10.1%			
Comment: Heat Sensitive (organic): 87.1%; Acid Soluble (inorganic): 2.8%; Inert (Non-asbestos): 10.1%			

See Reporting notes on last page

PLM Bulk Asbestos Report

21075; Buffalo & Erie County Public Library - Exterior Renovations; Buffalo, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
21075-10	121051322-10	***No***	NAD (by NYS ELAP 198.6) by C. David Mintz on 05/12/21

Location: Black Caulk On Flashing; Chimney

Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 8.3%
Comment: Heat Sensitive (organic): 89.9%; Acid Soluble (inorganic): 1.8%; Inert (Non-asbestos): 8.3%

21075-11	121051322-11	***No***	NAD (by NYS ELAP 198.6) by C. David Mintz on 05/12/21

Location: Grey Caulk On Ends Of Chimney Flashing; Chimney

Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 11.1%
Comment: Heat Sensitive (organic): 44.5%; Acid Soluble (inorganic): 44.4%; Inert (Non-asbestos): 11.1%

21075-12	121051322-12	***No***	NAD (by NYS ELAP 198.6) by C. David Mintz on 05/12/21

Location: Grey Caulk On Ends Of Chimney Flashing; Chimney

Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: Non-fibrous 17.9%
Comment: Heat Sensitive (organic): 44.3%; Acid Soluble (inorganic): 37.9%; Inert (Non-asbestos): 17.9%

Reporting Notes:

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

Analyzed by: C. David Mintz C David Mintz Reviewed by: Cory M. Parnell
Date: 5/12/2021

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

Client Name: Watts Architecture & Engineers

Table I
Summary of Bulk Asbestos Analysis Results

21075; Buffalo & Erie County Public Library - Exterior Renovations; Buffalo, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	21075-01		0.279	35.8	32.8	31.4	NAD	NAD
Location: Black Caulk In Seams Of Wall Panels; Exterior Plaza								
02	21075-02		0.285	69.4	10.4	18.3	Chrysotile 1.9	NA
Location: Black Caulk In Seams Of Wall Panels; Exterior Plaza								
03	21075-03		0.244	31.7	37.7	30.6	NAD	NAD
Location: Grey Caulk At Intersection Between Wall Panels And Sidewalk; Exterior Plaza								
04	21075-04		0.449	25.4	39.2	35.4	NAD	NAD
Location: Grey Caulk At Intersection Between Wall Panels And Sidewalk; Exterior Plaza								
05	21075-05		----	----	----	----	NAD	NA
Location: Waterproofing Cement; Exterior Plaza								
06	21075-06		----	----	----	----	NAD	NA
Location: Waterproofing Cement; Exterior Plaza								
07	21075-07		0.469	57.1	16.8	26.1	NAD	NAD
Location: Flashing Caulk; Chimney								
08	21075-08		0.408	57.5	17.1	25.3	NAD	NAD
Location: Flashing Caulk; Chimney								
09	21075-09		0.265	87.1	2.8	10.1	NAD	NAD
Location: Black Caulk On Flashing; Chimney								
10	21075-10		0.331	89.9	1.8	8.3	NAD	NAD
Location: Black Caulk On Flashing; Chimney								
11	21075-11		0.252	44.5	44.4	11.0	NAD	Chrysotile Trace
Location: Grey Caulk On Ends Of Chimney Flashing; Chimney								
12	21075-12		0.289	44.3	37.9	17.9	NAD	NAD
Location: Grey Caulk On Ends Of Chimney Flashing; Chimney								

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results

21075; Buffalo & Erie County Public Library - Exterior Renovations; Buffalo, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM

Analyzed by: Cory M. Parnell

Reviewed by: Cory M. Parnell

Date: 5/13/2021

Semi-Quantitative Analysis: NAD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed due to positive stop; Trace = <1%; PLM analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) or NY ELAP 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NY ELAP Lab # 10984); TEM prep by EPA 600/R-93/116 Section 2.3 (analysis by Section 2.5, not covered by NVLAP Bulk accreditation); or NY ELAP 198.4 for New York NOB samples (NY ELAP Lab # 10984). Analysis using Jeol, Model JEM-100CX II microscope, Serial #156147-247. ** Warning Notes: Consider PLM fiber diameter limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris, soils or other heterogeneous materials for which a combination PLM/TEM evaluation is recommended; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only.

121051322

WATTS ARCHITECTURE & ENGINEERING
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

Client: Trautman Associates
Project: Buffalo & Erie County Public Library - Exterior Renovations
Building / Location: Buffalo, NY
Email: Jerry Grady at jgrady@watts-ae.com
Fax Preliminary Results to: (716) 206-5199
Mail Report & Invoice to: Watts Architecture & Engineering
95 Perry Street, Suite 300, Buffalo, NY 14203

Date: 5/6/2021
Watts Project No.: 21075

Turnaround Requested: ___ 3 Hr. ___ 48 Hr.
Analysis Requested: ___ 6 Hr. ___ 72 Hr.
PLM x TEM x ___ 12 Hr. x 5 Day
___ 24 Hr. ___ 6-10 Day

21075-01	Black Caulk in Seams of Wall Panels	Exterior Plaza		
21075-02	Black Caulk in Seams of Wall Panels	Exterior Plaza		
21075-03	Grey Caulk at intersection between Wall Panels and Sidewalk	Exterior Plaza		
21075-04	Grey Caulk at intersection between Wall Panels and Sidewalk	Exterior Plaza		
21075-05	Waterproofing Cement	Exterior Plaza		
21075-06	Waterproofing Cement	Exterior Plaza		
21075-07	Flashing Caulk	Chimney		
21075-08	Flashing Caulk	Chimney		
21075-09	Black Caulk on Flashing	Chimney		
21075-10	Black Caulk on Flashing	Chimney		
21075-11	Grey Caulk on ends of Chimney Flashing	Chimney		
21075-12	Grey Caulk on ends of Chimney Flashing	Chimney		
21075-13				

Sampled By: Jerry Grady Date: 4/6/21 Received By: ___ Date: ___
Relinquished By: Jerry Grady Date: 4/7/21 Received By: ___ Date: ___
Comments:

RECEIVED
MAY 10 2021
By

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: BECPL Exterior
Location: Buffalo, NY
Number: 21075

Order #: 418038

Matrix Bulk
Received 05/10/21
Reported 05/12/21

PO Number: 7628

Sample ID / Parameter	Cust. Sample ID	Location / Method	Result	RL*	Units	Analysis Date	Analyst
418038-001	21075-PCB-01	Wall Panel Caulk					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A	**<476**	476	µg/kg	05/10/21	AE
Aroclor - 1221		SW846 8082A	**<476**	476	µg/kg	05/10/21	AE
Aroclor - 1232		SW846 8082A	**<476**	476	µg/kg	05/10/21	AE
Aroclor - 1242		SW846 8082A	**<476**	476	µg/kg	05/10/21	AE
Aroclor - 1248		SW846 8082A	**<476**	476	µg/kg	05/10/21	AE
Aroclor - 1254		SW846 8082A	**767**	476	µg/kg	05/10/21	AE
Aroclor - 1260		SW846 8082A	**<476**	476	µg/kg	05/10/21	AE
Aroclor - 1262		SW846 8082A	**<476**	476	µg/kg	05/10/21	AE
Aroclor - 1268		SW846 8082A	**<476**	476	µg/kg	05/10/21	AE
PCB - Surrogate Recoveries							
DCB		MI					
TCMX		MI					
418038-002	21075-PCB-02	Sidewalk Caulk					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A	**<4320**	4320	µg/kg	05/10/21	AE
Aroclor - 1221		SW846 8082A	**<4320**	4320	µg/kg	05/10/21	AE
Aroclor - 1232		SW846 8082A	**<4320**	4320	µg/kg	05/10/21	AE
Aroclor - 1242		SW846 8082A	**<4320**	4320	µg/kg	05/10/21	AE
Aroclor - 1248		SW846 8082A	**<4320**	4320	µg/kg	05/10/21	AE
Aroclor - 1254		SW846 8082A	**9670**	4320	µg/kg	05/10/21	AE
Aroclor - 1260		SW846 8082A	**<4320**	4320	µg/kg	05/10/21	AE
Aroclor - 1262		SW846 8082A	**<4320**	4320	µg/kg	05/10/21	AE
Aroclor - 1268		SW846 8082A	**<4320**	4320	µg/kg	05/10/21	AE
PCB - Surrogate Recoveries							
DCB		D					
TCMX		D					

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results reported relate only to the samples submitted.

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: BECPL Exterior
Location: Buffalo, NY
Number: 21075

Order #: 418038

Matrix Bulk
Received 05/10/21
Reported 05/12/21

PO Number: 7628

Sample ID / Parameter	Cust. Sample ID	Location / Method	Result	RL*	Units	Analysis Date	Analyst
418038-003	21075-PCB-03	Flashing Caulk					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A	**<452**	452	µg/kg	05/10/21	AE
Aroclor - 1221		SW846 8082A	**<452**	452	µg/kg	05/10/21	AE
Aroclor - 1232		SW846 8082A	**<452**	452	µg/kg	05/10/21	AE
Aroclor - 1242		SW846 8082A	**<452**	452	µg/kg	05/10/21	AE
Aroclor - 1248		SW846 8082A	**<452**	452	µg/kg	05/10/21	AE
Aroclor - 1254		SW846 8082A	**<452**	452	µg/kg	05/10/21	AE
Aroclor - 1260		SW846 8082A	**<452**	452	µg/kg	05/10/21	AE
Aroclor - 1262		SW846 8082A	**<452**	452	µg/kg	05/10/21	AE
Aroclor - 1268		SW846 8082A	**<452**	452	µg/kg	05/10/21	AE
PCB - Surrogate Recoveries							
DCB		140%					
TCMX		87%					
418038-004	21075-PCB-04	Black Caulk On Flashing					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A	**<443**	443	µg/kg	05/10/21	AE
Aroclor - 1221		SW846 8082A	**<443**	443	µg/kg	05/10/21	AE
Aroclor - 1232		SW846 8082A	**<443**	443	µg/kg	05/10/21	AE
Aroclor - 1242		SW846 8082A	**<443**	443	µg/kg	05/10/21	AE
Aroclor - 1248		SW846 8082A	**1230**	443	µg/kg	05/10/21	AE
Aroclor - 1254		SW846 8082A	**<443**	443	µg/kg	05/10/21	AE
Aroclor - 1260		SW846 8082A	**<443**	443	µg/kg	05/10/21	AE
Aroclor - 1262		SW846 8082A	**<443**	443	µg/kg	05/10/21	AE
Aroclor - 1268		SW846 8082A	**<443**	443	µg/kg	05/10/21	AE
PCB - Surrogate Recoveries							
DCB		MI					
TCMX		MI					

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results reported relate only to the samples submitted.

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: BECPL Exterior
Location: Buffalo, NY
Number: 21075

Order #: 418038

Matrix Bulk
Received 05/10/21
Reported 05/12/21

PO Number: 7628

Sample ID / Parameter	Cust. Sample ID / Method	Result	RL*	Units	Analysis Date	Analyst
418038-005	21075-PCB-05 / Grey Caulk On Flashing					
Semi-volatile Organic Compounds						
Aroclor - 1016	SW846 8082A	**<448**	447	µg/kg	05/10/21	AE
Aroclor - 1221	SW846 8082A	**<448**	447	µg/kg	05/10/21	AE
Aroclor - 1232	SW846 8082A	**<448**	447	µg/kg	05/10/21	AE
Aroclor - 1242	SW846 8082A	**<448**	447	µg/kg	05/10/21	AE
Aroclor - 1248	SW846 8082A	**<448**	447	µg/kg	05/10/21	AE
Aroclor - 1254	SW846 8082A	**<448**	447	µg/kg	05/10/21	AE
Aroclor - 1260	SW846 8082A	**<448**	447	µg/kg	05/10/21	AE
Aroclor - 1262	SW846 8082A	**<448**	447	µg/kg	05/10/21	AE
Aroclor - 1268	SW846 8082A	**<448**	447	µg/kg	05/10/21	AE
PCB - Surrogate Recoveries						
DCB	114%					
TCMX	74%					

418038-05/12/21 01:21 PM

Reviewed By: **Jennifer Lee**
Manager

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results reported relate only to the samples submitted.

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: BECPL Exterior
Location: Buffalo, NY
Number: 21075

Order #: 418038

Matrix Bulk
Received 05/10/21
Reported 05/12/21

PO Number: 7628

Sample ID / Parameter	Cust. Sample ID / Method	Location	Result	RL*	Units	Analysis Date	Analyst

State Certifications

Method	Parameter	New York	Virginia
SW846 8082A	Aroclor - 1016	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1221	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1232	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1242	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1248	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1254	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1260	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1262	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1268	ELAP Certified	VELAP Certified

State	Certificate Number
New York	ELAP 61372
Virginia	VELAP 11259

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results reported relate only to the samples submitted.

O 5

SCHNEIDER LABORATORIES GLOBAL, INC.
2512 West Cary Street, Richmond, Virginia 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabinc.com • info@slabinc.com

418038
V:\418\418038
fghraizi 5/10/2021 10:00:24 AM
UPS 1Z2E28998468502711

Submitting Co.	Watts A & E	State of Collection	NY	Cert. Required	☐ YES ☐ NO
95 Perry Street, Suite 300		Acct #	4637	Phone	716.435.1849
Buffalo, NY 14203		Email	jgrady@watts-ae.com		
Project Name	BECPL Exterior	PO #			
Project Location	Buffalo, NY	Special Instructions			
Project Number	21075				
Collected By	Jerry Grady				

Turn Around Time **

- ☐ Same day *
- ☐ 1 business day
- ☐ 2 business days
- ☐ 3 business days
- ☒ 5 business days

* not available for all tests

** A job received past 3 PM will begin its TAT the next business day

Please schedule rush tests in advance

Matrix

- ☐ Paint
- ☒ Bulk
- ☐ Soil
- ☐ Wipe
- ☐ Ground Water
- ☐ Waste Water

Test selection for all Samples listed below (Circle desired method)

- ☐ VOC (8260/624)
- ☐ SVOC (8270/625)
- ☐ Pesticides (8081/608)
- ☐ Herbicides (8151)
- ☐ Chlordane (8081/608)
- ☐ Toxaphene (8081/608)
- ☒ PCB (8082)
- ☐ TPH-DRO (8015)
- ☐ TPH-GRO (8015)
- ☐ BTEX (8260/8021)
- ☐ MTBE (8260/8021)
- ☐ Naphthalene (8260/8270)

TCLP

- ☐ Volatiles
- ☐ Semi-Volatiles
- ☐ Herbicides
- ☐ Pesticides
- ☐ Full TCLP (10 Day)

Miscellaneous

- ☐ Chlorides (300/9056)
- ☐ Silica (7602)
- ☐ Sulfates (300/9056)
- ☐ PAH (8270/625)
- ☐ Oil and Grease (1664)
- ☐ TPH (EPA 418.1)

Individual Sample Requests

Sample #	Date Sampled	Time Sampled	# of Containers	Sample Identification	Wipe Area
21075-PCB-01	5/5/21	1310	1	Wall Panel Caulk	
21075-PCB-02	5/5/21	1315	1	Sidewalk Caulk	
21075-PCB-03	5/5/21	1330	1	Flashing Caulk	
21075-PCB-04	5/5/21	1335	1	Black Caulk on Flashing	
21075-PCB-05	5/5/21	1340	1	Grey Caulk on Flashing	

For Aqueous and Solid samples ensure enough sample is sent for duplicate and spike analyses

Relinquished By: Jerry Grady Signature: Jerry Grady Date/Time 5/7/21 1200

! ALL SHADED FIELDS MUST BE FILLED TO AVOID DELAYS !

Chain-of-Custody documentation continued internally

EMSL Analytical, Inc.
490 Rowley Road, Depew, NY 14043
Phone/Fax: (716) 651-0030 / (716) 651-0394
http://www.EMSL.com buffalolab@emsl.com

EMSL Order: 141600168
CustomerID: WATT50
CustomerPO:
ProjectID:

Attn: **Edward Jones**
Watts Architecture & Engineering
95 Perry Street
Suite 300
Buffalo, NY 14203

Phone: (716) 206-5100
Fax: (716) 206-5199
Received: 01/15/16 4:12 PM
Analysis Date: 1/20/2016
Collected: 1/15/2016

Project: **12152 Phase 03 / Buffalo & Erie County Library Elevator**

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non Asbestos: Fibrous	Non Asbestos: Non-Fibrous	Asbestos
Sample ID 1215203-22 *141600168-0001*		**Description** black caulk between metal frame and - black stone panels **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	1/19/2016	Black			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	1/20/2016	Black			**None Detected**
Sample ID 1215203-23 *141600168-0002*		**Description** black caulk between metal frame and - black stone panels **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	1/19/2016	Black			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	1/20/2016	Black			**None Detected**
Sample ID 1215203-24 *141600168-0003*		**Description** thin set behind black stone panels - on underlying mortar **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	1/19/2016	Gray		100.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 1215203-25 *141600168-0004*		**Description** thin set behind black stone panels - on underlying mortar **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	1/19/2016	Gray		100.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 1215203-26 *141600168-0005*		**Description** black caulk between edges of black - stone panels **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	1/19/2016	Black			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	1/20/2016	Black			**None Detected**

Initial Report From 01/21/2016 11:07:21

EMSL Analytical, Inc.
490 Rowley Road, Depew, NY 14043
Phone/Fax: (716) 651-0030 / (716) 651-0394
http://www.EMSL.com buffalolab@emsl.com

EMSL Order: 141600168
CustomerID: WATT50
CustomerPO:
ProjectID:

Test Report:Asbestos Analysis of Bulk Material

Test		Color	Non Asbestos Fibrous / Non-Fibrous	Asbestos
Sample ID 1215203-27 *141600168-0006*		**Description** black caulk between edges of black - stone panels **Homogeneity** Homogeneous		
PLM NYS 198.1 Friable				**Not Analyzed**
PLM NYS 198.6 VCM				**Not Analyzed**
PLM NYS 198.6 NOB	1/19/2016	Black		**Inconclusive: None Detected**
TEM NYS 198.4 NOB	1/20/2016	Black		**None Detected**
Sample ID 1215203-28 *141600168-0007*		**Description** black asphaltic flashing on - copper flashing **Homogeneity** Homogeneous		
PLM NYS 198.1 Friable				**Not Analyzed**
PLM NYS 198.6 VCM				**Not Analyzed**
PLM NYS 198.6 NOB	1/19/2016	Tan/Black		**5.4% Chrysotile** **5.4% Total**
TEM NYS 198.4 NOB	1/20/2016			**Not Analyzed**
Sample ID 1215203-29 *141600168-0008*		**Description** black asphaltic flashing on - copper flashing **Homogeneity**		
PLM NYS 198.1 Friable				**Not Analyzed**
PLM NYS 198.6 VCM				**Not Analyzed**
PLM NYS 198.6 NOB	1/19/2016			**Positive Stop (Not Analyzed)**
TEM NYS 198.4 NOB	1/20/2016			**Not Analyzed**
Sample ID 1215203-30 *141600168-0009*		**Description** black asphaltic flashing behind - copper flashing **Homogeneity** Homogeneous		
PLM NYS 198.1 Friable				**Not Analyzed**
PLM NYS 198.6 VCM				**Not Analyzed**
PLM NYS 198.6 NOB	1/19/2016	Black		**3.0% Chrysotile** **3.0% Total**
TEM NYS 198.4 NOB	1/20/2016			**Not Analyzed**
Sample ID 1215203-31 *141600168-0010*		**Description** black asphaltic flashing behind - copper flashing **Homogeneity**		
PLM NYS 198.1 Friable				**Not Analyzed**
PLM NYS 198.6 VCM				**Not Analyzed**
PLM NYS 198.6 NOB	1/19/2016			**Positive Stop (Not Analyzed)**
TEM NYS 198.4 NOB	1/20/2016			**Not Analyzed**
Sample ID 1215203-32 *141600168-0011*		**Description** black tar and fabric, on concrete behind - copper flashing **Homogeneity** Homogeneous		
PLM NYS 198.1 Friable				**Not Analyzed**
PLM NYS 198.6 VCM				**Not Analyzed**
PLM NYS 198.6 NOB	1/19/2016	Black		**24.9% Chrysotile** **24.9% Total**
TEM NYS 198.4 NOB	1/21/2016			**Not Analyzed**

Initial Report From 01/21/2016 11:07:21

EMSL Analytical, Inc.
490 Rowley Road, Depew, NY 14043
Phone/Fax: (716) 651-0030 / (716) 651-0394
http://www.EMSL.com buffalolab@emsl.com

EMSL Order: 141600168
CustomerID: WATT50
CustomerPO:
ProjectID:

Test Report:Asbestos Analysis of Bulk Material

Test			Color	Non Asbestos Fibrous	Non Asbestos Non-Fibrous	Asbestos
Sample ID	1215203-33 *141600168-0012*		**Description** **Homogeneity**	black tar and fabric, on concrete behind - copper flashing		
PLM NYS 198.1 Friable						**Not Analyzed**
PLM NYS 198.6 VCM						**Not Analyzed**
PLM NYS 198.6 NOB		1/19/2016				**Positive Stop (Not Analyzed)**
TEM NYS 198.4 NOB		1/21/2016				**Not Analyzed**
Sample ID	1215203-34 *141600168-0013*		**Description** **Homogeneity**	yellow fibrous packing at metal lip - base of concrete Homogeneous		
PLM NYS 198.1 Friable		1/19/2016	Black/Yellow	90.00% Cellulose 10.00% Glass	0.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM						**Not Analyzed**
PLM NYS 198.6 NOB						**Not Analyzed**
TEM NYS 198.4 NOB						**Not Analyzed**
Sample ID	1215203-35 *141600168-0014*		**Description** **Homogeneity**	yellow fibrous packing at metal lip - base of concrete Homogeneous		
PLM NYS 198.1 Friable		1/19/2016	Black/Yellow	100.00% Cellulose	0.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM						**Not Analyzed**
PLM NYS 198.6 NOB						**Not Analyzed**
TEM NYS 198.4 NOB						**Not Analyzed**

Analyst(s)
Mark Tate
Shauna Strnad

Rhonda McGee

Rhonda McGee, Laboratory Manager
or other approved signatory

NOB = Non Friable Organically Bound N/A = Not Applicable VCM = Vermiculite Containing Material

-In New York State, TEM is currently the only method that can be used to determine if NOB materials can be considered or treated as non-asbestos containing.
All samples examined for the presence of vermiculite when analyzed via NYS 198.1.
-NYS Guidelines for Vermiculite containing samples are available at http://www.wadsworth.org/labcert/elapcert/forms/VermiculiteInterimGuidance_Rev070913.pdf
EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples were received in good condition unless otherwise noted.
This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. This report may contain data that is not covered by the NVLAP accreditation.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606

Initial Report From 01/21/2016 11:07:21

WATTS ARCHITECTURE & ENGINEERING
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

1416600168

Page: 1 of 1

Client: Hamilton Huston Lownie, LLC
Date: Friday 01/15/2016
Project: Buffalo & Erie County Library Elevator
Watts Project No.: 12152 Phase 03
Building / Location: Main Library, Buffalo, NY
Contact: Edward J. Jones at (716) 206-5142
Preliminary Results to: ejones@watts-ae.com
Mail Report & Invoice to: Watts Architecture & Engineering, 95 Perry Street, Buffalo, NY 14203

Analysis Requested:
198.1 x 198.6 x 198.4 x

Turnaround Requested:

	3 Hr.		48 Hr.
	6 Hr.		72 Hr.
	12 Hr.		4 Day
	24 Hr.		5 Day
X	7 Day	1 WEEK	

Sample Number	Material Description	HA	Location		
1215203-22	Black caulk between metal frame and black stone panels	1	North side of library bridge over Ellicott Street, lowest panel		
1215203-23	Black caulk between metal frame and black stone panels	1	North side of library bridge over Ellicott Street, lowest panel		
1215203-24	Thin set behind black stone panels, on underlying mortar	2	North side of library bridge over Ellicott Street, lowest panel, below window		
1215203-25	Thin set behind black stone panels, on underlying mortar	2	North side of library bridge over Ellicott Street, lowest panel, below window		
1215203-26	Black caulk between edges of black stone panels	3	North side of library bridge over Ellicott Street, between lowest row panels		
1215203-27	Black caulk between edges of black stone panels	3	North side of library bridge over Ellicott Street, between lowest row panels		
1215203-28	Black asphaltic flashing on copper flashing	4	North side of library bridge over Ellicott Street, behind mortar, on copper flashing on concrete		
1215203-29	Black asphaltic flashing on copper flashing	4	North side of library bridge over Ellicott Street, behind mortar, on copper flashing on concrete		
1215203-30	Black asphaltic flashing behind copper flashing	5	North side of library bridge over Ellicott Street, behind mortar, behind copper flashing on concrete		
1215203-31	Black asphaltic flashing behind copper flashing	5	North side of library bridge over Ellicott Street, behind mortar, behind copper flashing on concrete		
1215203-32	Black tar and fabric, on concrete behind copper flashing	6	North side of library bridge over Ellicott Street, behind mortar, on concrete, behind copper flashing		
1215203-33	Black tar and fabric, on concrete behind copper flashing	6	North side of library bridge over Ellicott Street, behind mortar, on concrete, behind copper flashing		
1215203-34	Yellow fibrous packing at metal lip, base of concrete	7	North side of library bridge over Ellicott Street, behind mortar, copper & black tar flashing		
1215203-35	Yellow fibrous packing at metal lip, base of concrete	7	North side of library bridge over Ellicott Street, behind mortar, copper & black tar flashing		

RECEIVED
JAN 15 2016

Sampled By: Edward J. Jones **Date:** 01/15/16 **Received By:** _____ **Date:** _____ BY: _____

Relinquished By: Edward J. Jones **Date:** 01/15/16 12:00 **Received By:** _____ **Date:** _____ 4:15pm

Comments: If PLM NOB is negative, analyze by TEM. Stop at first positive for each homogeneous material description group.

OrderID: 141600168

EMSL Analytical, Inc.
490 Rowley Road, Depew, NY 14043
Phone/Fax: (716) 651-0030 / (716) 651-0394
http://www.EMSL.com buffalolab@emsl.com

EMSL Order: 141505207
CustomerID: WATT50
CustomerPO:
ProjectID:

Attn: **Edward Jones**
Watts Architecture & Engineering
95 Perry Street
Suite 300
Buffalo, NY 14203

Phone: (716) 206-5100
Fax: (716) 206-5199
Received: 12/08/15 3:28 PM
Analysis Date: 12/14/2015
Collected: 12/8/2015

Project: **12152 phase 03 / Buffalo & Erie County Library Elevator: Main Library, Buffalo, NY**

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non Asbestos: Fibrous	Non Asbestos: Non-Fibrous	Asbestos
Sample ID 1215203-14 *141505207-0001*		**Description** **Homogeneity**	black asphaltic flashing Homogeneous		
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	12/11/2015	Black			**8.3% Chrysotile** **8.3% Total**
TEM NYS 198.4 NOB	12/14/2015				**Not Analyzed**
Sample ID 1215203-15 *141505207-0002*		**Description** **Homogeneity**	black asphaltic flashing		
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	12/11/2015				**Positive Stop (Not Analyzed)**
TEM NYS 198.4 NOB	12/14/2015				**Not Analyzed**
Sample ID 1215203-16 *141505207-0003*		**Description** **Homogeneity**	cementitious thin set behind granite panel Homogeneous		
PLM NYS 198.1 Friable	12/14/2015	Gray		100.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 1215203-17 *141505207-0004*		**Description** **Homogeneity**	cementitious thin set behind granite panel Homogeneous		
PLM NYS 198.1 Friable	12/14/2015	Gray		100.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 1215203-18 *141505207-0005*		**Description** **Homogeneity**	brown fibrous joint filler Homogeneous		
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	12/11/2015	Black			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	12/14/2015	Black			**None Detected**

Initial Report From 12/14/2015 21:04:27

EMSL Analytical, Inc.
490 Rowley Road, Depew, NY 14043
Phone/Fax: (716) 651-0030 / (716) 651-0394
http://www.EMSL.com buffalolab@emsl.com

EMSL Order:	141505207
CustomerID:	WATT50
CustomerPO:	
ProjectID:	

Test Report:Asbestos Analysis of Bulk Material

Test		Color	Non Asbestos Fibrous	Non-Fibrous	Asbestos
Sample ID 1215203-19 *141505207-0006*		**Description** brown fibrous joint filler **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	12/11/2015	Brown			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	12/14/2015	Brown			**None Detected**
Sample ID 1215203-20 *141505207-0007*		**Description** cementitious thin set behind marble panel **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	12/14/2015	Gray		100.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 1215203-21 *141505207-0008*		**Description** cementitious thin set behind marble panel **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	12/14/2015	Gray		100.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**

Analyst(s)

Rhonda McGee

Shauna Strnad

Taron Williams

Rhonda McGee

Rhonda McGee, Laboratory Manager
or other approved signatory

NOB = Non Friable Organically Bound N/A = Not Applicable VCM = Vermiculite Containing Material

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All samples examined for the presence of vermiculite when analyzed via NYS 198.1.
-NYS Guidelines for Vermiculite containing samples are available at http://www.wadsworth.org/labcert/elapcert/forms/VermiculiteInterimGuidance_Rev070913.pdf
EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples were received in good condition unless otherwise noted.
This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. This report may contain data that is not covered by the NVLAP accreditation.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606

Initial Report From 12/14/2015 21:04:27

WATTS ARCHITECTURE & ENGINEERING
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

141505207

Page: 1 of 1

Client: Hamilton Huston Lawnie, LLC
Project: Buffalo & Erie County Library Elevator
Building / Location: Main Library, Buffalo, NY
Contact: Edward J. Jones at (716) 206-5142
Preliminary Results to: ejones@watts-ae.com
Mail Report & Invoice to: Watts Architecture & Engineering
95 Perry Street, Buffalo, NY 14203

Date: TUES 12/08/15
Watts Project No.: 12152 PHASE 03

Turnaround Requested:

___ 3 Hr.	___ 48 Hr.
___ 6 Hr.	___ 72 Hr.
___ 12 Hr.	___ 4 Day
___ 24 Hr.	___ 5 Day
	X 7 Day (1WEEI

Analysis Requested:
198.1 x 198.6 x 198.4 x

Sample Number	Material Description	HA	Sample Location	Laboratory Results PLM	Laboratory Results TEM
1215203-14	Black Asphaltic Flashing	1	west side of Building Test area at Ellicott St, Beneath TOP of Granite panel		
1215203-15	Black Asphaltic Flashing	1	west side of Building Test area at Ellicott St, Beneath TOP of Granite panel		
1215203-16	Cementitious Thinset behind Granite panel	2	west side of Building Test area at Ellicott St, Beneath TOP of Granite panel		
1215203-17	Cementitious Thinset behind Granite panel	2	west side of Building Test area at Ellicott St, on cement behind Granite panel		
1215203-18	Brown Fibrous Joint Filler	3	west side of Building Test area at Ellicott St, on back side of Granite panel		
1215203-19	Brown fibrous Joint Filler	3	west side of Building Test area at Ellicott St, behind Granite panel seam		
1215203-20	Cementitious Thinset behind marble panel	4	west side of Building Test area at Ellicott St, behind Granite panel seam		
1215203-21	Cementitious Thinset behind marble panel	4	west side of Building Test area at Ellicott St, on back side of marble panel		
			west side of Building Test area at Ellicott ST, on cracked tile behind marble panel		

Sampled By: Edward J Jones **Date:** 12/08/15 **Received By:** [signature] **Date:** 12/8/15 3:28 pm

Relinquished By: [signature] **Date:** 12/08/15 14:00 **Received By:** _____ **Date:** _____

Comments: If PLM NOB is negative, analyze by TEM. Stop at first positive for each homogeneous material description group.

OrderID: 141505207

EMSL Analytical, Inc.
490 Rowley Road, Depew, NY 14043
Phone/Fax: (716) 651-0030 / (716) 651-0394
http://www.EMSL.com buffalolab@emsl.com

EMSL Order: 141502278
CustomerID: WATT50
CustomerPO:
ProjectID:

Attn: **Jerry Grady**
Watts Architecture & Engineering
95 Perry Street
Suite 300
Buffalo, NY 14203

Phone: (716) 206-5100
Fax: (716) 206-5199
Received: 06/02/15 3:37 PM
Analysis Date: 6/6/2015
Collected: 5/28/2015

Project: **12152 / Buffalo & Erie County Library Elevator: Main Library Buffalo, NY**

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non Asbestos Fibrous	Non Asbestos Non-Fibrous	Asbestos
Sample ID 1215203-01 *141502278-0001*		**Description** spray-on fireproofing **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	6/6/2015	Gray	70.00% Min. Wool	30.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 1215203-02 *141502278-0002*		**Description** spray-on fireproofing **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	6/6/2015	Gray	70.00% Min. Wool	30.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 1215203-03 *141502278-0003*		**Description** spray-on fireproofing **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	6/6/2015	Gray	70.00% Min. Wool	30.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 1215203-04 *141502278-0004*		**Description** spray-on fireproofing **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	6/6/2015	Gray	70.00% Min. Wool	30.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 1215203-05 *141502278-0005*		**Description** spray-on fireproofing **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	6/6/2015	Gray	70.00% Min. Wool	30.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**

Initial Report From 06/06/2015 16:19:34

EMSL Analytical, Inc.
490 Rowley Road, Depew, NY 14043
Phone/Fax: (716) 651-0030 / (716) 651-0394
http://www.EMSL.com buffalolab@emsl.com

EMSL Order: 141502278
CustomerID: WATT50
CustomerPO:
ProjectID:

Test Report:Asbestos Analysis of Bulk Material

Test		Color	Non Asbestos Fibrous	Non-Fibrous	Asbestos
Sample ID 1215203-06 *141502278-0006*		**Description** spray-on fireproofing **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	6/6/2015	Gray	70.00% Min. Wool	30.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 1215203-07 *141502278-0007*		**Description** spray-on fireproofing **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	6/6/2015	Gray	70.00% Min. Wool	30.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 1215203-08 *141502278-0008*		**Description** granite panel caulk **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	6/4/2015	Black			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	6/6/2015	Black			**None Detected**
Sample ID 1215203-09 *141502278-0009*		**Description** granite panel caulk **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	6/4/2015	Black			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	6/6/2015	Black			**None Detected**
Sample ID 1215203-10 *141502278-0010*		**Description** marble panel caulk **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	6/4/2015	White			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	6/6/2015	White			**None Detected**
Sample ID 1215203-11 *141502278-0011*		**Description** marble panel caulk **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	6/4/2015	White			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	6/6/2015	White			**None Detected**

Initial Report From 06/06/2015 16:19:34

EMSL Analytical, Inc.
490 Rowley Road, Depew, NY 14043
Phone/Fax: (716) 651-0030 / (716) 651-0394
http://www.EMSL.com buffalolab@emsl.com

EMSL Order:	141502278
CustomerID:	WATT50
CustomerPO:	
ProjectID:	

Test Report:Asbestos Analysis of Bulk Material

Test		Color	Non Asbestos Fibrous	Non-Fibrous	Asbestos
Sample ID 1215203-12 *141502278-0012*		**Description** mosaic tile grout/mudset **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	6/6/2015	Gray		100.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 1215203-13 *141502278-0013*		**Description** mosaic tile grout/mudset **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	6/6/2015	Gray		100.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**

Analyst(s)

Kelly Gallisdorfer

Shauna Strnad

Taron Williams

Rhonda McGee

Rhonda McGee, Laboratory Manager
or other approved signatory

NOB = Non Friable Organically Bound N/A = Not Applicable VCM = Vermiculite Containing Material

-In New York State, TEM is currently the only method that can be used to determine if NOB materials can be considered or treated as non-asbestos containing.
All samples examined for the presence of vermiculite when analyzed via NYS 198.1.
-NYS Guidelines for Vermiculite containing samples are available at http://www.wadsworth.org/labcert/elapcert/forms/VermiculiteInterimGuidance_Rev070913.pdf
EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples were received in good condition unless otherwise noted.
This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. This report may contain data that is not covered by the NVLAP accreditation.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606

Initial Report From 06/06/2015 16:19:34

WATTS ARCHITECTURE & ENGINEERING
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

141502278

Client: Hamilton Houston Lownie, LLC
Project: Buffalo & Erie County Library Elevator
Building / Location: Main Library Buffalo, NY
Contact: Jerry Grady at (716) 206-5100
Fax Preliminary Results to: (716) 206-5199
Mail Report & Invoice to: Watts Architecture & Engineering, P.C.
95 Perry Street, Suite 300, Buffalo, NY 14203

Date: 5/28/2015
Watts Project No.: 12152

Turnaround Requested: ___ 3 Hr. ___ 48 Hr.
Analysis Requested: ___ 6 Hr. ___ 72 Hr.
PLM x TEM x ___ 12 Hr. ___ 5 Day
___ 24 Hr. x 1 week

1215203-01	Spray-on Fireproofing	Crawlspace West of Elevator Pit	NAD	
1215203-02	Spray-on Fireproofing	Crawlspace SW of Elevator Pit	NAD	
1215203-03	Spray-on Fireproofing	Crawlspace S of Elevator Pit	NAD	
1215203-04	Spray-on Fireproofing	Crawlspace N of Escalator Pit	NAD	
1215203-05	Spray-on Fireproofing	Crawlspace South of Escalator Pit	NAD	
1215203-06	Spray-on Fireproofing	Crawlspace West of Escalator Pit	NAD	
1215203-07	Spray-on Fireproofing	Crawlspace NW of Escalator Pit	NAD	
1215203-08	Granite Panel Caulk	West side of Building near West Entrance	NAD	
1215203-09	Granite Panel Caulk	West side of Building near West Entrance	NAD	
1215203-10	Marble Panel Caulk	West side of Building near West Entrance	NAD	
1215203-11	Marble Panel Caulk	West side of Building near West Entrance	NAD	
1215203-12	Mosaic Tile Grout/Mudset	West side of Building at West Entrance	NAD	

RECEIVED
JUN 02 2015
BY:

Sampled By: Jerry Grady Date: 6/2/2015 Received By: C 3:37PM Date:
Relinquished By: Jerry Grady Date: 6/2/15 Received By: Date:

Comments: Analyze all NOB's by PLM then proceed to TEM if necessary. Analyze to 1st positive. Call if spray-on fireproofing contains vermiculate.

* 01 to 07 No Vermiculite present. @ 6/3/15

OrderID: 141502278

WATTS ARCHITECTURE & ENGINEERING
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

141502278

Client: Hamilton Houston Lownie, LLC

Project: Buffalo & Erie County Library Elevator

Building / Location: Main Library Buffalo, NY

Contact: Jerry Grady at (716) 206-5100

Fax Preliminary Results to: (716) 206-5199

Mail Report & Invoice to: Watts Architecture & Engineering, P.C.
95 Perry Street, Suite 300, Buffalo, NY 14203

Date: 5/28/2015

Watts Project No.: 12152

Turnaround Requested: ___ 3 Hr. ___ 48 Hr.
Analysis Requested: ___ 6 Hr. ___ 72 Hr.
PLM x TEM x ___ 12 Hr. ___ 5 Day
___ 24 Hr. x 1 Week

Sample No.	Material Description	Sample Location	PLM	TEM
1215203-13	Mosaic Tile Grout/Mudset	West side of Building at West Entrance	NAD	
1215203-14				
1215203-15				
1215203-16				
1215203-17				
1215203-18				
1215203-19				
1215203-20				
1215203-21				
1215203-22				
1215203-23				
1215203-24				

RECEIVED
JUN 02 2015

Sampled By: Jerry Grady Date: 6/2/2015 Received By: @ 3:37 PM Date:

Relinquished By: Jerry Grady Date: 6/2/15 Received By: BY: Date:

Comments: Analyze all NOB's by PLM then proceed to TEM if necessary. Analyze to 1st positive.

OrderID: 141502278

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: Buffalo & Erie County Library
Location: Main Library, 1 Lafayette
Number: 12152.03

Order #: 156180

Matrix Bulk
Received 01/18/16
Reported 01/21/16

PO Number: 7628 12152.03

Sample ID / Parameter	Cust. Sample ID	Location / Method	Result	RL*	Units	Analysis Date	Analyst
156180-001	12152-PCB-03	Btwn Metal Frame & Panels					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A	**<417000**	417000	µg/Kg	01/20/16	BRW
Aroclor - 1221		SW846 8082A	**<417000**	417000	µg/Kg	01/20/16	BRW
Aroclor - 1232		SW846 8082A	**<417000**	417000	µg/Kg	01/20/16	BRW
Aroclor - 1242		SW846 8082A	**<417000**	417000	µg/Kg	01/20/16	BRW
Aroclor - 1248		SW846 8082A	**<417000**	417000	µg/Kg	01/20/16	BRW
Aroclor - 1254		SW846 8082A	**950000**	417000	µg/Kg	01/20/16	BRW
Aroclor - 1260		SW846 8082A	**<417000**	417000	µg/Kg	01/20/16	BRW
Aroclor - 1262		SW846 8082A	**<417000**	417000	µg/Kg	01/20/16	BRW
Aroclor - 1268		SW846 8082A	**<417000**	417000	µg/Kg	01/20/16	BRW
PCB - Surrogate Recoveries							
DCB		D					
TCMX		D					
156180-002	12152-PCB-04	Btwn Edges Of Panels					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A	**<4170**	4160	µg/Kg	01/20/16	BRW
Aroclor - 1221		SW846 8082A	**<4170**	4160	µg/Kg	01/20/16	BRW
Aroclor - 1232		SW846 8082A	**<4170**	4160	µg/Kg	01/20/16	BRW
Aroclor - 1242		SW846 8082A	**<4170**	4160	µg/Kg	01/20/16	BRW
Aroclor - 1248		SW846 8082A	**<4170**	4160	µg/Kg	01/20/16	BRW
Aroclor - 1254		SW846 8082A	**36000**	4160	µg/Kg	01/20/16	BRW
Aroclor - 1260		SW846 8082A	**<4170**	4160	µg/Kg	01/20/16	BRW
Aroclor - 1262		SW846 8082A	**<4170**	4160	µg/Kg	01/20/16	BRW
Aroclor - 1268		SW846 8082A	**<4170**	4160	µg/Kg	01/20/16	BRW
PCB - Surrogate Recoveries							
DCB		D					
TCMX		D					

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. PPM = mg/kg | PPB = µg/kg. The test results reported relate only to the samples submitted.

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: Buffalo & Erie County Library
Location: Main Library, 1 Lafayette
Number: 12152.03

Order #: 156180

Matrix Bulk
Received 01/18/16
Reported 01/21/16

PO Number: 7628 12152.03

Sample ID / Parameter	Cust. Sample ID / Method	Location	Result	RL*	Units	Analysis Date	Analyst
156180-01/21/16 11:44 AM							

Reviewed By: **Thoria Nadiem**
Organics Analyst

Certifications

Parameter	Method	Matrix	CT	NY	VA
Aroclor - 1016	SW846 8082A	Bulk	X	X	X
Aroclor - 1221	SW846 8082A	Bulk	X	X	X
Aroclor - 1232	SW846 8082A	Bulk	X	X	X
Aroclor - 1242	SW846 8082A	Bulk	X	X	X
Aroclor - 1248	SW846 8082A	Bulk	X	X	X
Aroclor - 1254	SW846 8082A	Bulk	X	X	X
Aroclor - 1260	SW846 8082A	Bulk	X	X	X
Aroclor - 1262	SW846 8082A	Bulk	X	X	X
Aroclor - 1268	SW846 8082A	Bulk	X	X	X

Key

State	Regulatory Agency - Lab ID	Certificate Number
CT	CT DPH	PH-0118
NY	NYELAP-11413	52362
VA	Virginia DCLS/DEQ - 460135	8160

'X' indicates that the analyte is accredited.

