

SKYLINES

#44

**VOLUME THIRTEEN
WINTER 2023**

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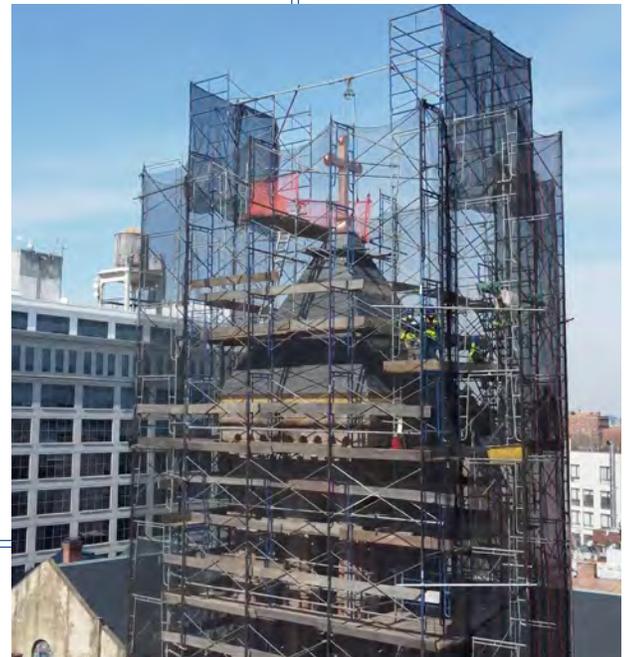
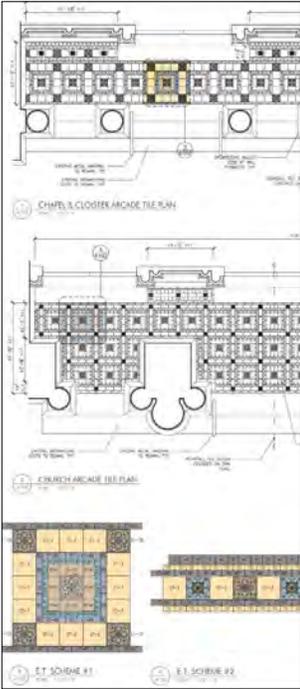
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REMINDERS:

- 1 Post your 300A Summary at your workplace through April.
- 2 Submit your 300A Summary information to the Injury Tracking Application by March 2.



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Dear *SKYlines* Readers,

It is with great pleasure that we present to you a [special edition of *SKYlines*](#), a 260-page publication commemorating the first 10 years of this newsletter. For over a decade, *SKYlines* has been bringing you news, trends, and insights from the Architecture, Engineering, and Construction (AEC) industry in New York. We are proud of the impact that our newsletter has had on the industry, and we remain committed to providing valuable information to our readers on the latest developments.

Since the first issue in Spring 2010, we have covered a wide range of topics in the building envelope restoration industry, charted the course of worker safety legislation from OSHA and the DOB, and kept readers current on the efforts at Scaffold Law reform.

SKYlines has showcased [Skyline Restoration](#)'s most iconic projects and detailed how each was achieved, and the awards it has received from organizations including the New York Landmarks Conservancy, SARA (Society of Registered Architects), North America Copper. (See [page 6](#) for the latest historic preservation project to receive two awards).

It has recorded the creation of [The Skyline Charitable Foundation](#) in 2014 and has chronicled the growth of Skyline Restoration's charitable golf outings as funds raised continued to edge upwards, eventually topping \$200K!

SKYlines continues to be a labor of love. What started with four pages now averages 16 per issue, and our readership keeps on growing. When I look back at the issues that spanned a decade through Winter 2020 which features a green solar panel roof on the front page, a piece entitled "Drones to the Rescue?"—all signs of changing times—I am so glad that I said "YES" to **John Kalafatis**' (founder and then president of Skyline Restoration) idea to put this newsletter together. I also want to thank our contributors, who have provided us with valuable content and insights over the years.

My dear friend **Peter Oxenham**, Skyline Restoration senior estimator, and *SKYlines* contributor couldn't have said it better: "For this important decade in NYC, the *SKYlines* newsletter has always helped to bring the significant issues affecting the maintenance, repair, and restoration of New York's buildings to our ever-growing readership. This book tells us where we have been and hopefully reminds us that in the restoration work we are so proud of, that ours is a very special and worthy endeavor."