If your state is not listed above, call laboratory for accreditation/certification information.

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. PPM = mg/kg | PPB = µg/kg. The test results reported relate only to the samples submitted.

SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabinc.com e-mail: info@slabinc.com

156180

V:\156\156180

Submitting Co.	Watts Architecture and Engineering	Lab WO#		Phone	(716) 205-5100
95 Perry Street, Suite 300		Acct #		Fax	(716) 206-5199
Buffalo, New York 14203		State of Collection	New York	E-Mail	ejones@watts-ae.com

Project Name:	Buffalo and Erie County Library
Project Location:	Main Library, 1 Lafayette Square, Buffalo, NY
Project Number:	12152.03
Purchase Order #	12152.03
TAT Requested	(Business Day) ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☒ 5 ☐ 10 ☐ Other: _____

Special Instructions [include requests for special reporting or data packages]

Minimum detection limit of 50 ppm required

e-mail results to Edward Jones at: ejones@watts-ae.com

Analysis Request — Other

BTEX 602 ☐ MTBE ☐ Naphthalene ☐ | Purgeable Aromatics 8021 ☐ | Petrol Hydrocarbons GC 8015M Diesel ☐ 8015M Gas ☐ | TPH 418.1 ☐ | Corrosivity ☐ Reactivity ☐ Flashpoint, Closed Cup ☐ | Volatile Organics 624 ☐ 8260 ☐ | Semivolatile Organics 625 ☐ 8270 ☐ | PAHs 610 ☐ 8270 ☐ 8310 By HPLC ☐ | TCLP Semi-Vols ☐ BNAs ☐ Pest ☐ Herb ☐ VOAs ☐ Full ☐ | Pesticides 608 ☐ 8081 ☐ Herbicides 8151 ☐ PCB's 8082 ☒

	Sample #	Date Sampled	Time Sampled	# Containers	Composite	Grab	Matrix: Drinking Water	Waste Water	Ground Water	Soil / Sludge	Air	Wipe	Oil	Solid	Pesticides 608
03	12152-PCB-03	01/15/16	10:00	1		X								X	X
	Caulk Between metal Frame & Black stone panels Bridge over Ellicott St														
04	12152-PCB-04	01/15/16	10:15	1		X								X	X
	Black caulk Between Edges of Black stone panels Bridge over Ellicott St.														

Sampled by
NAME Edward J. Jones
SIGNATURE Edward J. Jones
DATE/TIME 01/15/16

Relinquished to lab by
NAME Edward J. Jones
SIGNATURE Edward J. Jones
DATE/TIME 01/15/16 12:00

1/18/16

Preserved ☒ Yes ☐ No ☐ Ambient temp ☐ Ice °C ___ pH ___ Cl ___ ☐R ☒S ☐X

☐ Receive a physical copy of report.

Sample Disposal
If samples over red. weight (Refer to Fee Schedule)
☐ Return to Sender (Shipping fees)
☒ Disposal by lab ($50 fee)

Shipping Methods
☐ FX ☒ UPS ☐ USM ☐ HD ☐ DB
WB 2016

Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: Buffalo & Erie County Library
Location: Buffalo, NY
Number: 12152

Order #: 135879

Matrix Bulk
Received 07/16/15
Reported 07/20/15

PO Number:

Sample ID / Parameter	Cust. Sample ID / Method	Result	RL*	Units	Analysis Date	Analyst
135879-001	12152-PCB-01					
Semi-volatile Organic Compounds						
Aroclor - 1016	SW846 8082A	<6900	6890	µg/Kg	07/20/15	BRW
Aroclor - 1221	SW846 8082A	<6900	6890	µg/Kg	07/20/15	BRW
Aroclor - 1232	SW846 8082A	<6900	6890	µg/Kg	07/20/15	BRW
Aroclor - 1242	SW846 8082A	<6900	6890	µg/Kg	07/20/15	BRW
Aroclor - 1248	SW846 8082A	<6900	6890	µg/Kg	07/20/15	BRW
Aroclor - 1254	SW846 8082A	51000	6890	µg/Kg	07/20/15	BRW
Aroclor - 1260	SW846 8082A	<6900	6890	µg/Kg	07/20/15	BRW
Aroclor - 1262	SW846 8082A	<6900	6890	µg/Kg	07/20/15	BRW
Aroclor - 1268	SW846 8082A	<6900	6890	µg/Kg	07/20/15	BRW
PCB - Surrogate Recoveries						
DCB	D					
TCMX	D					
135879-002	12152-PCB-02					
Semi-volatile Organic Compounds						
Aroclor - 1016	SW846 8082A	<370000	369000	µg/Kg	07/20/15	BRW
Aroclor - 1221	SW846 8082A	<370000	369000	µg/Kg	07/20/15	BRW
Aroclor - 1232	SW846 8082A	<370000	369000	µg/Kg	07/20/15	BRW
Aroclor - 1242	SW846 8082A	<370000	369000	µg/Kg	07/20/15	BRW
Aroclor - 1248	SW846 8082A	<370000	369000	µg/Kg	07/20/15	BRW
Aroclor - 1254	SW846 8082A	8250000	369000	µg/Kg	07/20/15	BRW
Aroclor - 1260	SW846 8082A	<370000	369000	µg/Kg	07/20/15	BRW
Aroclor - 1262	SW846 8082A	<370000	369000	µg/Kg	07/20/15	BRW
Aroclor - 1268	SW846 8082A	<370000	369000	µg/Kg	07/20/15	BRW
PCB - Surrogate Recoveries						
DCB	D					
TCMX	D					

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. PPM = mg/kg | PPB = µg/kg. The test results reported relate only to the samples submitted.

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: Buffalo & Erie County Library
Location: Buffalo, NY
Number: 12152

Order #: 135879

Matrix Bulk
Received 07/16/15
Reported 07/20/15

PO Number:

Sample ID / Parameter	Cust. Sample ID / Method	Result	RL*	Units	Analysis Date	Analyst
135879-07/20/15 04:04 PM						

Reviewed By: **Thoria Nadiem**
Organics Analyst

Certifications

Paramater	Method	Matrix	CT	NY	VA
Aroclor - 1016	SW846 8082A	Bulk	X	X	X
Aroclor - 1221	SW846 8082A	Bulk	X	X	X
Aroclor - 1232	SW846 8082A	Bulk	X	X	X
Aroclor - 1242	SW846 8082A	Bulk	X	X	X
Aroclor - 1248	SW846 8082A	Bulk	X	X	X
Aroclor - 1254	SW846 8082A	Bulk	X	X	X
Aroclor - 1260	SW846 8082A	Bulk	X	X	X
Aroclor - 1262	SW846 8082A	Bulk	X	X	X
Aroclor - 1268	SW846 8082A	Bulk	X	X	X

Key

State	Regulatory Agency - Lab ID	Certificate Number
CT	CT DPH	PH-0118
NY	NYELAP-11413	52362
VA	Virginia DCLS/DEQ - 460135	7939

'X' indicates that the analyte is accredited.

If your state is not listed above, call laboratory for accreditation/certification information.

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. PPM = mg/kg | PPB = µg/kg. The test results reported relate only to the samples submitted.

135879

V:\135\135879

SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabinc.com e-mail: info@slabinc.com

Submitting Co.	Watts Architecture and Engineering	Lab WO#		Phone	(716) 206-5157
95 Perry Street, Buffalo, NY 14203		Acct #		Fax \ Email	jgrady@watts-ae.com
		**State of Collection	NY	**Cert. Required	☒ Yes ☐ No

Project Name:	Buffalo and Erie County Library
Project Location:	Buffalo, NY
Project Number:	12152
Purchase Order #	
TAT Requested	(Business Day)☐ 1 ☐ 2 ☐ 3☐ 4☒ 5 ☐ 10 ☐ Other: _____

Special Instructions [include requests for special reporting or data packages]

Bulk Samples of Caulk for PCB analysis

Sample #	**Date Sampled	**Time Sampled	# Containers	Chlorine (Cl)	Temp *	pH	Matrix: Drinking Water	Waste Water	Ground Water	Soil / Sludge	Wipe	Oil or Air	Bulk	Analysis Request: BTEX ☐ MTBE ☐ Naphthalene ☐	Purgeable Aromatics 8021 ☐	Petrol Hydrocarbons CC 8015M Diesel ☐ 8015M Gas ☐	TPH 418.1 ☐	Corrosivity ☐ Reactivity ☐ Flashpoint, Closed Cup ☐	Volatile Organics 624 ☐ 8260 ☐	Semivolatile Organics 625 ☐ 8270 ☐	PAHs 610 ☐ 8270 ☐ 8310 By HPLC ☐	TCLP Semi-Vols ☐ BNAs ☐ Pest ☐ Herb ☐ VOAs ☐ Full ☐	Pesticides 608 ☐ 8081 ☐ Herbicides 8151 ☐ PCB's 8082 ☒	Other
12152-PCB-01 (Granite Caulk)			1										X										X	
12152-PCB-02 (Marble Caulk)			1										X										X	

Sampled by	Relinquished to lab by		Sample Disposal
NAME Jerry Grady	NAME Jerry Grady	7-16-15	If samples over red. weight (Refer to Fee Schedule)
SIGNATURE	SIGNATURE		☐ Return to Sender (Shipping fees)
DATE/TIME 7/15/15 10:00	DATE/TIME		☒ Disposal by lab ($50 fee)
Preserved ☐ Yes ☐ No ☐ Ambient temp ☐ Ice	☐R ☐S ☐X	☐ Receive a physical copy of report.	Shipping Methods: ☒ FX ☐ UPS ☐ USM ☐ HD ☐ DB WB: 5409

* Temperature taken with IR Gun A. **Required.

Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.

EMSL Analytical, Inc.
490 Rowley Road, Depew, NY 14043
Phone/Fax: (716) 651-0030 / (716) 651-0394
http://www.EMSL.com buffalolab@emsl.com

EMSL Order: 141604158
CustomerID: WATT50
CustomerPO:
ProjectID:

Attn: **Edward Jones**
Watts Architecture & Engineering
95 Perry Street
Suite 300
Buffalo, NY 14203

Phone: (716) 206-5100
Fax: (716) 206-5199
Received: 10/10/16 5:29 PM
Analysis Date: 10/13/2016
Collected: 10/10/2016

Project: **1214724 / Buffalo & Erie County Library Main Branch Flagpole Base Stonework: 1 Lafayette Square, Buffalo, NY**

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non Asbestos Fibrous	Non Asbestos Non-Fibrous	Asbestos
Sample ID 1214724-01 *141604158-0001*		**Description** soft black caulk, between granite panels **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	10/12/2016	Black			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	10/13/2016	Black			**None Detected**
Sample ID 1214724-02 *141604158-0002*		**Description** soft black caulk, between granite panels **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	10/12/2016	Black			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	10/13/2016	Black			**None Detected**
Sample ID 1214724-03 *141604158-0003*		**Description** gray caulk at bottom of joint between granite panels, bottom layer **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	10/12/2016	Gray			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	10/13/2016	Gray			**None Detected**
Sample ID 1214724-04 *141604158-0004*		**Description** gray caulk at bottom of joint between granite panels, bottom layer **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	10/12/2016	Gray			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	10/13/2016	Gray			**None Detected**
Sample ID 1214724-05 *141604158-0005*		**Description** light gray caulk in joint between granite panels, below black & on gray caulks **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	10/12/2016	Gray			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	10/13/2016	Gray			**None Detected**

Initial Report From 10/13/2016 12:38:23

EMSL Analytical, Inc.
490 Rowley Road, Depew, NY 14043
Phone/Fax: (716) 651-0030 / (716) 651-0394
http://www.EMSL.com buffalolab@emsl.com

EMSL Order: 141604158
CustomerID: WATT50
CustomerPO:
ProjectID:

Test Report:Asbestos Analysis of Bulk Material

Test		Color	Non Asbestos Fibrous	Non-Fibrous	Asbestos
Sample ID 1214724-06 *141604158-0006*		**Description** light gray caulk in joint between granite panels, below black & on gray caulks **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	10/12/2016	Gray			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	10/13/2016	Gray			**None Detected**
Sample ID 1214724-07 *141604158-0007*		**Description** soft gray caulk, bottom side of granite panel **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	10/12/2016	Brown/Gray			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	10/13/2016	Brown/Gray			**None Detected**
Sample ID 1214724-08 *141604158-0008*		**Description** soft gray caulk, bottom side of granite panel **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	10/12/2016	Brown/Gray			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	10/13/2016	Brown/Gray			**None Detected**
Sample ID 1214724-09 *141604158-0009*		**Description** mortar behind granite panel **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	10/12/2016	Gray		100.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 1214724-10 *141604158-0010*		**Description** mortar behind granite panel **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	10/12/2016	Gray		100.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**

Initial Report From 10/13/2016 12:38:23

EMSL Analytical, Inc.
490 Rowley Road, Depew, NY 14043
Phone/Fax: (716) 651-0030 / (716) 651-0394
http://www.EMSL.com buffalolab@emsl.com

EMSL Order:	141604158
CustomerID:	WATT50
CustomerPO:	
ProjectID:	

Test Report:Asbestos Analysis of Bulk Material

Test	Color	Non Asbestos Fibrous	Non Asbestos Non-Fibrous	Asbestos

Analyst(s)
Mark Tate
Shauna Strnad
Tom Hanes



Rhonda McGee, Laboratory Manager
or other approved signatory

NOB = Non Friable Organically Bound N/A = Not Applicable VCM = Vermiculite Containing Material

-In New York State, TEM is currently the only method that can be used to determine if NOB materials can be considered or treated as non-asbestos containing.
All samples examined for the presence of vermiculite when analyzed via NYS 198.1.
-NYS Guidelines for Vermiculite containing samples are available at http://www.wadsworth.org/labcert/elapcert/forms/VermiculiteInterimGuidance_Rev070913.pdf
EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples were received in good condition unless otherwise noted.
This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. This report may contain data that is not covered by the NVLAP accreditation.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606

Initial Report From 10/13/2016 12:38:23

WATTS ARCHITECTURE & ENGINEERING
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

141604158

Client: Erie County DPW
Project: Buffalo & Erie County Library Main Branch Flagpole Base Stonework
Building / Location: 1 Lafayette Square Buffalo, NY
Contact: Edward J. Jones **at (716) 206-5155**
Preliminary Results to: cjones@watts-ae.com
Mail Report & Invoice to: **Watts Architecture & Engineering**
95 Perry Street, Buffalo, NY 14203

Date: Monday 10/10/2016
Watts Project No.: 1214724

Turnaround Requested:

3 Hr.	48 Hr.
6 Hr.	X 72 Hr.
12 Hr.	4 Day
24 Hr.	5 Day
	7 Day

Analysis Requested:
198.1 x 198.6 x 198.4 x

Sample Number	[redacted]		[redacted]		
1214724-01	Soft black caulk, between granite panels	1	Joint on top of stonework at base of flagpole, Broadway & Washington St. plaza		
1214724-02	Soft black caulk, between granite panels	1	Joint on top of stonework at base of flagpole, Broadway & Washington St. plaza		
1214724-03	Gray caulk at bottom of joint between granite panels, bottom layer	2	Joint on top of stonework at base of flagpole, Broadway & Washington St. plaza		
1214724-04	Gray caulk at bottom of joint between granite panels, bottom layer	2	Joint on top of stonework at base of flagpole, Broadway & Washington St. plaza		
1214724-05	Light gray caulk in joint between granite panel, below black & on top gray caulks	3	Joint on top of stonework at base of flagpole, Broadway & Washington St. plaza		
1214724-06	Light gray caulk in joint between granite panel, below black & on top gray caulks	3	Joint on top of stonework at base of flagpole, Broadway & Washington St. plaza		
1214724-07	Soft gray caulk, bottom side of granite panel	4	Behind damaged granite panel, base of flagpole, Broadway & Washington St. Plaza		
1214724-08	Soft gray caulk, bottom side of granite panel	4	Behind damaged granite panel, base of flagpole, Broadway & Washington St. Plaza		
1214724-09	Mortar behind granite panel	5	Behind damaged granite panel, base of flagpole, Broadway & Washington St. Plaza		
1214724-10	Mortar behind granite panel	5	Behind damaged granite panel, base of flagpole, Broadway & Washington St. Plaza		

Sampled By: Edward Jones **Date:** 10/10/16 **Received By:** M. Skillman Courier **Date:** 10/10/16 5:29 PM
Relinquished By: Edward Jones **Date:** 10/10/16 14:30 **Received By:** _____ **Date:** _____

Comments: If PLM NOB is negative, analyze by TEM. Stop at first positive for each homogeneous material description group.
If Vermiculite is detected , cease analysis and contact the Watts Project Manager for further instructions.

Page 1 Of 1

OrderID: 141604158

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: Buffalo Library Main Branch
Location: 1 Lafayette Square, Buffalo
Number: 1214724

Order #: 187864

Matrix Bulk
Received 10/11/16
Reported 10/18/16

PO Number: 7628

Sample ID / Parameter	Cust. Sample ID / Method	Result	RL*	Units	Analysis Date	Analyst
187864-001	1214724-P01 / Bottom Layer					
Semi-volatile Organic Compounds						
Aroclor - 1016	SW846 8082A	**<403**	402	µg/Kg	10/18/16	BRW
Aroclor - 1221	SW846 8082A	**<403**	402	µg/Kg	10/18/16	BRW
Aroclor - 1232	SW846 8082A	**<403**	402	µg/Kg	10/18/16	BRW
Aroclor - 1242	SW846 8082A	**<403**	402	µg/Kg	10/18/16	BRW
Aroclor - 1248	SW846 8082A	**<403**	402	µg/Kg	10/18/16	BRW
Aroclor - 1254	SW846 8082A	**<403**	402	µg/Kg	10/18/16	BRW
Aroclor - 1260	SW846 8082A	**<403**	402	µg/Kg	10/18/16	BRW
Aroclor - 1262	SW846 8082A	**<403**	402	µg/Kg	10/18/16	BRW
Aroclor - 1268	SW846 8082A	**<403**	402	µg/Kg	10/18/16	BRW
PCB - Surrogate Recoveries						
DCB	MI					
TCMX	41%					
187864-002	1214724-P02 / Middle Layer					
Semi-volatile Organic Compounds						
Aroclor - 1016	SW846 8082A	**<425**	424	µg/Kg	10/18/16	BRW
Aroclor - 1221	SW846 8082A	**<425**	424	µg/Kg	10/18/16	BRW
Aroclor - 1232	SW846 8082A	**<425**	424	µg/Kg	10/18/16	BRW
Aroclor - 1242	SW846 8082A	**<425**	424	µg/Kg	10/18/16	BRW
Aroclor - 1248	SW846 8082A	**<425**	424	µg/Kg	10/18/16	BRW
Aroclor - 1254	SW846 8082A	**<425**	424	µg/Kg	10/18/16	BRW
Aroclor - 1260	SW846 8082A	**<425**	424	µg/Kg	10/18/16	BRW
Aroclor - 1262	SW846 8082A	**<425**	424	µg/Kg	10/18/16	BRW
Aroclor - 1268	SW846 8082A	**<425**	424	µg/Kg	10/18/16	BRW
PCB - Surrogate Recoveries						
DCB	129%					
TCMX	81%					

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "**MI**" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results reported relate only to the samples submitted.

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: Buffalo Library Main Branch
Location: 1 Lafayette Square, Buffalo
Number: 1214724

Order #: 187864

Matrix Bulk
Received 10/11/16
Reported 10/18/16

PO Number: 7628

Sample ID / Parameter	Cust. Sample ID / Method	Result	RL*	Units	Analysis Date	Analyst
187864-003	1214724-P03 Bottomside					
Semi-volatile Organic Compounds						
Aroclor - 1016	SW846 8082A	**<441**	440	µg/Kg	10/18/16	BRW
Aroclor - 1221	SW846 8082A	**<441**	440	µg/Kg	10/18/16	BRW
Aroclor - 1232	SW846 8082A	**<441**	440	µg/Kg	10/18/16	BRW
Aroclor - 1242	SW846 8082A	**<441**	440	µg/Kg	10/18/16	BRW
Aroclor - 1248	SW846 8082A	**<441**	440	µg/Kg	10/18/16	BRW
Aroclor - 1254	SW846 8082A	**<441**	440	µg/Kg	10/18/16	BRW
Aroclor - 1260	SW846 8082A	**<441**	440	µg/Kg	10/18/16	BRW
Aroclor - 1262	SW846 8082A	**<441**	440	µg/Kg	10/18/16	BRW
Aroclor - 1268	SW846 8082A	**<441**	440	µg/Kg	10/18/16	BRW
PCB - Surrogate Recoveries						
DCB	105%					
TCMX	126%					

187864-10/18/16 01:05 PM



Reviewed By: **Thoria Nadiem**
Organics Analyst

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results reported relate only to the samples submitted.

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: Buffalo Library Main Branch
Location: 1 Lafayette Square, Buffalo
Number: 1214724

Order #: 187864

Matrix	Bulk
Received	10/11/16
Reported	10/18/16
PO Number:	7628

Sample ID / Parameter	Cust. Sample ID / Method	Location	Result	RL*	Units	Analysis Date	Analyst

Certifications

Parameter	Method	Matrix	CA	CT	NY	RI	VA
Aroclor - 1016	SW846 8082A	Bulk	X	X	X	X	X
Aroclor - 1221	SW846 8082A	Bulk	X	X	X	X	X
Aroclor - 1232	SW846 8082A	Bulk	X	X	X	X	X
Aroclor - 1242	SW846 8082A	Bulk	X	X	X	X	X
Aroclor - 1248	SW846 8082A	Bulk	X	X	X	X	X
Aroclor - 1254	SW846 8082A	Bulk	X	X	X	X	X
Aroclor - 1260	SW846 8082A	Bulk	X	X	X	X	X
Aroclor - 1262	SW846 8082A	Bulk	X	X	X	X	X
Aroclor - 1268	SW846 8082A	Bulk	X	X	X	X	X

Key

State	Regulatory Agency - Lab ID	Certificate Number
CA	CA ELAP	2078
CT	CT DPH	PH-0118
NY	NYELAP-11413	54668
RI	RIDOH	LAO00084
VA	Virginia DCLS/DEQ - 460135	8615

'X' indicates that the analyte is accredited.

If your state is not listed above, call laboratory for accreditation/certification information.

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results reported relate only to the samples submitted.

187864 R 3

V:\187\187864

fghraizi 10/11/2016 9:5 :00 AM

UPS 1Z2E2899846 9455689

SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabinc.com e-mail: info@slabinc.com

Submitting Co.	Watts Architecture and Engineering	Lab WO#		Phone	(716) 206-5100
95 Perry Street, Suite 300		Acct #	4637	Fax	(716) 206-5199
Buffalo, NY 14203		State of Collection	NY	E-Mail	ejones@watts-ae.com

Project Name:	Buffalo Library Main Branch Flagpole Base Stonework
Project Location:	1 Lafayette Square, Buffalo, NY
Project Number:	1214724
Purchase Order #	1214724
TAT Requested	(Business Day) ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☒ 5 ☐ 10 ☐ Other: _____

Special Instructions [include requests for special reporting or data packages]

5 Day TAT

Minimum detection of 50 PPM requried

e-mail results to: ejones@watts-ae.com and to koconnor@watts-ae.com

Analysis Request — Other

BTEX 602 ☐ MTBE ☐ Naphthalene ☐ | Purgeable Aromatics 8021 ☐ | Petrol Hydrocarbons GC 8015M Diesel ☐ 8015M Gas ☐ | TPH 418.1 ☐ | Corrosivity ☐ Reactivity ☐ Flashpoint, Closed Cup ☐ | Volatile Organics 624 ☐ 8260 ☐ | Semivolatile Organics 625 ☐ 8270 ☐ | PAHs 610 ☐ 8270 ☐ 8310 By HPLC ☐ | TCLP Semi-Vols ☐ BNAs ☐ Pest ☐ Herb ☐ VOAs ☐ Full ☐ | Pesticides 608 ☐ 8081 ☐ Herbicides 8151 ☐ PCB's 8082 ☒

Sample #	Date Sampled	Time Sampled	# Containers	Composite	Grab	Matrix: Drinking Water	Waste Water	Ground Water	Soil / Sludge	Air	Wipe	Oil	Solid
P01 1214724-P01 Gray Caulk, Bottom Layer, In Joint Between Granite panels Flagpole Foundation	10/10/16	10:30	1		X								X
P02 1214724-P02 Light Gray caulk, Middle Layer, Between Black & gray caulks, In Joint Between Granite panels, Flagpole Foundation	10/10/16	10:45	1		X								X
P03 1214724-P03 Soft Gray caulk, Bottomside of Granite panels, at Damaged Area Flagpole Foundation	10/10/16	10:55	1		X								X

Sampled by
NAME Edward J. Jones
SIGNATURE Edward J Jones
DATE/TIME 10/10/16

Relinquished to lab by
NAME Edward J. Jones
SIGNATURE Edward J Jones
DATE/TIME 10/10/16 14:30

Preserved ☒ Yes ☐ No ☐ Ambient temp ☐ Ice °C pH Cl ☐R ☐S ☐X

☐ Receive a physical copy of report.

Sample Disposal
If samples over red. weight (Refer to Fee Schedule)
☐ Return to Sender (Shipping fees)
☒ Disposal by lab ($50 fee)

Shipping Methods
☐ FX ☒ UPS ☐ USM ☐ HD ☐ DB
WB: _____

Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.

EMSL Analytical, Inc.
490 Rowley Road, Depew, NY 14043
Phone/Fax: (716) 651-0030 / (716) 651-0394
http://www.EMSL.com buffalolab@emsl.com

EMSL Order: 141603172
CustomerID: WATT50
CustomerPO:
ProjectID:

Attn: **Kevin O'Connor**
Watts Architecture & Engineering
95 Perry Street
Suite 300
Buffalo, NY 14203

Phone: (716) 206-5100
Fax: (716) 206-5199
Received: 08/16/16 4:34 PM
Analysis Date: 8/18/2016
Collected: 8/16/2016

Project: **15150 / Boiler at 127 Fillmore Ave. Lake Avenue, Lackawanna, NY**

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non Asbestos Fibrous	Non Asbestos Non-Fibrous	Asbestos
Sample ID 15150 Boiler-01 *141603172-0001*		**Description** **Homogeneity**	block type insulation Homogeneous		
PLM NYS 198.1 Friable	8/18/2016	White	80.00% Glass	20.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 15150 Boiler-02 *141603172-0002*		**Description** **Homogeneity**	block type insulation Homogeneous		
PLM NYS 198.1 Friable	8/18/2016	White	80.00% Glass	20.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 15150 Boiler-03 *141603172-0003*		**Description** **Homogeneity**	block type insulation Homogeneous		
PLM NYS 198.1 Friable	8/18/2016	White	80.00% Glass	20.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 15150 Boiler-04 *141603172-0004*		**Description** **Homogeneity**	refractory 1 Homogeneous		
PLM NYS 198.1 Friable	8/18/2016	White	80.00% Glass	20.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 15150 Boiler-05 *141603172-0005*		**Description** **Homogeneity**	refractory 1 Homogeneous		
PLM NYS 198.1 Friable	8/18/2016	White	85.00% Glass	15.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**

Initial Report From 08/18/2016 17:04:48

EMSL Analytical, Inc.
490 Rowley Road, Depew, NY 14043
Phone/Fax: (716) 651-0030 / (716) 651-0394
http://www.EMSL.com buffalolab@emsl.com

EMSL Order:	141603172
CustomerID:	WATT50
CustomerPO:	
ProjectID:	

Test Report:Asbestos Analysis of Bulk Material

Test		Color	Non Asbestos Fibrous	Non-Fibrous	Asbestos
Sample ID 15150 Boiler-06 *141603172-0006*		**Description** refractory 2 **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	8/18/2016	Pink	1.00% Glass	99.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 15150 Boiler-07 *141603172-0007*		**Description** refractory 2 **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	8/18/2016	Pink	1.00% Glass	99.00% Non-fibrous (other)	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 15150 Boiler-08 *141603172-0008*		**Description** refractory 3 **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	8/18/2016	Tan		90.00% Non-fibrous (other) 10.00% Vermiculite	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 15150 Boiler-09 *141603172-0009*		**Description** refractory 3 **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	8/18/2016	Tan		91.50% Non-fibrous (other) 8.50% Vermiculite	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 15150 Boiler-10 *141603172-0010*		**Description** refractory 4 **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	8/18/2016	Tan		92.60% Non-fibrous (other) 7.40% Vermiculite	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**
Sample ID 15150 Boiler-11 *141603172-0011*		**Description** refractory 4 **Homogeneity** Homogeneous			
PLM NYS 198.1 Friable	8/18/2016	Tan		91.30% Non-fibrous (other) 8.70% Vermiculite	**None Detected**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB					**Not Analyzed**
TEM NYS 198.4 NOB					**Not Analyzed**

Initial Report From 08/18/2016 17:04:48

EMSL Analytical, Inc.
490 Rowley Road, Depew, NY 14043
Phone/Fax: (716) 651-0030 / (716) 651-0394
http://www.EMSL.com buffalolab@emsl.com

EMSL Order:	141603172
CustomerID:	WATT50
CustomerPO:	
ProjectID:	

Test Report:Asbestos Analysis of Bulk Material

Test	Color	Non Asbestos Fibrous	Non Asbestos Non-Fibrous	Asbestos

Analyst(s)
Shauna Strnad

Rhonda McGee, Laboratory Manager
or other approved signatory

NOB = Non Friable Organically Bound N/A = Not Applicable VCM = Vermiculite Containing Material

-In New York State, TEM is currently the only method that can be used to determine if NOB materials can be considered or treated as non-asbestos containing.
All samples examined for the presence of vermiculite when analyzed via NYS 198.1.
-NYS Guidelines for Vermiculite containing samples are available at http://www.wadsworth.org/labcert/elapcert/forms/VermiculiteInterimGuidance_Rev070913.pdf
EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples were received in good condition unless otherwise noted.
This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. This report may contain data that is not covered by the NVLAP accreditation.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606

Initial Report From 08/18/2016 17:04:48

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: Buffalo & Erie County Main Lib
Location: 1 Lafayette Square, Buffalo NY
Number: 1214720

Order #: 178748

Matrix Bulk
Received 07/28/16
Reported 08/04/16

PO Number:

Sample ID / Parameter	Cust. Sample ID	Location / Method	Result	RL*	Units	Analysis Date	Analyst
178748-001	1214720-PCB-01	Planter Cap Stone Top					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A	<19000	18900	µg/Kg	08/03/16	BRW
Aroclor - 1221		SW846 8082A	<19000	18900	µg/Kg	08/03/16	BRW
Aroclor - 1232		SW846 8082A	<19000	18900	µg/Kg	08/03/16	BRW
Aroclor - 1242		SW846 8082A	<19000	18900	µg/Kg	08/03/16	BRW
Aroclor - 1248		SW846 8082A	<19000	18900	µg/Kg	08/03/16	BRW
Aroclor - 1254		SW846 8082A	114000	18900	µg/Kg	08/03/16	BRW
Aroclor - 1260		SW846 8082A	<19000	18900	µg/Kg	08/03/16	BRW
Aroclor - 1262		SW846 8082A	<19000	18900	µg/Kg	08/03/16	BRW
Aroclor - 1268		SW846 8082A	<19000	18900	µg/Kg	08/03/16	BRW
PCB - Surrogate Recoveries							
DCB		D					
TCMX		D					
178748-002	1214720-PCB-02	Planter Cap Stone at Wall					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A	**<466**	465	µg/Kg	08/03/16	BRW
Aroclor - 1221		SW846 8082A	**<466**	465	µg/Kg	08/03/16	BRW
Aroclor - 1232		SW846 8082A	**<466**	465	µg/Kg	08/03/16	BRW
Aroclor - 1242		SW846 8082A	**<466**	465	µg/Kg	08/03/16	BRW
Aroclor - 1248		SW846 8082A	**<466**	465	µg/Kg	08/03/16	BRW
Aroclor - 1254		SW846 8082A	**15500**	465	µg/Kg	08/03/16	BRW
Aroclor - 1260		SW846 8082A	**<466**	465	µg/Kg	08/03/16	BRW
Aroclor - 1262		SW846 8082A	**<466**	465	µg/Kg	08/03/16	BRW
Aroclor - 1268		SW846 8082A	**<466**	465	µg/Kg	08/03/16	BRW
PCB - Surrogate Recoveries							
DCB		MI					
TCMX		MI					

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results reported relate only to the samples submitted.

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: Buffalo & Erie County Main Lib
Location: 1 Lafayette Square, Buffalo NY
Number: 1214720

Order #: 178748

Matrix Bulk
Received 07/28/16
Reported 08/04/16

PO Number:

Sample ID / Parameter	Cust. Sample ID / Method	Location	Result	RL*	Units	Analysis Date	Analyst
178748-08/04/16 05:26 PM							

Reviewed By: **Thoria Nadiem**
Organics Analyst

Certifications

Parameter	Method	Matrix	CT	NY	RI	VA
Aroclor - 1016	SW846 8082A	Bulk	X	X	X	X
Aroclor - 1221	SW846 8082A	Bulk	X	X	X	X
Aroclor - 1232	SW846 8082A	Bulk	X	X	X	X
Aroclor - 1242	SW846 8082A	Bulk	X	X	X	X
Aroclor - 1248	SW846 8082A	Bulk	X	X	X	X
Aroclor - 1254	SW846 8082A	Bulk	X	X	X	X
Aroclor - 1260	SW846 8082A	Bulk	X	X	X	X
Aroclor - 1262	SW846 8082A	Bulk	X	X	X	X
Aroclor - 1268	SW846 8082A	Bulk	X	X	X	X

Key

State	Regulatory Agency - Lab ID	Certificate Number
CT	CT DPH	PH-0118
NY	NYELAP-11413	54668
RI	RIDOH	LAO00084
VA	Virginia DCLS/DEQ - 460135	8259

'X' indicates that the analyte is accredited.

If your state is not listed above, call laboratory for accreditation/certification information.

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results reported relate only to the samples submitted.

WATTS ARCHITECTURE & ENGINEERING
PCB BULK SAMPLE CHAIN-OF-CUSTODY

Client: Erie County DPW
Date: 7/27/2016
Project: Buffalo & Erie County Main Library/Planter Cap Stones
Watts Project No.: 1214720
Building / Location: 1 Lafayette Square, Buffalo, NY
Contact: Mark Morris at 716-206-5100
Email Preliminary Results to: mmorris@watts-ae.com
Mail Report & Invoice to: Watts Architecture & Engineering
95 Perry Street, Suite 300, Buffalo, NY 14203

Turnaround Requested:
X 5 day
3 day
2 day
1 day

Analysis Requested:
9 Aroclors: X

Sample Number	Material Description	Sample Location	Laboratory Results	
1214720-PCB-01	Black Caulk	Planter Cap Stone Top Seam		
1214720-PCB-02	Black Caulk at wall	Planter cap stone at wall		



Sampled By: Mark Morris / M. Morris Date: 27 Jul 2016 Received By: THORA TOD Date: 7/28/16 9:17
Relinquished By: M. Morris Date: 27 Jul 2016 Received By: Date:
Comments:

C:\Users\SMarmion\Desktop\PCB BulkForm (Watts)
7/27/2016

Thank You

2990
(R)

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-0493

PLM Bulk Asbestos Report

Watts Architecture & Engineers
Attn: Ted Gorenflo
95 Perry Street
Suite 300
Buffalo, NY 14203

Date Received 9/10/2025 **AmeriSci Job #** 125091422
Date Examined 09/15/25 **P.O. #**
ELAP # 10984 **Page** 1 **of** 3
RE: 20250527; Buffalo Central Library Sealants Testing; 1 Lafayette Sq, Buffalo, NY 14203

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos	Notes
250527-01 1	125091422-01	***No***	Inconclusive - NAD (NOB by NYS ELAP 198.6) by Eric H. Ahles on 09/15/25	*1*
Location: Exterior Caulk (White) From White Marble Panels; West Building - South Of Main Entry Doors **Analyst Description:** White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 63%				
250527-02 1	125091422-02	***No***	Inconclusive - NAD (NOB by NYS ELAP 198.6) by Eric H. Ahles on 09/15/25	*1*
Location: Exterior Caulk (White) From White Marble Panels; West Building - South Elevation By Auditorium Entrance **Analyst Description:** White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 33%				
250527-03 2	125091422-03	***No***	Inconclusive - NAD (NOB by NYS ELAP 198.6) by Eric H. Ahles on 09/15/25	*1*
Location: Exterior Caulk (Black) From Red Granite Panels; West Building - Main Entrance Exterior Foyer Area - Ledge **Analyst Description:** Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 14%				
250527-04 2	125091422-04	***No***	Inconclusive - NAD (NOB by NYS ELAP 198.6) by Eric H. Ahles on 09/15/25	*1*
Location: Exterior Caulk (Black) From Red Granite Panels; West Building - South Elevation By Auditorium Entrance **Analyst Description:** Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 46%				
250527-05 3	125091422-05	***No***	Inconclusive - NAD (NOB by NYS ELAP 198.6) by Eric H. Ahles on 09/15/25	*1*
Location: Exterior Caulk (Black) From Black Granite Panels; West Building - South Elevation By Auditorium Entrance **Analyst Description:** Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 32%				

See Reporting notes on last page

PLM Bulk Asbestos Report

20250527; Buffalo Central Library Sealants Testing; 1 Lafayette Sq, Buffalo, NY 14203

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos	Notes
250527-06 3	125091422-06	***No***	Inconclusive - NAD (NOB by NYS ELAP 198.6) by Eric H. Ahles on 09/15/25	*1*
Location: Exterior Caulk (Black) From Black Granite Panels; West Building - West Elevation Below Window **Analyst Description:** Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 23%				
250527-07 4	125091422-07	***No***	Inconclusive - NAD (NOB by NYS ELAP 198.6) by Eric H. Ahles on 09/15/25	*1*
Location: Exterior Caulk (White) From White Marble Panels; East Building - South Elevation **Analyst Description:** White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 27%				
250527-08 4	125091422-08	***No***	Inconclusive - NAD (NOB by NYS ELAP 198.6) by Eric H. Ahles on 09/15/25	*1*
Location: Exterior Caulk (White) From White Marble Panels; East Building - North Elevation **Analyst Description:** White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 26%				
250527-09 5	125091422-09	***No***	Inconclusive - NAD (NOB by NYS ELAP 198.6) by Eric H. Ahles on 09/15/25	*1*
Location: Exterior Caulk (Black) From Red Granite Panels; East Building - South Elevation **Analyst Description:** Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 33%				
250527-10 5	125091422-10	***No***	Inconclusive - NAD (NOB by NYS ELAP 198.6) by Eric H. Ahles on 09/15/25	*1*
Location: Exterior Caulk (Black) From Red Granite Panels; East Building - East Elevation **Analyst Description:** Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 28%				
250527-11 6	125091422-11	***No***	Inconclusive - NAD (NOB by NYS ELAP 198.6) by Eric H. Ahles on 09/15/25	*1*
Location: Exterior Caulk (Black) From Black Granite Panels; East Building - East Elevation Above Receiving Main Door **Analyst Description:** Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 30%				

See Reporting notes on last page

PLM Bulk Asbestos Report

20250527; Buffalo Central Library Sealants Testing; 1 Lafayette Sq, Buffalo, NY 14203

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos	Notes
250527-126	125091422-12	***No***	Inconclusive - NAD (NOB by NYS ELAP 198.6) by Eric H. Ahles on 09/15/25	*1*
Location: Exterior Caulk (Black) From Black Granite Panels; East Building - North Elevation **Analyst Description:** Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 57%				
250527-137	125091422-13	***No***	Inconclusive - NAD (NOB by NYS ELAP 198.6) by Eric H. Ahles on 09/15/25	*1*
Location: Exterior Caulk (Light Gray, Silver); West Building - West Elevation - Window Frame Left Of Entry Doors **Analyst Description:** Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 26%				
250527-147	125091422-14	***No***	Inconclusive - NAD (NOB by NYS ELAP 198.6) by Eric H. Ahles on 09/15/25	*1*
Location: Exterior Caulk (Light Gray, Silver); West Building - West Elevation North Side - Window Frame **Analyst Description:** Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 14%				

Reporting Notes:

(1) NAD results by NYS 198.6 are inconclusive and are not considered non-ACM

Analyzed by: Eric H. Ahles
Date: 9/15/2025

Reviewed by: Cory M. Parnell

*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis (Not covered by NVLAP or NY ELAP accreditations); NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis using Meiji, Model MT 6130 microscope, Serial #1410298, by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Client Name: Watts Architecture & Engineers

Table I
Summary of Bulk Asbestos Analysis Results by NYS ELAP 198.4

20250527; Buffalo Central Library Sealants Testing; 1 Lafayette Sq, Buffalo, NY 14203

AmeriSci Sample #	Client Sample#	HG Area	NOB Sample Weight (gram)	NOB Heat Sensitive Organic %	NOB Acid Soluble Inorganic %	NOB Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	250527-01	1	0.287	27.9	8.8	63.3	NAD	NAD
Location: Exterior Caulk (White) From White Marble Panels; West Building - South Of Main Entry Doors								
02	250527-02	1	0.269	22.3	44.5	33.2	NAD	NAD
Location: Exterior Caulk (White) From White Marble Panels; West Building - South Elevation By Auditorium Entrance								
03	250527-03	2	0.256	29.1	56.6	14.3	NAD	NAD
Location: Exterior Caulk (Black) From Red Granite Panels; West Building - Main Entrance Exterior Foyer Area - Ledge								
04	250527-04	2	0.263	23.3	30.5	46.1	NAD	NAD
Location: Exterior Caulk (Black) From Red Granite Panels; West Building - South Elevation By Auditorium Entrance								
05	250527-05	3	0.220	21.5	45.8	32.7	NAD	NAD
Location: Exterior Caulk (Black) From Black Granite Panels; West Building - South Elevation By Auditorium Entrance								
06	250527-06	3	0.178	22.6	54.0	23.4	NAD	NAD
Location: Exterior Caulk (Black) From Black Granite Panels; West Building - West Elevation Below Window								
07	250527-07	4	0.277	24.3	48.4	27.3	NAD	NAD
Location: Exterior Caulk (White) From White Marble Panels; East Building - South Elevation								
08	250527-08	4	0.356	25.1	48.1	26.8	NAD	NAD
Location: Exterior Caulk (White) From White Marble Panels; East Building - North Elevation								
09	250527-09	5	0.451	26.6	40.0	33.3	NAD	NAD
Location: Exterior Caulk (Black) From Red Granite Panels; East Building - South Elevation								
10	250527-10	5	0.281	25.3	46.4	28.3	NAD	NAD
Location: Exterior Caulk (Black) From Red Granite Panels; East Building - East Elevation								
11	250527-11	6	0.252	20.9	48.7	30.3	NAD	NAD
Location: Exterior Caulk (Black) From Black Granite Panels; East Building - East Elevation Above Receiving Main Door								
12	250527-12	6	0.309	27.4	15.1	57.5	NAD	NAD
Location: Exterior Caulk (Black) From Black Granite Panels; East Building - North Elevation								
13	250527-13	7	0.234	23.0	50.8	26.2	NAD	NAD
Location: Exterior Caulk (Light Gray, Silver); West Building - West Elevation - Window Frame Left Of Entry Doors								
14	250527-14	7	0.323	55.0	30.7	14.3	NAD	NAD
Location: Exterior Caulk (Light Gray, Silver); West Building - West Elevation North Side - Window Frame								

See Reporting notes on last page

Client Name: Watts Architecture & Engineers

Table I
Summary of Bulk Asbestos Analysis Results by NYS ELAP 198.4

20250527; Buffalo Central Library Sealants Testing; 1 Lafayette Sq, Buffalo, NY 14203

AmeriSci Sample #	Client Sample#	HG Area	NOB Sample Weight (gram)	NOB Heat Sensitive Organic %	NOB Acid Soluble Inorganic %	NOB Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM

Analyzed by: Cory M. Parnell

Reviewed by: Cory M. Parnell

Date: 9/16/2025

Semi-Quantitative Analysis: NAD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed due to positive stop; Trace = <1%; PLM analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) or NY ELAP 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NY ELAP Lab # 10984); TEM prep by EPA 600/R-93/116 Section 2.3 (analysis by Section 2.5, not covered by NVLAP Bulk accreditation); or NY ELAP 198.4 for New York NOB samples (NY ELAP Lab # 10984). Analysis using Jeol, Model JEM-100CX II microscope, Serial #156147-247. ** Warning Notes: Consider PLM fiber diameter limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris, soils or other heterogeneous materials for which a combination PLM/TEM evaluation is recommended; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only.