You can view the 10-year anniversary edition [online](#) by scanning the QR code below. I will be happy to mail you a complimentary hard copy if you email me at editor@skylinesnews.com

Thank you for reading!



Eva Hatzaki
Editor



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SAVE THE DATE

15TH ANNUAL
GOLF
CLASSIC

BENEFITING THE SKYLINE CHARITABLE FOUNDATION

MONDAY
JUNE 26, 2023

OLD WESTBURY GOLF & COUNTRY CLUB

REGISTRATION OPENS SOON

SKYLINEFOUNDATION.US

MATERIAL PRICE ESCALATION BILL VETOED

On December 30, Governor Kathy Hochul vetoed the Material Price Escalation Bill (A.10109/S.8844).

As the [Women Builders Council \(WBC\)](#) reports in its January 6, 2023 "News Alert," "without contract clauses or relief to account for major price increases, many MWBEs, and other contractors are left "holding the bag" with drastically increased material costs not accounted for in their contract(s), at no fault of their own. The Bill would have provided equitable relief for contractors and subcontractors saddled with monetary losses in public contracts, from skyrocketing material prices due to extreme COVID market conditions.

The Bill would've allowed certain pre-pandemic public works contracts in 2020-2021, bid on before March 2020, to be adjusted when material prices have escalated more than five percent."

Scan QR code below to read the Governor's veto message. ■



GOVERNOR HOCHUL SIGNS CARLOS' LAW

LEGISLATION S.621B/A.4947B AMENDS THE PENAL LAW TO ADD CRIMINAL CORPORATE LIABILITY FOR THE DEATH OR SERIOUS PHYSICAL INJURY OF AN EMPLOYEE

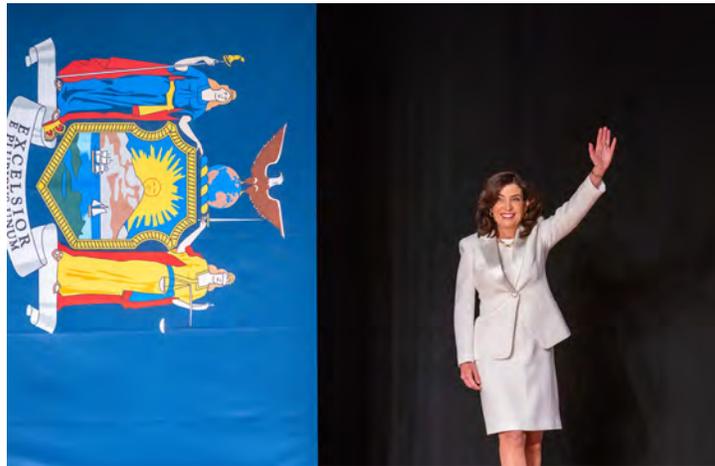


IMAGE: DARREN MCGEE/ OFFICE OF GOVERNOR KATHY HOCHUL

Governor Kathy Hochul enters the Empire State Plaza Convention Center in Albany to take the oath of office and deliver an inaugural address on January 1, 2023.

On December 23, 2022, Governor Kathy Hochul signed legislation establishing [Carlos' Law](#). The legislation (S.621B/A.4947B) amends the New York State Penal Law to increase the penalties for criminal corporate liability for the death or serious physical injury of an employee, a felony or misdemeanor, by a fine of up to \$500,000.

Carlos' Law (S.621B/A.4947B) creates greater accountability for tragic and avoidable injury to workers at New York construction sites. Under the new legislation, a corporation is guilty of criminal corporate liability for the death or injury of a worker when it negligently, recklessly, intentionally, or knowingly causes the death or serious physical injury of its employees while they are on the job. The legislation is named after Carlos Moncayo, a 22-year-old construction worker who tragically died at a New York

City construction site in 2015. ([See SKYlines#43](#)).

Pending chapter amendment

As the [Building Trades Employers Association \(BTEA\)](#) reports in its "Fast Four February 2023", at the same time the Governor issued an Approval Memorandum (#61) indicating an agreement with the Legislature to amend the bill in the form of a chapter amendment. According to the BTEA the Governor's chapter amendment will make the following changes:

- Penal Law section 10.10 is amended to add a new subdivision 22 to define 'EMPLOYEE' for purposes of sections 20.20 and 60.27 of the Penal Law. "Employee" will replace "worker" in the underlying bill.
- Penal Law section 20.20 (2) (c), titled Criminal liability of corporations, will be amended by adding subparagraph (iv) to include "is in relation to a

crime involving the death or serious physical injury of an employee where the corporation acted negligently, recklessly, intentionally or knowingly."