125091422

WATTS ARCHITECTS & ENGINEERS
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

Client: Buffalo & Erie County Public Library
Project: Buffalo Central Library Sealants Testing
Building / Location: 1 Lafayette Sq, Buffalo, NY 14203
Contact: Ted Gorenflo at (716) 392-4556
Preliminary Results to: tgorenflo@watts-ae.com and
Mail Report & Invoice to: Watts Architects & Engineers
95 Perry Street, Buffalo, NY 14203

Date: 9/9/2025
Watts Project No: 20250527

Turnaround Requested:

3 Hr.	48 Hr.
6 Hr.	X 72 Hr.
12 Hr.	4 Day
24 Hr.	5 Day

Analysis Requested:
198.1 X 198.4 X
198.8 198.6 X

Sample Number	Material Description	HA	Sample Location	Laboratory Results	
				PLM	TEM
250527-01	Exterior Caulk (White) from White Marble Panels	1	West Building - South of Main Entry Doors		
250527-02	Exterior Caulk (White) from White Marble Panels	1	West Building - South Elevation by Auditorium Entrance		
250527-03	Exterior Caulk (Black) from Red Granite Panels	2	West Building - Main Entrance Exterior Foyer Area - Ledge		
250527-04	Exterior Caulk (Black) from Red Granite Panels	2	West Building - South Elevation by Auditorium Entrance		
250527-05	Exterior Caulk (Black) from Black Granite Panels	3	West Building - South Elevation by Auditorium Entrance		
250527-06	Exterior Caulk (Black) from Black Granite Panels	3	West Building - West Elevation Below Window		
250527-07	Exterior Caulk (White) from White Marble Panels	4	East Building - South Elevation		
250527-08	Exterior Caulk (White) from White Marble Panels	4	East Building - North Elevation		
250527-09	Exterior Caulk (Black) from Red Granite Panels	5	East Building - South Elevation		
250527-10	Exterior Caulk (Black) from Red Granite Panels	5	East Building - East Elevation		
250527-11	Exterior Caulk (Black) from Black Granite Panels	6	East Building - East Elevation Above Receiving Man Door		
250527-12	Exterior Caulk (Black) from Black Granite Panels	6	East Building - North Elevation		
250527-13	Exterior Caulk (Light Gray, Silver)	7	West Building - West Elevation - Window Frame Left of Entry Doors		
250527-14	Exterior Caulk (Light Gray, Silver)	7	West Building - West Elevation North Side - Window Frame		
			Received		

Sampled By: Ted Gorenflo **Date:** 9/9/2025 **Time:** N/A **Received By:** SEP 10 2025 **Date:**

Relinquished By: Ted Gorenflo **Date:** 9/9/2025 **Time:** 1630 **Received By:** ALC **Date:**

Comments: If PLM NOB is negative, analyze by TEM. Stop at first positive for each homogeneous material description group.
If Vermiculite is detected , cease analysis and contact the Watts Project Manager for further instructions.

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: Buffalo Cntrl Library Sealants
Location: 1 Lafayette Sq Buffalo NY
Number: 20250527

Order #: 646074

Matrix Bulk
Received 09/11/25
Reported 09/16/25

PO Number: 7628

Sample ID / Parameter	Cust. Sample ID	Location / Method	Result	RL*	Units	Analysis Date	Analyst
646074-001	250527-PCB-01	Ext Caulk Wht Marble W					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A / 3550C	**<239**	239	µg/kg	09/12/25	AE
Aroclor - 1221		SW846 8082A / 3550C	**<239**	239	µg/kg	09/12/25	AE
Aroclor - 1232		SW846 8082A / 3550C	**<239**	239	µg/kg	09/12/25	AE
Aroclor - 1242		SW846 8082A / 3550C	**<239**	239	µg/kg	09/12/25	AE
Aroclor - 1248		SW846 8082A / 3550C	**<239**	239	µg/kg	09/12/25	AE
Aroclor - 1254		SW846 8082A / 3550C	**2950**	263	µg/kg	09/12/25	AE
Aroclor - 1260		SW846 8082A / 3550C	**<239**	239	µg/kg	09/12/25	AE
Aroclor - 1262		SW846 8082A / 3550C	**<239**	239	µg/kg	09/12/25	AE
Aroclor - 1268		SW846 8082A / 3550C	**<239**	239	µg/kg	09/12/25	AE
646074-002	250527-PCB-02	Ext Caulk Blk Red Granite					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A / 3550C	**<47.0**	47.0	µg/kg	09/12/25	AE
Aroclor - 1221		SW846 8082A / 3550C	**<47.0**	47.0	µg/kg	09/12/25	AE
Aroclor - 1232		SW846 8082A / 3550C	**<47.0**	47.0	µg/kg	09/12/25	AE
Aroclor - 1242		SW846 8082A / 3550C	**<47.0**	47.0	µg/kg	09/12/25	AE
Aroclor - 1248		SW846 8082A / 3550C	**<47.0**	47.0	µg/kg	09/12/25	AE
Aroclor - 1254		SW846 8082A / 3550C	**<51.7**	51.7	µg/kg	09/12/25	AE
Aroclor - 1260		SW846 8082A / 3550C	**<47.0**	47.0	µg/kg	09/12/25	AE
Aroclor - 1262		SW846 8082A / 3550C	**<47.0**	47.0	µg/kg	09/12/25	AE
Aroclor - 1268		SW846 8082A / 3550C	**<47.0**	47.0	µg/kg	09/12/25	AE
The sample duplicate and matrix spike failed possibly due to high concentration of aroclor.							
646074-003	250527-PCB-03	Ext Caulk Blk Blk Granite					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A / 3550C	**<437**	437	µg/kg	09/12/25	AE
Aroclor - 1221		SW846 8082A / 3550C	**<437**	437	µg/kg	09/12/25	AE
Aroclor - 1232		SW846 8082A / 3550C	**<437**	437	µg/kg	09/12/25	AE

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results apply to the sample as received.

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: Buffalo Cntrl Library Sealants
Location: 1 Lafayette Sq Buffalo NY
Number: 20250527

Order #: 646074

Matrix Bulk
Received 09/11/25
Reported 09/16/25

PO Number: 7628

Sample ID / Parameter	Cust. Sample ID	Location / Method	Result	RL*	Units	Analysis Date	Analyst
646074-003	250527-PCB-03	Ext Caulk Blk Blk Granite					
Aroclor - 1242		SW846 8082A / 3550C	**<437**	437	µg/kg	09/12/25	AE
Aroclor - 1248		SW846 8082A / 3550C	**<437**	437	µg/kg	09/12/25	AE
Aroclor - 1254		SW846 8082A / 3550C	**3920**	480	µg/kg	09/12/25	AE
Aroclor - 1260		SW846 8082A / 3550C	**<437**	437	µg/kg	09/12/25	AE
Aroclor - 1262		SW846 8082A / 3550C	**<437**	437	µg/kg	09/12/25	AE
Aroclor - 1268		SW846 8082A / 3550C	**<437**	437	µg/kg	09/12/25	AE
646074-004	250527-PCB-04	Ext Caulk Wht Marble E					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A / 3550C	**<222**	221	µg/kg	09/12/25	AE
Aroclor - 1221		SW846 8082A / 3550C	**<222**	221	µg/kg	09/12/25	AE
Aroclor - 1232		SW846 8082A / 3550C	**<222**	221	µg/kg	09/12/25	AE
Aroclor - 1242		SW846 8082A / 3550C	**<222**	221	µg/kg	09/12/25	AE
Aroclor - 1248		SW846 8082A / 3550C	**<222**	221	µg/kg	09/12/25	AE
Aroclor - 1254		SW846 8082A / 3550C	**2030**	244	µg/kg	09/12/25	AE
Aroclor - 1260		SW846 8082A / 3550C	**<222**	221	µg/kg	09/12/25	AE
Aroclor - 1262		SW846 8082A / 3550C	**<222**	221	µg/kg	09/12/25	AE
Aroclor - 1268		SW846 8082A / 3550C	**<222**	221	µg/kg	09/12/25	AE
646074-005	250527-PCB-05	Ext Caulk Blk Red Granite					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A / 3550C	**<44.3**	44.3	µg/kg	09/12/25	AE
Aroclor - 1221		SW846 8082A / 3550C	**<44.3**	44.3	µg/kg	09/12/25	AE
Aroclor - 1232		SW846 8082A / 3550C	**<44.3**	44.3	µg/kg	09/12/25	AE
Aroclor - 1242		SW846 8082A / 3550C	**<44.3**	44.3	µg/kg	09/12/25	AE
Aroclor - 1248		SW846 8082A / 3550C	**<44.3**	44.3	µg/kg	09/12/25	AE
Aroclor - 1254		SW846 8082A / 3550C	**399**	48.7	µg/kg	09/12/25	AE
Aroclor - 1260		SW846 8082A / 3550C	**<44.3**	44.3	µg/kg	09/12/25	AE
Aroclor - 1262		SW846 8082A / 3550C	**<44.3**	44.3	µg/kg	09/12/25	AE

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results apply to the sample as received.

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Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: Buffalo Cntrl Library Sealants
Location: 1 Lafayette Sq Buffalo NY
Number: 20250527

Order #: 646074

Matrix Bulk
Received 09/11/25
Reported 09/16/25

PO Number: 7628

Sample ID / Parameter	Cust. Sample ID	Location / Method	Result	RL*	Units	Analysis Date	Analyst
646074-005	250527-PCB-05	Ext Caulk Blk Red Granite					
Aroclor - 1268		SW846 8082A / 3550C	**<44.3**	44.3	µg/kg	09/12/25	AE
646074-006	250527-PCB-06	Ext Caulk Blk Blk Granite					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A / 3550C	**<10000**	10000	µg/kg	09/12/25	AE
Aroclor - 1221		SW846 8082A / 3550C	**<10000**	10000	µg/kg	09/12/25	AE
Aroclor - 1232		SW846 8082A / 3550C	**<10000**	10000	µg/kg	09/12/25	AE
Aroclor - 1242		SW846 8082A / 3550C	**<10000**	10000	µg/kg	09/12/25	AE
Aroclor - 1248		SW846 8082A / 3550C	**<10000**	10000	µg/kg	09/12/25	AE
Aroclor - 1254		SW846 8082A / 3550C	**68000**	11000	µg/kg	09/12/25	AE
Aroclor - 1260		SW846 8082A / 3550C	**<10000**	10000	µg/kg	09/12/25	AE
Aroclor - 1262		SW846 8082A / 3550C	**<10000**	10000	µg/kg	09/12/25	AE
Aroclor - 1268		SW846 8082A / 3550C	**<10000**	10000	µg/kg	09/12/25	AE
646074-007	250527-PCB-07	Ext Caulk Light Gry Slvr					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A / 3550C	**<47500**	47500	µg/kg	09/12/25	AE
Aroclor - 1221		SW846 8082A / 3550C	**<47500**	47500	µg/kg	09/12/25	AE
Aroclor - 1232		SW846 8082A / 3550C	**<47500**	47500	µg/kg	09/12/25	AE
Aroclor - 1242		SW846 8082A / 3550C	**<47500**	47500	µg/kg	09/12/25	AE
Aroclor - 1248		SW846 8082A / 3550C	**<47500**	47500	µg/kg	09/12/25	AE
Aroclor - 1254		SW846 8082A / 3550C	**568000**	52200	µg/kg	09/12/25	AE
Aroclor - 1260		SW846 8082A / 3550C	**<47500**	47500	µg/kg	09/12/25	AE
Aroclor - 1262		SW846 8082A / 3550C	**<47500**	47500	µg/kg	09/12/25	AE
Aroclor - 1268		SW846 8082A / 3550C	**<47500**	47500	µg/kg	09/12/25	AE
646074-008	250527-PCB-08	Ext Caulk Wht Wht Marble					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A / 3550C	**<922**	922	µg/kg	09/12/25	AE
Aroclor - 1221		SW846 8082A / 3550C	**<922**	922	µg/kg	09/12/25	AE

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results apply to the sample as received.

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Number: 20250527

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Matrix Bulk
Received 09/11/25
Reported 09/16/25

PO Number: 7628

Sample ID / Parameter	Cust. Sample ID	Location / Method	Result	RL*	Units	Analysis Date	Analyst
646074-008	250527-PCB-08	Ext Caulk Wht Wht Marble					
Aroclor - 1232		SW846 8082A / 3550C	**<922**	922	µg/kg	09/12/25	AE
Aroclor - 1242		SW846 8082A / 3550C	**<922**	922	µg/kg	09/12/25	AE
Aroclor - 1248		SW846 8082A / 3550C	**<922**	922	µg/kg	09/12/25	AE
Aroclor - 1254		SW846 8082A / 3550C	**11200**	1010	µg/kg	09/12/25	AE
Aroclor - 1260		SW846 8082A / 3550C	**<922**	922	µg/kg	09/12/25	AE
Aroclor - 1262		SW846 8082A / 3550C	**<922**	922	µg/kg	09/12/25	AE
Aroclor - 1268		SW846 8082A / 3550C	**<922**	922	µg/kg	09/12/25	AE
646074-009	250527-PCB-09	Ext Caulk Beige Newer					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A / 3550C	**<917**	916	µg/kg	09/12/25	AE
Aroclor - 1221		SW846 8082A / 3550C	**<917**	916	µg/kg	09/12/25	AE
Aroclor - 1232		SW846 8082A / 3550C	**<917**	916	µg/kg	09/12/25	AE
Aroclor - 1242		SW846 8082A / 3550C	**<917**	916	µg/kg	09/12/25	AE
Aroclor - 1248		SW846 8082A / 3550C	**<917**	916	µg/kg	09/12/25	AE
Aroclor - 1254		SW846 8082A / 3550C	**<1010**	1010	µg/kg	09/12/25	AE
Aroclor - 1260		SW846 8082A / 3550C	**<917**	916	µg/kg	09/12/25	AE
Aroclor - 1262		SW846 8082A / 3550C	**<917**	916	µg/kg	09/12/25	AE
Aroclor - 1268		SW846 8082A / 3550C	**<917**	916	µg/kg	09/12/25	AE

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results apply to the sample as received.

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Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
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Attn:

Project: Buffalo Cntrl Library Sealants
Location: 1 Lafayette Sq Buffalo NY
Number: 20250527

Order #: 646074

Matrix Bulk
Received 09/11/25
Reported 09/16/25

PO Number: 7628

Sample ID / Parameter	Cust. Sample ID / Method	Result	RL*	Units	Analysis Date	Analyst
646074-09/16/25 06:01 PM						

Reviewed By: **Kelly Muncy**
Manager

Surrogate Recoveries

646074-001 - PCB	
DCB	MI
TCMX	MI
646074-002 - PCB	
DCB	MI
TCMX	MI
646074-003 - PCB	
DCB	MI
TCMX	MI
646074-004 - PCB	
DCB	MI
TCMX	MI
646074-005 - PCB	
DCB	MI
TCMX	MI
646074-006 - PCB	
DCB	D
TCMX	D
646074-007 - PCB	
DCB	MI
TCMX	MI
646074-008 - PCB	
DCB	MI
TCMX	MI
646074-009 - PCB	
DCB	MI
TCMX	49%

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results apply to the sample as received.

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Order #: 646074

Matrix	Bulk
Received	09/11/25
Reported	09/16/25
PO Number:	7628

Sample ID	Cust. Sample ID	Location					
Parameter		Method	Result	RL*	Units	Analysis Date	Analyst

State Certifications

Method	Parameter	New York	Virginia
SW846 8082A	Aroclor - 1016	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1221	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1232	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1242	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1248	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1254	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1260	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1262	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1268	ELAP Certified	VELAP Certified

State	Certificate Number
New York	ELAP 69247
Virginia	VELAP 12761

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results apply to the sample as received.

SCHNEIDER LABORATORIES GLOBAL, INC
2512 West Cary Street, Richmond, Virginia 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabinc.com • info@slabinc.com

R 9

646074

V:\646\646074

tnadiem 9/11/2025 9:22:10 AM

UPS 1Z2E28999068489369

Submitting Co.	Watts Architects and Engineers	**State of Collection**	NY	**Cert. Required**	☐ YES ■ NO
95 Perry Street, Suite 300		**Acct #**	4637	**Phone**	(716) 392-4556
Buffalo NY, 14203		**Email**	tgorenflo@watts-ae.com		
Project Name	Buffalo Central Library Sealants Testing	**PO #**	N/A		
Project Location	1 Lafayette Sq, Buffalo, NY 14203	**Special Instructions**	PCB 8082		
Project Number	20250527				
Collected By	Ted Gorenflo				

Turn Around Time **

- ☐ Same day *
- ☐ 1 business day
- ☐ 2 business days
- ■ 3 business days
- ☐ 5 business days

* not available for all tests

Matrix

- ☐ Paint
- ■ Bulk
- ☐ Soil
- ☐ Wipe
- ☐ Ground Water
- ☐ Waste Water

** A job received past 3 PM will begin its TAT the next business day

Please schedule rush tests in advance

Test selection for all Samples listed below (Circle desired method)

- ☐ VOC (8260/624) ☐ SVOC (8270/625)
- ☐ Pesticides (8081/608) ☐ Herbicides (8151)
- ☐ Chlordane (8081/608) ☐ Toxaphene (8081/608)
- ■ PCB (8082) ☐ TPH-DRO (8015) ☐ TPH-GRO (8015)
- ☐ BTEX (8260/8021) ☐ MTBE (8260/8021) ☐ Naphthalene (8260/8270)

TCLP

- ☐ Volatiles
- ☐ Semi-Volatiles
- ☐ Herbicides
- ☐ Pesticides
- ☐ Full TCLP (10 Day)

Miscellaneous

- ☐ Chlorides (300/9056) ☐ Silica (7602)
- ☐ Sulfates (300/9056) ☐ PAH (8270/625)
- ☐ Oil and Grease (1664) ☐ TPH (EPA 418.1)

Individual Sample Requests

Sample #	Date Sampled	Time Sampled	# of Containers	Sample Identification	Wipe Area
250527-PCB-01	9-9-2025	N/A	1	Exterior Caulk (White) from White Marble Panels - West Building - South of Main Entry Doors	
250527-PCB-02	↓	N/A	1	Exterior Caulk (Black) from Red Granite Panels - West Building - South Elevation	
250527-PCB-03		N/A	1	Exterior Caulk (Black) from Black Granite Panels - West Building - West Elevation	
250527-PCB-04		N/A	1	Exterior Caulk (White) from White Marble Panels - East Building - South Elevation	
250527-PCB-05		N/A	1	Exterior Caulk (Black) from Red Granite Panels - East Building - South Elevation	
250527-PCB-06		N/A	1	Exterior Caulk (Black) from Black Granite Panels - East Building - North Elevation	
250527-PCB-07		N/A	1	Exterior Caulk (Light Gray, Silver) - West Elevation North Side - Window Frame	
250527-PCB-08		N/A	1	Exterior Caulk (White) from White Marble Ceiling Panels - Ellicott Street	
250527-PCB-09	✓	N/A	1	Exterior Caulk (Beige) - Newer White Marble Paneling at Elevator Shaft	

For Aqueous and Solid samples ensure enough sample is sent for duplicate and spike analyses

Relinquished By: Ted Gorenflo Signature: Ted Gorenflo Date/Time 9-7-25 / 1700

! ALL SHADED FIELDS MUST BE FILLED TO AVOID DELAYS !

Chain-of-Custody documentation continued internally

Analysis Report

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Attn:

Project: Buffalo & Erie County Library
Location: Buffalo, NY
Number: 12152

Order #: 135879

Matrix Bulk
Received 07/16/15
Reported 07/20/15

PO Number:

Sample ID / Parameter	Cust. Sample ID / Method	Result	RL*	Units	Analysis Date	Analyst
135879-001	12152-PCB-01					
Semi-volatile Organic Compounds						
Aroclor - 1016	SW846 8082A	<6900	6890	µg/Kg	07/20/15	BRW
Aroclor - 1221	SW846 8082A	<6900	6890	µg/Kg	07/20/15	BRW
Aroclor - 1232	SW846 8082A	<6900	6890	µg/Kg	07/20/15	BRW
Aroclor - 1242	SW846 8082A	<6900	6890	µg/Kg	07/20/15	BRW
Aroclor - 1248	SW846 8082A	<6900	6890	µg/Kg	07/20/15	BRW
Aroclor - 1254	SW846 8082A	51000	6890	µg/Kg	07/20/15	BRW
Aroclor - 1260	SW846 8082A	<6900	6890	µg/Kg	07/20/15	BRW
Aroclor - 1262	SW846 8082A	<6900	6890	µg/Kg	07/20/15	BRW
Aroclor - 1268	SW846 8082A	<6900	6890	µg/Kg	07/20/15	BRW
PCB - Surrogate Recoveries						
DCB	D					
TCMX	D					
135879-002	12152-PCB-02					
Semi-volatile Organic Compounds						
Aroclor - 1016	SW846 8082A	<370000	369000	µg/Kg	07/20/15	BRW
Aroclor - 1221	SW846 8082A	<370000	369000	µg/Kg	07/20/15	BRW
Aroclor - 1232	SW846 8082A	<370000	369000	µg/Kg	07/20/15	BRW
Aroclor - 1242	SW846 8082A	<370000	369000	µg/Kg	07/20/15	BRW
Aroclor - 1248	SW846 8082A	<370000	369000	µg/Kg	07/20/15	BRW
Aroclor - 1254	SW846 8082A	8250000	369000	µg/Kg	07/20/15	BRW
Aroclor - 1260	SW846 8082A	<370000	369000	µg/Kg	07/20/15	BRW
Aroclor - 1262	SW846 8082A	<370000	369000	µg/Kg	07/20/15	BRW
Aroclor - 1268	SW846 8082A	<370000	369000	µg/Kg	07/20/15	BRW
PCB - Surrogate Recoveries						
DCB	D					
TCMX	D					

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. PPM = mg/kg | PPB = µg/kg. The test results reported relate only to the samples submitted.

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: Buffalo & Erie County Library
Location: Buffalo, NY
Number: 12152

Order #: 135879

Matrix Bulk
Received 07/16/15
Reported 07/20/15

PO Number:

Sample ID / Parameter	Cust. Sample ID / Method	Result	RL*	Units	Analysis Date	Analyst
135879-07/20/15 04:04 PM						

Reviewed By: **Thoria Nadiem**
Organics Analyst

Certifications

Paramater	Method	Matrix	CT	NY	VA
Aroclor - 1016	SW846 8082A	Bulk	X	X	X
Aroclor - 1221	SW846 8082A	Bulk	X	X	X
Aroclor - 1232	SW846 8082A	Bulk	X	X	X
Aroclor - 1242	SW846 8082A	Bulk	X	X	X
Aroclor - 1248	SW846 8082A	Bulk	X	X	X
Aroclor - 1254	SW846 8082A	Bulk	X	X	X
Aroclor - 1260	SW846 8082A	Bulk	X	X	X
Aroclor - 1262	SW846 8082A	Bulk	X	X	X
Aroclor - 1268	SW846 8082A	Bulk	X	X	X

Key

State	Regulatory Agency - Lab ID	Certificate Number
CT	CT DPH	PH-0118
NY	NYELAP-11413	52362
VA	Virginia DCLS/DEQ - 460135	7939

'X' indicates that the analyte is accredited.

If your state is not listed above, call laboratory for accreditation/certification information.

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. PPM = mg/kg | PPB = µg/kg. The test results reported relate only to the samples submitted.

135879

V:\135\135879

SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabinc.com e-mail: info@slabinc.com

Submitting Co.	Watts Architecture and Engineering	Lab WO#		Phone	(716) 206-5157
95 Perry Street, Buffalo, NY 14203		Acct #		Fax \ Email	jgrady@watts-ae.com
		**State of Collection	NY	**Cert. Required	☒ Yes ☐ No

Project Name:	Buffalo and Erie County Library
Project Location:	Buffalo, NY
Project Number:	12152
Purchase Order #	
TAT Requested	(Business Day)☐ 1 ☐ 2 ☐ 3☐ 4☒ 5 ☐ 10 ☐ Other: _____

Special Instructions [include requests for special reporting or data packages]

Bulk Samples of Caulk for PCB analysis

Sample #	**Date Sampled	**Time Sampled	# Containers	Chlorine (Cl)	Temp *	pH	Matrix: Drinking Water	Waste Water	Ground Water	Soil / Sludge	Wipe	Oil or Air	Bulk	Analysis Request: BTEX ☐ MTBE ☐ Naphthalene ☐	Purgeable Aromatics 8021 ☐	Petrol Hydrocarbons GC 8015M Diesel ☐ 8015M Gas ☐	TPH 418.1 ☐	Corrosivity ☐ Reactivity ☐ Flashpoint, Closed Cup ☐	Volatile Organics 624 ☐ 8260 ☐	Semivolatile Organics 625 ☐ 8270 ☐	PAHs 610 ☐ 8270 ☐ 8310 By HPLC ☐	TCLP Semi-Vols ☐ BNAs ☐ Pest ☐ Herb ☐ VOAs ☐ Full ☐	Pesticides 608 ☐ 8081 ☐ Herbicides 8151 ☐ PCB's 8082 ☒	Other
12152-PCB-01 (Granite Caulk)			1										X										X	
12152-PCB-02 (Marble Caulk)			1										X										X	

Sampled by	Relinquished to lab by		Sample Disposal
NAME Jerry Grady	NAME Jerry Grady	7-16-15	If samples over red. weight (Refer to Fee Schedule)
SIGNATURE	SIGNATURE		☐ Return to Sender (Shipping fees)
DATE/TIME 7/15/15 10:00	DATE/TIME		☒ Disposal by lab ($50 fee)

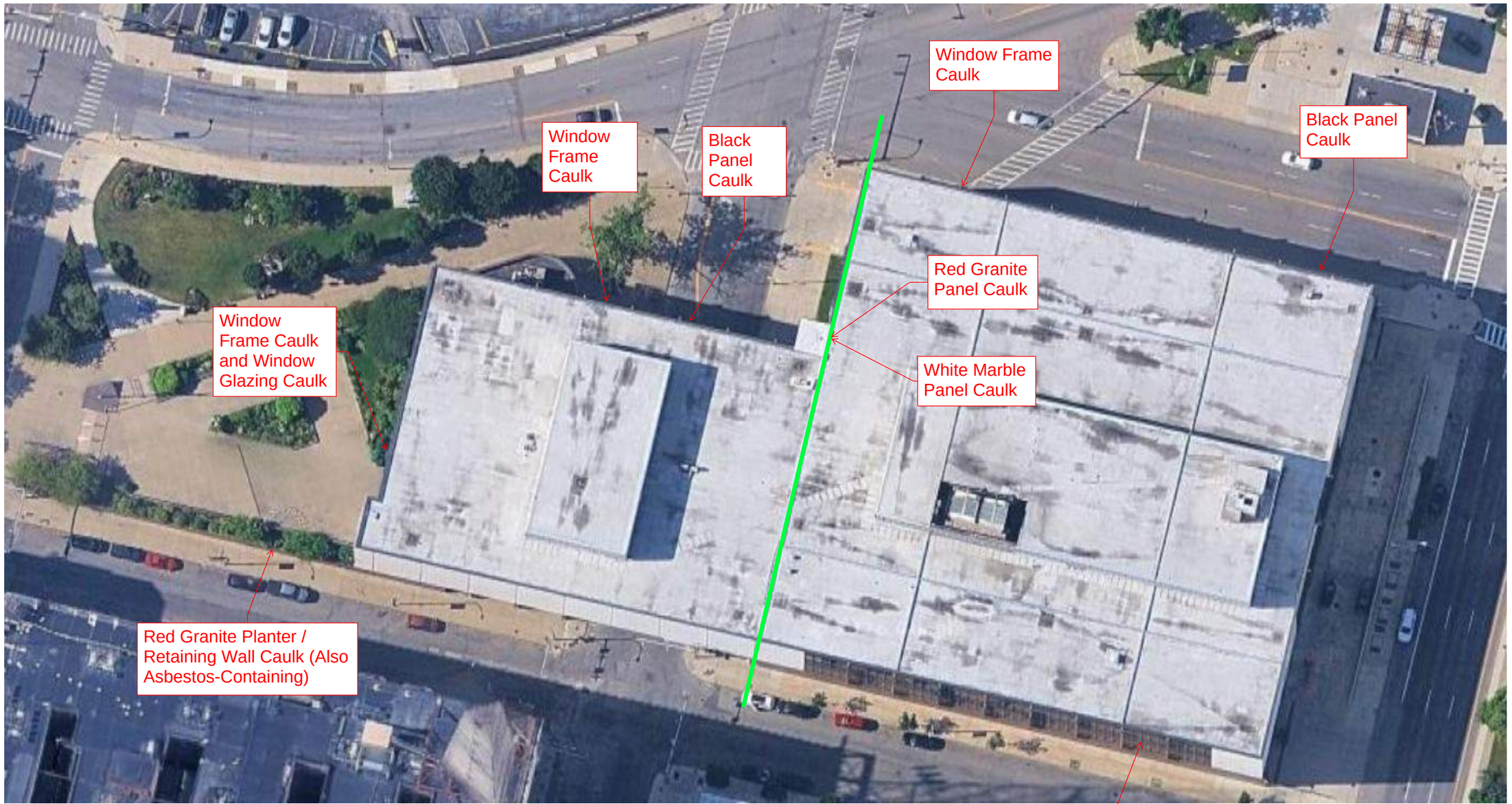
Preserved ☐ Yes ☐ No ☐ Ambient temp ☐ Ice ☐ R ☐ S ☐ X ☐ Receive a physical copy of report.

Shipping Methods: ☒ FX ☐ UPS ☐ USM ☐ HD ☐ DB WB: 5409

* Temperature taken with IR Gun A. **Required.

Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.

APPENDIX A – PCB-CONTAINING SEALANT MARKUP



THESE MATERIALS HAVE BEEN IDENTIFIED TO BE PCB-CONTAINING AS PART OF THE CURRENT PROJECT AND FROM PRIOR INVESTIGATIONS.

JULY 2026



Florida | Georgia | New York | North Carolina | Ohio | Pennsylvania | South Carolina | Virginia
800 274 9000 CPLteam.com



Buffalo and Erie County Public Library

Building Envelope Improvement Report

April 14th, 2026

CPL
ARCHITECTURE
ENGINEERING
PLANNING
CPLteam.com

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April 14, 2026

Re: Project Assignment A – Exterior Marble Panel Stabilization | Pre-Design

Dear Ms. Amanda Aponte,

The following documentation represents the culmination of CPL's pre-design analysis of the Buffalo & Erie County Public Library for the repair and stabilization of the building's exterior envelope. Please let CPL know if there are any questions or comments on the contents of this document.

Very truly yours,



Paul Dudkowski, AIA
Senior Project Manager
CPL

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APPENDIX B - SCHEDULE

APPENDIX C - COST ESTIMATE

APPENDIX D - HAZARDOUS MATERIALS INFORMATION

APPENDIX E - SHPO LETTER

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EXECUTIVE SUMMARY

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EXECUTIVE SUMMARY

This document has been prepared to assist the Erie County Department of Public Works – Division of Buildings and Grounds (hereinafter referred to as the "County") in its decision-making process regarding exterior building envelope improvements to the Buffalo & Erie County Public Library. This report serves as the pre-design submission for this contract and will be followed by subsequent design phase submissions of 30%, 75%, and Bid Documents.

The County intends to proceed with the removal and replacement of the building's exterior sealants, including those at stone wall panels, fenestration, planters, metal trim, and related components. In addition, the County plans to repair or replace stone wall panels and planter panels that have shifted, are damaged, or are otherwise loose. As part of this effort, the building exterior will also be refreshed through cleaning of all street-visible exposed envelope surfaces.

Appendix D, provided by the County, includes a statement from its contracted hazardous materials sampling consultant, Watts A&E. Their findings indicate that no asbestos-containing materials were observed in the exterior sealants; however, certain sealant samples contained PCB concentrations exceeding 50 ppm. As such, associated debris will require handling and disposal as hazardous waste.

Both short-term and long-term repair recommendations are provided for the majority of observed conditions. Short-term solutions generally offer less expensive and less invasive approaches to stabilizing stone panels; however, they may be less aesthetically desirable and may require monitoring at approximately five-year intervals to confirm continued performance. Monitoring would assess whether additional movement has occurred or whether the combination of interim repairs, weep improvements, and sealant replacement has proven effective.

The most recent major exterior rehabilitation project, which included caulking replacement and weatherproofing, was completed in 2003—nearly 25 years ago. While building envelope integrity is critical for all structures, it is particularly vital for the Buffalo & Erie County Public Library, which houses millions of volumes as well as rare and irreplaceable collections. Any water infiltration could result in significant damage.

The design team consulted with a third-party cost estimator, S&C Companies, and a masonry expert, R.E. Kelley, Inc., to help define the project scope, evaluate repair and replacement strategies, develop a construction schedule, and determine appropriate bid packaging.

It is recommended that the full scope of work be issued as a single bid package, with base bid and alternates to provide flexibility in funding, scheduling, and phasing. The proposed breakdown is as follows:

- Base Bid: North and West building facade scope of work
- Alternate No. 1: Planter scope of work
- Alternate No. 2: South and East facades and underpass scope of work

FINDINGS & RECOMMENDATIONS (F&R)

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FINDINGS & RECOMMENDATIONS (F&R)

FINDINGS OUTLINE

Below is an outline of the Architect/Engineer's (A/E's) findings, each of which is further detailed in the following pages along with corresponding short-term and/or long-term recommendations:

A. Signage

B. Site Logistics

C. Means and Methods

D. Building Envelope Cleaning

E. Sealant Replacement

F. Stone Panel Elevation Repairs
   1. Overview of Panel Types
   2. Overview of General Findings
   3. Hairline Cracks <1/8-inch
   4. Previously Repaired Cracks
   5. Crack >1/8-inch at Corner
   6. Cracks >1/8"-inch horizontally though full panel
   7. Crack >1/8-inch at area of structural steel and/or flashing
   8. Cracks >1/8" horizontally though full banding panel
   9. Spalling
   10. Panel Shifted Out of Plane <1/4-inch
   11. Panel Shifted Out of Plane >1/4-inch
   12. Weeps

G. Underpass Repairs
   1. Wall tile
   2. Concrete Curb
   3. Anchored Stone Ceiling Panels
   4. Suspended Stone Ceiling Panels

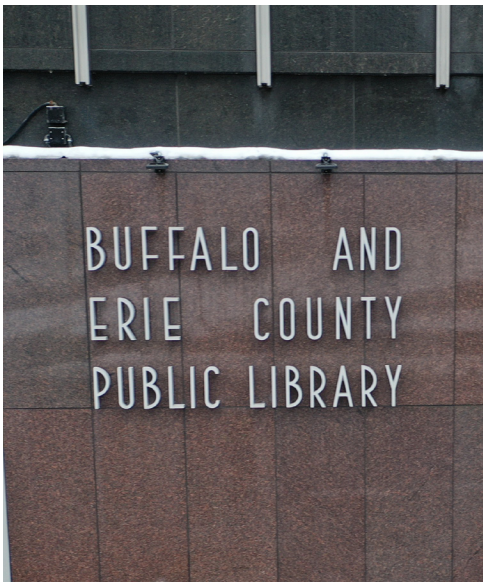
H. Planter Repairs
   1. Hairline Cracks <1/8-inch & Crack >1/8-inch
   2. Previously Repaired Cracks
   3. Planter Flashing
   4. Concrete Planter Bed
   5. Membrane Planter Bed
   6. Planter Cap Shifted
   7. Panel Shifted Out of Plane >1/4-inch
   8. Panel Shifted Out of Plane <1/4-inch

F&R - A. SIGNAGE

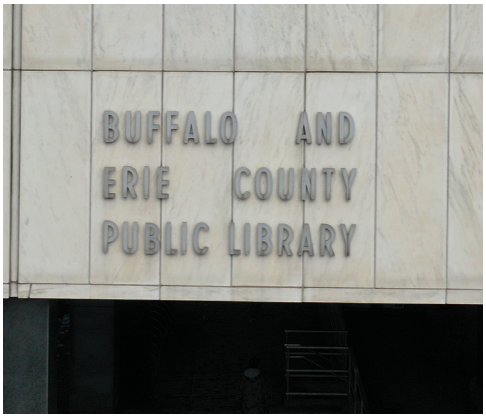
GENERAL NOTES



Signage, lettering, placard on West facade



Lettering on West facade (existing to remain)



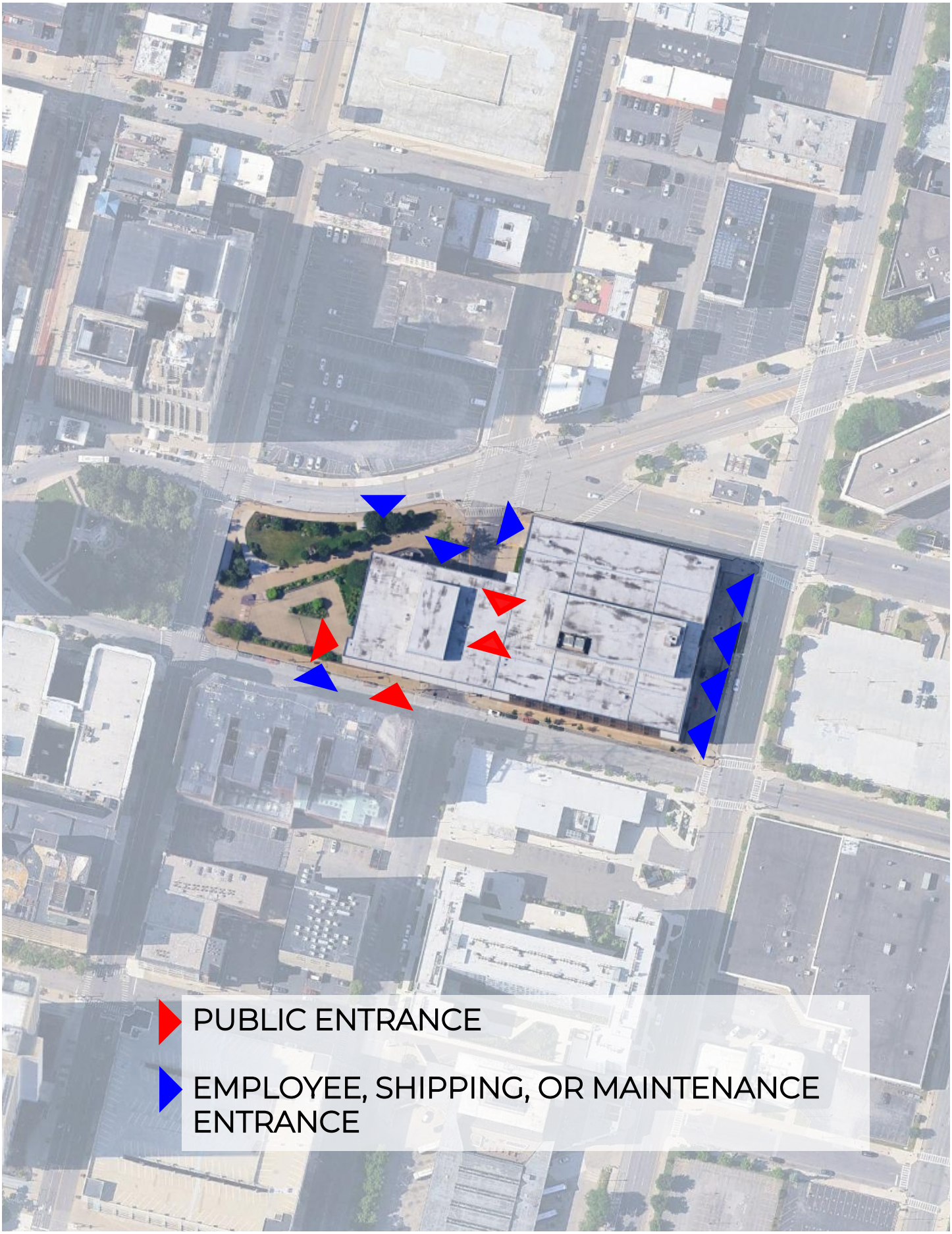
Lettering on South facade

- **Vinyl Signage:**
  The Owner has indicated that all vinyl-adhered signage within the work area will be removed, as necessary, to facilitate the contracted scope of work. The Contractor shall coordinate with the Owner's Representative prior to commencing work to confirm which signage is to be removed. The Owner's Representative has further indicated that the Owner will be responsible for furnishing and installing new vinyl signage upon completion of construction and final cleaning.

- **Painted Metal Placard (West Facade):**
  The painted metal placard depicting an outline map of Erie County at the west facade exhibits signs of wear and deterioration. The placard shall be removed, stripped of existing paint, and refinished to match the adjacent new extruded lettering. Following refinishing, the placard shall be reinstalled into the stone substrate using new epoxy anchors. Existing anchor holes shall be infilled as necessary.

- **Extruded Building Lettering (West Facade):**
  The existing extruded building lettering, which was previously painted black, exhibits deterioration of the paint finish and overall signs of wear. The lettering shall be removed and replaced with new extruded lettering, factory-finished in black to provide contrast against the white marble substrate.

- **Extruded Building Lettering (South Facade – Above Underpass):**
  The existing extruded aluminum or stainless steel building lettering is generally in fair condition; however, the Owner's Representative has recommended removal and replacement to maintain consistency with other building signage. The lettering shall be removed and replaced with new extruded lettering, factory-finished in black to match adjacent signage. The black finish will provide improved contrast against the white marble substrate and enhance visibility.



Site Diagram, showing building entrances

F&R - B. SITE LOGISTICS

GENERAL NOTES

- **Site Logistics Coordination:**
  Site logistics, including staging, material storage, access routes, and coordination with ongoing building operations, will be addressed as part of the Contract Documents. These documents will establish requirements related to project phasing, public and employee safety, maintenance of building access, temporary protections, and potential impacts such as road or sidewalk closures.

  Given the nature of facade work occurring overhead, particular emphasis will be placed on protecting the public and building occupants from falling debris and construction activities above. Anticipated measures may include, but are not limited to, covered walkways, temporary canopies at building entrances, clearly defined pedestrian detours, and the use of temporary entrances where required. Additional safety provisions may include temporary fencing, barricades, controlled access zones, and signage to clearly identify restricted areas and direct pedestrian flow.

  The Contract Documents will also address the phasing of work to minimize disruption, including coordination of road closures, sidewalk closures, and implementation of covered walkways or alternate access points as needed to maintain safe and continuous building operations.

  These logistics strategies will be further refined and finalized in subsequent design submissions, with input from the County, masonry consultant, estimator, and relevant vendors to ensure a coordinated and practical approach.

- **Building Coordination:**
  Coordination with the Owner will be required throughout the project to address life safety measures, phasing, staging, building access, temporary entrances, signage, and occupant notifications. The Contractor shall work closely with the Owner's Representative to maintain safe and continuous building operations, including coordination of any temporary disruptions and advance notice of construction activities impacting occupants or visitors.

- **Building Mounted Devices:**
  Building mounted cameras, electrical conduit, wall pack fixtures, and other similar devices that may be impacted by the work shall be temporarily removed and reinstalled by the Owner. The Contractor shall coordinate all required removals with the Owner and provide a minimum of ten (10) business days' advance notice prior to any work that would impact these systems.

F&R - C. MEANS AND METHODS

GENERAL NOTES

Means and Methods Coordination:
Initial discussions have been initiated with masonry expert R.E. Kelley regarding potential means and methods to accomplish the anticipated scope of work. As the scope continues to be refined through coordination between the Architect and the County, the project team will be better positioned to identify appropriate construction approaches.

While the Contractor will ultimately be responsible for all means and methods, the Contract Documents will provide general guidance and outline acceptable options for facade access and panel removal/installation, including scaffolding, aerial lifts, swing stages, cranes, and other systems. At this stage, it is premature to determine the most appropriate approach. As the scope becomes more defined, the A/E team will continue coordination with the masonry consultant to evaluate and outline potential techniques.

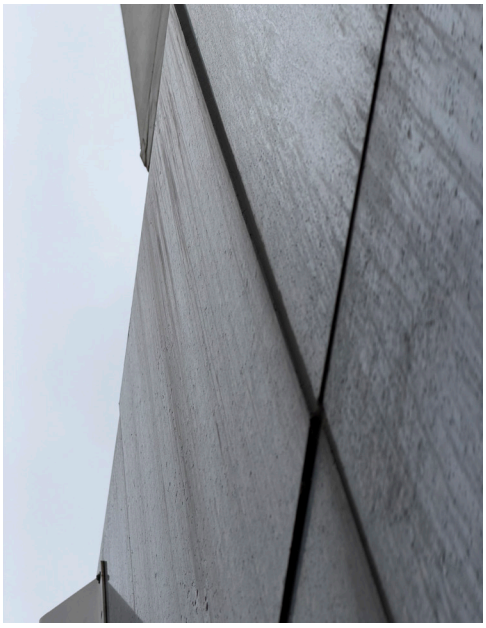
Typical Marble Panel Removal and Installation Techniques:
1. Scaffolding: Panels are accessed from full-height supported scaffolding. The panel is secured with rigging, existing anchors and sealants are carefully removed, and the panel is lifted off its supports. Reinstallation (or replacement) is completed by setting the panel onto new or existing anchors, aligning, anchoring, and resealing joints.
2. Swing Stages (Suspended Scaffolding): Workers access panels from a suspended platform. The panel is rigged from above or from the stage, anchors and joints are released, and the panel is carefully lowered or lifted away. New or refurbished panels are hoisted into position, set onto anchors, and sealed.
3. Aerial Lifts (Boom/Scissor Lifts):Panels are accessed via lifts for localized work. The panel is rigged to a crane or hoist, disconnected from anchors, and removed. Installation involves lifting the panel into place, aligning with anchor points, securing, and sealing.
4. Crane-Assisted Removal/Installation: A crane is used to support and lift large or heavy panels. The panel is rigged, anchors and sealants are removed, and the panel is lifted clear of the facade. New or repaired panels are hoisted into position, set onto anchors, adjusted for alignment, and sealed.
5. Davit/Hoist Systems: Temporary davits or hoists are installed at the roof level to raise and lower panels. Panels are rigged, detached, and lowered to grade. Replacement panels are lifted back into place, secured to anchors, and sealed.
6. Manual / Hand Removal (Small Panels Only):
For smaller or lighter panels, workers may manually remove panels after detaching anchors and sealants. Panels are lowered by hand or with light rigging. Reinstallation follows the same process with careful placement, anchoring, and sealing.

Note: Final selection of method will depend on panel size/weight, building height, site constraints, and safety considerations.

Geotechnical Testing for Crane Operations:
The Contractor shall be responsible for evaluating existing site and subsurface conditions and performing any geotechnical investigation, analysis, or testing necessary to safely support crane loads, outrigger reactions, and associated equipment. This may include, but is not limited to, soil bearing capacity verification, pavement evaluations, and recommendations for temporary matting or ground improvements. All such evaluations shall be performed by a qualified professional and submitted for review in accordance with the Contract Documents.

F&R - D. BUILDING ENVELOPE CLEANING

CLEANING: STONE WALL PANELS AND TILE



Accumulated grime on granite panels



Accumulated grime on mosaic tile



Stained marble stone panel surface

FINDINGS

- Clean existing white marble, green/black granite, and red granite stone wall panels.
- Clean mosaic tiles at underpass.

RECOMMENDATIONS

Cleaning shall be preceded by testing in an inconspicuous area to determine the gentlest effective method that will not damage the stone surface, in accordance with National Park Service Preservation Briefs 1 and 6.

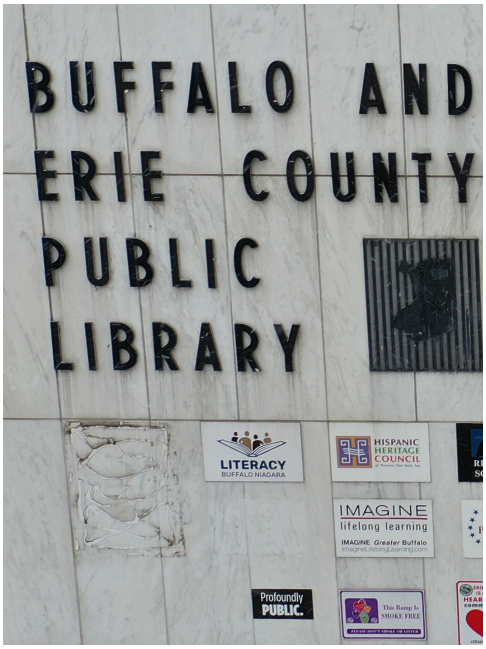
Testing shall begin with the least aggressive approach, utilizing low-pressure water (100 psi maximum) with scrubbing using a natural or synthetic bristle brush at areas of persistent soiling. If necessary, a non-ionic or alkaline detergent may be introduced following testing. If initial methods are ineffective, progressively more aggressive techniques may be evaluated, including low-pressure water up to 400 psi, followed by low- and medium-pressure steam cleaning (hot pressurized water), each in combination with gentle brushing.

Acidic cleaners and abrasive methods shall not be permitted. Non-ionic or alkaline detergents are recommended for both polished and unpolished marble, with final selection based on test results. Water pressure shall be carefully controlled at all times to prevent etching or dulling of the stone surface. A timed water soaking method is not preferred due to cost and site constraints; however, it may be considered if lower-pressure methods result in surface damage.



Staining at stone sill

CLEANING: INK STAINING AT MAIN ENTRANCE (WEST)



Staining at entrance signage

FINDING

During a walkthrough with the Owner's Representative, an ink stain was noted beneath adhered signage on a white marble panel. Previous removal attempts by a mason were unsuccessful.

RECOMMENDATION

Address ink staining using the least aggressive methods first. Begin with approved low-pressure washing and mild detergent cleaning in accordance with National Park Service Preservation Briefs 1 and 6.

If unsuccessful, perform a test in an inconspicuous area using a specialty cleaner such as Lithofin Graffiti Remover. Apply by spraying and brushing, allow proper dwell time, then rinse with water and brush. Repeat as needed for stubborn staining.

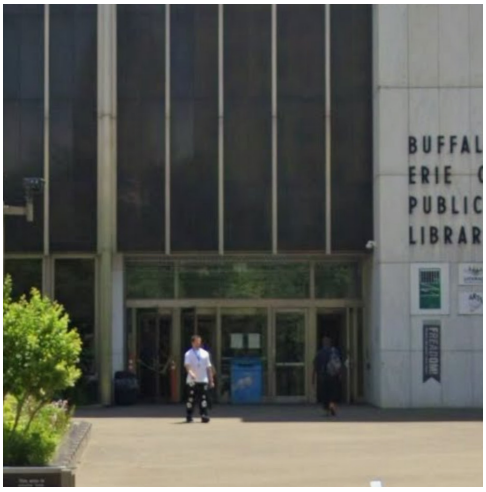
CLEANING: GLASS



Typical storefront system



Storefront system at underpass



Storefront system at first floor entrance

FINDING

Glass within fenestration systems, including doors, storefronts, curtain wall, and windows, was observed adjacent to all areas of work.

RECOMMENDATION

Clean all glass and glass systems throughout the building facade.

The glass and its associated systems will become increasingly soiled due to the nature of the masonry work. They shall be cleaned as required to facilitate sealant replacement and to provide a uniform, revitalized appearance by cleaning all exterior building surfaces visible from street level.

Cleaning shall be performed in accordance with National Park Service Preservation Brief 6 and applicable industry standards for glass cleaning. Methods shall utilize the least aggressive means possible, including low-pressure water and non-abrasive, non-ionic cleaning agents. Abrasive tools, high-pressure washing, and harsh chemicals that may damage glass, coatings, sealants, or adjacent materials shall not be permitted. Test areas shall be performed prior to full implementation.

CLEANING: METAL TRIMS, CURTAIN WALL, STOREFRONT, DOORS, AND WINDOWS





Accumulated grime at windows and glass



Staining on Overhead Door

METAL CONDITIONS

- steel/aluminum overhead coiling doors.
- metal door, or louver systems
- curtain wall, storefront, and windows
- decorative metal trims

FINDINGS

Stainless steel and aluminum decorative elements and fenestration trim were observed adjacent to areas of masonry work and are anticipated to become soiled during construction activities. The metal trim is generally in good condition and does not require major modification or replacement; however, isolated locations were observed where fasteners should be replaced to prevent separation of the trim and potential water infiltration.

RECOMMENDATIONS

Clean metal surfaces using the least aggressive means possible to remove construction-related soiling and restore a uniform appearance. Cleaning shall be performed in accordance with National Park Service Preservation Brief 6, with supplemental guidance from Preservation Brief 13 where applicable to metal window systems.

Methods shall include low-pressure water and mild, non-abrasive, non-ionic cleaning agents compatible with the specific metal and finish. Abrasive tools, high-pressure washing, and harsh or acidic/alkaline cleaners that may damage protective coatings or finishes shall not be permitted. Cleaning of stainless steel shall follow the direction of the existing grain to avoid surface scratching, and aluminum finishes shall be cleaned in accordance with manufacturer recommendations to prevent damage to anodized or coated surfaces.

Test areas shall be performed prior to full implementation to confirm compatibility and effectiveness.

Perform minor spot repairs, including replacement of deficient fasteners, to ensure trim remains secure and watertight.

F&R - E. FULL ENVELOPE SEALANT REPLACEMENT

SEALANT REPLACEMENT



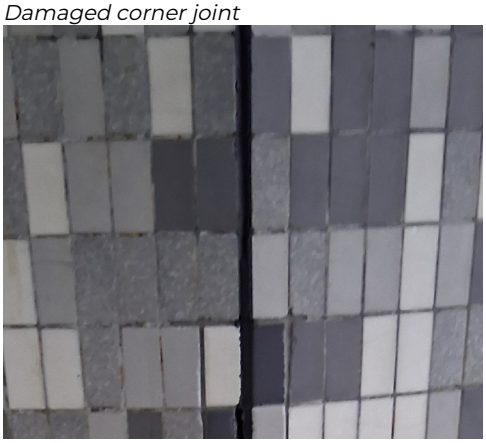
Deteriorated Sealant Joint



Deteriorated Sealant Joint



Damaged corner joint



Damaged sealant between tile walls

JOINT CONDITIONS

- Stone to Stone (red and green/black granite, and white marble)
- Stone to Stainless Steel Trim
- Stainless Steel Window System Components
- Stainless Steel Window System Components
- Tile Wall to Tile Wall at Underpass
- Tile Wall to Stone Panel
- Tile Wall to Curtain wall
- Concrete Sidewalk to Stone/Tile/Concrete
- Man / overhead door frame at stone panels
- Louvers at stone panels

FINDINGS

The existing exterior sealant was last replaced in approximately 2006 and is at or beyond its typical service life of roughly 20 years for exterior silicone applications. The sealant should be replaced to prevent water infiltration.

RECOMMENDATION

Remove all existing sealant, both horizontal and vertical, at joints between stone panels, stainless steel trim, man doors, overhead doors, louvers, tile, and at concrete sidewalks adjoining wall construction, including columns. Clean and prepare all joints to receive new sealant.

Provide new silicone sealant at all stone joints, including setbacks, returns, columns, and reveals. Install backer rod where applicable to ensure proper joint configuration and performance.

Where weeps currently exist within the stone system, remove and replace with new weep components. Where weeps are not present at locations such as structural steel, shelf angles, and or flashing, provide new weeps at vertical joints to facilitate proper drainage and prevent water from pooling within the wall assembly.

Existing weeps associated with fenestration systems shall remain and shall not be obstructed or sealed over during sealant installation.




LIBRARY

F.1. STONE WALL PANELS - OVERVIEW OF PANEL TYPES



Stone Type 'A'

STONE TYPE 'A'- GREEN GRANITE WALL PANELS

Located on the first and second floors on all sides of the building, this system consists of approximately 2-inch-thick green granite stone panels set in a 1-inch mortar bed with dovetail anchors at the top, bottom. Panels are stacked with caulked horizontal joints and include both vertical joints at stainless steel trim locations and vertical joints where stone panels meet stone, which are sealed with caulk. Anchors are either secured to the masonry substrate, likely hollow clay tile, or welded to structural steel; at welded locations, anchors penetrate through the through-wall flashing at the structural steel. No weeps were observed at these flashing locations, indicating they may have been covered with caulk. No side anchors were observed, nor are they indicated in the 1960s drawings.



Stone Type 'B'

STONE TYPE 'B" - RED GRANITE WALL PANELS

Located at the ground floor on all sides of the building, this system consists of approximately 2-inch-thick red granite stone panels set in a 1-inch mortar bed with dovetail anchors at the top and bottom of each panel. Anchors are either secured to the masonry substrate (likely hollow clay tile), concrete substrate, or welded to structural steel. No side anchors were observed, nor are they indicated in the 1960s drawings.

Weeps were observed in some locations where the stone panels meet the sidewalk; however, other weep locations were not observed and were likely covered with caulk. In several instances, damaged sealant was noted at locations where weeps appear to have been previously sealed over.



Stone Type 'C'

STONE TYPE 'C' - WHITE MARBLE WALL PANELS

Located at the first and second floor levels above the red and green granite on all sides of the building, this system consists of approximately 2-inch-thick white marble stone panels set in a 1-inch mortar bed on a masonry substrate, likely hollow clay tile. Panels are anchored at the top and bottom with dovetail anchors set into masonry, anchored into slots in concrete beams, attached to steel beams or lintels (angle shelves), or welded to structural steel. At welded locations, anchors penetrate through the through-wall flashing at the structural steel. No side anchors were observed, nor are they indicated in the 1960s drawings. No weeps were observed in this system.

F.2. STONE WALL PANELS - OVERVIEW OF GENERAL FINDINGS





Dovetail Anchors

Common deficiencies associated with aging stone panel systems that may be applicable to this building include the following:

1. Cracking is commonly observed at the bottoms of panels and at horizontal banding locations, typically at flashing lines and structural steel supports. In many, if not all, of these locations, no exposed weeps were observed.

2. Stone panel dovetail anchors penetrate the flashing to allow for welded connections to structural steel. If flashing was not properly sealed at these penetrations, or if connections have shifted over time, water infiltration may occur. This can lead to corrosion of structural steel and surrounding construction, potentially causing delamination, loss of support, and panel displacement.

3. Without destructive testing, it is difficult to confirm whether anchors are ferrous or stainless steel. Ferrous anchors, when exposed to moisture, may corrode and expand (rust jacking), contributing to panel movement. Corrosion also reduces anchor capacity, increasing the risk of failure if left unaddressed. Evidence of corroded ferrous anchors was observed where a stone planter panel became dislodged and no longer secured to the structure.

4. Weeps were not observed in the majority of locations where they are typically expected. If water infiltrates behind panels due to shifting, failed sealant, or other deficiencies, it may collect at flashing lines. Without weeps, this trapped moisture cannot drain, increasing the likelihood of damage to panels, anchors, and substrates, particularly under freeze thaw conditions typical of the Buffalo climate.

5. Given the panels were installed approximately 60 years ago, multiple factors may have contributed to movement, including environmental forces such as wind or seismic activity, impact, water infiltration, and vibrations from traffic or nearby construction. These conditions may have compromised the mortar bed bonding the panels to the substrate. As the mortar deteriorates, fragments and dust can accumulate behind the panels. Without an air cavity, this buildup may exert pressure at the base of panels, contributing to misalignment and preventing panels from being reset without removal.

F.3. STONE WALL PANELS - HAIRLINE CRACK < 1/8-INCH:



"Hairline" cracks

FINDINGS

Cracks less than 1/8-inch wide were observed in existing stone, including red and green/black granite and white marble. While not an immediate concern, these cracks may worsen over time if left unaddressed, potentially leading to further cracking, water infiltration, separation of stone fragments, and possible displacement due to freeze thaw cycles.

RECOMMENDATIONS

For cracks less than 1/8-inch wide and holes smaller than 2 inches in diameter, first determine the cause of the defect, such as impact, natural flaws, attachments, or panel anchoring. Provide a two component epoxy resin with marble dust aggregate, specifically designed for patching or bonding of stone units. Once the patching material has cured, grind and polish the surface to match the adjacent stone in appearance and finish.

F.4 STONE WALL PANELS - PREVIOUSLY REPAIRED CRACKS:



Deteriorating previously repaired crack



Intact epoxy repair

FINDINGS

Previously repaired cracks were observed in existing stone, including red and green/black granite and white marble. Repairs consist of either epoxy or sealant. Epoxy repairs that remain intact are not a concern. However, locations with failing epoxy repairs or sealant repairs, last replaced in approximately 2006 and now exceeding their expected service life, may deteriorate over time if left unaddressed. This could result in further cracking, water infiltration, separation of stone fragments, and potential displacement due to freeze thaw cycles.

RECOMMENDATIONS

At locations with failing epoxy or sealant repairs, first determine the cause of the defect, such as impact, natural flaws, attachments, or panel anchoring. Provide a two component epoxy resin with marble dust aggregate, specifically designed for patching or bonding of stone units. Once the patching material has cured, grind and polish the surface to match the adjacent stone in appearance and finish.

F.5. STONE WALL PANELS - CRACK > 1/8-INCH AT CORNER:



Cracks at corner panels

FINDINGS

Previously repaired cracks at stone panel corners, as well as unrepaired cracks at similar locations, were observed in existing stone, including red and green/black granite and white marble. These conditions may allow for water infiltration and could lead to potential displacement due to freeze thaw cycles.

RECOMMENDATIONS

SHORT-TERM - REPAIR IN PLACE.

At cracked locations, first determine the cause of the defect, such as impact, natural flaws, attachments, or panel anchoring. Provide a two component epoxy resin with marble dust aggregate, specifically designed for patching or bonding of stone units. Once cured, grind and polish the repair to match adjacent stone. Note that this repair may be susceptible to future damage if underlying causes are not addressed.

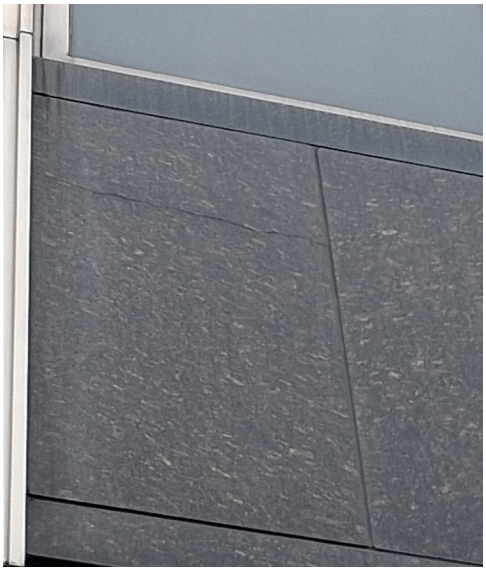
LONG-TERM - REPAIR IN PLACE.

For more severe or recurring cracking, perform a Dutchman repair. Remove loose and unsound stone while retaining salvageable fragments where feasible. Remove and replace any ferrous anchors with stainless steel anchors, cleaning or replacing as necessary. Square off the repair area, clean all surfaces, and fit a new stone Dutchman to match the existing material.

For larger repairs, provide additional reinforcement by drilling into both the existing stone and the Dutchman and installing stainless steel pins set in adhesive. Secure the Dutchman with epoxy adhesive, ensuring proper alignment and bond. Clean excess adhesive, then patch and tool edges to match surrounding stone. Maintain appropriate curing conditions until materials are fully set.

F.6. STONE WALL PANELS - CRACK >1/8" HORIZONTALLY THROUGH FULL PANEL







Cracks through full stone panels

FINDINGS

Cracks extending fully through the stone wall panel were observed. This condition may allow for water infiltration and could lead to potential displacement due to freeze thaw cycles and loss of structural integrity. This condition presents an immediate life safety concern and should be repaired in the short term.

RECOMMENDATIONS

OPTION 1 – REMOVE, REPAIR, AND RESET PANEL:

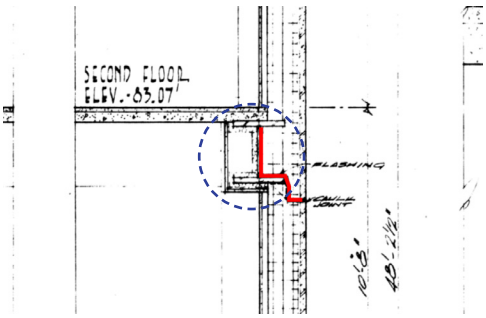
Remove the existing stone panel and provide temporary shoring as required. Repair the full-depth crack using epoxy injection in combination with helical pins to stabilize the panel. Replace existing ferrous anchors with new stainless steel anchors, then reset the repaired panel in its original location. This approach retains existing material and minimizes visual disruption; however, the repaired crack may remain visible, particularly at lower elevations, and will be less noticeable at higher elevations.

OPTION 2 – REMOVE AND REPLACE PANEL:

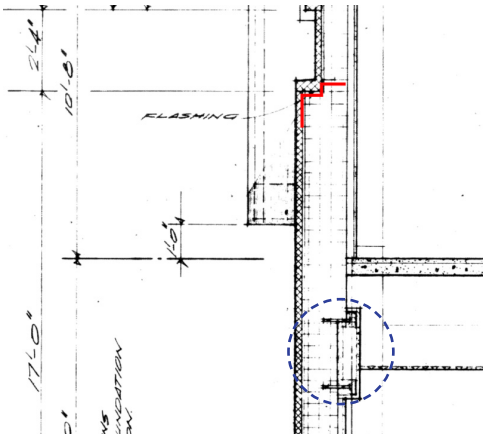
Remove the existing cracked panel and salvage portions suitable for Dutchman repairs elsewhere. Provide temporary shoring as required, and install a new stone panel to match existing in size, finish, and configuration. Replace existing ferrous anchors with new stainless steel anchors. Note that the new panel may appear brighter and more visually distinct from adjacent weathered stone in both near and distant views.

* Work shall be performed in accordance with National Park Service Preservation Briefs 1 and 6, ensuring proper handling, installation, and protection of adjacent materials.

F.7. STONE WALL PANELS- CRACK >1/8" AT AREA OF STRUCTURAL STEEL AND FLASHING AT A FULL PANEL



Original construction detail showing structural steel location (circled in blue), and potentially compromised flashing at second floor (highlighted in red).



Original construction detail showing structural steel location (circled in blue), and potentially compromised flashing near first floor (highlighted in red).



Cracking was observed at the bottom of marble stone panels at locations of structural steel and flashing interfaces.

FINDINGS

Cracks extending fully through the stone wall panel were observed at a typical flashing line and structural steel support or shelf angle location. This condition may allow for water infiltration and could lead to potential displacement due to freeze thaw cycles and loss of structural integrity. No weeps were observed at this location. This condition presents an immediate life safety concern and should be repaired in the short term.

RECOMMENDATIONS

OPTION 1 – REMOVE, REPAIR, AND RESET PANEL:

Remove the existing stone panel and provide temporary shoring as required. Repair the panel by removing approximately the bottom 8 inches to eliminate all cracked and damaged portions, and install a new matching stone segment using a Dutchman repair method, secured with helical pins. Replace existing ferrous anchors with new stainless steel anchors, then reset the repaired panel in its original location. This approach retains existing material and minimizes visual disruption; however, it introduces a new horizontal joint line not expressed elsewhere on the elevation. This joint will likely not be visible from a distance but will be noticeable at close range.

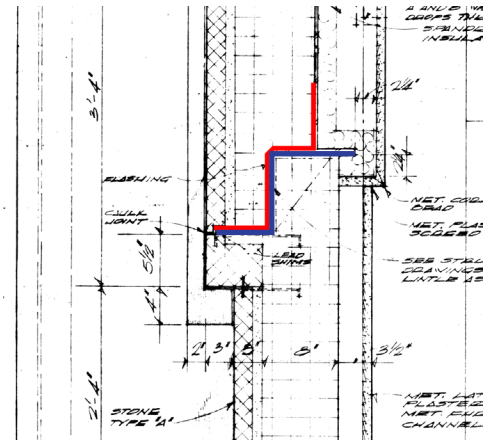
OPTION 2 – REMOVE AND REPLACE PANEL:

Remove the existing cracked panel and salvage portions suitable for Dutchman repairs elsewhere. Provide temporary shoring as required, and install a new stone panel to match existing in size, finish, and configuration. Replace existing ferrous anchors with new stainless steel anchors. Note that the new panel may appear brighter and more visually distinct from adjacent weathered stone in both near and distant views.

* Work shall be performed in accordance with National Park Service Preservation Briefs 1 and 6, ensuring proper handling, installation, and protection of adjacent materials.

** This study assumes moderate to light delamination or section loss of structural steel, allowing for repair in place. Reinforcement or partial replacement is not anticipated. Remove rust, apply primer, and provide epoxy intermediate and top coats. Remove existing through-wall flashing at areas of repair and provide new through-wall reglet flashing. Provide weeps to allow for drainage in the event water infiltrates.

F.8. STONE WALL PANELS - CRACK >1/8-INCH HORIZONTALLY FULL LENGTH OF BANDING PANELS



Original construction detail showing structural steel lintel location (highlighted in blue), and potentially compromised flashing at shelf (highlighted in red).



Cracking observed at base of marble stone



Cracking observed at base of marble stone

FINDINGS

A crack or multiple cracks greater than 1/8-inch in width at banding panels at the base of stacked stone wall panels was observed. This condition is likely due to rust jacking at the structural steel beam. No weeps were observed at the flashing edge directly above the banding. This condition may allow for water infiltration and could lead to further displacement, continued cracking, and loss of structural integrity due to freeze thaw cycles. This condition presents an immediate life safety concern and should be repaired in the short term.

RECOMMENDATIONS

OPTION 1 – REMOVE, REPAIR, AND RESET PANEL:

Remove the existing stone banding panel. Repair the crack(s) using epoxy injection in combination with helical pins to stabilize the panel. Replace existing ferrous anchors with new stainless steel anchors, then reset the repaired banding panel in its original location. This approach retains existing material and minimizes visual disruption; however, the repaired crack may remain visible, particularly at lower elevations.

OPTION 2 – REMOVE AND REPLACE PANEL:

Remove the existing cracked banding panel and provide a new stone banding panel to match existing in size, finish, and configuration. Replace existing ferrous anchors with new stainless steel anchors. Note that the new panel may appear brighter and more visually distinct from adjacent weathered stone in both near and distant views.

* Work shall be performed in accordance with National Park Service Preservation Briefs 1 and 6, ensuring proper handling, installation, and protection of adjacent materials.

F.9. STONE WALL PANELS - AREAS OF SPALLING



Spalled corners of stone panels

FINDINGS

Localized areas of stone panel face loss were observed where portions of the stone have become dislodged. This condition may be attributed to two potential causes: surface deterioration or impact over time, or water infiltration reaching embedded ferrous dovetail anchors. In the latter case, corrosion of the anchors may result in expansion (rust jacking), exerting pressure on the surrounding stone. Combined with freeze thaw cycles, this can lead to cracking, delamination, and spalling of the stone surface.

RECOMMENDATIONS

SHORT TERM REPAIR

At spalled marble panel locations, clean exposed steel angle, remove corrosion, and apply primer. Provide a surface patch repair at the stone to address localized deterioration. Monitor the panel over a 5-year period to determine if movement or deterioration progresses, as this repair does not address potential underlying causes.

LONG TERM REPAIR

Remove the affected stone panel and perform a Dutchman repair by cutting out the deteriorated portion and installing a new matching stone piece. Clean and prime the underlying steel, and replace existing anchors with stainless steel anchors. Reinstall the repaired panel in its original location.

F.10. STONE WALL PANELS - PANEL SHIFTED OUT OF PLANE < 1/4-INCH



Slightly shifted stone panels

FINDINGS

A corner or an edge of a panel is out of plane to a depth less than 1/4-inch.

RECOMMENDATIONS

At locations where a corner or edge of a panel is out of plane less than 1/4-inch, no immediate corrective action is recommended. With new sealant being provided, monitor the condition over a 5-year period. If the panel exhibits further displacement or deterioration during this time, implement repairs consistent with recommendations for panels shifted out of plane greater than 1/4-inch. If the condition remains stable, continue periodic monitoring.

F.11. STONE WALL PANELS - PANEL SHIFTED OUT OF PLANE > 1/4-INCH



Example of stone panels shifted out of plane.

FINDINGS

A corner or an edge of a panel is out of plane to a depth greater than 1/4-inch.

Localized stone panels were observed to have shifted and are out of plane. This condition is likely due to a combination of factors, including rust jacking of structural steel or ferrous dovetail anchors, water infiltration, deterioration and buildup of the mortar bed behind the panels, lack of weeps preventing proper drainage, and potential failure of roofing, flashing, sealants, or other building components allowing water to infiltrate behind the panels.

RECOMMENDATIONS



Example of stone panels shifted out of plane.

SHORT TERM REPAIR

Drill holes at each corner of the panel and install stainless steel anchors to secure the panel back to the substrate, including structural steel or concrete where feasible. Where anchorage into solid substrates is not possible, epoxy sleeves may be used within hollow clay tile, subject to approval and stamped engineering judgment. Provide new marble plugs, cut to match existing stone, to conceal anchor locations. This repair may function as a temporary stabilization measure, as it does not address potential underlying causes. While the plug material will be selected to match, slight variations in pattern may be visible upon close inspection, though not readily apparent at a casual view.

LONG TERM REPAIR

Remove the affected stone panel and salvage for reinstallation where feasible. Remove existing ferrous anchors and replace with stainless steel anchors. Reset the panel in proper alignment and provide new flashing where applicable to improve moisture management and long-term performance. Salvaged panels are preferred to maintain consistency with adjacent stone in color and weathering. If the panel is too damaged to reuse, provide a new panel matching the existing stone type, color, and pattern as closely as possible. The replacement panel may appear slightly different due to lack of weathering; however, with full building cleaning, it should achieve a close visual match.



Example of stone panels shifted out of plane.

F.12. STONE WALL PANELS - WEEPS









Joint damage at base condition

FINDINGS

Minimal to no weeps were observed within the stone panel systems at all building faces and elevations, including at locations where stone interfaces with grade, flashing, structural elements, or other horizontal construction. The absence of weeps may restrict drainage and prevent water that infiltrates behind the stone veneer from properly exiting the assembly.

RECOMMENDATIONS

Provide weeps at all flashing locations and at conditions where stone panels terminate at horizontal construction that could otherwise trap moisture behind the building envelope. Install new weeps or replace existing weeps, as required, at the following locations:

1. Flashing at structural steel beam at the second floor
2. Flashing at structural steel beam at the first floor
3. Building perimeter at grade

Weeps shall be designed and installed to allow proper drainage.

F&R - G. UNDERPASS REPAIRS

G.1. WALL TILE REPAIR



Original tile damage

FINDINGS

Localized areas of mosaic wall tile were observed to be cracked, damaged, or missing. At corners and control joints, grout was observed to be missing in several locations.

RECOMMENDATIONS

Provide continuous sealant at control joints to accommodate movement. Remove damaged tiles and prepare the substrate to receive new tile and grout. Utilize available attic stock where possible; otherwise, provide new tile matching the existing in size, color, style, and pattern to the greatest extent possible, subject to Owner approval. Remove deteriorated or missing grout and regrout as required to help secure tiles and prevent further damage.



Square tile damage



Modern tile damage



Alternate square tile damage

G.2. CONCRETE CURB REPAIR



Concrete curb damage

FINDINGS

A crack was observed at the raised concrete curb below the aluminum storefront sill at the entrance.

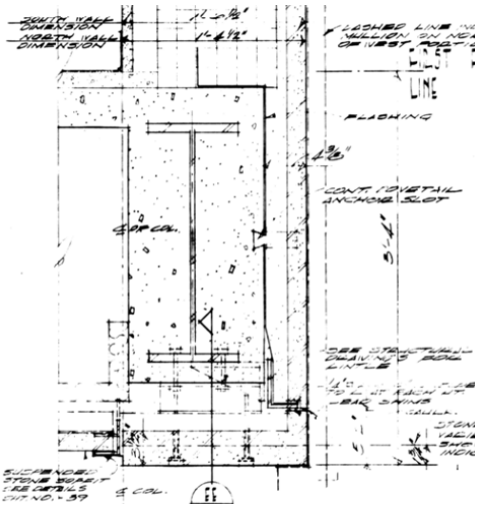
RECOMMENDATIONS

Clean and prepare the cracked area by removing debris, loose material, and contaminants. Inject an appropriate epoxy resin into the crack to restore structural continuity and prevent water infiltration. Following epoxy injection, provide a compatible cementitious or epoxy-based patching material to restore the surface profile and match adjacent finishes. Ensure proper curing in accordance with manufacturer recommendations.

G.3. ANCHORED STONE CEILING PANELS



Rusted anchors at underpass soffit



Detail of both the suspended and anchored ceiling panels.

FINDINGS

Located beneath the first floor at the ceiling of the underpass, this system consists of approximately 2-inch-thick white marble stone panels anchored to metal clips secured to the structural steel framing above. Marble plugs installed to conceal anchor locations have become dislodged in many areas, exposing anchors that exhibit signs of corrosion and rust, along with staining on adjacent marble surfaces. No weeps were observed in this system. Panels show signs of shifting, with some displaced as much as 1/2-inch out of plane relative to adjacent panels. Given the location above pedestrian and vehicular paths of travel, this condition presents a significant life safety concern and should be addressed.

RECOMMENDATIONS

Remove existing marble plugs and anchors, and replace with new stainless steel anchors. While panels are removed, inspect and repair any underlying concealed conditions as required. Provide new plugs, cut from matching marble or salvaged material, to conceal anchor locations upon reinstallation. Provide weeps for drainage of unwanted water.

G.4. SUSPENDED STONE CEILING PANELS



Rusted anchors at underpass soffit

FINDINGS

Located beneath the first floor at the ceiling of the underpass, suspended 2-inch-thick white marble stone panels are supported on stainless steel trim secured to the reinforced concrete deck above. This condition occurs directly above pedestrian and vehicular paths of travel. Based on visual observation, the suspended panels and their stainless steel support system do not appear to be out of plane or displaced.

RECOMMENDATIONS

Provide sealant at stone-to-stone joints as described in the sealants section of this report. Monitor the panels and support system on an annual basis to confirm that no shifting or displacement occurs that could create a potential life safety concern for traffic below.

F&R - 5. PLANTER REPAIRS

5.1. PLANTER WALL PANELS - CRACK





Panel cracking at planter walls

FINDINGS

Cracks less than 1/8-inch wide were observed in existing red granite planter stone panels. The panels are grouted in place and secured to a solid masonry or concrete substrate with ferrous dovetail anchors. While not an immediate concern, these cracks may worsen over time if left unaddressed, potentially leading to further cracking, water infiltration, separation of stone fragments, and possible displacement due to freeze thaw cycles. Some panels were observed to be no longer attached to the substrate, which may indicate the progression of this condition.

RECOMMENDATIONS

HAIRLINE CRACK < 1/8-INCH

For cracks less than 1/8-inch wide and holes smaller than 2 inches in diameter, provide a two component epoxy resin with marble dust aggregate, specifically designed for patching or bonding of stone units. Once the patching material has cured, grind and polish the surface to match the adjacent stone in appearance and finish.

CRACK > 1/8-INCH

Remove the existing stone panel and provide temporary shoring as required. Repair the full-depth crack using epoxy injection in combination with helical pins to stabilize the panel. Replace existing ferrous anchors with new stainless steel anchors, then reset the repaired panel in its original location.

5.2. PLANTER WALL PANELS - PREVIOUSLY REPAIRED CRACKS:



Previously repaired crack at planter wall

FINDINGS

Previously repaired cracks were observed in existing red granite planter stone panels. Repairs consist of either epoxy or sealant. Epoxy repairs that remain intact are not a concern; however, locations with failing epoxy or sealant repairs, last replaced in approximately 2006 and now exceeding their expected service life, may deteriorate over time if left unaddressed. This could result in further cracking, water infiltration, separation of stone fragments, and potential displacement due to freeze thaw cycles.

RECOMMENDATIONS

At locations with failing epoxy or sealant repairs, provide a two component epoxy resin with marble dust aggregate, specifically designed for patching or bonding of stone units. Once the patching material has cured, grind and polish the surface to match the adjacent stone in appearance and finish.

5.3. PLANTER FLASHING





Compromised flashing at planter walls

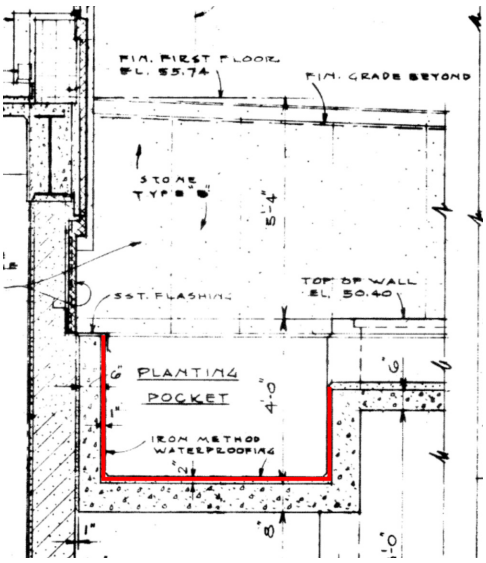
FINDING

Displaced and compromised flashing was observed beneath the red granite stone panels at the north planter.

RECOMMENDATIONS

Remove the existing flashing, clean and prepare the substrate, and install new flashing to match adjacent materials and ensure proper waterproofing continuity.

5.4. CONCRETE PLANTER BED



Original detail showing ironite waterproofing at planter bed







Original ironite parge coat at planter base fully compromised

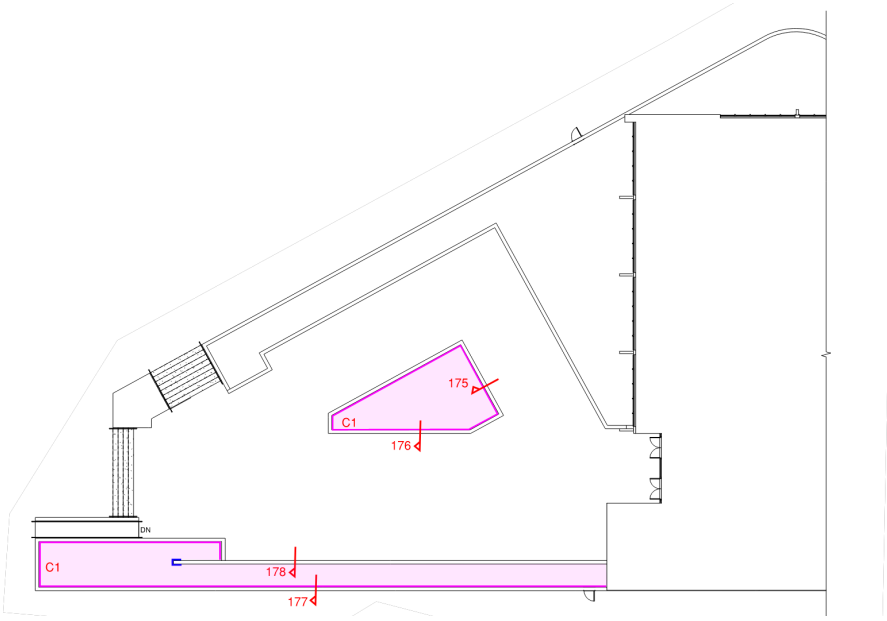
FINDINGS

Damaged original waterproofing was observed at the central and south planters, consisting of a concrete parge coat applied to the concrete substrate as the primary waterproofing method. The parge coat is extensively deteriorated, with large areas missing, delaminated, or otherwise compromised, resulting in exposed concrete substrate. This condition indicates a loss of waterproofing integrity and may allow for water infiltration into the planter assembly and adjacent construction.

RECOMMENDATIONS

Remove the full extent of the existing parge coat and provide a new planter membrane and flashing system, similar to the system at the north planter, including a manufacturer's warranty. Work will require temporary removal of soil and plantings, cleaning and preparation of the substrate, and installation of the new waterproofing system. Following completion, reinstall salvaged soil and plantings or provide new plantings as required.

Stone planter caps shall remain in place. Existing drainage and sprinkler systems shall remain and be protected during construction. The Contractor shall exercise care to avoid disturbance of these systems during all work.



Planter bed area of original ironite coating highlighted above

5.5 MEMBRANE PLANTER BED



Compromised membrane at planter walls

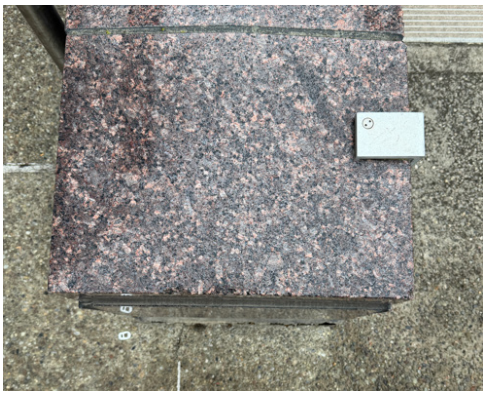
FINDINGS

The planter membrane is damaged, with portions of the concrete planter wall exposed at the north planter.

RECOMMENDATIONS

Temporarily remove soil as required to access the damaged area. Remove and repair or patch the membrane to restore waterproofing. If the membrane is still under warranty, perform repairs in accordance with the manufacturer's warranty requirements. The Contractor shall avoid disturbance of existing planter drainage and sprinkler systems during all work.

5.6. PLANTER STONE CAP SHIFTED



Shifted or loose planter wall cap

FINDINGS

A limited number of stone planter caps were observed to have shifted out of alignment.

RECOMMENDATIONS

SHORT-TERM REPAIR

No immediate repair is required, as this condition does not present an immediate life safety concern. Monitor the shifted stone caps over a 5-year period. If movement continues or worsens, implement a long-term repair to restore proper alignment and stability.

LONG-TERM REPAIR

Remove and reset displaced stone caps to proper alignment. Clean existing bearing surfaces and provide new setting material as required to ensure full support and stability. Verify underlying conditions and address any contributing factors, such as deteriorated substrate or water infiltration, prior to resetting.

5.7. PLANTER WALL PANELS OUT OF PLANE OR DETACHED >1/4-INCH





Significantly shifted planter wall panels

FINDINGS

A corner or edge of a stone planter panel was observed to be out of plane greater than 1/4-inch. Additionally, several panels were observed to be completely detached from the substrate. Localized panels have shifted out of alignment, likely due to a combination of factors including rust jacking of ferrous dovetail anchors, water infiltration, and deterioration and buildup of the mortar bed behind the panels. Additional contributing factors may include failure of roofing, flashing, sealants, or other building components allowing water to infiltrate behind the panels.