- Penal Law section 60.27 (Restitution and reparation) is amended to allow the court to order restitution and reparation in excess of the statutory limits in cases involving death or serious physical injury of an employee.
- Penal Law section 80.10 (Fines for corporations) is amended to limit the amount of fines that may be assessed against corporations adjudged guilty of crimes in connection with the death or severe physical injury of an employee.
 - o Felony: fixed by the court not to exceed \$500,000 (bill in chief set range at \$500,000-\$1,000,000)
 - o Misdemeanor: fixed by the court not to exceed \$300,000 (bill in chief set at \$300,000 - \$500,000)

"A new layer of accountability"

"Construction workers are the engine that keep our economy moving, and they deserve strong protections under the law," Governor Hochul said at the signing of the legislation. "This legislation will add a new layer of accountability for safety protocols and will establish important protections for the individuals who do this vital, difficult, and often dangerous work. I thank the bill sponsors for their partnership in getting this done, and I hope that this provides a measure of comfort to the family and loved ones of Carlos." ■

OSHA ANNOUNCES CHANGES FOR 2023

Changes in enforcement guidance announced by the Department of Labor's OSHA (Occupational Safety and Health Administration) early this year are designed to save lives, improve safety for workers and hold employers who place profit over safety accountable for their actions.

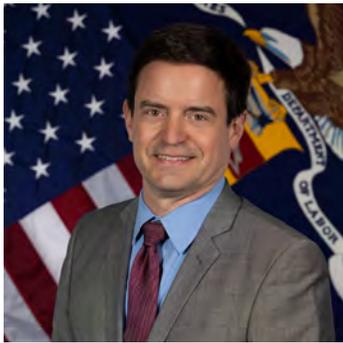


IMAGE: OSHA

US Department of Labor Assistant Secretary for Occupational Safety and Health Doug Parker.

On January 26, an OSHA press release revealed that employers who repeatedly expose workers to life-threatening hazards or fail to comply with workplace and safety requirements will be subject to increased penalties. While the current policy, in place since 1990, invokes citations only for "egregious willful" violations, when the new guidelines take effect "instance-by-instance" citations (known as IBI citations) may be invoked for "high-gravity" serious violations of OSHA standards – in other words, the failing need not be willful or egregious to merit a citation. These conditions include lockout/tagout, machine guarding, permit-required confined space, respiratory protection, falls, trenching and less serious violations pertaining to recordkeeping. The changes will take effect 60 days after the issuance, or on March 27, 2023 (according to [Occupational Health](#)

[& Safety Magazine](#)).

The guidance covers enforcement in general industry, agriculture, maritime and construction industries.

Separate, not grouped violations

A second related action asks OSHA regional administrators and area directors to stop grouping violations together. To more effectively deter non-compliance, separate citations may be served for each violation – more citations adds to more penalties and greater costs to negligent employers.

US Department of Labor Assistant Secretary for Occupational Safety and Health Doug Parker is quoted in the release with saying that the changes target an employer who simply "doesn't get it." Says Parker, "Employers who callously view injured or sickened workers simply as a cost of doing business will face more serious consequences."

Existing guidance on instance-by-instance citations are outlined in the [OSHA Field Operations Manual](#), and [CPL 02-00-080](#), "Handling of Cases to be Proposed for Violation-by-Violation Penalties."

Increased penalties

The Department of Labor has also announced increased OSHA civil penalty amounts based on cost-of-living adjustments. Under a 2015 legislation requiring agencies to adjust for inflation each year, OSHA penalty amounts increased from \$14,502 to \$15,625 per violation for serious and other-than-serious violations on January 17, 2023. The maximum penalty for willful or repeated violations went up from \$145,027 to \$156,259 per violation. ■



IMAGE: THE SKYLINE CHARITABLE FOUNDATION

THANK YOU FOR VISITING!