RECOMMENDATIONS

Remove the affected stone panels and salvage for reinstallation where feasible. Remove existing ferrous anchors and replace with stainless steel anchors. Reset panels in proper alignment and provide new flashing where applicable to improve moisture management and long-term performance. Panels that are already dislodged shall be inspected, repaired as necessary, cleaned, and reset.

5.8. PLANTER WALL PANELS OUT OF PLANE OR DETACHED <1/4-INCH



Slightly shifted planter wall panels

FINDINGS

A corner or an edge of a panel is out of plane to a depth less than 1/4-inch.

RECOMMENDATIONS

At locations where a corner or edge of a panel is out of plane less than 1/4-inch, no immediate corrective action is recommended. With new sealant being provided, monitor the condition over a 5-year period. If the panel exhibits further displacement or deterioration during this time, implement repairs consistent with recommendations for panels shifted out of plane greater than 1/4-inch. If the condition remains stable, continue periodic monitoring.

CONCLUSION

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CONCLUSION

CPL and its team have provided findings and recommendations based on field observations conducted through site walkthroughs, including both close-range visual review and binocular observations, as well as a building scan that produced high-resolution imagery for evaluation of areas not readily visible from grade. Drone-based scanning methods were utilized due to limited access and winter weather conditions.

Short-term and long-term recommendations have been provided for most conditions, along with identification of items requiring more immediate attention where potential life safety concerns exist. Recommendations are presented as options and are reflected accordingly in the associated cost estimate to allow the County to make informed decisions regarding prioritization and implementation of the work based on available funding.

We look forward to working with the County to identify the scope of work to be advanced and to incorporate that scope into the next phase as part of the 35% Contract Document submission. Additionally, depending on the selected approach, and to avoid overlooking underlying conditions contributing to deterioration, we recommend engaging R.E. Kelley or another qualified masonry expert to perform targeted destructive testing. This effort will help validate assumptions and ensure that proposed repairs address root causes and provide long-term performance.

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APPENDIX A - DIAGRAMS

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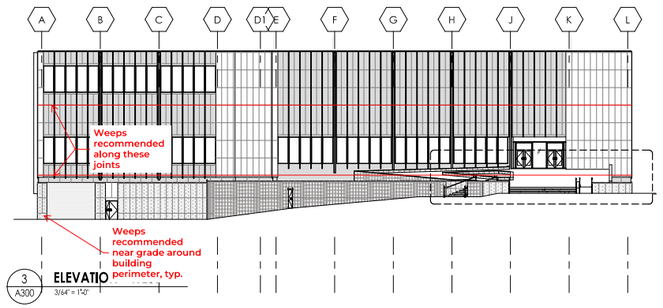
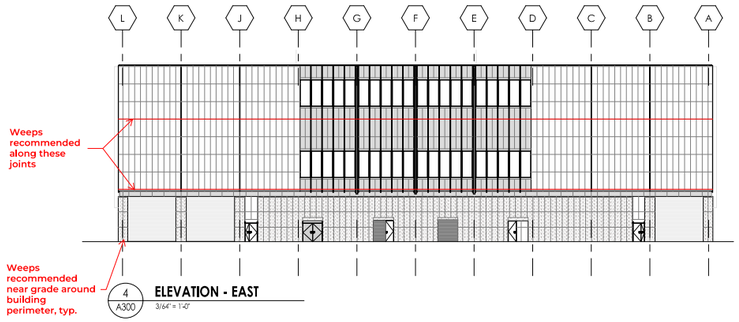
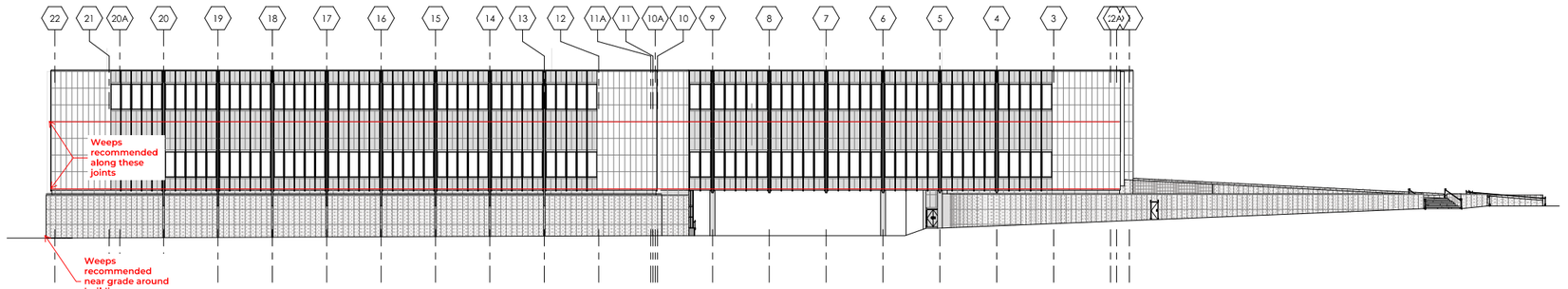
A - CRACK >1/8"
$A_{(H)}$ - HAIRLINE CRACK <1/8"
B - PREVIOUSLY REPAIRED CRACKS
SP - SPALLING
T - TILT(>.25")
ST - SLIGHT TILT (<.25")
W - WEEP



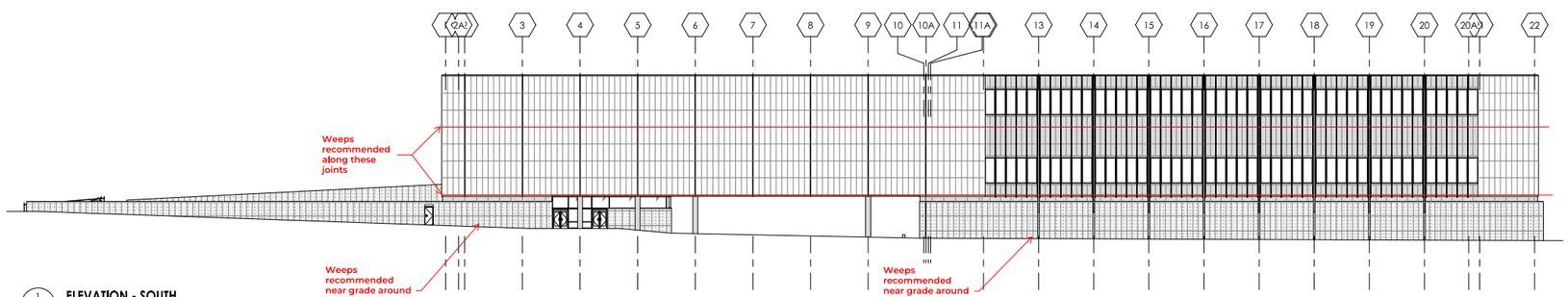
3 A300 ELEVATIO 3/64" = 1'-0"



4 A300 ELEVATION - EAST 3/64" = 1'-0"

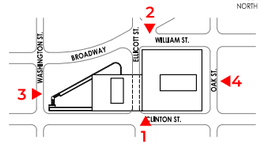


2 A300 ELEVATION - NORTH 3/64" = 1'-0"



1 A300 ELEVATION - SOUTH 3/64" = 1'-0"

KEY PLAN
NTS



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PROJECT INFORMATION
Project Number
R25.17654.01
Client Name
ERIE COUNTY DEPARTMENT OF PUBLIC WORKS
Project Name
2025-2028 B&ECPL CAPITAL PROJECTS - EXTERIOR RESTORATION
Project Address
1 LAFAYETTE SQUARE, BUFFALO, NY, 14203

PROJECT ISSUE & REVISION SCHEDULE
Date Description

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SHEET INFORMATION
Issued
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Scale
As indicated
Project Status
DESIGN DEVELOPMENT
Drawn By
CPL
Checked By
CPL
Drawing Title
REFERENCE BUILDING ELEVATIONS
Drawing Number
-
A300

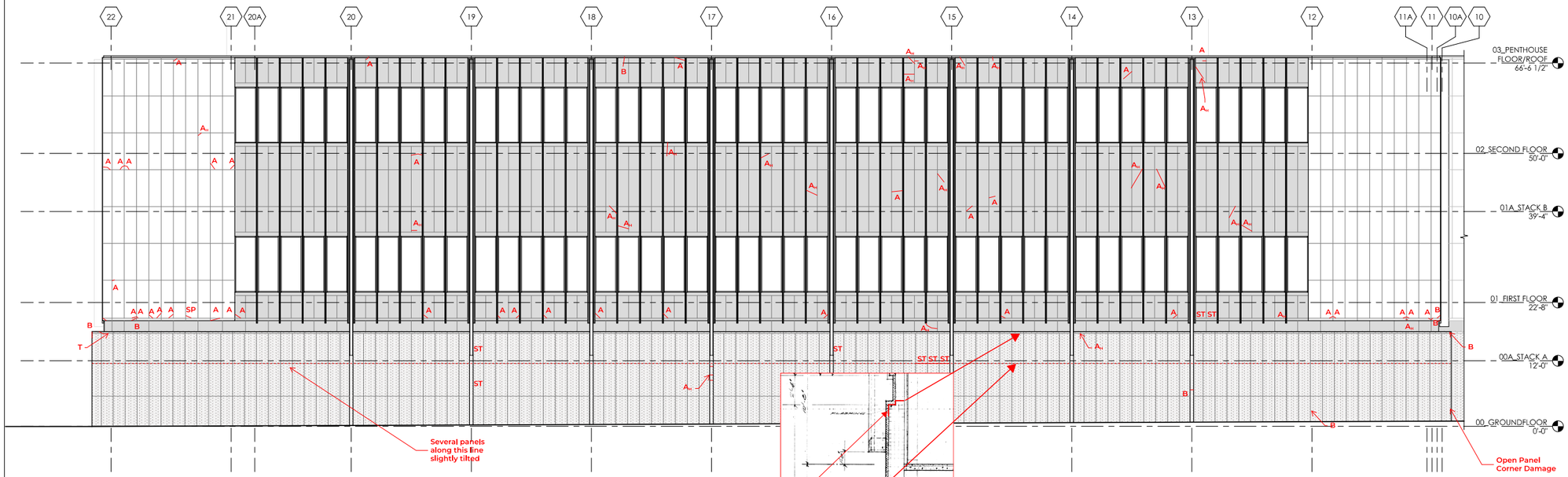
5/19/2026 7:08:07 PM PROJECT FILES ON ACC

A - CRACK >1/8"
$A_{(H)}$ - HAIRLINE CRACK <1/8"
B - PREVIOUSLY REPAIRED CRACKS
SP - SPALLING
T - TILT(>.25")
ST - SLIGHT TILT (<.25")
W - WEEP



2 A301 **NORTH ELEVATION WEST**
1/8" = 1'-0"

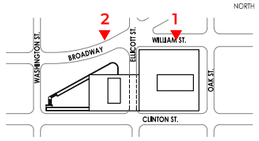
Typical Condition at First Floor Joint



1 A301 **NORTH ELEVATION EAST**
1/8" = 1'-0"

Typical Condition at first floor structural beam

KEY PLAN
NTS



TRUE NORTH

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Scale
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Drawn By
CPL
Checked By
CPL
Drawing Title
ENLARGED BUILDING ELEVATIONS
Drawing Number
A301

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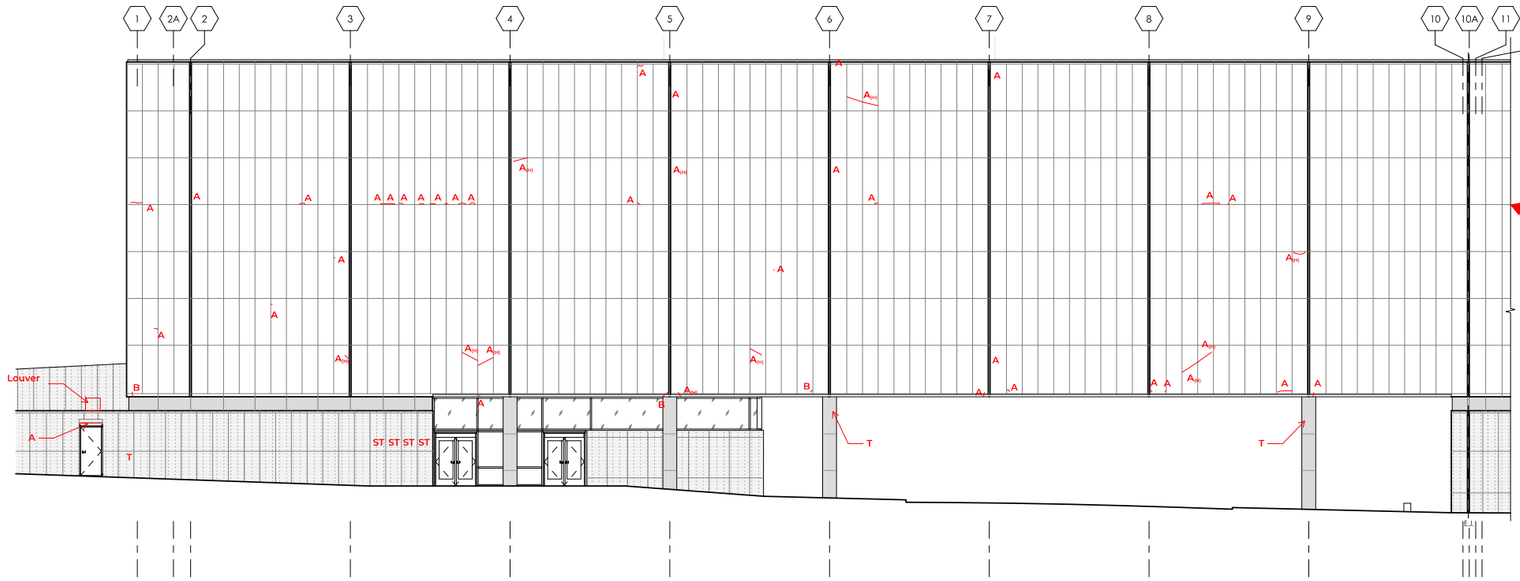
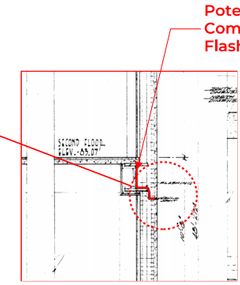
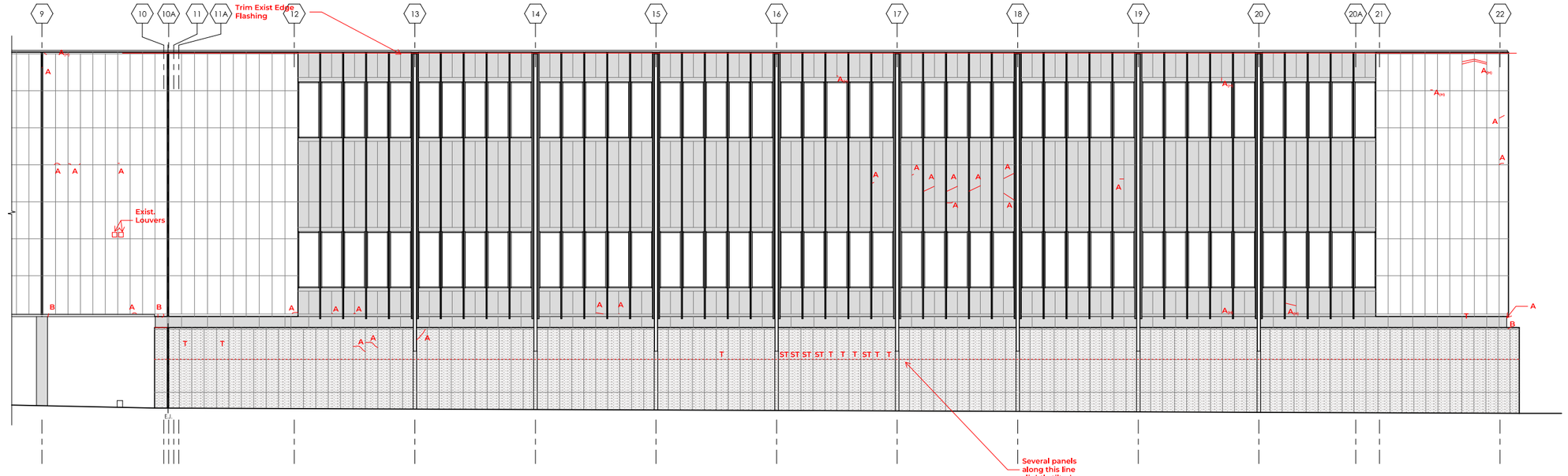


1 A302 **SOUTH ELEVATION - WEST**
1/8" = 1'-0"

A - CRACK >1/8"
$A_{(H)}$ - HAIRLINE CRACK <1/8"
B - PREVIOUSLY REPAIRED CRACKS
SP - SPALLING
T - TILT(>.25")
ST - SLIGHT TILT (<.25")
W - WEEP

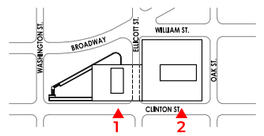


Typical Condition at Second Floor Joint



2 A302 **SOUTH ELEVATION - EAST**
1/8" = 1'-0"

KEY PLAN
NTS



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Scale
As indicated
Project Status
DESIGN DEVELOPMENT
Drawn By
CPL
Checked By
CPL
Drawing Title
ENLARGED BUILDING ELEVATIONS
Drawing Number
-
A302

3/19/2026 7:08:09 PM PROJECT FILES ON ACC

A - CRACK >1/8"
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B - PREVIOUSLY REPAIRED CRACKS
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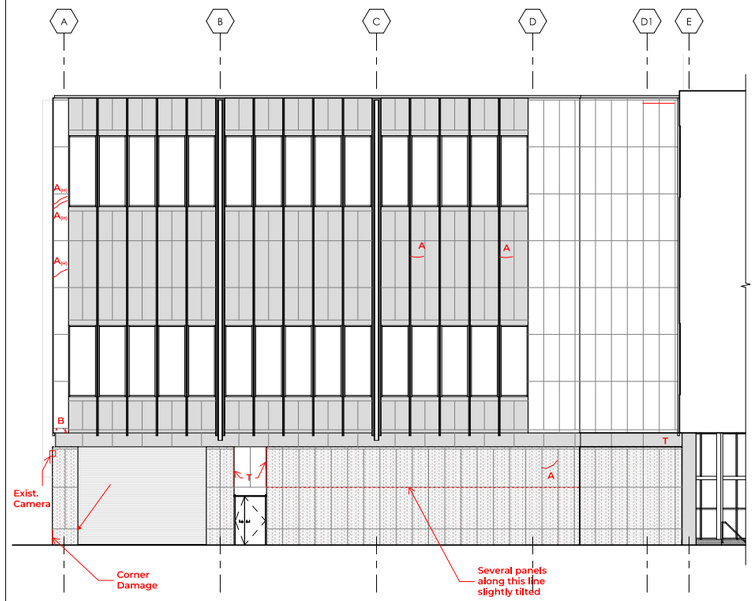
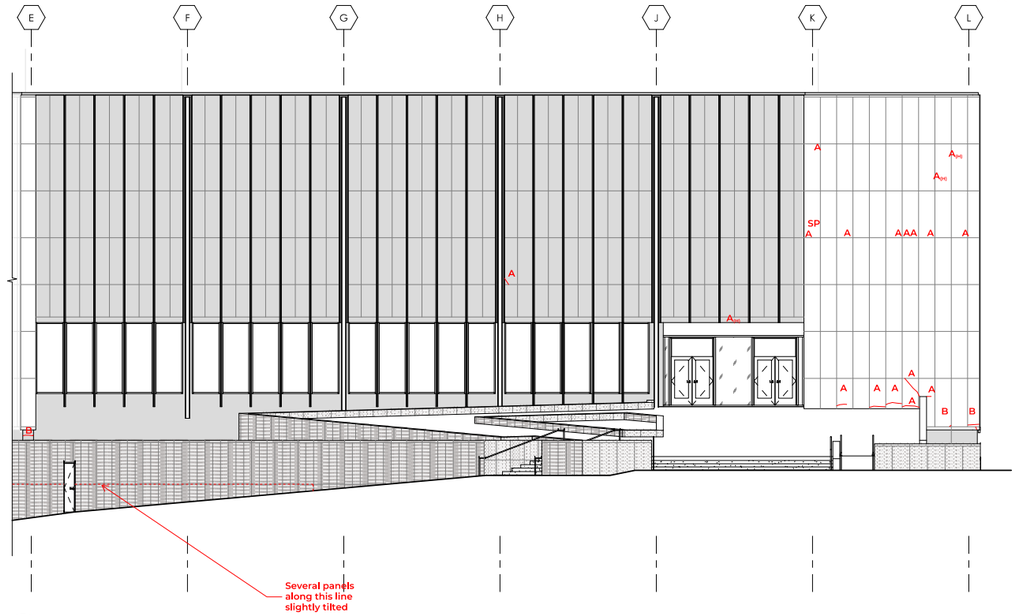
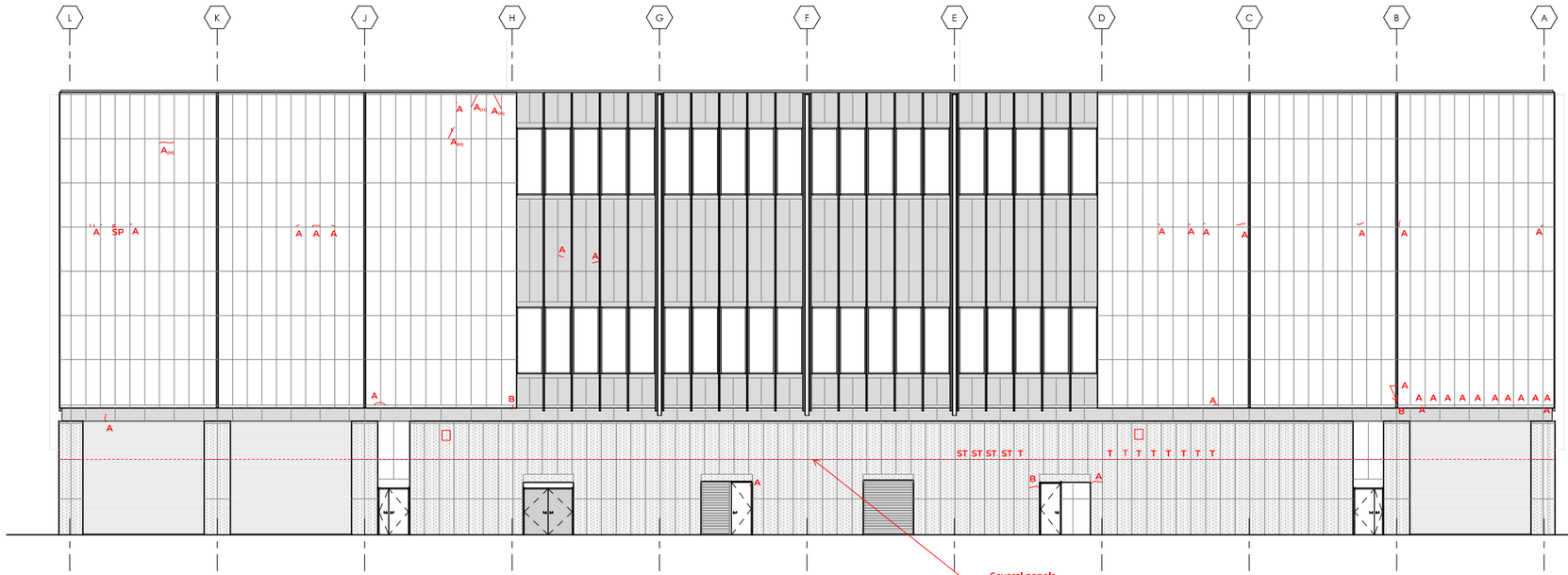


3 A303 **WEST ELEVATION - NORTH**
1/8" = 1'-0"

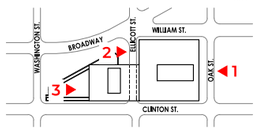


2 A303 **WEST ELEVATION - SOUTH**
1/8" = 1'-0"



1 A303 **EAST ELEVATION**
1/8" = 1'-0"

KEY PLAN
NTS



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SHEET INFORMATION

Issued	Scale
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Project Status
DESIGN DEVELOPMENT

Drawn By	Checked By
CPL	CPL

Drawing Title
ENLARGED BUILDING ELEVATIONS

Drawing Number
-
A303

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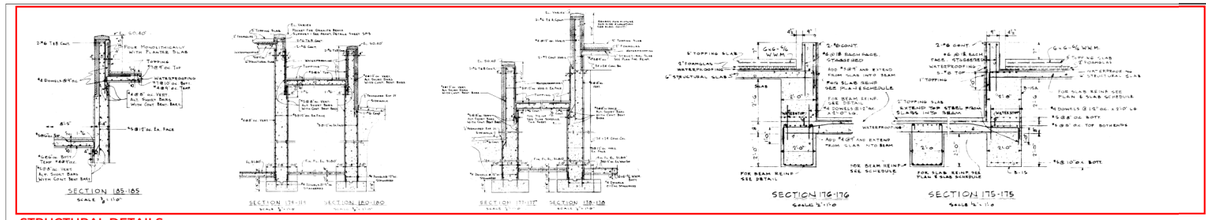

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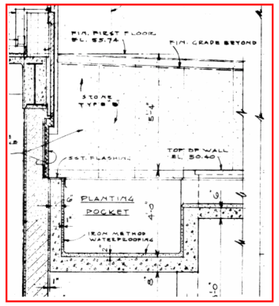
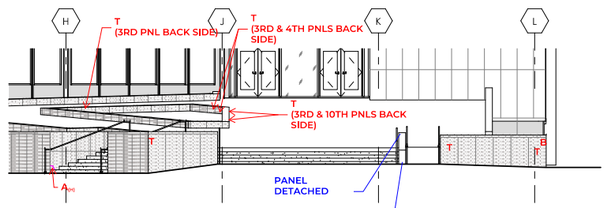
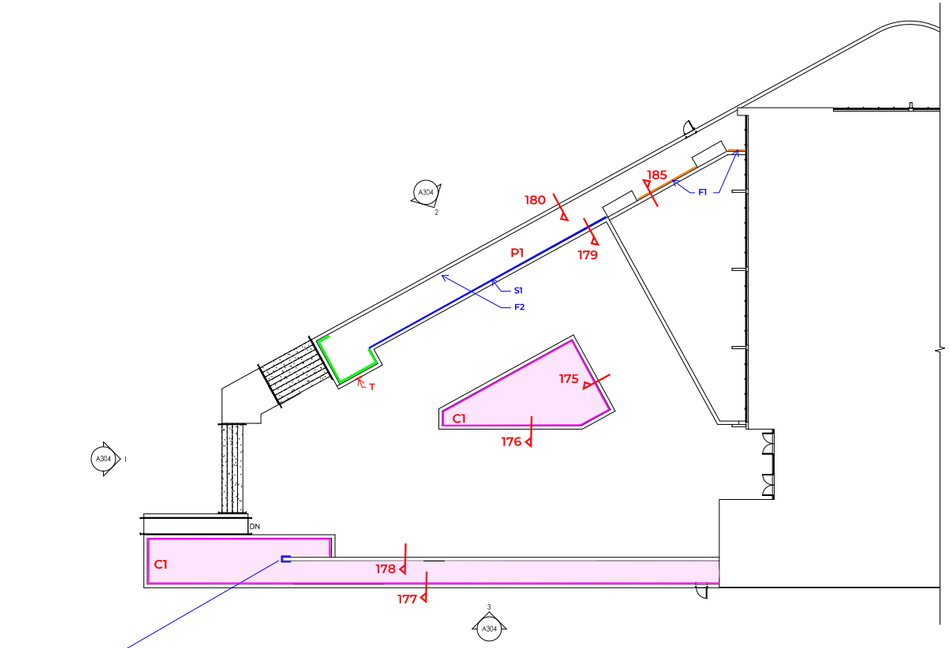


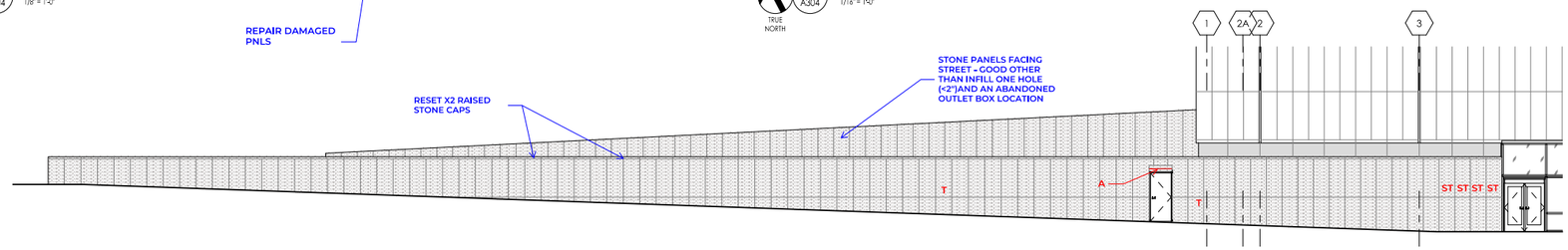
ARCHITECTURAL DETAIL



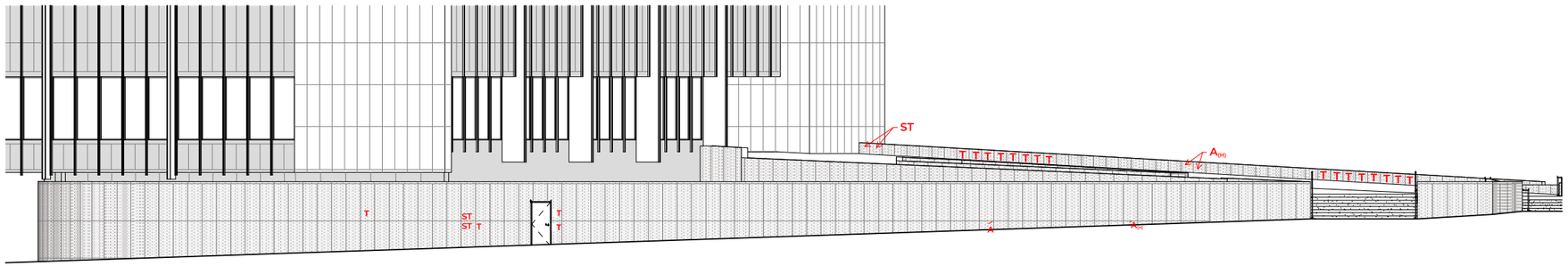
1 A304 **PLANTER ELEVATION**
1/8" = 1'-0"



PLANTER REFERENCE PLAN
1/16" = 1'-0"



3 A304 **PLANTER ELEVATION**
1/8" = 1'-0"



2 A304 **PLANTER ELEVATION**
1/8" = 1'-0"

F1: REPLACE FLASHING AT PLANTER BASE. GRANITE PANELS TO REMAIN IN PLACE

F2: REPLACE FABRIC AT PLANTER BASE. FLASHING TO REMAIN.

S1: REMOVE PANELS AND FLASHING - PROVIDE NEW FLASHING AND RESET EXISTING PANELS WITH NEW SS ANCHORS.

PL1: REPLACE COMPORMISED PLANTER MEMBER; CONSIDER EXISTING PLANTER MEMBRANE REMOVAL, AND ETR DRAINAGE AND SPRINKLER SYSTEMS

ST (LESS THAN 1/4" OUT OF PLANE):
SHORT-TERM: MONITOR NEXT 5-YEARS TO DETEMINE IF IT SHIFTS MORE.
LONG-TERM: RESET PANEL USING SS DOVETAIL ANCHORS

T (GREATER THAN 1/4" OUT OF PLANE):
SHORT-TERM: EITHER S.S. FACE ANCHORS WITH MATCHING PLUGS.
LONG-TERM: RESET PANEL USING SS DOVETAIL ANCHORS- SHORING OF PANELS ABOVE

A(H): FULL PANEL HAIRLINE CRACK:
REPAIR IN PLACE WITH EPOXY INJECTION

A: FULL PANEL DEEP CRACK:
SHORT-TERM: REPAIR PANEL IN PLACE USING AN EPOXY INJECTION AND EITHER S.S. FACE ANCHORS WITH MATHCING PLUGS, OR HELICAL SCREWS.
LONG-TERM: REMOVE PANEL, REPAIR AND RESET USING SS DOVETAIL ANCHORS.

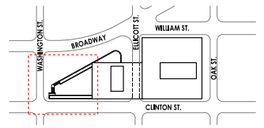
B: OLD REPAIR:
REMOVE EXISTING CAULK REPAIR JOINT AT CRACKED STONE.
SHORT-TERM: PROVIDE NEW CAULK AND MONITOR MOVEMENT IN 5-YEARS.
LONG-TERM: PROVIDE NEW EXPOXY INJECTION AND HELICAL PINS.

W: PROVIDE WEEPS AT EACH VERTICAL PANEL JOINT.

C1: CONCRETE PARGE COAT COMPROMISED. REMOVE AND PROVIDE PLANTER MEMBRANE AND FLASHINGS SYSTEM. STONE PLANTER CAPS TO REMAIN IN PLACE. EXISTING SPRINKLER AND DRAINAGE SYSTEM TO REMAIN.

TEMPORARILY REMOVE SOIL AND PLANTS FOR REINSTALLATION.

KEY PLAN
NTS



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PROJECT INFORMATION
Project Number
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Project Name
2025-2028 B&ECPL CAPITAL PROJECTS - EXTERIOR RESTORATION
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SHEET INFORMATION
Issued: 00/00/0000
Scale: As indicated
Project Status: DESIGN DEVELOPMENT
Drawn By: CPL
Checked By: CPL
Drawing Title: ENLARGED PLANTER WALL ELEVATIONS
Drawing Number: A304

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A - CRACK >1/8"
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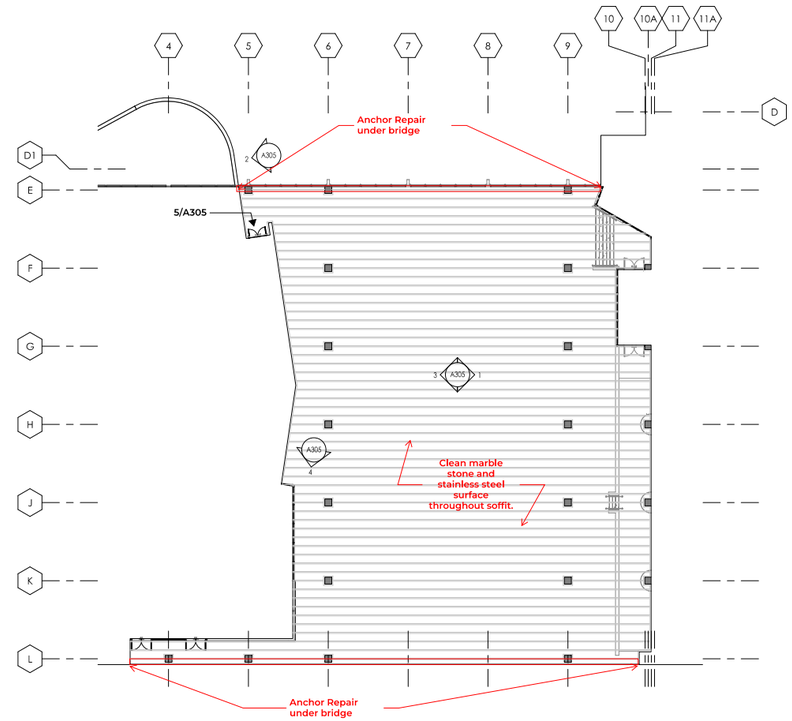
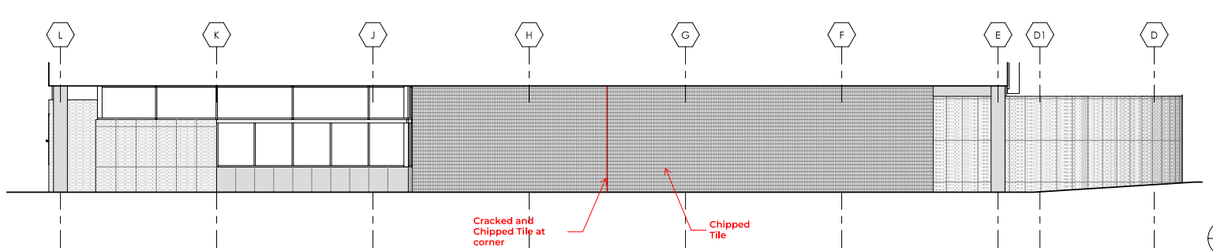
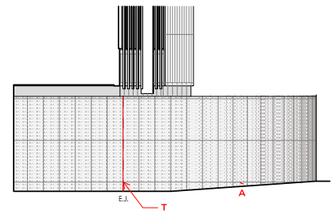


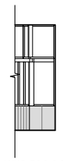
A305 REFERENCE PLAN
1/16" = 1'-0"
TRUE NORTH



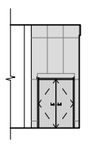
3 A305 UNDERPASS ELEVATION
1/8" = 1'-0"



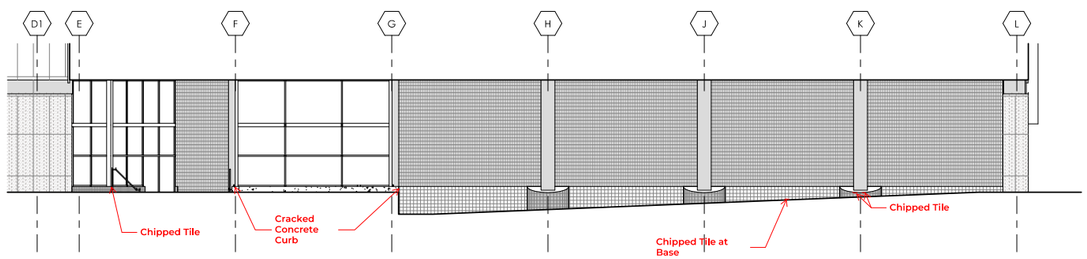
2 A305 ELLICOTT UNDERPASS BASE GRANITE
1/8" = 1'-0"



4 A305 UNDERPASS ELEVATION
1/8" = 1'-0"

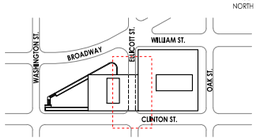


5 A305 UNDERPASS ELEVATION
1/8" = 1'-0"



1 A305 UNDERPASS ELEVATION
1/8" = 1'-0"

KEY PLAN
NTS



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Issued: 00/00/0000
Scale: As indicated
Project Status: DESIGN DEVELOPMENT
Drawn By: CPL
Checked By: CPL
Drawing Title: ELLICOTT STREET UNDERPASS
Drawing Number: A305

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APPENDIX B - SCHEDULE

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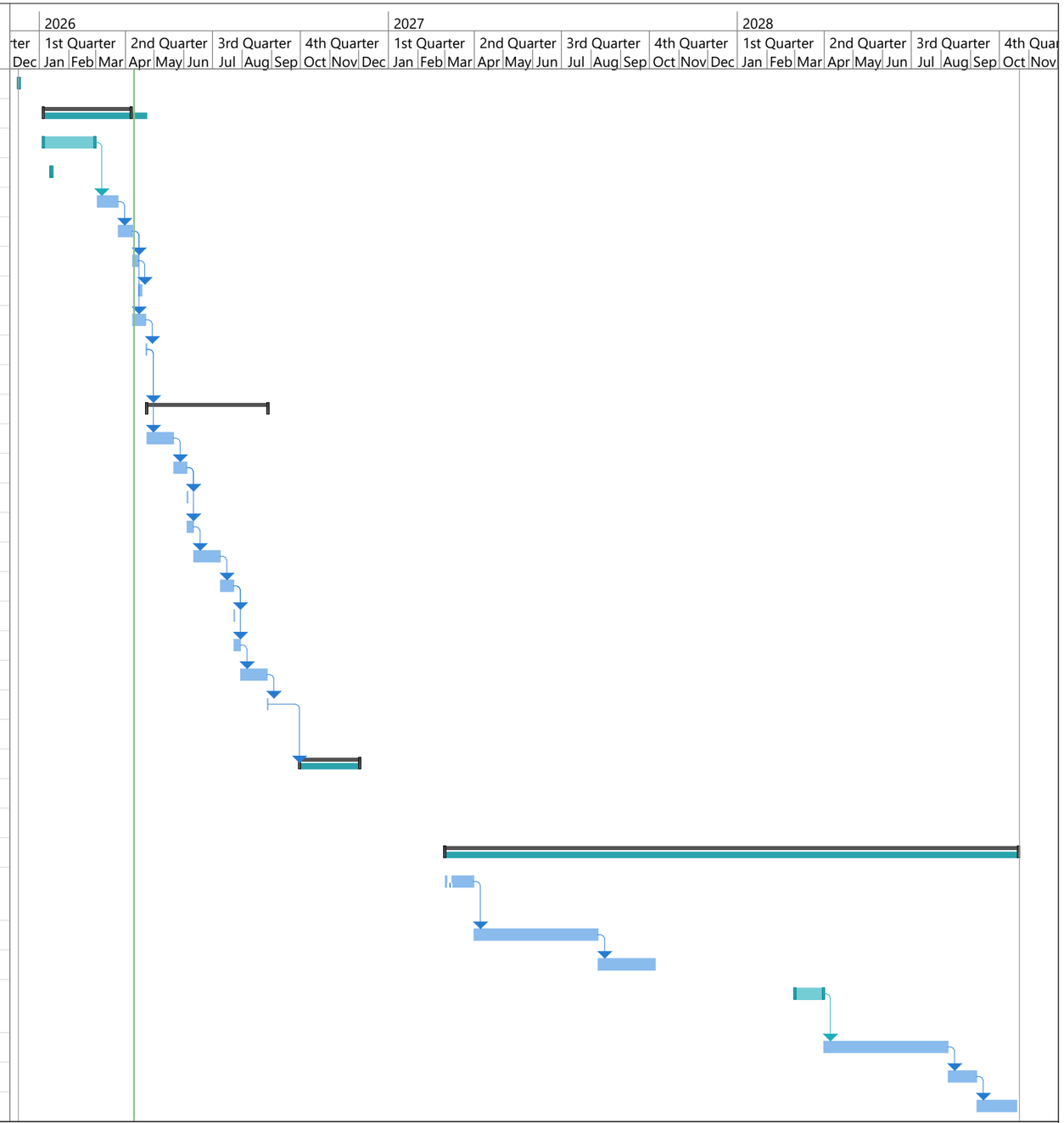
ID	Task Mode	Task Name	Duration	Start	Finish
1		**Notice to Proceed & Kick-off Meeting**	**1 day**	**Wed 12/10/25**	**Wed 12/10/25**
2		**Phase 1: Pre-Design & Programming**	**66 days?**	**Mon 1/5/26**	**Mon 4/6/26**
3		Research / Modeling	40 days	Mon 1/5/26	Fri 2/27/26
4		Site Visit - Investigation	1 day	Tue 1/13/26	Tue 1/13/26
5		Report Development	16 days	Mon 3/2/26	Mon 3/23/26
6		Files to Estimator	11 days	Tue 3/24/26	Tue 4/7/26
7		Report Submission w/ estimate	4 days	Wed 4/8/26	Mon 4/13/26
8		Stakeholder Review Meeting	4 days	Tue 4/14/26	Fri 4/17/26
9		Stakeholder Review	10 days	Wed 4/8/26	Tue 4/21/26
10		Approval of SOW for Phase 2	1 day?	Wed 4/22/26	Wed 4/22/26
11					
12		**Phase 2: Detailed Design and Bid Documents**	**91 days?**	**Thu 4/23/26**	**Thu 8/27/26**
13		30% Design Development	20 days	Thu 4/23/26	Wed 5/20/26
14		30% Submission w/ updated estimate	10 days	Thu 5/21/26	Wed 6/3/26
15		Stakeholder Review Meeting	1 day	Thu 6/4/26	Thu 6/4/26
16		Stakeholder Review	5 days	Thu 6/4/26	Wed 6/10/26
17		75% Design Development	20 days	Thu 6/11/26	Wed 7/8/26
18		75% Submission w/ updated estimate	10 days	Thu 7/9/26	Wed 7/22/26
19		Stakeholder Review Meeting	1 day	Thu 7/23/26	Thu 7/23/26
20		Stakeholder Review	5 days	Thu 7/23/26	Wed 7/29/26
21		100% Design Development	20 days	Thu 7/30/26	Wed 8/26/26
22		100% Submission	1 day?	Thu 8/27/26	Thu 8/27/26
23					
24		**Phase 3: Bidding**	**45 days**	**Wed 9/30/26**	**Tue 12/1/26**
25					
26					
27		**Phase 4: Construction Administration**	**600 edays**	**Mon 3/1/27**	**Sat 10/21/28**
28		Year 1: Mobilization, Submittals, Permitting, Materials	30 edays	Mon 3/1/27	Wed 3/31/27
29		Base Bid: North and West Facades	130 edays	Wed 3/31/27	Sun 8/8/27
30		Alternate No 01: Planters	60 edays	Sun 8/8/27	Thu 10/7/27
31		Year 2: Mobilization, Submittals, Permitting, Materials	30 edays	Wed 3/1/28	Fri 3/31/28
32		Alternate No 02: South and East Facades	130 edays	Fri 3/31/28	Tue 8/8/28
33		Alternate No 02: Underpass	30 edays	Tue 8/8/28	Thu 9/7/28
34		Closeouts	30 days	Thu 9/7/28	Wed 10/18/28



Project: BECPL Exterior Building
Date: Fri 4/10/26

Task	Project Summary	Manual Task	Start-only	Deadline
Split	Inactive Task	Duration-only	Finish-only	Progress
Milestone	Inactive Milestone	Manual Summary Rollup	External Tasks	Manual Progress
Summary	Inactive Summary	Manual Summary	External Milestone	

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APPENDIX D - HAZARDOUS MATERIALS INFORMATION

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Paul Dudkowski

From: Mark Kross <krossm@buffalolib.org>
Sent: Wednesday, December 10, 2025 12:11 PM
To: Paul Dudkowski; Marie Carone; Aponte, Amanda; Andrew Wiede
Subject: FW: BECPL Sealants
Attachments: Central Library - PCB Caulks Markup.pdf

Hi everyone,
Testing results for exterior attached.
Thank you.
Mark

From: Kevin P. Janik <kjanik@watts-ae.com>
Sent: Tuesday, December 9, 2025 11:26 AM
To: Mark Kross <krossm@buffalolib.org>
Cc: Ted Gorenflo <tgorenflo@watts-ae.com>
Subject: BECPL Sealants

CAUTION: This email originated from outside of the Library. Attachment and links **may not be safe!**

Good morning Mark, let's start with the good news. No asbestos was identified in any of the exterior sealants.