On Saturday, February 25, New York Mayor Eric Adams and Commissioner of Immigrant Affairs Manuel Castro met with asylum seekers at The [Skyline Charitable Foundation](#)'s headquarters in the Andromeda Building in Long Island City, where [Aid for Aids & Aid for Life](#) hosted their third legal clinic "Ruta al Asilo." [Fundavenyc](#) and the [Fernando Alban Foundation](#) also contributed to the event which wrapped up with a lunch offered by [Hungry Monk](#).

In the photo (l-r): Commissioner Castro; Mayor Adams; attorneys Carlos Calzadilla and Giselle Ayala; Jesus Aguais, Executive Director, Aid for Aids; Leonardo Uzcategui, Founder & CEO Fundavenyc. More on [skylinesnews.com](#) ■

SAFETY WEEK - MAY 1-5

From May 1-5, Safety Week aims to unite participants through a common purpose: "to provide the vision, insights, resources and equipment standards to inspire everyone in the industry to be leaders in safety." The group –70 national and global construction firms— asks the industry to make safety the cornerstone of all, and to "Celebrate safety where you work and demonstrate your continued commitment to building a stronger, safer industry." The goal is to extend the awareness year-round and

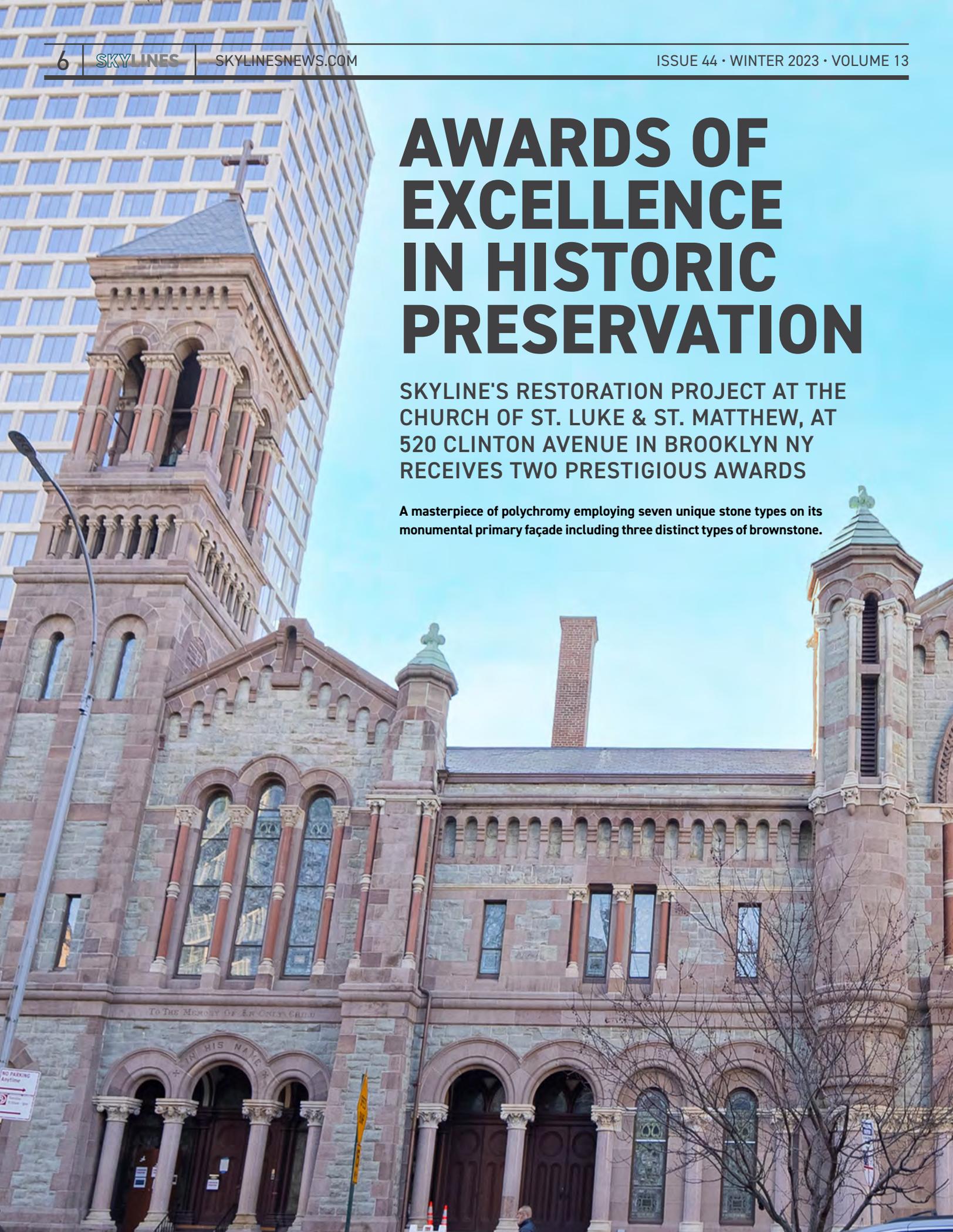
make activities and education ongoing. Events, including presentations and documentary film showings hosted by executive committee companies, will span the nation at many sites including O'Hare Airport in Des Plaines, IL to the Colorado Convention Center in Denver. The organizers invite all companies to download Safety Week tools and resources including tips, best practices and branded materials. See [constructionsafetyweek.com](#) ■