The no-so good news is related to the PCB results. The EPA regulates PCBs and considers any debris generated from construction materials manufactured with PCBs derived from building renovation activities with a concentration of greater than or equal to 50 parts per million (ppm) as PCB bulk product waste. In NYS, these PCB wastes are managed as hazardous waste.

Attached is a summary sketch showing the samples above 50ppm (red) and samples below 50 (black). As you can see, we did not received the clear results we were hoping for. There continue to be inconsistencies in the results, with no obvious conclusion.

Do you have time for a Teams meeting some time this week to discuss?

Kevin P. Janik, **P.E.**
Principal | Sr. Environmental Engineer

Watts Architects & Engineers
95 Perry Street, Suite 300, Buffalo, NY 14203
(716) 206-5126 **Phone**
(716) 866-2558 **Mobile**

BUFFALO / ROCHESTER /SYRACUSE / NEW YORK
watts-ae.com

Buffalo & Erie County Public Libraries have more than 3.2 million materials - books, eBooks, DVDs, music & more. Free library cards (traditional and eLibrary) are available

to Erie County, New York residents and to those who work and/or attend school in Erie County, NY. Follow the library on Facebook, Twitter, Instagram, Pinterest, Flickr and on our podcast *All Booked Up!* Information: 716-858-8900 or http://www.buffalolib.org.


Caulk Between Metal Window Frame and Black Panel (Previously Sampled)
Black Granite Panel (Previously Sampled)
Black Granite Panel Caulk
Black Granite Panel
Red Granite Panel Caulk (Previously Sampled)
New Caulk at Elevator Shaft
Window Frame Caulk (Light Gray/Silver)
White Marble Panel Caulk (Previously Sampled)
White Marble Panel
Red Granite Panel
Red Granite Panel Caulk (Previously Sampled)
White Marble Ceiling Panel Caulk Under Bridge
Red Granite Panel Caulk
White Marble Panel Caulk

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APPENDIX E - SHPO LETTER

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New York State
Parks, Recreation and
Historic Preservation

KATHY HOCHUL
Governor

RANDY SIMONS
Commissioner Pro Tempore

July 21, 2025

Andrew Wiede
Buffalo & Erie County Public Library
1 Lafayette Square
Buffalo, NY 14203

Re: SED/L
Central Library Exterior Caulk Replacement
1 Lafayette Sq, Buffalo, NY 14202
25PR06061

Dear Andrew Wiede:

Thank you for continuing to consult with the Division for Historic Preservation of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the submitted materials in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York State Parks, Recreation and Historic Preservation Law). These comments are those of the Division for Historic Preservation and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project.

Our office has reviewed the cleaning and repair details provided on 7/17/2025, as part of the proposed exterior caulk replacement project at Buffalo & Erie County Public Library Central Library. The proposed work would appear to follow guidelines found in National Park Service Preservation Briefs 1 and 6. Based upon our review, it is the OPRHP's opinion that this project will have No Adverse Impact on historic resources.

If you have any questions, I am best reached by email.

Sincerely,



Derek Rohde
Historic Site Restoration Coordinator
518-275-5745 | Derek.Rohde@parks.ny.gov

Please consider the following response to SHPO's concerns and let us know if you require any additional information:
(FYI the response takes into account Historic Preservation Briefs 1 and 6)

Washing Methods for Marble Panels:

We recommend the testing the following methods in an inconspicuous area of the building to help determine the gentlest means possible required to clean the marble while not damaging its surfaces:

1. **Low-pressure water (100 psi or below)** and scrubbing with a natural or synthetic bristle brush at areas of more persistent grime.
    a. adding a non-ionic or alkaline detergent where required after testing
2. **Low-pressure water (400 psi maximum)** and scrubbing with a natural or synthetic bristle brush at areas of more persistent grime.
    a. adding a non-ionic or alkaline detergent where required after testing
3. **Low-pressure steam (hot-pressurized water washing)** and scrubbing areas of more persistent grime with a natural or synthetic bristle brush.
4. **Medium-pressure steam (hot-pressurized water washing)** and scrubbing areas of more persistent grime with a natural or synthetic bristle brush.

Notes:

- No acidic cleaners will be used.
- A non-ionic detergent, or alkaline cleaner is recommended for polished and unpolished marble. Testing will help determine which is suitable for this project.
- No abrasive methods will be used.
- A timed water soaking (using a multi-nozzle manifold) method is not recommended as it may be too costly, and the building is in a trafficked area. However, if testing of the low-pressure water methods shows signs of damage, then this is the preferred method and will be utilized.
- Water pressure will remain low as to not etch or dull the marble surfaces.

Crack Repair Methods for Marble Panels:

For cracks smaller in width than 1/8" and holes smaller in diameter than 2":

- First determine the cause of the crack: impact, natural flaw, attachments to the panel, anchoring of the panels, etc.
- Provide a 2-component epoxy resin with marble dust aggregate, designed specifically for patching or bonding of marble units.
- Once patching material has hardened, grind and polish surface of patching material to match surface characteristics of adjacent marble.

For severe cracks:

- Dutchman repair:
    - remove loose stone fragments. Reuse all pieces of spalled stone which are in sound condition without serious cracks or flaws.
    - Clean any exposed metal anchors of all corrosion by scraping and brushing with a stiff wire bristle brush. Replace any unsound anchors as

necessary with new stainless-steel anchors. Bed new anchors in epoxy grout.
    - Larger fragments, square off the portion of spalled stone for replacement with Dutchman repair. Remove dust and debris from cavity and fragments using a stiff fiber bristle brush.
    - Fit the Dutchman for size.
    - For Dutchman larger than 4” by 4” by 1”, additional reinforcement may be required.
    - Drill holes (size determined by size of reinforcement selected) into both the sound stone and the Dutchman.
    - Inject adhesive into the holes and set stainless steel pins into the holes.
    - Coat abutting surfaces of the stone with epoxy adhesive and secure the stone Dutchman in place until the adhesive is cured.
    - Clean any residual adhesive from the edges using a clean, soft cloth. Wet the stone with clean, potable water and fill any chipped areas and edges with patching mortar. Avoid feather-edging. Tool surface level with surrounding stone. Keep mortar damp (80%-90% RH) for 72 hours or until cured.

Notes:

- Architect to assess the stability of the marble panels. Further investigation will be provided by a structural engineer as required.
- Pinning or re-anchoring will be provided if it is the cracking may lead to a life safety concern like the stone, or a portion of the stone become dislodged.



Florida | Georgia | New York | North Carolina | Ohio | Pennsylvania | South Carolina | Virginia
800 274 9000 CPLteam.com

NAME OF BIDDER

BID SUBMITTED BY: _____

PROPOSAL FOR:

GENERAL CONSTRUCTION WORK

Buffalo and Erie County Public Library
Exterior Marble Restoration
1 Lafayette Avenue, Buffalo NY, 14203

TO: **William E. Geary,** Commissioner of Public Works
Erie County Department of Public Works
Rath Building, 95 Franklin Street, Suite 1400, Buffalo, NY 14202

Commissioner Geary:

Pursuant to and in compliance with your advertisement for Bids, the undersigned offers to furnish all materials and all plant, labor, supplies, equipment, transportation and other facilities necessary or proper for, or incidental to the construction work, as required by and in strict accord with the contract documents dated 10/06/2026 entitled: *"2025-2028 BECPL CAPITAL PROJECTS – EXTERIOR MARBLE RESTORATION"* including all Addenda for the following sum of:

BASE BID:

_____

/100 DOLLARS ($)

_____

Completion: We agree to complete this work within _____ calendar days from the Notice to Proceed.

CAUTION: Be advised that Erie County Local Law No. 3-2018 will be enforced. All bidders submitting bids with a value in excess of $250,000 must adhere to the provisions detailed within this Proposal and Section 10 of the General Conditions. For consideration, bidders must (1) check the appropriate box and (2) enclose the corresponding paperwork.

CAUTION: ERIE COUNTY EXECUTIVE ORDER #18: The project contemplated by these Bid Specifications may be subject to Erie County Executive Order #18 ("EO #18") which is included along with its Rules and Regulations for reference in Appendix "D" to the General Conditions of this Bid. All bids with a value that meets or exceeds $250,000 must include a verified attestation of intent to comply and statement of work force. Such attestation and statement is attached hereto. Any bids received which do not include such attestation or include an incomplete attestation will be deemed non-compliant and will not be considered for award. Should it be determined that the project is subject to EO #18, Contractor must provide county with a fully executed and verified Local and Disadvantaged Worker Compliance Certification prior to final execution of an award agreement.

CAUTION: All compliance reporting required for Erie County Local Law No. 3-2018 and Executive Order #18 shall now be completed via LCPtracker. The County will be available to assist with any reasonable training requests and support, as necessary.

NOTE: Lump-Sum Allowances are to include an Overhead and Profit (O&P) Margin. Unit-Price Allowances are NOT to include an O&P Margin. O&P for unit prices are to be included in the unit price. See Specification 012100 – Allowances for more information.

NOTE: As of April 6, 2021 the County of Erie is requiring a new experience questionnaire form. Please reference Section 5 of the Information to Bidders included within the project manual for detailed information.

SUMMARY OF WORKFORCE, MINORITY/WOMEN BUSINESS, & DISABLED VETERANS BUSINESS COMMITMENT

Requirement	Applicable when Contract value meets or exceeds:	Reference
Erie County Executive Order No.18	$250,000	General Conditions Section 8.08
New York State Certified Apprenticeship Training Program	$250,000	General Conditions Section 10
Minority/ Women Business Enterprise & Disabled Veterans Business	$100,000	General Conditions Section 8.06
General Minority and Women Workforce Goals	All Contracts	General Conditions Section 8.05
Equal Pay Certification	All Contracts	General Conditions Sections 8.04 & 8.07

***Refer to Supplemental General Conditions for any modifications to the above**

ALTERNATE BIDS

The undersigned further proposes and agrees that if any or all of the following alternates are accepted and included in the contract, the total amount of the contract as heretofore stated shall be accordingly increased, or decreased, as the case may be. All materials and workmanship shall be in strict accordance with specifications and drawings.
The Owner, as a term and condition of Bid, reserves the right to either accept or reject any or all of the alternates appearing below. Pursuant to the Owner's right of acceptance or rejection, the Contractor submitting this Proposal hereby agrees that he will hold all of the alternate prices appearing below for the duration of the contract.

A. Alternate Bid Alt.-1: East Elevation

ADD DEDUCT (circle one) _____

_____ **/100 DOLLARS ($)**

Completion in Calendar Days: _____

B. Alternate Bid Alt.-2: East Building North and West Elevations

ADD DEDUCT (circle one) _____

_____ **/100 DOLLARS ($)**

Completion in Calendar Days: _____

C. Alternate Bid Alt.-3: Washington Street Planters

ADD DEDUCT (circle one) _____

_____ **/100 DOLLARS ($)**

Completion in Calendar Days: _____

D. Alternate Bid Alt.-4: Ellicott Street Underpass

ADD DEDUCT (circle one) _____

_____ **/100 DOLLARS ($)**

Completion in Calendar Days: _____

ALLOWANCES

Certain work is specified in the Contract Documents by allowance. The allowances include: furnishing all plant materials within the planters associated with Alt-3 and sealant replacement material costs. Allowances have been established in
lieu of additional requirements and to defer selection of actual materials and equipment to a later date when additional information is available for evaluation. If necessary, additional requirements will be issued by Change Order.

Allowance no. A-1: See Allowances: Section 012100

Allowance no. A-2: See Allowances: Section 012100

UNIT PRICES

Certain work is specified in the Contract Documents by unit price. The unit prices include: furnishing all materials and all plant, labor, supplies, equipment, transportation and other facilities necessary or proper for, or incidental to the work. Unit prices have been described in Section "012200 Unit Prices." Contractor submitting this Proposal hereby agrees that he will hold all of the unit prices appearing below for the duration of the contract.

Unit Price No. 1: (Replace Steel Lintel) _____ / Ton

Unit Price No. 2: (Minor Column Repair) _____ / Each

Unit Price No. 3: (Moderate Column Repair) _____ / Each

SUBSTITUTIONS

If awarded a contract based on the above proposal, we will use materials and equipment specified with the following exceptions:

ITEMS	MANUFACTURER'S NAME AND PRODUCT DESCRIPTION

It is understood that if any of the above proposed substitutions are not accepted by the Owner, we will furnish the product named in the specifications. Substitutions are not permitted after the award of contract.

ADDENDA:

The foregoing proposal covers the following Addenda:

(Here list, by number, each addendum issued prior to bidding.)

NON-COLLUSIVE BIDDING CERTIFICATE.

1. By submission of this bid, the bidder and each person signing on behalf of the bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of his or its knowledge and belief:

   a. The prices in this bid have been arrived at independently with no collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor; and
   b. Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or to any competitor; and
   c. No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit a bid for the purpose of restricting competition; and
   d. If the bidder is a corporation, this certificate is and shall be deemed to have been authorized by the board of directors of the bidder, and such authorization is and shall be deemed to include the signing and submission of the bid and the inclusion therein of this certificate of non-collusion as the act and deed of the corporation.

2. Pursuant to 103-d, General Municipal Law, a bid shall not be considered for award nor shall any award be made where the above Non-Collusive Certificate, Paragraphs 1, (A), (B), (C), and (D) have not been complied with, unless explained, justified and legally excused in accordance with said law.

This proposal and/or contract shall be governed by New York State Law.

The undersigned agrees together into a contract for the above stated compensation, under the terms and conditions outlined, plus any other conditions mutually agreed upon.

NAME OF FIRM: Federal Tax ID No.:

AUTHORIZED SIGNATURE:

PRINTED OR TYPEWRITTEN
NAME OF SIGNATORY:

TITLE:

ADDRESS:

PHONE No.: FAX No.:

EMAIL ADDRESS:

DATE:

SEAL IF BIDDER
IS A CORPORATION

ERIE COUNTY DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER

To facilitate correct drawing and execution of contract, Bidders shall supply full information concerning legal status as follows:

NAME: _____

CORPORATION CO-PARTNERSHIP AN INDIVIDUAL TRADE
(Strike out classification not applicable.)

ADDRESS OF PRINCIPAL OFFICE:

Street: _____

City: _____

State: _____

LOCAL BRANCH OFFICE ADDRESS:

_____

INCORPORATED UNDER THE LAWS OF THE STATE OF: _____

If Foreign Corporation, state if authorized to do business in the State of New York: (YES) (NO)

If Co-Partnership, Names of Partners and Addresses are:

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

If doing business under Trade Name, Assumed Name or Firm Style:

Name of Owner: _____

Certificate Filed: _____ _____

(Place) (Date)

NEW YORK STATE CERTIFIED APPRENTICESHIP TRAINING PROGRAM CERTIFICATION

Pursuant to Erie County Local Law 3-2018 the following MUST be submitted along with supporting documentation unless the Contracting Agency has otherwise determined under Section 2f of the Erie County Rules and Regulations that the New York State Certified Apprenticeship Training Program does not apply.

TO BE FILLED OUT BY BIDDER: please check that which applies on sign below.

[ ] Enclosed is a copy of the certification of approval of the New York State Certified Apprenticeship Training Program (NYSCATP) by the New York State Department of Labor which, as Bidder, will use in connection with the construction contract. Also Enclosed is a written plan demonstrating how apprentices will be utilized by the Bidder As Prime Contractor or by the Subcontractor(s) to the Bidder as Prime Contractor. Such Plan shall include at a minimum:

Please check all items i through vi to acknowledge compliance:

- [ ] i. An organized written plan in place that embodies the terms and conditions of employment, training and supervision of one or more apprentices;
- [ ] ii. A schedule of wages to be paid to the apprentices consistent with the skills required and approved by the New York State Department of Labor;
- [ ] iii. Equal employment and affirmative action plans;
- [ ] iv. Workforce development and diversification goals to ensure that the contractor will diligently work toward a minority workforce goal of 30% minority and female participation combined in project personnel including trades people, trainees, journeymen, apprentices and supervisory staff;
- [ ] v. A minimum of ten percent (10%) of the total construction workers. Trades people, trainees, journeymen, and apprentices employed at any given time on a particular project by any and all contractors or subcontractors must be consist of persons participating in a NYSCATP; and
- [ ] vi. In all cases, such Certified Apprenticeship Training Program must be specific to the type and scope of work which is being performed and must have a graduation rate of at least thirty percent (30%) as determined by the New York State Department of Labor.

[ ] Enclosed is a detailed explanatory written statement as to the inapplicability of Apprenticeship participation due to: the lack of career opportunities in NYSCATP Approved by New York State Department of Labor Commissioner; OR the magnitude of the construction contract which would make use of apprentices impracticable.

_____	_____	_____
SIGNATURE	*COMPANY NAME*	*DATE*

CONTRACTOR'S OWN WORKFORCE

(This form must be submitted with the Contractor's bid proposal)

Pursuant to Section 3.18 – Contractor's Own Workforce, of the General Conditions, the Contractor submitting a bid proposal acknowledges that they will perform a minimum of 25% of the work with their own workforce as follows:

Task	Value of Work
Total Value of Workforce	
Percentage of Total Bid	%

_____ _____ _____

SIGNATURE *COMPANY NAME* *DATE*

Erie County Equal Pay Certification

In order to comply with Executive Order 13 dated November 6, 2014, we hereby certify that we are in compliance with federal law, including the Equal Pay Act of 1963, Title VII of the Civil Rights Act of 1964, Federal Executive Order 11246 of September 24, 1965 and New York State Labor Law Section 194 (together "Equal Pay Law"). We understand that this certification is a material component of this contract. Violation of the provisions of Executive Order 13, which is attached hereto and made a part hereof, can constitute grounds for the immediate termination of this contract and may constitute grounds for determining that a bidder is not qualified to participate in future county contracts.

We have evaluated wages and benefits to ensure compliance with the Equal Pay Law. We certify that we have not been the subject of an adverse finding under the Equal Pay Law within the previous five years and, in the alternative, if we were the subject of an adverse finding under the Equal Pay Law within the previous five years, we have annexed a detailed description of the finding(s). In addition, we have annexed a detailed description of any currently pending claims under the Equal Pay Law in which we are involved.

_____
Signature

Verification

A) OWNER/PARTNERSHIP

STATE OF _____)
COUNTY OF _____) SS:

_____, being duly sworn, states he or she is the owner of (or a partner in) _____, and is making the foregoing Certification and that the statements and representations made in the Certification are true to his or her own knowledge.

Sworn to before me this _____Day of _____, 20__

_____
Notary

B) CORPORATE

STATE OF _____)
COUNTY OF _____) SS:

_____, being duly sworn, states that he or she is the
Name of Corporate Officer
_____, of_____,
Title of Corporate Officer Name of Corporation
the enterprise making the foregoing Certification, that he or she has read the Certification and knows its contents, that the statements and representations made in the Certification are true to his or her own knowledge, and that the Certification is made at the direction of the Board of Directors of the Corporation.
Sworn to before me this _____Day of _____, 20__

_____
Notary

ERIE COUNTY EXECUTIVE ORDER #18
ATTESTATION AND
STATEMENT OF WORKFORCE

We hereby attest that we have read and understand Erie County Executive Order #18 ("EO #18"). We acknowledge that the project we are bidding on may be subject to the provisions thereof. We further attest that, should we be identified as the successful bidder and should the appropriate individual or entity determine that this project is subject to EO #18, we will be in compliance with such Order, or we will have been granted a partial waiver by the Erie County Office of Equal Employment Opportunity prior to starting work on the project.

We further acknowledge that in order for Erie County to determine if the project we are bidding on is subject to EO #18, they need to analyze the workforce that we intend to use on such project. We therefore now do attest that it is our current intention to use _____#___ construction workers, which number includes any subcontracted construction workers, on this project should it be awarded to us. For purposes of this attestation we understand that construction worker shall mean a laborer, workman, or mechanic who is directly involved in the construction, reconstruction, improvement, rehabilitation, installation, alteration, renovation, demolition or otherwise providing for any building, facility, roads, highways, bridges, or physical structure of any kind, but does not include professional services employees.

_____
Signature

Verification

STATE OF NEW YORK)
COUNTY OF ERIE) SS:

A)
_____, being duly sworn, states he or she is the owner of (or partner in) _____, and is making the foregoing Attestation and Statement of Workforce and that such representations made are true to his or her own knowledge.

B)
_____, being duly sworn, states that he or she is the (Name of Corporate Officer) _____, of (Name of Corporation or Enterprise)_____, that he or she has read the Attestation and Statement of Workforce and that such representations made are true to his or her knowledge, and are made at the direction of the Board of Directors of the Corporation.

Sworn to before me this _____ _____
Day of _____. 20_____ Notary Public

ACKNOWLEDGMENT OF DRUG AND ALCOHOL TESTING COMPLIANCE

_____hereby acknowledges that a drug
(PRINT OR TYPE COMPANY NAME)
and alcohol program, which is required by Federal Department of Transportation rules (CFR, Title 49, Part 40 and 382), has been implemented by this Company. The program is administered by:

(PLEASE SELECT ONE)

( ) The Company itself - The program administrator is:

_____
(Company Administrator's Name and Telephone Number)

( ) Third - Party Administrator - The program administrator is:

_____
(Third - Party Administrator's Name)

_____
(Address)

_____
(Contact Person/Telephone)

_____
(Company's Official's Name)

_____
(Signature)

_____
(Date)

Subscribed to before me on

_____, day of _____ 20___

_____
Notary Public

Due to the safety-sensitive nature of the work which your Commercial Driver Licensed (CDL) employees may perform on this project, you are required to implement a drug and alcohol testing program which follows Federal Department of Transportation rules (CFR, Title 49, Parts 40 and 382). Further, as a condition of your contract, you must also submit proof of your compliance via this form to the Erie County Department of Public Works, office of the Commissioner.

This form must be signed and returned to the Commissioner of Public Works, 14th Floor, Rath Building, 95 Franklin Street, Buffalo, NY, no later than three (3) working days after the bid opening.

SECTION 000115
LIST OF DRAWING SHEETS

GENERAL

G000	COVER
G001	SCOPE OF WORK PLAN
G002	BASE BID PHASING AND STAGING PLAN
G003	ALTERNATE PHASING AND STAGING PLAN

HAZARDOUS MATERIALS

HM301	WEST BUILDING NORTH AND WEST ELEVATION HAZARDOUS MATERIALS REMOVAL PLAN - BASE BID
HM302	SOUTH ELEVATION HAZARDOUS MATERIALS REMOVAL PLAN - BASE BID
HM303	EAST ELEVATION HAZARDOUS MATERIALS REMOVAL PLAN - ALTERNATE #1
HM304	EAST BUILDING NORTH AND WEST ELEVATION HAZARDOUS MATERIALS REMOVAL PLAN - ALTERNATE #2
HM305	PLANTER AND PLANTER ELEVATION HAZARDOUS MATERIALS REMOVAL PLAN - ALTERNATE #3
HM306	ELLICOTT STREET UNDERPASS ELEVATION HAZARDOUS MATERIALS REMOVAL PLAN - ALTERNATE #4

ARCHITECTURAL

A300	REFERENCE BUILDING ELEVATIONS AND SCHEDULES
A301	ENLARGED BUILDING ELEVATIONS
A302	ENLARGED BUILDING ELEVATIONS
A303	ENLARGED BUILDING ELEVATIONS
A304	ENLARGED PLANTER WALL ELEVATIONS
A305	ELLICOTT STREET UNDERPASS
A801	DETAILS
A802	DETAILS

END OF SECTION 000115

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SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.2 DEFINITIONS

A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.3 PROCEDURES

A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.

1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.

B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.

C. Execute accepted alternates under the same conditions as other work of the Contract.

D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Alternate No. 1: East Elevation

1. Base Bid: Replace caulk between stone and adjacent materials. Provide repairs required per drawing documents. Clean stone panels and signage on West and North elevation.
2. Alternate #1: Replace caulk between stone and adjacent materials. Provide repairs required per drawing documents. Clean stone panels on East elevation.

B. Alternate No. 2: East Building North and West Elevation

1. Base Bid: Replace caulk between stone and adjacent materials. Provide repairs required per drawing documents. Clean stone panels and signage on West and North elevation.

2. Alternate #2: Replace caulk between stone and adjacent materials. Provide repairs required per drawing documents. Clean stone panels on North and West Elevation.

C. Alternate No. 3: Planters

1. Base Bid: Replace caulk between stone and adjacent materials. Provide repairs required per drawing documents. Clean stone panels and signage on West and North elevation.

2. Alternate #3: Restabilize stone planters. Coordinate with Library Gardener as required.

D. Alternate No. 4: Underpass

1. Base Bid: Replace caulk between stone and adjacent materials. Provide repairs required per drawing documents. Clean stone panels and signage on West and North elevation.

2. Alternate #4: Repair damaged wall and ceiling tile in tunnel.

END OF SECTION 012300

SECTION 028213
ASBESTOS ABATEMENT

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including but not limited to General and Supplementary Conditions, and other Specification Sections, apply to this Section.

B. "Hazardous Materials Survey for the Exterior Stone Panel and Sealant Project at the Buffalo & Erie Country Central Library" issued by Watts and dated August, 2026.

1.2 SUMMARY

A. This project includes the removal of asbestos-containing materials (ACM) from the Buffalo and Erie County Public Library, located at 1 Lafayette Square in Buffalo, New York as part of the 2025-2028 Buffalo and Erie County Public Library Capital Projects – Exterior Marble Restoration.

1.3 SCOPE OF WORK

A. The scope of work for asbestos abatement for this project is depicted on contract drawings HM-301, HM-302, HM-303, HM-304, HM-305, and HM-306. Refer to the entirety of the contract documents for additional information regarding the asbestos abatement scope of work. Asbestos-containing and/or PCB-containing sealants should be abated prior to any work that can disturb the asbestos-containing flashing / tar-coated copper through wall flashing behind façade panels. The scope of asbestos abatement includes the following:

1. Properly remove and dispose of all asbestos-containing sealants and backer rod associated with the planters. The sealant is present on both vertical and horizontal seams. Scrape all sealant from the planter seams. Dispose of all sealant and associated debris as combined asbestos and PCB bulk product waste.

2. Properly remove and dispose of asphaltic flashing and/or tar-coated copper through wall flashing as necessary to facilitate the work. Flashing is located behind façade panels and associated mortar. Also, perform any drilling for new fasteners. Coordinate the extent of abatement with the general contractor.

Refer to the contract drawings for delineation of Base Bid and Alternate scope of work.

1.4 CODES AND REGULATIONS

A. General Applicability of Codes and Regulations and Standards: Except to the extent that more explicit or more stringent requirements are written directly into the Contract Documents, all applicable codes, regulations and standards have the same force and effect (and are made a part of the Contract Documents by reference) as if copied directly into the Contract Documents, or as if published copies are bound herewith.

B. Contractor Responsibility: The Contractor shall assume full responsibility and liability for the compliance with all applicable Federal, State and local regulations pertaining to work practices, hauling, disposal, and protection of workers, visitors to the site and persons occupying areas adjacent to the site. The Contractor is responsible for providing medical examinations and maintaining medical records of personnel as required by the applicable Federal, State and local regulations. The Contractor shall hold the Owner and Owner's Representative harmless for failure to comply with

any applicable work, hauling, disposal, safety, health or other regulation on the part of himself, his employees or his subcontractors.

C. Federal requirements that govern asbestos abatement work or hauling and disposal of asbestos waste materials include but are not limited to the following:

1. OSHA: U.S. Department of Labor, Occupational Safety and Health Administration (OSHA), including but not limited to:

   a. Occupational Exposure to Asbestos, Tremolite, Anthophyllite, and Actinolite; Final Rules: Title 29, Part 1926, Section 1101 of the Code of Federal Regulations

   b. Respiratory Protection: Title 29, Part 1910, Section 134 of the Code of Federal Regulations

   c. Access to Employee Exposure and Medical Records: Title 29, Part 1910, Section 2 of the Code of Federal Regulations

   d. Hazard Communication: Title 29, Part 1910, Section 1200 of the Code of Federal Regulations

   e. Specifications for Accident Prevention Signs and Tags: Title 29, Part 1910, Section 145 of the Code of Federal Regulations

2. DOT: U.S. Department of Transportation, including but not limited to:

   a. Hazardous Substances: Title 49, Part 171 and 172 of the Code of Federal Regulations

3. EPA: U.S. Environmental Protection Agency (EPA), including but not limited to:

   a. Training Requirements of (AHERA) Regulations - Asbestos-Containing Material in Schools Final Rule & Notice: Title 40, Part 763, Subpart E, amended Appendix C of the Code of Federal Regulations dated April 4, 1994

   b. National Emission Standard for Hazardous Air Pollutants (NESHAP) National Emission Standard for Asbestos: Title 40, Part 61, Subpart A, and revised Subpart M (Revised Subpart B) of the Code of Federal Regulations dated November 20, 1990

D. State requirements that govern asbestos abatement work or hauling and disposal of asbestos waste materials include but are not limited to the following:

1. New York State Department of Labor (NYSDOL):

   a. Part 56 of Title 12 of the Official Compilation of Codes, Rules and Regulations of the State of New York (12 NYCRR Part 56) - Industrial Code Rule 56 (Code Rule)

2. New York State Department of Environmental Conservation (DEC) Regulations regarding waste collector registration:

   a. Title 6, Part 364 of the New York State Official compilation of Codes, Rules and Regulations. An annual "Industrial Waste Hauler Permit" specifically for asbestos-containing materials is required for transportation of asbestos-containing waste to the disposal site.

   b. New York State Department of Health (NYS DOH):
   Title 10, Part 73: Asbestos Safety Program Requirements

E. Local Requirements: Abide by all local requirements that govern asbestos abatement work or hauling and disposal of asbestos waste materials.

1.5 STANDARDS

A. General Applicability of Standards: Except to the extent that more explicit or more stringent requirements are written directly into the Contract Documents, all applicable standards have the same force and effect (and are made a part of the Contract Documents by reference) as if copied directly into the Contract Documents, or as if published copies are bound herewith.

B. Contractor Responsibility: The Contractor shall assume full responsibility and liability for the compliance with all standards pertaining to work practices, hauling, disposal, and protection of workers, visitors to the site and persons occupying areas adjacent to the site. The Contractor shall hold the Owner and Owner's Representative harmless for failure to comply with any applicable standard on the part of himself, his employees or his subcontractors.

C. Standards: These standards apply to asbestos abatement work or hauling and disposal of asbestos waste materials and include but are not limited to the following:

1. American National Standards Institute (ANSI)
1430 Broadway
New York, NY 10018
(212) 354-3300

2. Practices for Respiratory Protection Publication Z88.2-80

3. American Society for Testing and Materials (ASTM)
1916 Race Street
Philadelphia, PA 19103
(215) 299-5400

4. Safety and Health Requirements Relating to Occupational Exposure to Asbestos E 849-82

1.6 SUBMITTALS

NOTE: Submittals will not be considered acceptable for review unless they are submitted as a complete package including all specified information. All information shall be submitted in the order listed in this specification section. An electronic copy of the submittals must be provided. Include title pages to identify the information included in the distinct sections. If any of the specified information is not included, contractor shall include a page acknowledging the specified information, and an explanation as to why the information is not included. Pre-work submittals shall be submitted at least ten (10) business days prior to the commencement of work.

A. At least ten (10) business days before the start of the project, legible copies of the following items must be submitted to the Owner or the Owner’s Representative:

1. NYSDOL Contractor's License (DOH-432).

2. A statement signed by an authorized representative of the company stating that a Respiratory Protection Program that meets the requirements of OSHA Title 29, Part 1910, Section 134 will be in effect and followed during the project.

3. Project Notifications: As required by Federal and State regulatory agencies together with proof of transmittal (i.e. certified mail return receipt).

4. Provide a statement signed by an authorized representative of the company stating that the Building Occupants/Other Trades notification required by ICR 56 will be or has been posted at least 10 days prior to the start of the project. Provide a copy of the proposed Building Occupant Notification that will be posted at the job site.

5. A statement signed by an authorized representative of the company stating that a Negative Exposure Assessment (NEA) prepared in accordance with OSHA 1926.1101(f)(2), if one will be utilized. If a NEA will not be utilized, provide a statement signed by an authorized representative of the company stating that a negative exposure assessment will not be used.
6. Information regarding the type(s) of respiratory protection planned for use for each type of abatement activity.
7. Site-specific variance(s) proposed for use on the project, if applicable. Note: Any variance petition initiated by the contractor must be submitted to the Owner and/or Owner's Representative for review and approval prior to submission to NYSDOL.
8. Information (i.e. product data sheet) on the surfactant to be used. Note: Product must be specified for use on asbestos abatement projects.
9. Waste Hauler's Permit.
10. Landfill permit.
11. Name, address and phone number of the laboratory to be used on the project for analysis of OSHA personal samples. Include the accreditation of the analytical laboratory (ELAP certificates).
12. Site-Specific Work Plan that includes the following:
    a. A schedule for the completion of the work.
    b. Work procedures for each type of abatement activity.
    c. Types of equipment to be used.
    d. Anticipated location for water and electrical hookups.
    e. Anticipated location of decontamination enclosures.
    f. Anticipated location(s) of negative air exhaust.
    g. Estimated crew size, shift times and durations.
    h. Emergency procedures for fire and medical emergencies and for failure of containment barriers.

    Marked-up drawings must be provided with the work plan to clearly indicate proposed work plan and work area layout (i.e. locations of decontamination units, negative air exhaust areas, locations of restricted areas to be established, estimated duration of abatement activities per work area, worker/waste pathways, dumpster locations, utility connections, etc.).

B. During the project, legible copies of the following items must be submitted to the Owner or Owner's Representative:

1. NYSDOL Asbestos Handling Certifications (DOH 442) for all persons employed on the project. (Likeness on photographs must be clear) *****
2. Proof of current (within the last 12 months) physical examination for all persons to be employed on the project. *****
3. Proof of current (within the last 12 months) respirator fit test for all persons to be employed on the project. *****
4. Project Log Book Entries.
5. Daily Sign-in Log.
6. Work Area Entry/Exit Log.
7. Any and all changes to the Contract should any occur.
8. Personal sampling results within 24 hours of sampling.

***** If this information is not provided at the time each worker arrives on site, they will be prohibited from working until the information is provided and reviewed.

C. During the project, legible copies of the following items must be maintained at the job site, and available for review:

1. The company's standard operating procedures manual.
2. The company's respiratory protection program.
3. Safety Data Sheets for all substances to be used on the project.

D. Upon completion of the project, legible copies of the following items must be submitted to the Owner or Owner's Representative:

1. Personal air sampling records including chain-of-custody forms and laboratory results. These records must also include the accreditation of the analytical laboratory (ELAP certificates).
2. Waste manifest(s), shipment records and landfill receipts signed by the landfill operator within 30 days after the waste leaves the site. A percentage of the final payment will be withheld until the waste shipment record is received by the Owner or Owner's Representative.
3. Project log book.

1.7 QUALITY ASSURANCE

A. Regulatory Requirements: Comply with the referenced regulations and standards.

B. Pre-work Conference: Before the work of this section is scheduled to commence, a conference will be held at the site for the purpose of reviewing the Contract Documents, discussing requirements for the work and site-specific procedures, reviewing the Contractor's approved Site-Specific Work Plan, and abatement procedures. The asbestos abatement contractor shall attend.

1.8 SPECIAL CONDITIONS

A. Locations and quantities of all materials to be removed by the abatement contractor must be field verified. Information given on contract drawings and specification sections is for general orientation and information only.

B. The Contractor shall have at least one English-speaking supervisor on the job site at all times while the project is in progress. The supervisor must be able to communicate fluently with all employees.

PART 2 – PRODUCTS AND RESPIRATORS

2.1 PRODUCTS

A. WETTING MATERIALS: For wetting prior to disturbance of asbestos-containing materials, use amended water:

1. Amended Water: Water to which a surfactant has been added. Use a mixture of surfactant and water which results in wetting of the asbestos-containing material and retardation of fiber release during disturbance of the material equal to or greater than that provided by the use of one ounce of a surfactant consisting of 50% polyoxyethylene ester and 50% polyoxyethylene ether mixed with five gallons of water.

B. POLYETHYLENE SHEET: Fire retardant polyethylene film in the largest sheet size possible to minimize seams, 6-mil thick as indicated, clear, frosted or black as indicated.

C. DUCT TAPE: Provide duct tape in 2" or 3" widths as indicated, with an adhesive which is formulated to stick aggressively to sheet polyethylene.

D. SPRAY CEMENT: Provide spray adhesive in aerosol cans which is specifically formulated to stick tenaciously to sheet polyethylene.

E. DISPOSAL BAGS: Provide 6-mil thick leak-tight polyethylene bags labeled as described in the standards referenced in Part 1 of this section.

F. GARDEN SPRAYER: Provide a hand pump type pressure-can garden sprayer fabricated out of either metal or plastic, equipped with a metal wand at the end of a hose that can deliver a stream or spray of liquid under pressure.

2.2 RESPIRATORS

A. Select respirators from those approved by the National Institute for Occupational Safety and Health (NIOSH), Department of Health and Human Services.

B. Respirators shall be fit-tested to personnel by an industrial hygienist or other competent person. Fit-tested respirators shall be permanently marked to identify the individual fitted, and use shall be limited to that individual.

C. In accordance with 29 CFR 1926.1101(h)(3)(iv), at a minimum, all employees will be required to use full face, powered air purifying HEPA-filtered respirators when they are in a regulated area where OSHA Class I work is being performed until a negative exposure assessment is obtained in accordance with 1926.1101 (f)(2)(iii).

D. No respirators shall be issued to personnel without such personnel participating in a respirator training program.

E. High Efficiency Particulate Air (HEPA) respirator filters shall be approved by NIOSH and have the NIOSH P100 designation. The respirator filters shall also conform to the OSHA requirements in 29 CFR 1910.134 and 29 CFR 1926.1101.

F. A storage area for respirators shall be provided by the Contractor on the clean room side of any established decontamination chamber where they will be kept in a clean environment.

G. The Contractor shall provide and make available a sufficient quantity of respirator filters so that filter changes can be made as necessary during the work day. Filters will be removed and discarded during the decontamination process. Filters cannot be reused. Filters must be changed if breathing becomes difficult.

H. Filters shall not be used any longer than one eight (8) hour work day.

I. Respirator filters shall be stored at the project site in the clean room of each work area personnel decontamination unit.

J. Where not in violation of NIOSH and OSHA requirements the Contractor shall provide at least the following minimum respiratory protection to the maximum use concentrations indicated below:

OSHA/NIOSH Approved Respiratory Protection	Maximum use Concentrations (fibers/cm^3) (f/cc)
Half Face Mask Air Purifying, HEPA Filtered	1.0
Full Face Piece Air Purifying, HEPA Filtered, Qualitative Fit Test	5.0
Powered Air Purifying (PAPR), Full Face Piece, HEPA Filtered	10.0
Supplied Air - Continuous Flow, Full Face Piece, HEPA Filtered	10.0
Supplied Air - Full Face Piece, Pressure Demand	100.0
Supplied Air - Full Face Piece, Pressure Demand with Auxiliary SCBA Pressure Demand or Continuous Flow	100.0

***** A qualitative fit-tested tight fitting negative pressure air-purifying respirator can only be used in an atmosphere less than or equal to 10 times the PEL. In order to achieve the full protection factor, quantitative fit testing must be performed.

PART 3 – EXECUTION

3.1 ASBESTOS-CONTAINING MATERIAL HANDLING AND REMOVAL PROCEDURES

A. Perform work under this contract in accordance with the standards referenced in Part 1 of this Section. The provisions of any site-specific variance to New York State Department of Labor (NYSDOL) Industrial Code Rule 56 (ICR 56) obtained for this project may not be implemented until approval is given by the Owner or Owner's Representative.

B. Work resulting in disturbance of asbestos-containing materials shall be performed by a licensed asbestos abatement contractor employing certified workers in accordance with all applicable standards referenced herein.

C. Asbestos-containing and/or PCB-containing sealants should be abated prior to any work that can disturb the asbestos-containing flashing / tar-coated copper through wall flashing.

3.2 CLEAN-UP PROCEDURES

A. Comply with the standards referenced in Part 1 of this Section.

3.3 AIR SAMPLING AND ANALYSIS

A. The Owner shall be responsible for hiring an independent third-party firm to perform any/all required area air sampling and analysis in accordance with ICR 56 and AHERA.

B. The Contractor is required to ensure cooperation of its personnel with the Air Sampling Technician (AST) for general air sampling, and clearance testing of each work area after completion of asbestos work prior to removal of containment barriers.