AWARDS OF EXCELLENCE IN HISTORIC PRESERVATION

SKYLINE'S RESTORATION PROJECT AT THE CHURCH OF ST. LUKE & ST. MATTHEW, AT 520 CLINTON AVENUE IN BROOKLYN NY RECEIVES TWO PRESTIGIOUS AWARDS

A masterpiece of polychromy employing seven unique stone types on its monumental primary façade including three distinct types of brownstone.



Skyline Restoration's exemplary restoration of the façade of a landmark building met all challenges, surpassed all goals, and garnered the preservation industry's highest honors:

[The New York Landmarks Conservancy's Lucy G. Moses Award and the Preservation League of New York State's Excellence in Preservation Award.](#)

Restoration and preservation projects do far more than bring buildings back to their prime for current and future generations to enjoy: they preserve a piece of history, they strengthen the surrounding neighborhood and community, they renew and revive a shared cultural heritage. When an historic structure is restored, it becomes once again a thing of beauty offering those who inhabit it a sense of pride, gifting those who visit it with admiration and wonder. It lifts spirits by reaffirming a belief that the past is something to be treasured, never neglected, or forgotten.

The **Lucy G. Moses Awards** from the New York Landmarks Conservancy are considered the Oscars of preservation. They are the Conservancy's highest honor recognizing leaders, architects, craftspeople, and building owners.

The **Excellence in Preservation Awards** from the Preservation League of New York State are the League's highest accolade, recognizing outstanding work in the field for almost 40 years. The awards allow the League to "shine a light on the people who are using historic preservation to make all of our lives better." To receive either honor is a capstone achievement, a testament that the awardee exemplifies the highest distinction in the field. To receive both is remarkable.

Skyline Restoration received the Preservation League's Excellence in Preservation Award on November 7, 2022, in a [virtual ceremony](#) for the restoration of the façade of [The Church of St. Luke and St. Matthew](#) at 520 Clinton Avenue, an avenue known as "the crown jewel of Clinton Hill" replete with historic buildings in north-Central Brooklyn.

On April 19, 2023, at St. Bartholomew's Church on Park Avenue in Manhattan, the New York Landmarks Conservancy will grant Skyline Restoration its fourth Lucy G. Moses Award. It will also be the first time Skyline receives the honor for two consecutive years (Skyline was honored for its work on One Wall Street last year).

The façade restoration of the landmark Italian Romanesque Revival style church designed by John Welch and built in 1888-1891 was made possible through New York City's 74-711 Special Permit process which created a means to help the Episcopal Diocese fund the repairs.

THE NEW YORK
LANDMARKS
CONSERVANCY

 Preservation
League of NYS

The five-year restoration process encountered seemingly insurmountable challenges throughout that threatened to derail all. The brownstones were found to be in far worse shape than anticipated. Almost two-thirds, 466 stones, were in the most deteriorated category. The global Covid-19 pandemic created material shortages and a year-long delay. The sheer tenacity, determination, knowledge, and resourceful ingenuity of the Skyline team under Vice President **Jasen Geraghty** and Project Manager **Wilson Cajilima** with the aid of Petrillo Stone working in close collaboration with [Li/Saltzman Architects \(LSA\)](#) met each hurdle and found a pathway to success at every juncture.

Last fall, **Frank Sanchis**, chair of the Preservation League's Board of Trustees, said at the online event that the preservation has enabled parishioners to once again worship and enjoy the magnificence of the church with confidence that the structure will endure: "That's the burden that has been lifted."