C. Air samples shall be analyzed using Phase Contrast Microscopy (PCM) and/or Transmission Electron Microscopy (TEM) in accordance with applicable NYSDOL Industrial Code Rule 56 and AHERA requirements.

D. Standard turn-around time for laboratory analysis of area air samples shall not exceed twenty-four (24) hours. The Owner may request an expedited turn-around time for some or all air samples. Copies of all area air monitoring results shall be maintained by the Project Monitor/Air Sampling Technician and included with the project monitoring closeout report.

E. For clearance air sampling: PCM air samples, taken utilizing an aggressive sampling technique must show airborne concentrations of total fibers below 0.01 fibers per cubic centimeter (f/cc). TEM results must show less than (<) an average of 70 structures per square millimeter, and/or be deemed satisfactory in accordance with the Z-test methodology as prescribed by AHERA.

F. If the clearance criteria are not met, then the abatement/decontamination is incomplete. The cleaning procedures shall be repeated and retesting conducted until such time clearance criteria are successfully achieved. The Contractor shall bear the cost of any additional re-testing required due to failure to achieve final clearance criteria.

3.4 PERSONAL AIR SAMPLING

A. The Contractor shall conduct daily personal monitoring that is representative of the exposure of each employee who is assigned to work within a regulated area who is performing OSHA Class I or II work, unless the employer has obtained a negative exposure assessment for the entire operation in accordance with OSHA 1926.1101 (f)(2)(iii). Periodic personal monitoring shall be performed in accordance with 1926.1101(f)(3). If the provisions of 1926.1101(f)(4)(i) are met and monitoring is discontinued, the Contractor shall resume the periodic personal monitoring whenever there has been a change in process, control equipment, personnel or work practices that may result in new or additional exposures above the permissible exposure limits or when the Contractor has any reason to suspect that a change may result in new or additional exposures above the permissible exposure limits. This resumption of personal monitoring is required regardless of whether a "negative exposure assessment" was previously produced for the specific work area.

B. All personal samples shall be analyzed within 48 hours upon being collected at the site. The analysis of personal air samples shall be conducted by an ELAP approved laboratory, subject to approval of the Owner or the Owner’s Representative.

C. The Contractor shall notify affected employees of the personal monitoring results that represent that employee's exposure as soon as possible following receipt of monitoring results. The Contractor shall notify affected employees of the results of monitoring representing the employee's exposure in writing either individually or by posting at a centrally located place that is accessible to affected employees.

3.5 PROJECT MONITORING

A. The Owner shall retain the services of a New York State Department of Labor licensed and certified Project Monitor to provide periodic, as needed site inspections, documentation review, and general consulting services. ICR 56 requires a Project Monitor perform a visual inspection at the completion of the asbestos abatement work to verify the completeness of the abatement and the cleanup. The Contractor shall cooperate fully with the Project Monitor(s) during the course of work. Failure to cooperate fully may lead to the issuance of a Stop Work Order. Any liquidated damages incurred as a result of any stop work order issued shall be the responsibility of the Contractor.

3.6 DISPOSAL OF ASBESTOS-CONTAINING MATERIAL AND RELATED DEBRIS

A. Transport the asbestos-containing waste and related debris to the approved disposal site. Comply with the standards referenced in Part 1 of this Section. All asbestos waste removed from the project site shall be transported directly to the disposal site without any additional waste being added to the container during transport.

B. The Contractor's Hauler and Disposal Site shall be approved by the Owner.

C. The Contractor shall give twenty-four (24) hour notification prior to removing any waste from the site. Waste shall be removed from the site only during normal working hours unless otherwise specified. Unless otherwise specified, no waste may be taken from the site unless the Contractor and Environmental Consultant are present, and the Environmental Consultant authorizes the release of the waste.

D. The Contractor and the Environmental Consultant shall inspect the material in the transport container prior to the waste transporter taking possession of the waste.

E. All waste generated as part of the asbestos project shall be removed from the site within ten (10) calendar days after successful completion of all asbestos abatement work.

3.7 RESTORATION

A. Remove temporary decontamination facilities and restore area designated for these facilities to its original condition or better.

END OF SECTION 028213

SECTION 02 87 00
PCB-CONTAINING CAULK & SEALANT REMOVAL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including but not limited to General and Supplementary Conditions, and other Specification Sections, apply to this Section.

B. "Hazardous Materials Survey for the Exterior Stone Panel and Sealant Project at the Buffalo & Erie Country Central Library" issued by Watts and dated August 2026.

1.2 SUMMARY

A. Test results included within this Division indicate that certain caulks/sealants contain PCBs at a concentration greater than or equal to 50 parts per million and are not asbestos-containing materials. The following shall apply to the removal of PCB non-remediation waste (PCB bulk product waste) being done under this contract:

B. PCB non-remediation waste: Debris generated from construction materials manufactured with PCBs with a concentration greater than or equal to 50 ppm. This debris can be the result of building renovation and demolition projects. This debris is also referenced as PCB bulk product waste.

C. Testing: The Consultant reserves the right to employ an independent testing laboratory to perform testing on the work and air sampling. The Contractor shall be required to cooperate with the testing laboratory.

D. When performing any tasks in work areas that contain this product, the contractor is responsible for PPE for all workers, in accordance with all applicable regulations.

E. Size, location, and quantities of all caulks must be field verified by the Contractor. Information given on the drawings and/or specifications is for bidding purposes only.

F. The Contractor shall have at least one English-speaking supervisor on the job site at all times while the project is in progress. The supervisor must be able to communicate fluently with all workers and the Consultant.

G. The Contractor will be responsible for any damage resulting from improper storage and accidental spills or releases.

1.3. SCOPE OF WORK

A. This project includes the removal of PCB-containing caulks and sealants from the exterior of the Buffalo and Erie County Public Library, located at 1 Lafayette Square in Buffalo, New York as part of the 2025-2028 Buffalo and Erie County Public Library Capital Projects – Exterior Marble Restoration. The PCB abatement scope is depicted on contract drawings HM-301, HM-302, HM-303, HM-304, HM-305, and HM-306. Refer to the contract documents for additional information regarding the PCB abatement scope of work. The scope of PCB abatement includes the following:

1. Properly remove and dispose of all PCB-containing sealants and backer rod from all façade panel seams. Façade panel seam sealant across the entire building is PCB-containing. Dispose of all sealant and associated loose stone/marble/mortar/debris within 2 inches of sealants as PCB bulk product waste.

2. Properly remove and dispose of all PCB-containing sealants and backer rod associated with window systems and vertical window frame mullions. Window sealants across the entire building are PCB-containing. Scrape all loose mortar/debris from the openings. Dispose of all sealants and associated debris as PCB bulk product waste.

3. Properly remove and dispose of all PCB-containing sealants and backer rod associated with the planters. The caulk is present on both vertical and horizontal seams. Scrape all sealant from planter seams. Dispose of all sealant and associated debris as combined asbestos and PCB bulk product waste.

4. In areas where panels are in contact with PCB-containing caulk, paneling within 2 inches of PCB-containing caulk is PCB-contaminated. Remove sections of panels, as required to perform façade panel repair work. Leave straight edges at limits of stone panel removal. Install anchors into panels as required for the work. Closely coordinate work with masonry contractor. Refer to architectural drawings for additional information. Dispose of paneling and associated debris as PCB bulk product waste.

Refer to the contract drawings for delineation of Base Bid and Alternate scope of work.

1.4 EXECUTION

A. When working with PCB-containing caulks/sealants, work practices shall be performed in a manner that minimizes or prevents airborne dust generation and release to adjacent areas. Aggressive removal techniques, such as power grinding or sanding, shall not be used to remove or dislodge caulk or adjacent materials. The use of hand prying and scraping techniques shall be used to control airborne dust generation. Critical barriers shall be installed within window/door openings. Windows shall be closed and the ground covered with plastic from the exterior face of building to 10'-0" away from exterior face, or to the furthest point of gravity fall for material that may be dislodged by removal techniques employed, whichever is further. Debris shall be collected and the area shall be wiped down to collect dusts in accordance with all applicable regulations.

B. Following removal, all PCB bulk product waste shall be collected and placed into a dedicated container and stored in a lockable, controlled area. A PCB label identifying the waste as such is to be placed on the container with the appropriate information fields filled out. PCB bulk product waste shall not be mixed with other waste or soil.

C. It is the responsibility of the Contractor to determine current waste handling, transportation and disposal regulations for the work site and the waste disposal landfill. The contractor must comply fully with these regulations, all appropriate U.S. Department of Transportation, EPA and Federal, State and locally applicable regulations, and all other current legal requirements. The Contractor shall bear responsibility for managing and handling the waste at each stage of operation and properly storing in approved containers.

1.5 SUBMITTALS

A. Submittals: Thirty (30) days prior to commencement of the work on this project, the Contractor must submit the following to the Consultant:

1. Remediation Plan – General practices and procedures to be followed, including the anticipated removal methods and use of personal protective equipment.
2. Worker HAZWOPER certifications and proof of medical testing.
3. Copy of the Waste Transporter Permits/License for the transporter that will be used for final disposal of PCB waste.
4. Copy of the permit and final disposal facility license/approval letter which denotes their ability to accept and dispose of the PCB waste stream.

B. Prior to the commencement of work involving PCB-containing material removal, the Contractor must submit to the Consultant the name of its on-site supervisor responsible for such operations, as well as documentation that the supervisor has completed an OSHA HAZWOPER training course.

C. Following final removal and disposal, provide the waste transport and disposal documents (e.g., manifests), as well as certificates of destruction, as appropriate.

PART 2 – PRODUCTS (NOT APPLICABLE)

PART 3 – EXECUTION

3.1 PROJECT MONITORING/MANAGEMENT

A. The building Owner shall retain the services of an environmental consulting firm to provide periodic site inspections, documentation review, and general consulting services. The environmental consulting firm will supply an Environmental Control Representative (ECR) to monitor the remediation work.

B. The Contractor shall cooperate fully with the ECR during the course of work. Failure to cooperate fully may lead to the issuance of a Stop Work Order. Any liquidated damages incurred as a result of any stop work order issued shall be the responsibility of the Contractor.

C. The ECR will oversee work practices and ensure compliance to all applicable regulations, standards, and the Contract Documents.

D. The ECR will perform visual inspections during and after the remediation work to ensure that all contaminated material has been properly removed and all surfaces have been cleaned and/or encapsulated in accordance with the contract documents.

END OF SECTION 028700

SECTION 040140
MAINTENANCE OF STONE MASONRY

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Preparation for Maintenance of Stone.

B. Stone Cleaning.

C. Stone Repair.

D. Stone Joint Sealants.

E. Cleaning of Stone.

1.2 RELATED REQUIREMENTS

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

B. Section 044200 - EXTERIOR STONE CLADDING.

C. Section 079200 - Joint Sealants

1.3 SUMMARY

A. Extent of stone masonry restoration and cleaning is indicated on drawings and in provisions of this section.

1. Examine the site, building and adjacent property. Thoroughly investigate conditions at site to determine measures required to protect existing windows, doors and similar items from restoration and cleaning work. Examine potential interferences and difficulties that may be encountered in proper and complete execution.

1.4 REFERENCE STANDARDS

A. US Department of the Interior; National Park Service Cultural Resources; Heritage Preservation Series; Preservation Brief #1: Assessing Cleaning and Water-Repellant Treatments for Historic Masonry Buildings

B. ASTM C270 - Standard Specification for Mortar for Unit Masonry; 2026.

C. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018 (Reapproved 2024).

D. FS TT-S-230 - Sealing Compound, Synthetic Rubber Base, Single Component Chemically Curing (For Caulking and Glazing in Building Construction); Current Edition.

E. FS TT-S-1543 - Sealing Compound; Silicone Rubber Base (Caulking and Sealants); Current Edition.

F. TMS 402/602 - Building Code Requirements and Specification for Masonry Structures; 2022, with Errata (2024).

1.5 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene one week prior to commencing work of this section.

1. Require attendance of parties directly affecting work of this section.

2. Review conditions of installation, installation procedures, and coordination with related work.

B. Scheduling:
1. Perform cleaning and washing of stone between the hours of 7 am to 11 pm only.

1.6 SUBMITTALS

A. See Section 013300 - Submittal Procedures, for submittal procedures.

B. Product Data: Provide data on for each type of product to be used..

C. Submit to Architect for approval, manufacturer's product literature and installation/application instructions for each type of work encountered.

D. Certificates: Manufacturer's certification that materials conform to specification requirements.

E. Shop Drawings: Indicate setting details, partial replacement of stone(dutchmen),provisions for flashing, weep holes,epoxy injection details and repair pins.. Detail shoring and temporary or permanent support.

F. Samples: Submit four samples of each color of stone panel to be replaced units to illustrate matching color, texture and extremes of color range.

G. Manufacturer's Instructions: For cleaning materials, indicate special procedures, conditions requiring special attention.

H. Upon completion of work, provide a written two (2) year installation warranty and a manufacturer’s written warranty against staining, failure of caulking and sealing for period of twenty (20) years from date of certificate of substantial completion.

1.7 QUALITY ASSURANCE - MASONRY WORK

A. Comply with provisions of TMS 402/602, except where exceeded by requirements of Contract Documents.
1. Maintain one copy of each document on project site.

B. Restoration Contractor: Company specializing in masonry restoration with minimum five years of documented experience.
1. The Contractor shall keep on the job at all times during the entire restoration and cleaning project, a competent and responsible supervisor, whom has had a minimum of five (5) years experience in this type of specialized work. All other mechanics excluding laborers shall also have had a minimum of three (3) years experience.

C. Products specified herein shall be considered established criteria for type, function, finish and quality.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to project site in original, unopened packaging with labels intact.

B. Deliver stone neatly stacked and tied on pallets. Store clear of ground with adequate waterproof covering.

C. Store all materials in manufacturer's packaging.

D. Store materials in covered, well-ventilated area protected from exposure to detrimental conditions, including airborne contaminants, dirt, dust, sunlight, temperatures lower than 40 degrees F or greater than 100 degrees F, rainfall, sparks, or flame, and in accordance with the manufacturer's requirements. Store polymer resins and hardeners in separate area from construction materials that can absorb odors.

E. Handle and store materials in accordance with manufacturer's instructions.

1.9 FIELD CONDITIONS - MASONRY WORK

A. Cold and Hot Weather Requirements: Comply with requirements of TMS 402/602 or applicable building code, whichever is more stringent.

B. Temperature Limits: Repair stone units only when air temperature is between 40 and 90 deg.

and is predicted to remain so for at least seven days after completion of the Work unless otherwise indicated.

C. Protect stone repairs when temperature and humidity conditions produce excessive evaporation of water from mortar and patching materials. Provide artificial shade and wind breaks, and use cooled materials as required to minimize evaporation.

D. Do not clean or use process creating dust, dirt, when wind is over 10 mph.

1.10 WARRANTY

A. See Section 017700 - Closeout Procedures, for additional warranty requirements.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. The manufacturer and model number(s) or series listed below are Basis-of-Design.
   1. Subject to compliance with requirements of product identified as basis-of-design, other manufacturers shall be considered for bidding as an equivalent when the bidder provides a written request for equivalency to the Architect prior to bidding.
   2. Follow all instructions as indicated in Section 012519 - Equivalent Procedures.

B. Restoration products:
   1. PROSOCO: www.prosoco.com/#sle.
   2. Cathedral Stone Products; ____: www.cathedralstone.com.
   3. Substitutions: See Section 016000 - Product Requirements.

2.2 CLEANING MATERIALS

A. Cleaning Agent: Cleaning Compound type.
   1. Sure Klean Liquid Marble Cleaner.

B. Approved equal.

2.3 STONE REPAIR COMPOUND

A. Jahn M120 Stone Patching Compound as manufactured by Cathedral Stone Products, or equivalent.

1. Bonding agent as recommended by repair compound manufacturer.

2.4 MORTAR MATERIALS

A. Mortar: Non-shrinking, waterproof type as approved by Architect.

B. ASTM C270, Type N.

2.5 MASONRY MATERIALS

A. Stone Cladding: Section 044200.

1. New stone: Cut each new stone so that, when it is set in final position, the rift or naturel bedding planes will match the rift orientation of the existing stone.

2.6 MASONRY, CONCRETE AND STONE SEALANT

A. Equivalent to Dow Corning - 756 One Part Silicone Sealant. Sealant shall comply with FS TT-S-1543, FS TT-S-230 and ASTM C920,

STONE REPAIR ANCHORS AND PINS:

A. Mechanical fasteners and pins of Type 304 stainless steel: match existing shapes

2.7 WATER

A. Clean, potable.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that surfaces to be cleaned and restored are ready for work of this section.

3.2 PREPARATION FOR MAINTENANCE OF STONE

A. Contractor shall maintain an order of neatness and good housekeeping to his operations. Tools, scaffolding, ladders and other equipment shall at all times be kept in a neat and orderly arrangement. All items shall be placed out of reach of all unauthorized personnel at end of each work day; any debris and dirt resulting from Contractor's operations shall not be allowed to accumulate, but shall be disposed of daily.

B. Protect all existing surfaces and materials from damage due to work under this section. All existing materials damaged shall be replaced to match existing at no additional cost to Owner.

C. Protect surrounding elements from damage due to restoration procedures.

D. Carefully remove and store removable items located in areas to be restored, including fixtures, fittings, finish hardware, and accessories; reinstall upon completion.

E. Separate areas to be protected from restoration areas using means adequate to prevent damage.

F. Mask immediately adjacent surfaces with material that will withstand cleaning and restoration procedures.

G. Protect roof membrane and flashings from damage with 1/2 inch plywood laid on roof surfaces over full extent of work area and traffic route.

H. When using cleaning methods that involve water or other liquids, install drainage devices to prevent runoff over adjacent surfaces unless those surfaces are impervious to damage from runoff.

I. Do not allow cleaning runoff to drain into sanitary or storm sewers.

3.3 SEQUENCE OF WORK

A. The intent of the facade cleaning is to expose existing conditions and permit accurate evaluation of deterioration prior to stone restorations.

B. Perform work in the following sequence:
   1. Provide temporary repairs and weather protection for active leaks and areas susceptible to water infiltration.
   2. Perform cleaning test panels at inconspicuous locations and obtain Architect's approval of cleaning methods prior to proceeding with facade cleaning.
   3. Clean stone surfaces in accordance with approved test panels and specified cleaning procedures.
   4. Following completion of cleaning, perform stone restoration work, including crack repairs, dutchman repairs, stone replacement, mortar repointing and joint sealand replacement
   5. Upon completion of restoration activities, perform localized final cleaning of affected areas to remove mortar residue, construction related staining, debris, and other restoration by-products.

C. Protect glass, stainless steel, and other finished materials throughout cleaning and restoration operations.

D. Complete all stone restoration adtivities prior to final cleaning of adjacent glass and stainless-steel surfaces.

3.4 MASONRY AND STONE CLEANING

A. Test area:
   1. Clean a minimum 4' x 4' area of each type of stone surface and color for Architect's approval prior to proceeding with masonry cleaning. All cleaned areas shall match approved sample.
   2. Tests shall include:
      a. Application of water starting with very low pressure spray(under 100 psi) and increasing in pressure only if required. Do not exceed 800 psi). Use 15-45 degree fan spray tip and water flow rate of 6-8 gallons per minute, followed by scrubbing with a natural or synthetic bristle brush at areas of persistent soiling.
      b. Application of cleaning compound, if water wash is not sucessful. Follow manufacturer's instructions for application and rinsing of cleaning compound
   3. Methods and procedures used on approved sample areas shall be used for cleaning the remaining surfaces.

B. Cautions:
   1. Exercise cautions stipulated by restoration material manufacturer pertaining to safety equipment required and exposure of personnel to cleaning materials.
   2. Protect vehicles, pedestrians and foliage from cleaning operations. Contractor will be responsible for all overspray operations that damage public or private property.

C. Preparation of surfaces:

1. Protect all glass and non-masonry surfaces from exposure to cleaning materials as recommended by materials manufacturer.

D. Cleaning methods
1. Water washing: Use minimum pressure required to achieve cleaning. Do not exceed 800 psi). Use 15-45 degree fan spray tip and water flow rate of 6-8 gallons per minute.
2. Application of cleaning compound: Use cleaning compound only if water wash is unsucessful. Follow manufacturer's instructions for application and rinsing of cleaning compound.
3. Stop cleaning immediately and provide temporary protection, if cleaning reveals areas where moisture can enter building.

3.5 STONE REPAIR

A. Cut out to sound surfaces, deteriorated and/or spalled areas of existing stone in areas indicated on drawings.

B. Remove all spalling, scaling, crumbly material from surfaces and crevices. Render surfaces structurally sound, clean, free from contaminates that prevent proper bonding of repair compound.

C. Apply bonding agent to surfaces as required by repair compound manufacturer.

D. Install repair compound in accordance with manufacturer's recommendations to bring surfaces to original intended color, contours and texture.

3.6 STONE JOINT SEALANTS

A. Cut out existing mortar joints and/or sealant in stone to stone, stone to masonry and prepare joints to receive sealant application as follows:
1. Cut out all joints as indicated on drawings.
2. After joints have been cut out, flush out with compressed air to remove loose mortar, dust, and free from any contaminates that would prevent proper bonding of sealant.
3. Install specified sealant.
4. Refer to Section 079200 - Joint Sealants for additional requirements including testing.

3.7 REPLACEMENT OF EXISTING CONTROL JOINTS

A. Rake out existing sealant and backer rod.

B. Flush out joint with compressed air to remove loose material, dust, and free to be free from any contaminates that would prevent proper bonding of sealant. Leave joint ready to receive backer rod and sealant.

C. Install specified backer rod and sealant.

3.8 CRACK REPAIRS

A. Inject two component epoxy resin with marble dust aggregate into crack per manufacturer;s direction.

B. Grind and polish surface to match adjacent stone in finish and appearance.

3.9 PAINTING OF EXTERIOR STEEL LINTELS,

A. Where existing metal surfaces are scheduled to receive new paint finish, clean surfaces free of dirt, dust, grease, oil, wax and other contaminates that would be detrimental to bond of new primer and paint finish. Where rust or scale is present, wire brush or sandpaper clean before painting. Apply appropriate primer to all areas to provide proper bond between existing and new finish painted surfaces.

B. Apply new primer and paint:
   1. Paint: Equivalent to Sherwin-Williams Company.
      a. 1 coat - S-W Pro-Cryl Universal Water Based Primer.
      b. 2 coats – S-W SHER-CRYL HPA, B66-300 Series Gloss or B66-350 Series Semi-Gloss.

3.10 INSTALLING BACKER ROD & SEALANT

A. Joint Requirements
   1. Joint width to depth proportions: As recommended by sealant manufacturer.
   2. Regulate sealant depth in joints by use of proper backer rods.
   3. Backer rod size before insertion: As recommended by backer rod and/or sealant manufacturer for conditions encountered.
   4. Install backer rods observing manufacturer's precautions pertaining to punctures, folds and creases.

B. Priming: (Where recommended by manufacturer).
   1. Prime joints in which sealant is to be installed.
   2. Apply primer to confines of joint protecting adjacent exposed surfaces to prevent primer from staining surfaces not covered by sealant.
   3. Immediately remove primer splashed on adjacent surfaces following recommendations of primer manufacturer.
   4. Replace, at no additional cost to Owner, surfaces stained by primer.

C. Application:
   1. Fill joints from bottom to top by holding properly sized nozzle against bottom of joint. Superficial or skin bead, not acceptable.
   2. Properly tool sealant to assure correct bead configuration and maximum adhesion to sides of joints.
   3. Strike off excess material with tooling stick or knife.
   4. Unless otherwise indicated, finish bead flush with surface.
   5. Remove excess materials and smears adjacent to joint as work progresses.
   6. Remove masking tape, if used, immediately following tooling of joints.

D. Testing: Refer to Section 072900 - Joint Sealants for testing requirements.

E. Acceptance:
   1. Where sealant or material fails to adhere to sides of joint, remove and repeat installation procedures to insure properly sealed joints.
   2. Remove and replace sealant material allowing passage of air and/or water or that has hardened, cracked, crumbled, melted, shrunk, run or stained adjacent surfaces.

3.11 REBUILDING

A. Cut out damaged and deteriorated stone with care in a manner to prevent damage to any adjacent remaining materials.

B. Support structure as necessary in advance of cutting out units.

C. Cut away loose or unsound adjoining stone as directed.

D. Build in new units following procedures for new work specified in other section(s).

E. Mortar Mix: Colored and proportioned to match existing work.

F. Ensure that anchors are correctly located and built in.

G. Install built in stone work to match and align with existing, with joints and coursing true and level, faces plumb and in line. Build in all openings, accessories and fittings.

3.12 GENERAL CLEANING

A. Leave work area and surrounding surfaces clean and free of mortar spots, droppings, broken masonry and sealant.

B. Remove water-repellent material from exposed surfaces not scheduled to receive water-repellent.

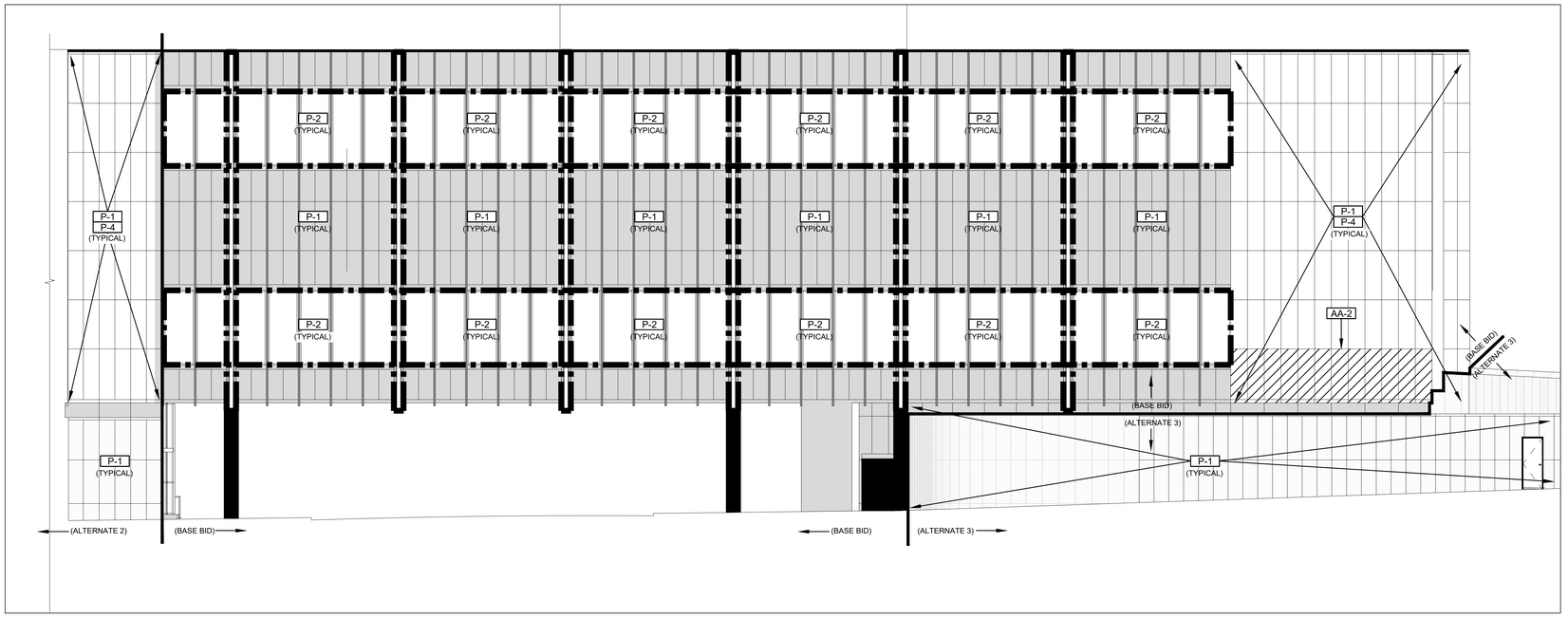
C. Immediately remove stains, efflorescence, or other excess resulting from the work of this section.

D. Remove excess mortar, smears, and droppings as work proceeds and upon completion.

E. Clean surrounding surfaces.

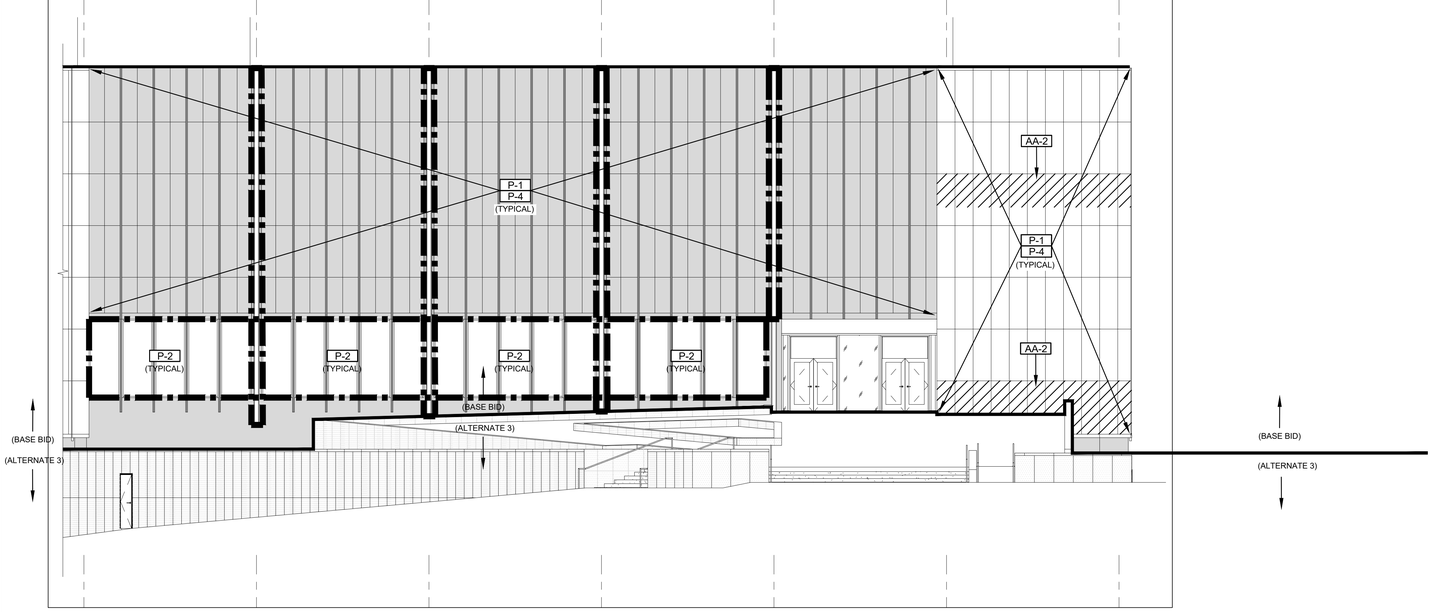
F. Remove debris caused by work required herein and legally dispose of away from site.

END OF SECTION 040140



1 HM-301 **NORTH ELEVATION WEST BUILDING HAZARDOUS MATERIALS REMOVAL**

1/8" = 1'-0"



2 HM-301 **WEST ELEVATION WEST BUILDING HAZARDOUS MATERIALS REMOVAL**

1/8" = 1'-0"

ASBESTOS AWARENESS NOTE

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2. ASPHALTIC FLASHING / TAR COATED COPPER THROUGH WALL FLASHING BEHIND FAÇADE PANELS IS ASBESTOS-CONTAINING. ANY DISTURBANCE TO THESE MATERIALS MUST BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR.

ASBESTOS ABATEMENT NOTES

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PCB ABATEMENT NOTES

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P-2 PROPERLY REMOVE AND DISPOSE OF ALL PCB-CONTAINING SEALANTS AND BACKER RODS ASSOCIATED WITH WINDOW SYSTEMS AND VERTICAL WINDOW FRAME MULLIONS. WINDOW SEALANTS ACROSS THE ENTIRE BUILDING ARE PCB-CONTAINING. SCRAPE ALL LOOSE MORTAR/DEBRIS FROM THE OPENINGS. DISPOSE OF ALL SEALANTS AND ASSOCIATED DEBRIS AS PCB BULK PRODUCT WASTE.

P-3 NOT USED.

P-4 IN AREAS WHERE PANELS ARE IN CONTACT WITH PCB-CONTAINING CAULK, PANELING WITHIN 2 INCHES OF PCB-CONTAINING CAULK IS PCB-CONTAMINATED. REMOVE SECTIONS OF PANELS, AS REQUIRED TO PERFORM FACADE PANEL REPAIR WORK. LEAVE STRAIGHT EDGES AT LIMITS OF STONE PANEL REMOVAL. INSTALL ANCHORS INTO PANELS AS REQUIRED FOR THE WORK. CLOSELY COORDINATE WORK WITH MASONRY CONTRACTOR. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. DISPOSE OF PANELING AND ASSOCIATED DEBRIS AS PCB BULK PRODUCT WASTE.

GENERAL NOTES

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B. PERFORM ALL WORK IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL RULES, REGULATIONS, GUIDELINES, AND THE CONTRACT DOCUMENTS.

C. ALL MATERIAL MEASUREMENTS AND/OR QUANTITIES AND LOCATIONS ARE APPROXIMATE AND FOR GENERAL ORIENTATION ONLY.

D. SECURE ALL TOOLS, EQUIPMENT, AND SUPPLIES. THE OWNER OR THEIR REPRESENTATIVE WILL NOT BE RESPONSIBLE FOR LOST, DAMAGED, OR STOLEN ITEMS.

E. KEEP THE WORK AREA IN A CLEAN AND SAFE CONDITION, PROVIDING TEMPORARY PROTECTION, PROTECTING BUILDING MATERIALS SCHEDULED TO REMAIN, AND TO PREVENT UNAUTHORIZED ACCESS DURING THE DURATION OF THE PROJECT. REPAIR OF DAMAGE CAUSED AS A RESULT OF INADEQUATE TEMPORARY PROTECTION OR CONTRACTOR ACTIVITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

F. COORDINATE ALL WORK ACTIVITIES WITH THE OWNER/OWNER'S REPRESENTATIVE TO ENSURE ONSITE ACTIVITIES ARE ACCEPTABLE TO THE OWNER, AND THAT REMOVALS ARE SUFFICIENT TO ACCOMMODATE THE PROJECT ACTIVITIES.

G. REFER TO SPECIFICATION SECTIONS 028213 AND 028700 AND THE ENTIRETY OF THE CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION.

H. CONTRACTOR SHALL WEAR ALL PERSONAL PROTECTIVE EQUIPMENT (PPE) AS REQUIRED BY OSHA. A COPY OF THE NEGATIVE EXPOSURE ASSESSMENT SHALL BE MAINTAINED ON SITE IF DIFFERENT PPE IS UTILIZED THAN WHAT IS REQUIRED BY OSHA.

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LEAD AWARENESS NOTES

1. COMPLY WITH OSHA 29 CFR 1926.62: LEAD EXPOSURE IN CONSTRUCTION; INTERIM FINAL RULE FOR ALL ACTIVITIES DURING WHICH AN EMPLOYEE MAY BE OCCUPATIONALLY EXPOSED TO LEAD.

PCB GENERAL NOTES

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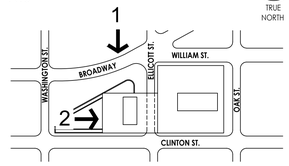
2. NEW YORK STATE REGULATES PCB BULK PRODUCT WASTE AS A RCRA HAZARDOUS WASTE AND ALL HAZARDOUS WASTE REGULATIONS APPLY. PROOF OF PROPER DISPOSAL MUST BE PROVIDED TO THE OWNER.
3. NO SOLVENTS OR GRINDING EQUIPMENT SHALL BE UTILIZED TO REMOVE CAULK FROM BUILDING CONCRETE/MASONRY.
4. ALL LOOSE OR DISLODGED MASONRY/MORTAR WITHIN 2 INCHES OF PCB CAULK REMOVAL LOCATIONS SHALL BE REMOVED DURING PCB CAULK REMOVAL. REMOVED MASONRY/MORTAR SHALL BE DISPOSED OF AS PCB BULK PRODUCT WASTE.
5. CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 028700 FOR DETAILED HANDLING AND DISPOSAL PROCEDURES.
6. ALL REMOVAL AREAS SHALL BE VISUALLY CLEARED BY THE PROJECT MONITOR/ CONSULTANT PRIOR TO ACCESS BY OTHER TRADES.
7. ALL BUILDING COMPONENTS IN CONTACT WITH PCB SEALANTS SHALL BE HANDLED AND DISPOSED OF AS PCB BULK PRODUCT WASTE.

KEY PLAN

NTS



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NY ENGINEERING FIRM CERTIFICATE #022419

PROJECT INFORMATION

Project Number
R25.17654.01

Client Name
ERIE COUNTY DEPARTMENT OF PUBLIC WORKS

Project Name
2025-2028 BECPL CAPITAL PROJECTS - EXTERIOR MARBLE RESTORATION

Project Address
1 LAFAYETTE SQUARE, BUFFALO, NY, 14203

Watts Architects &Engineers
99 Perry Street, Suite 300
Buffalo, NY 14203

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
01	11/05/2026	ADDENDUM 1

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATEMENT

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED ARCHITECT, TO ALTER IN ANY WAY AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IN A MANNER THAT WOULD PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Issued	Scale
10/02/2026	As indicated

Project Status
BID DOCUMENTS

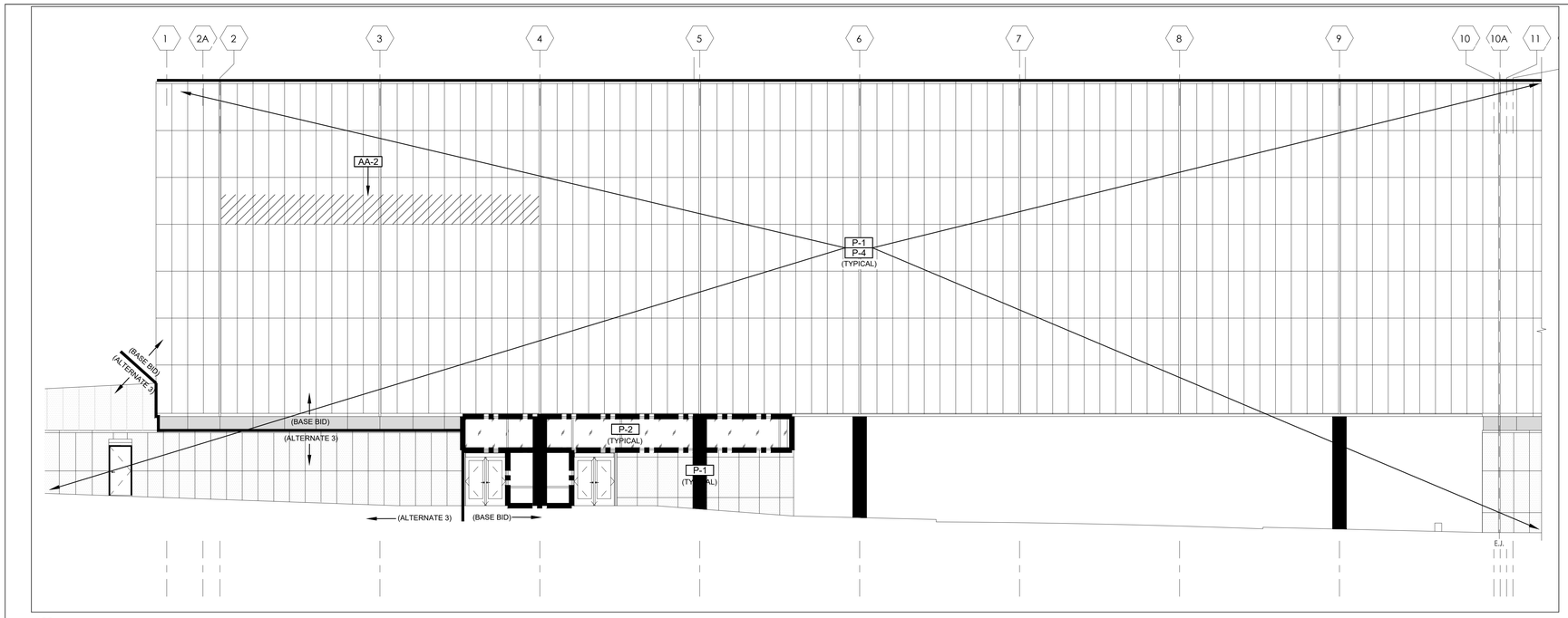
Drawn By	Checked By
NAK	TG

Drawing Title
WEST BUILDING NORTH AND WEST HAZARDOUS MATERIALS REMOVAL ELEVATIONS

Drawing Number
-

HM-301

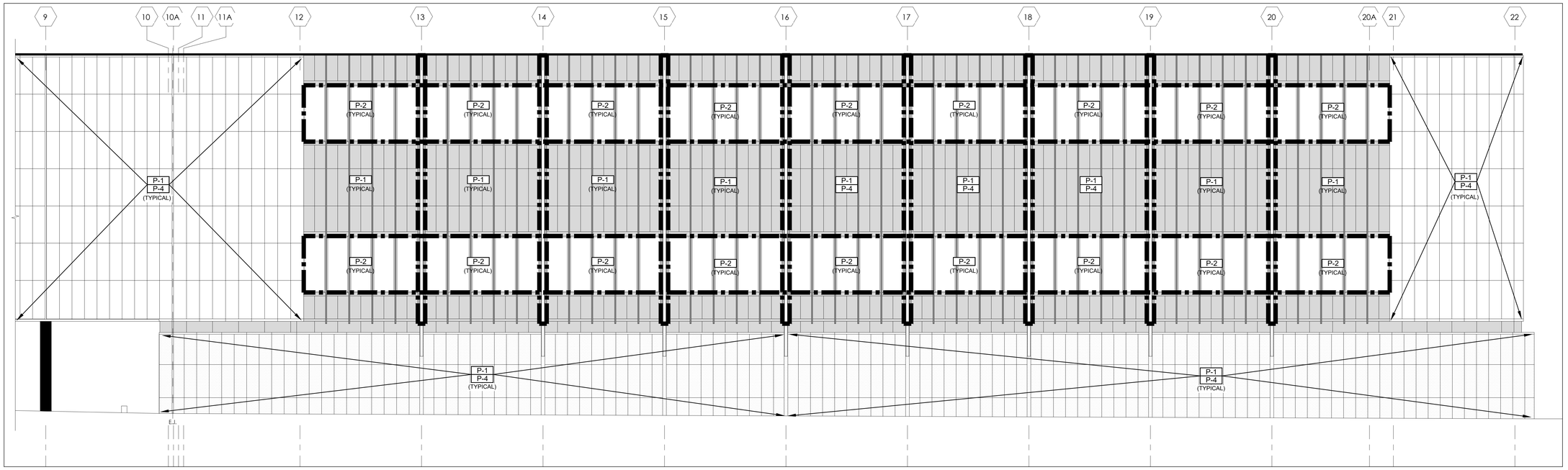
7/30/2026 10:47:14 AM PROJECT FILE: CH ACC C:\Users\NAKOSH~1\AppData\Local\Temp\AcPublish_28196\2026070_HM.dwg Nov 14, 2025 - 12:52pm



1 HM-302

SOUTH ELEVATION WEST BUILDING HAZARDOUS MATERIALS REMOVAL

1/8" = 1'-0"



2 HM-302

SOUTH ELEVATION EAST BUILDING HAZARDOUS MATERIALS REMOVAL - BASE BID

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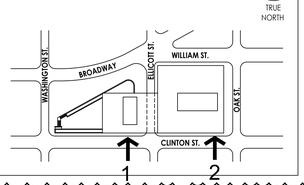
KEY PLAN

NTS



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NY ENGINEERING FIRM CERTIFICATE #0021419

PROJECT INFORMATION

Project Number
R25.17654.01

Client Name
ERIE COUNTY DEPARTMENT OF PUBLIC WORKS

Project Name
2025-2028 BECPL CAPITAL PROJECTS - EXTERIOR MARBLE RESTORATION

Project Address
1 LAFAYETTE SQUARE, BUFFALO, NY, 14203

Watts Architects &Engineers
99 Perry Street, Suite 300
Buffalo, NY 14203

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
01	11/05/2026	ADDENDUM 1

PROFESSIONAL STAMPS

STATE OF NEW YORK · KEVIN P. JANIS · LICENSED PROFESSIONAL ENGINEER · 082957

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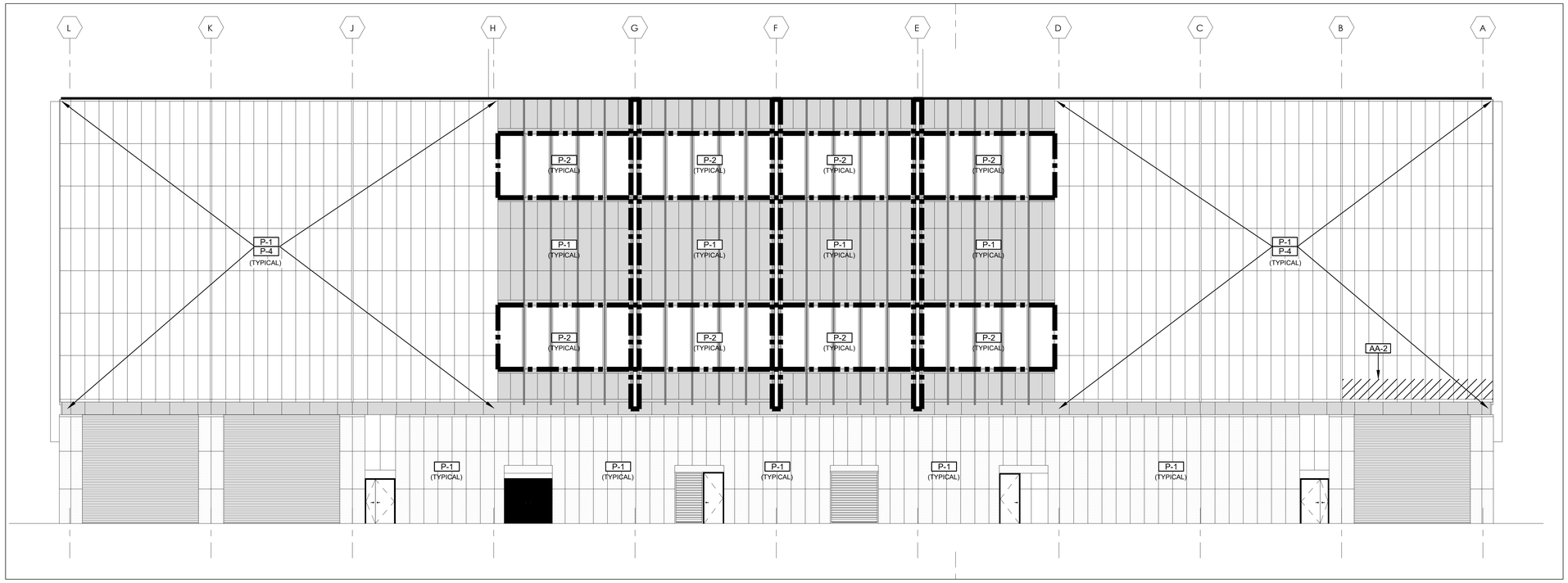
SHEET INFORMATION

Issued	Scale
10/02/2026	As indicated
Project Status	
BID DOCUMENTS	
Drawn By	Checked By
NAK	TG

Drawing Title
SOUTH HAZARDOUS MATERIALS REMOVAL ELEVATIONS

Drawing Number
HM-302

7/28/2026 10:47:14 AM PROJECT FILES ON ACC E:\Users\jbaldt21.Watts\Autodesk Docs\R25.17654.01_Erie Co Exterior Marble_2026 BID DOCUMENTS_Nov 24, 2026_12.25pm.rvt



1 HM-303

EAST ELEVATION EAST BUILDING HAZARDOUS MATERIALS REMOVAL - ALTERNATE #1

1/8" = 1'-0"

GENERAL NOTES

A. PCB-CONTAINING CAULK REMOVAL ASSOCIATED WITH FAÇADE PANELS AND WINDOW SYSTEMS SHALL BE PERFORMED USING MANUAL METHODS ONLY. THE CEILING DECK AND STRUCTURAL STEEL BEAMS WITHIN THE BUILDING ARE COVERED WITH A FRIABLE ASBESTOS-CONTAINING SPRAYED-ON ACOUSTICAL/FIREPROOFING (SOF) FINISH. THIS MATERIAL IS EXTREMELY VULNERABLE TO DELAMINATION FROM THE EFFECTS OF VIBRATION.

B. PERFORM ALL WORK IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL RULES, REGULATIONS, GUIDELINES, AND THE CONTRACT DOCUMENTS.

C. ALL MATERIAL MEASUREMENTS AND/OR QUANTITIES AND LOCATIONS ARE APPROXIMATE AND FOR GENERAL ORIENTATION ONLY.

D. SECURE ALL TOOLS, EQUIPMENT, AND SUPPLIES. THE OWNER OR THEIR REPRESENTATIVE WILL NOT BE RESPONSIBLE FOR LOST, DAMAGED, OR STOLEN ITEMS.

E. KEEP THE WORK AREA IN A CLEAN AND SAFE CONDITION, PROVIDING TEMPORARY PROTECTION, PROTECTING BUILDING MATERIALS SCHEDULED TO REMAIN, AND TO PREVENT UNAUTHORIZED ACCESS DURING THE DURATION OF THE PROJECT. REPAIR OF DAMAGE CAUSED AS A RESULT OF INADEQUATE TEMPORARY PROTECTION OR CONTRACTOR ACTIVITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

F. COORDINATE ALL WORK ACTIVITIES WITH THE OWNER/OWNER'S REPRESENTATIVE TO ENSURE ONSITE ACTIVITIES ARE ACCEPTABLE TO THE OWNER, AND THAT REMOVALS ARE SUFFICIENT TO ACCOMMODATE THE PROJECT ACTIVITIES.

G. REFER TO SPECIFICATION SECTIONS 028213 AND 028700 AND THE ENTIRETY OF THE CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION.

H. CONTRACTOR SHALL WEAR ALL PERSONAL PROTECTIVE EQUIPMENT (PPE) AS REQUIRED BY OSHA. A COPY OF THE NEGATIVE EXPOSURE ASSESSMENT SHALL BE MAINTAINED ON SITE IF DIFFERENT PPE IS UTILIZED THAN WHAT IS REQUIRED BY OSHA.

I. THE LOCATION OF ANY SITE STORAGE OF MATERIAL, EQUIPMENT AND WASTE TRAILER/DUMPSTER SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE PRIOR TO MOBILIZATION.

LEAD AWARENESS NOTES

1. COMPLY WITH OSHA 29 CFR 1926.62: LEAD EXPOSURE IN CONSTRUCTION; INTERIM FINAL RULE FOR ALL ACTIVITIES DURING WHICH AN EMPLOYEE MAY BE OCCUPATIONALLY EXPOSED TO LEAD.

PCB GENERAL NOTES

1. CONTRACTOR SHALL PROPERLY REMOVE AND DISPOSE OF ALL PCB CONTAINING SEALANTS AS INDICATED AS PCB BULK PRODUCT WASTE. REMOVAL AND DISPOSAL SHALL OCCUR IN ACCORDANCE WITH ALL FEDERAL AND STATE REGULATIONS. MATERIALS MUST BE TRANSPORTED TO A FACILITY THAT ACCEPTS TSCA PCB WASTE.
2. NEW YORK STATE REGULATES PCB BULK PRODUCT WASTE AS A RCRA HAZARDOUS WASTE AND ALL HAZARDOUS WASTE REGULATIONS APPLY. PROOF OF PROPER DISPOSAL MUST BE PROVIDED TO THE OWNER.
3. NO SOLVENTS OR GRINDING EQUIPMENT SHALL BE UTILIZED TO REMOVE CAULK FROM BUILDING CONCRETE/MASONRY.
4. ALL LOOSE OR DISLODGED MASONRY/MORTAR WITHIN 2 INCHES OF PCB CAULK REMOVAL LOCATIONS SHALL BE REMOVED DURING PCB CAULK REMOVAL. REMOVED MASONRY/MORTAR SHALL BE DISPOSED OF AS PCB BULK PRODUCT WASTE.
5. CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 028700 FOR DETAILED HANDLING AND DISPOSAL PROCEDURES.
6. ALL REMOVAL AREAS SHALL BE VISUALLY CLEARED BY THE PROJECT MONITOR/ CONSULTANT PRIOR TO ACCESS BY OTHER TRADES.
7. ALL BUILDING COMPONENTS IN CONTACT WITH PCB SEALANTS SHALL BE HANDLED AND DISPOSED OF AS PCB BULK PRODUCT WASTE.

ASBESTOS AWARENESS NOTE

1. WATTS A&E HAS PERFORMED A PRE-RENOVATION SURVEY FOR ASBESTOS. A COPY OF THE REPORT IS INCLUDED IN THE CONTRACT DOCUMENTS.
2. ASPHALTIC FLASHING / TAR COATED COPPER THROUGH WALL FLASHING BEHIND FAÇADE PANELS IS ASBESTOS-CONTAINING. ANY DISTURBANCE TO THESE MATERIALS MUST BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR.

ASBESTOS ABATEMENT NOTES

AA-1 NOT USED.

AA-2 PROPERLY REMOVE AND DISPOSE OF ASPHALTIC FLASHING AND/OR TAR COATED COPPER THROUGH WALL FLASHING AS NECESSARY TO FACILITATE WORK. FLASHING IS LOCATED BEHIND FAÇADE PANELS AND ASSOCIATED MORTAR. ALSO, PERFORM ANY DRILLING FOR NEW FASTENERS.

PCB ABATEMENT NOTES

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P-2 PROPERLY REMOVE AND DISPOSE OF ALL PCB-CONTAINING SEALANTS AND BACKER RODS ASSOCIATED WITH WINDOW SYSTEMS AND VERTICAL WINDOW FRAME MULLIONS. WINDOW SEALANTS ACROSS THE ENTIRE BUILDING ARE PCB-CONTAINING. SCRAPE ALL LOOSE MORTAR/DEBRIS FROM THE OPENINGS. DISPOSE OF ALL SEALANTS AND ASSOCIATED DEBRIS AS PCB BULK PRODUCT WASTE.

P-3 NOT USED.

P-4 IN AREAS WHERE PANELS ARE IN CONTACT WITH PCB-CONTAINING CAULK, PANELING WITHIN 2 INCHES OF PCB-CONTAINING CAULK IS PCB-CONTAMINATED. REMOVE SECTIONS OF PANELS, AS REQUIRED TO PERFORM FACADE PANEL REPAIR WORK. LEAVE STRAIGHT EDGES AT LIMITS OF STONE PANEL REMOVAL. INSTALL ANCHORS INTO PANELS AS REQUIRED FOR THE WORK. CLOSELY COORDINATE WORK WITH MASONRY CONTRACTOR. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. DISPOSE OF PANELING AND ASSOCIATED DEBRIS AS PCB BULK PRODUCT WASTE.

KEY PLAN

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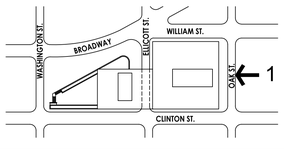

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SHEET INFORMATION

Issued	Scale
10/02/2026	As indicated

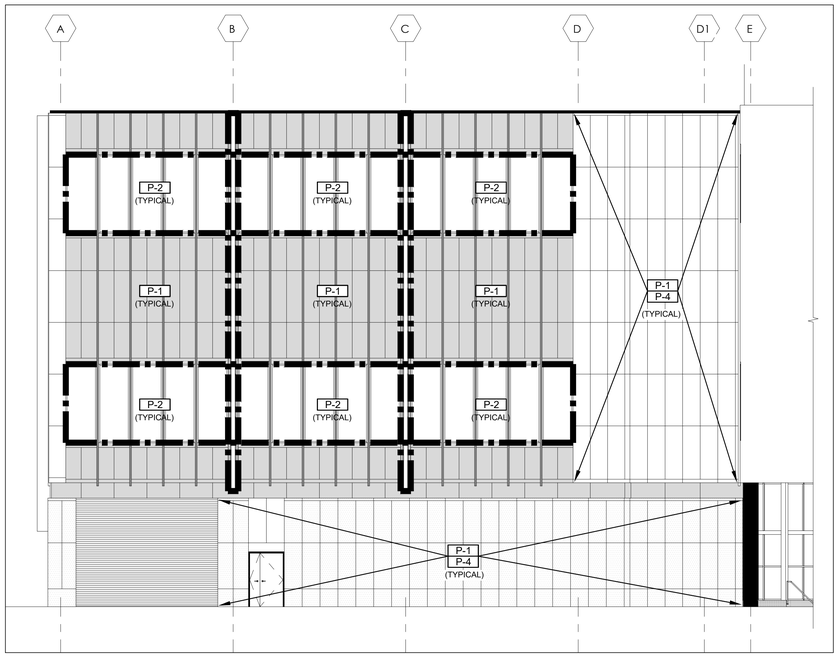
Project Status
BID DOCUMENTS

Drawn By	Checked By
NAK	TG

Drawing Title
EAST HAZARDOUS MATERIALS REMOVAL ELEVATION

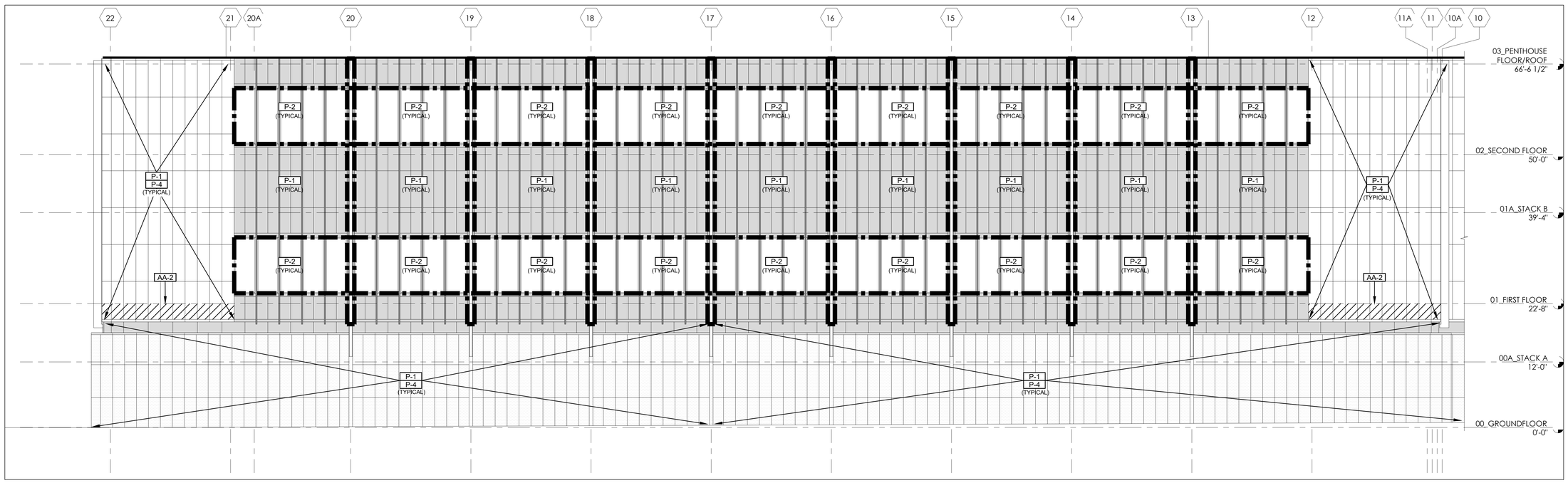
Drawing Number
HM-303

7/30/2026 10:47:14 AM PROJECT FILES ON ACC C:\Users\nkowalczyk\Desktop\ACA\Main_BIM\R25017654_Main.rvt Nov 14, 2025 - 12:33pm



1 HM-304 **WEST ELEVATION EAST BUILDING HAZARDOUS MATERIALS REMOVAL - ALTERNATE #2**

1/8" = 1'-0"



2 HM-304 **NORTH ELEVATION EAST BUILDING HAZARDOUS MATERIALS REMOVAL - ALTERNATE #2**

1/8" = 1'-0"

PCB GENERAL NOTES

1. CONTRACTOR SHALL PROPERLY REMOVE AND DISPOSE OF ALL PCB CONTAINING SEALANTS AS INDICATED AS PCB BULK PRODUCT WASTE. REMOVAL AND DISPOSAL SHALL OCCUR IN ACCORDANCE WITH ALL FEDERAL AND STATE REGULATIONS. MATERIALS MUST BE TRANSPORTED TO A FACILITY THAT ACCEPTS TSCA PCB WASTE.
2. NEW YORK STATE REGULATES PCB BULK PRODUCT WASTE AS A RCRA HAZARDOUS WASTE AND ALL HAZARDOUS WASTE REGULATIONS APPLY. PROOF OF PROPER DISPOSAL MUST BE PROVIDED TO THE OWNER.
3. NO SOLVENTS OR GRINDING EQUIPMENT SHALL BE UTILIZED TO REMOVE CAULK FROM BUILDING CONCRETE/MASONRY.
4. ALL LOOSE OR DISLODGED MASONRY/MORTAR WITHIN 2 INCHES OF PCB CAULK REMOVAL LOCATIONS SHALL BE REMOVED DURING PCB CAULK REMOVAL. REMOVED MASONRY/MORTAR SHALL BE DISPOSED OF AS PCB BULK PRODUCT WASTE.
5. CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 028700 FOR DETAILED HANDLING AND DISPOSAL PROCEDURES.
6. ALL REMOVAL AREAS SHALL BE VISUALLY CLEARED BY THE PROJECT MONITOR/ CONSULTANT PRIOR TO ACCESS BY OTHER TRADES.
7. ALL BUILDING COMPONENTS IN CONTACT WITH PCB SEALANTS SHALL BE HANDLED AND DISPOSED OF AS PCB BULK PRODUCT WASTE.

GENERAL NOTES

A. PCB-CONTAINING CAULK REMOVAL ASSOCIATED WITH FAÇADE PANELS AND WINDOW SYSTEMS SHALL BE PERFORMED USING MANUAL METHODS ONLY. THE CEILING DECK AND STRUCTURAL STEEL BEAMS WITHIN THE BUILDING ARE COVERED WITH A FRIABLE ASBESTOS-CONTAINING SPRAYED-ON ACOUSTICAL/FIREPROOFING (SOF) FINISH. THIS MATERIAL IS EXTREMELY VULNERABLE TO DELAMINATION FROM THE EFFECTS OF VIBRATION.

B. PERFORM ALL WORK IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL RULES, REGULATIONS, GUIDELINES, AND THE CONTRACT DOCUMENTS.

C. ALL MATERIAL MEASUREMENTS AND/OR QUANTITIES AND LOCATIONS ARE APPROXIMATE AND FOR GENERAL ORIENTATION ONLY.

D. SECURE ALL TOOLS, EQUIPMENT, AND SUPPLIES. THE OWNER OR THEIR REPRESENTATIVE WILL NOT BE RESPONSIBLE FOR LOST, DAMAGED, OR STOLEN ITEMS.

E. KEEP THE WORK AREA IN A CLEAN AND SAFE CONDITION. PROVIDING TEMPORARY PROTECTION, PROTECTING BUILDING MATERIALS SCHEDULED TO REMAIN, AND TO PREVENT UNAUTHORIZED ACCESS DURING THE DURATION OF THE PROJECT. REPAIR OF DAMAGE CAUSED AS A RESULT OF INADEQUATE TEMPORARY PROTECTION OR CONTRACTOR ACTIVITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

F. COORDINATE ALL WORK ACTIVITIES WITH THE OWNER/OWNER'S REPRESENTATIVE TO ENSURE ONSITE ACTIVITIES ARE ACCEPTABLE TO THE OWNER, AND THAT REMOVALS ARE SUFFICIENT TO ACCOMMODATE THE PROJECT ACTIVITIES.

G. REFER TO SPECIFICATION SECTIONS 028213 AND 028700 AND THE ENTIRETY OF THE CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION.

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LEAD AWARENESS NOTES

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ASBESTOS ABATEMENT NOTES

AA-1 NOT USED.

AA-2 PROPERLY REMOVE AND DISPOSE OF ASPHALTIC FLASHING AND/OR TAR COATED COPPER THROUGH WALL FLASHING AS NECESSARY TO FACILITATE WORK. FLASHING IS LOCATED BEHIND FAÇADE PANELS AND ASSOCIATED MORTAR. ALSO, PERFORM ANY DRILLING FOR NEW FASTENERS.

PCB ABATEMENT NOTES

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P-3 NOT USED.

P-4 IN AREAS WHERE PANELS ARE IN CONTACT WITH PCB-CONTAINING CAULK, PANELING WITHIN 2 INCHES OF PCB-CONTAINING CAULK IS PCB-CONTAMINATED. REMOVE SECTIONS OF PANELS, AS REQUIRED TO PERFORM FACADE PANEL REPAIR WORK. LEAVE STRAIGHT EDGES AT LIMITS OF STONE PANEL REMOVAL. INSTALL ANCHORS INTO PANELS AS REQUIRED FOR THE WORK. CLOSELY COORDINATE WORK WITH MASONRY CONTRACTOR. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. DISPOSE OF PANELING AND ASSOCIATED DEBRIS AS PCB BULK PRODUCT WASTE.

KEY PLAN

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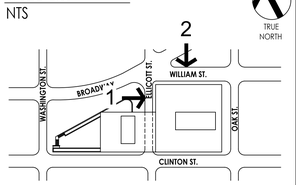

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SHEET INFORMATION

Issued	Scale
10/02/2026	As indicated

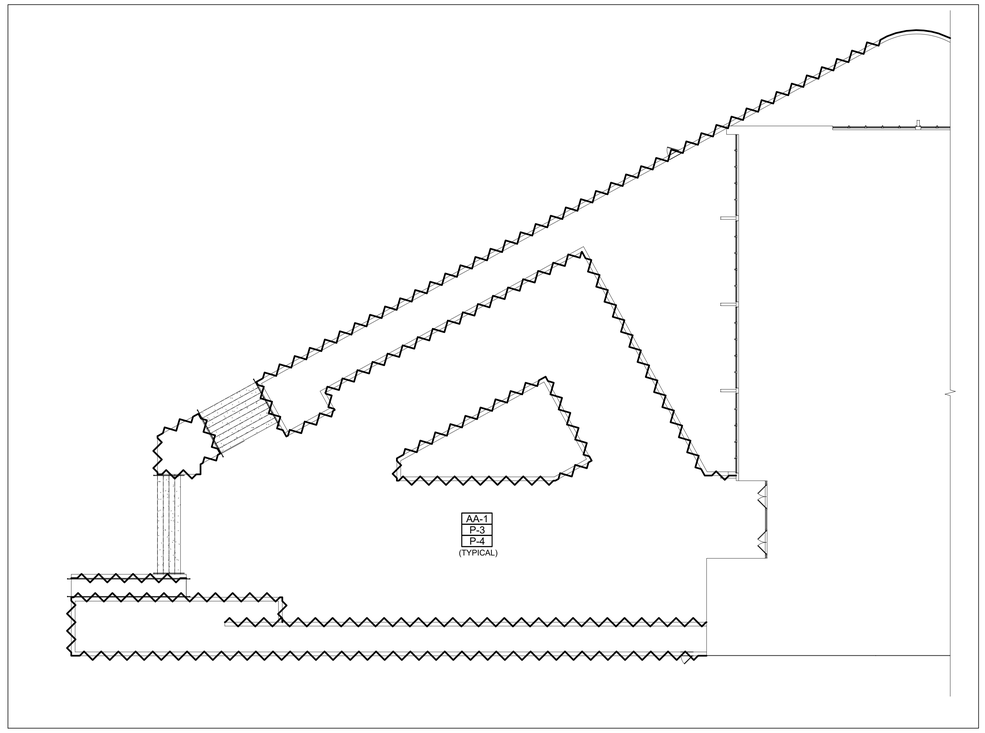
Project Status
BID DOCUMENTS

Drawn By	Checked By
NAK	TG

Drawing Title
EAST BUILDING NORTH AND WEST HAZARDOUS MATERIALS REMOVAL ELEVATIONS

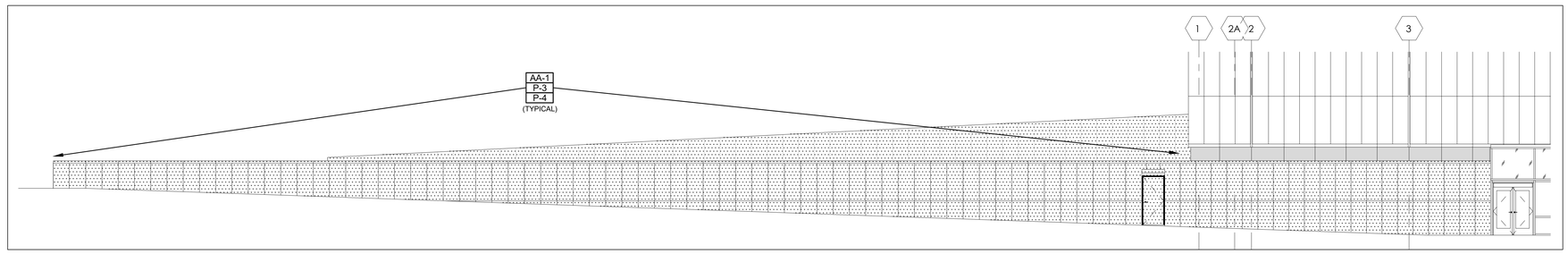
Drawing Number
HM-304

7/28/2026 10:47:14 AM PROJECT FILES ON ACC E:\Users\NAK2ZT~1\AppData\Local\Temp\AcPublish_24148\{2026}07_Hist.dwg Nov 24, 2026, 12:39pm



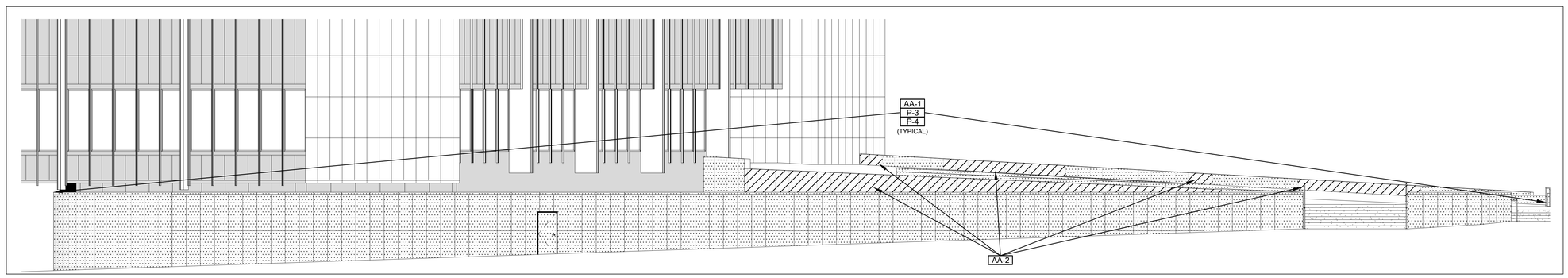
1 HM-305 **PLANTER HAZARDOUS MATERIALS REMOVAL PLAN - ALTERNATE #3**

1/8" = 1'-0"



2 HM-305 **SOUTH PLANTER ELEVATION HAZARDOUS MATERIALS REMOVAL - ALTERNATE #3**

1/8" = 1'-0"



3 HM-305 **NORTH PLANTER ELEVATION HAZARDOUS MATERIALS REMOVAL - ALTERNATE #3**

1/8" = 1'-0"

ASBESTOS AWARENESS NOTE

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ASBESTOS ABATEMENT NOTES

AA-1 PROPERLY REMOVE AND DISPOSE OF ALL ASBESTOS-CONTAINING SEALANTS AND BACKER ROD ASSOCIATED WITH THE PLANTERS. THE SEALANT IS PRESENT ON BOTH VERTICAL AND HORIZONTAL SEAMS. SCRAPE ALL SEALANT FROM THE PLANTER SEAMS. DISPOSE OF ALL SEALANT AND ASSOCIATED DEBRIS AS COMBINED ASBESTOS AND PCB BULK PRODUCT WASTE. REFER TO KEY NOTE P-3.

AA-2 PROPERLY REMOVE AND DISPOSE OF ASPHALTIC FLASHING AND/OR TAR COATED COPPER THROUGH WALL FLASHING AS NECESSARY TO FACILITATE WORK. FLASHING IS LOCATED BEHIND FAÇADE PANELS AND ASSOCIATED MORTAR. ALSO, PERFORM ANY DRILLING FOR NEW FASTENERS.

PCB ABATEMENT NOTES

P-1 NOT USED.

P-2 NOT USED.

P-3 PROPERLY REMOVE AND DISPOSE OF ALL PCB-CONTAINING SEALANTS AND BACKER RODS ASSOCIATED WITH THE PLANTERS. THE CAULK IS PRESENT ON BOTH VERTICAL AND HORIZONTAL SEAM. SCRAPE ALL SEALANT FROM THE PLANTER SEAMS. DISPOSE OF ALL SEALANT AND ASSOCIATED DEBRIS AS COMBINED ASBESTOS AND PCB BULK PRODUCT WASTE. REFER TO KEY NOTE AA-1.

P-4 IN AREAS WHERE PANELS ARE IN CONTACT WITH PCB-CONTAINING CAULK, PANELING WITHIN 2 INCHES OF PCB-CONTAINING CAULK IS PCB-CONTAMINATED. REMOVE SECTIONS OF PANELS, AS REQUIRED TO PERFORM FAÇADE PANEL REPAIR WORK. LEAVE STRAIGHT EDGES AT LIMITS OF STONE PANEL REMOVAL. INSTALL ANCHORS INTO PANELS AS REQUIRED FOR THE WORK. CLOSELY COORDINATE WORK WITH MASONRY CONTRACTOR. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. DISPOSE OF PANELING AND ASSOCIATED DEBRIS AS PCB BULK PRODUCT WASTE.

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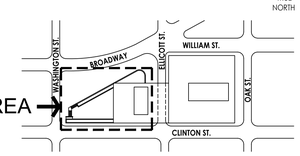
PCB GENERAL NOTES

1. CONTRACTOR SHALL PROPERLY REMOVE AND DISPOSE OF ALL PCB CONTAINING SEALANTS AS INDICATED AS PCB BULK PRODUCT WASTE. REMOVAL AND DISPOSAL SHALL OCCUR IN ACCORDANCE WITH ALL FEDERAL AND STATE REGULATIONS. MATERIALS MUST BE TRANSPORTED TO A FACILITY THAT ACCEPTS TSCA PCB WASTE.
2. NEW YORK STATE REGULATES PCB BULK PRODUCT WASTE AS A RCRA HAZARDOUS WASTE AND ALL HAZARDOUS WASTE REGULATIONS APPLY. PROOF OF PROPER DISPOSAL MUST BE PROVIDED TO THE OWNER.
3. NO SOLVENTS OR GRINDING EQUIPMENT SHALL BE UTILIZED TO REMOVE CAULK FROM BUILDING CONCRETE/MASONRY.
4. ALL LOOSE OR DISLODGED MASONRY/MORTAR WITHIN 2 INCHES OF PCB CAULK REMOVAL LOCATIONS SHALL BE REMOVED DURING PCB CAULK REMOVAL. REMOVED MASONRY/MORTAR SHALL BE DISPOSED OF AS PCB BULK PRODUCT WASTE.
5. CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 028700 FOR DETAILED HANDLING AND DISPOSAL PROCEDURES.
6. ALL REMOVAL AREAS SHALL BE VISUALLY CLEARED BY THE PROJECT MONITOR/ CONSULTANT PRIOR TO ACCESS BY OTHER TRADES.
7. ALL BUILDING COMPONENTS IN CONTACT WITH PCB SEALANTS SHALL BE HANDLED AND DISPOSED OF AS PCB BULK PRODUCT WASTE.

KEY PLAN

NTS



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NY ENGINEERING FIRM CERTIFICATE #0201419

PROJECT INFORMATION

Project Number
R25.17654.01

Client Name
ERIE COUNTY DEPARTMENT OF PUBLIC WORKS

Project Name
2025-2028 BECPL CAPITAL PROJECTS - EXTERIOR MARBLE RESTORATION

Project Address
1 LAFAYETTE SQUARE, BUFFALO, NY, 14203

Watts Architects &Engineers
99 Perry Street, Suite 300
Buffalo, NY 14203

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
01	11/05/2026	ADDENDUM 1

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATEMENT
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SHEET INFORMATION

Issued	Scale
10/02/2026	As indicated

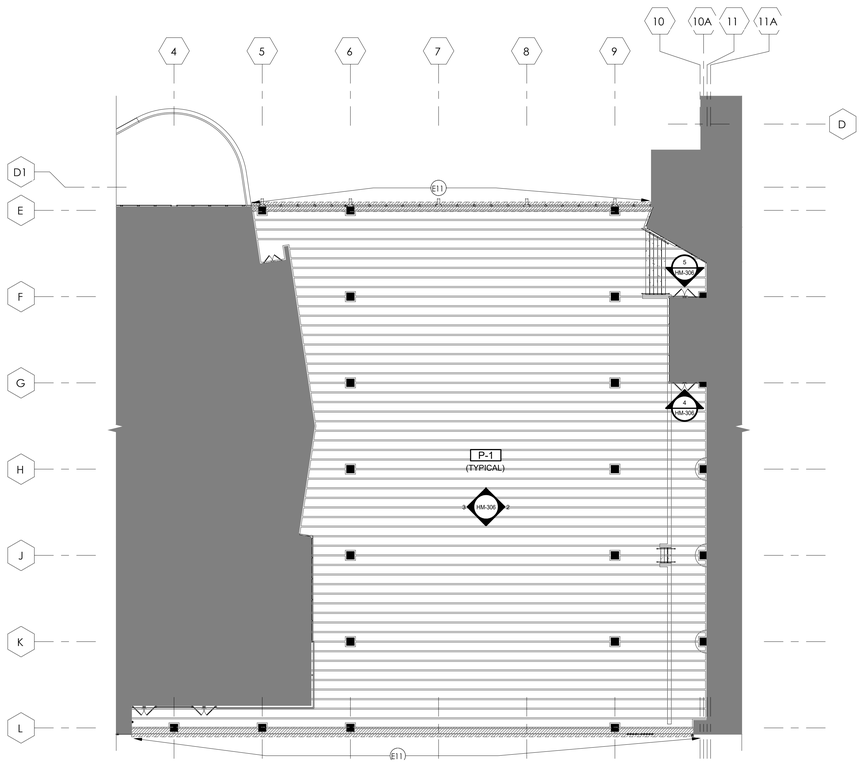
Project Status
BID DOCUMENTS

Drawn By	Checked By
NAK	TG

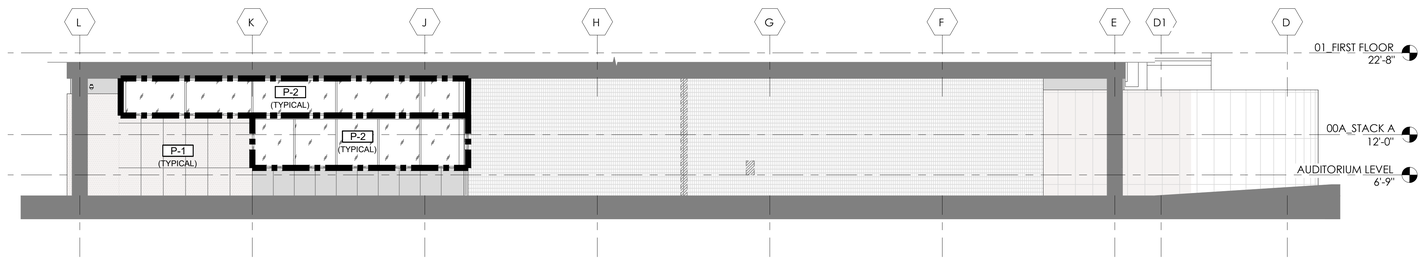
Drawing Title
PLANTER HAZARDOUS MATERIALS REMOVAL AND ELEVATIONS

Drawing Number
-
HM-305

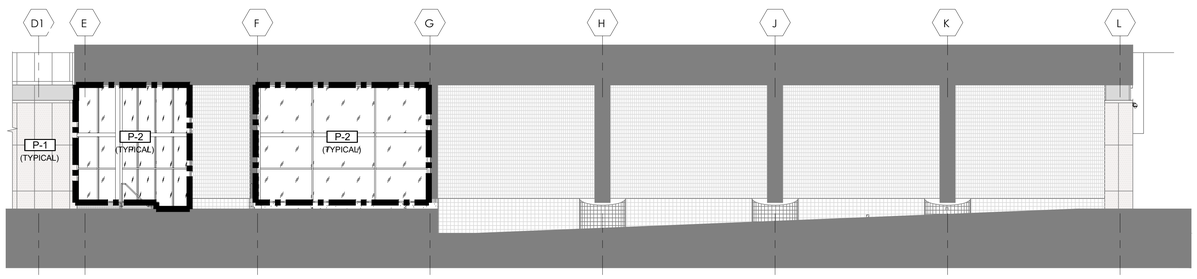
7/30/2026 10:47:14 AM PROJECT FILES ON ACC C:\Users\nkolbert1\Autodesk Docs\BECPL_Exterior Marble_Central_nkolbert1@wattsae.com.rvt Rev. 24, 2026, 12:30pm



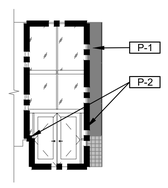
1 HM-306 **UNDERPASS HAZARDOUS MATERIALS REMOVAL - ALTERNATE #4**
1/8" = 1'-0"



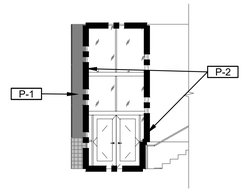
2 HM-306 **EAST UNDERPASS ELEVATION HAZARDOUS MATERIALS REMOVAL - ALTERNATE #4**
1/8" = 1'-0"



3 HM-306 **WEST UNDERPASS ELEVATION HAZARDOUS MATERIALS REMOVAL - ALTERNATE #4**
1/8" = 1'-0"



4 HM-306 **UNDERPASS SOUTH DOOR HAZARDOUS MATERIALS REMOVAL PLAN - ALTERNATE #4**
1/8" = 1'-0"



5 HM-306 **UNDERPASS NORTH DOOR HAZARDOUS MATERIALS REMOVAL PLAN - ALTERNATE #4**
1/8" = 1'-0"

ASBESTOS AWARENESS NOTE

1. WATTS A&E HAS PERFORMED A PRE-RENOVATION SURVEY FOR ASBESTOS. A COPY OF THE REPORT IS INCLUDED IN THE CONTRACT DOCUMENTS.
2. ASPHALTIC FLASHING / TAR COATED COPPER THROUGH WALL FLASHING BEHIND FAÇADE PANELS IS ASBESTOS-CONTAINING. ANY DISTURBANCE TO THESE MATERIALS MUST BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR.

ASBESTOS ABATEMENT NOTES

AA-1 NOT USED.

AA-2 NOT USED.

PCB ABATEMENT NOTES

P-1 PROPERLY REMOVE AND DISPOSE OF ALL PCB-CONTAINING SEALANTS AND BACKER RODS FROM ALL FAÇADE PANEL SEAMS. FAÇADE PANEL SEAM SEALANT ACROSS THE ENTIRE BUILDING IS PCB-CONTAINING. SCRAPE ALL LOOSE MORTAR/DEBRIS FROM SEAMS. DISPOSE OF ALL SEALANT AND ASSOCIATED DEBRIS AS PCB BULK PRODUCT WASTE.

P-2 PROPERLY REMOVE AND DISPOSE OF ALL PCB-CONTAINING SEALANTS AND BACKER RODS ASSOCIATED WITH WINDOW SYSTEMS AND VERTICAL WINDOW FRAME MULLIONS. WINDOW SEALANTS ACROSS THE ENTIRE BUILDING ARE PCB-CONTAINING. SCRAPE ALL LOOSE MORTAR/DEBRIS FROM THE OPENINGS. DISPOSE OF ALL SEALANTS AND ASSOCIATED DEBRIS AS PCB BULK PRODUCT WASTE.

P-3 NOT USED.

P-4 NOT USED.

GENERAL NOTES

A. PCB-CONTAINING CAULK REMOVAL ASSOCIATED WITH FAÇADE PANELS AND WINDOW SYSTEMS SHALL BE PERFORMED USING MANUAL METHODS ONLY. THE CEILING DECK AND STRUCTURAL STEEL BEAMS WITHIN THE BUILDING ARE COVERED WITH A FRIABLE ASBESTOS-CONTAINING SPRAYED-ON ACOUSTICAL/FIREPROOFING (SOF) FINISH. THIS MATERIAL IS EXTREMELY VULNERABLE TO DELAMINATION FROM THE EFFECTS OF VIBRATION.

B. PERFORM ALL WORK IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL RULES, REGULATIONS, GUIDELINES, AND THE CONTRACT DOCUMENTS.

C. ALL MATERIAL MEASUREMENTS AND/OR QUANTITIES AND LOCATIONS ARE APPROXIMATE AND FOR GENERAL ORIENTATION ONLY.

D. SECURE ALL TOOLS, EQUIPMENT, AND SUPPLIES. THE OWNER OR THEIR REPRESENTATIVE WILL NOT BE RESPONSIBLE FOR LOST, DAMAGED, OR STOLEN ITEMS.

E. KEEP THE WORK AREA IN A CLEAN AND SAFE CONDITION, PROVIDING TEMPORARY PROTECTION, PROTECTING BUILDING MATERIALS SCHEDULED TO REMAIN, AND TO PREVENT UNAUTHORIZED ACCESS DURING THE DURATION OF THE PROJECT. REPAIR OF DAMAGE CAUSED AS A RESULT OF INADEQUATE TEMPORARY PROTECTION OR CONTRACTOR ACTIVITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

F. COORDINATE ALL WORK ACTIVITIES WITH THE OWNER/OWNER'S REPRESENTATIVE TO ENSURE ONSITE ACTIVITIES ARE ACCEPTABLE TO THE OWNER, AND THAT REMOVALS ARE SUFFICIENT TO ACCOMMODATE THE PROJECT ACTIVITIES.

G. REFER TO SPECIFICATION SECTIONS 028213 AND 028700 AND THE ENTIRETY OF THE CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION.

H. CONTRACTOR SHALL WEAR ALL PERSONAL PROTECTIVE EQUIPMENT (PPE) AS REQUIRED BY OSHA. A COPY OF THE NEGATIVE EXPOSURE ASSESSMENT SHALL BE MAINTAINED ON SITE IF DIFFERENT PPE IS UTILIZED THAN WHAT IS REQUIRED BY OSHA.

I. THE LOCATION OF ANY SITE STORAGE OF MATERIAL, EQUIPMENT AND WASTE TRAILER/DUMPSTER SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE PRIOR TO MOBILIZATION.

LEAD AWARENESS NOTES

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KEY PLAN
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10/02/2026	As indicated
Project Status	
BID DOCUMENTS	
Drawn By	Checked By
NAK	TG

Drawing Title
ELLICOTT STREET UNDERPASS HAZARDOUS MATERIALS REMOVAL AND ELEVATIONS

Drawing Number
HM-306

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