The League's website quotes **Reverend Andrew Durbridge**, Rector of St. Luke and St. Matthew, who praised the legacy of past parishioners "in caring for this landmark in Clinton Hill to benefit future parishioners and the local community."

This is surely a story of triumph that inspires admiration, applause, and awe.

THE JOURNEY TO EXCELLENCE

SKYLINE'S RESTORATION PROJECT AT THE CHURCH OF ST. LUKE & ST. MATTHEW RECEIVES THE PRESERVATION INDUSTRY'S HIGHEST HONORS: THE NEW YORK LANDMARKS CONSERVANCY'S LUCY G. MOSES AWARD AND THE PRESERVATION LEAGUE OF NY STATE'S EXCELLENCE IN PRESERVATION AWARD.



IMAGE: COURTESY OF MICHAEL MIDDLETON

By Michael Middleton
Preservation Architect
Li/Saltzman Architects

These awards recognize the quality, scale, and complexity of the carefully executed restoration — the result of a tremendous collaborative effort.



IMAGE: ALI MARCONI

The scope of brownstone restorative work was not finalized until scaffolding was installed and the entire façade was sounded. Li/Saltzman Architects worked closely with Skyline Restoration to assess the deteriorated condition of around 740 individual units.

Project Background

In 2017, the Episcopal Diocese of Long Island and Hope Street Capital entered into an agreement to utilize a Special Permit pursuant to New York City's Zoning Resolution Section 74-711.

This unique preservation tool afforded Hope Street Capital additional development rights for their new residential building at 545 Vanderbilt Avenue in Clinton Hill, Brooklyn in exchange for funding the exterior restoration of the New York City individually designated landmark, the Church of St. Luke and St. Matthew, at nearby 520 Clinton Avenue. Designed in the Italian

Romanesque Revival style by the Brooklyn Architect John Welch and constructed between 1888 and 1891, the Church is a masterpiece of polychromy employing seven unique stone types on its monumental primary façade including three distinct types of brownstone. The current building, which replaced an earlier Church destroyed by fire, itself was severely damaged by a fire in 1914 and was rebuilt with some alterations to the original design by the architectural firm of Dodge & Morrison in 1915. A second fire ravaged the Church in 2012.

After more than a century of deferred maintenance, exposure

to the elements, and two fires, the Church's masonry, and particularly its brownstone, was found to be in very poor condition. While such circumstances would present challenges for any project, additional tribulations arose from the onset of the Covid-19 pandemic and its resulting supply chain crises, material shortages, and extremely long lead times which still affect construction projects today. Fortunately, after some setbacks and through a tremendous collaborative effort, the design team and Skyline Restoration (Skyline) were about to successfully source, carve, and install hundreds of new

brownstone units. In the end, the quality, scale, and complexity of the carefully executed restoration was recognized by the **Preservation League of New York State** who presented the Church of St. Luke and St. Matthew with a **2022 Excellence in Preservation Award**.

Brownstone Conditions and Repairs

In the 19th century, **brownstone** was considered a cheap local material and was used extensively throughout Manhattan and Brooklyn. Most brownstone in New York City has not stood the test of time with the stone's natural composition often being susceptible to deterioration just from normal freeze/thaw weathering patterns. The natural deficiencies in many previously used local brownstones coupled with exposure to the extreme heat generated by two fires, undoubtedly resulted in the highly deteriorated masonry conditions that were observed at the onset of the project. The Church's monumental primary façade features three brownstones, and each showed their own specific set of deteriorated conditions. A **light brown brownstone** was the most common on the Church's primary façade and in many instances it had eroded severely and was previously repaired with a composite mortar patching meant to rebuild material and profile loss. A **dark brown brownstone**, used most prominently at the Church's wheel window, typically exhibited separation and delamination of its bedding layers. Lastly, a **red brownstone**, used for colonette shafts, was found to have extensive material loss, through-unit cracking, or to have been completely encased in composite patching.

One of the first challenges was to adequately prepare a scope of restorative work for the



IMAGE: ALI MARCONI

Skyline Restoration crews place the new cross on the historic Church of St. Luke and St. Matthew in Brooklyn, NY.



IMAGES: LSA

Roughly 63% of all brownstone units fell into the most deteriorated category requiring partial or full replacement. One by one, all 466 new brownstone units were tooled by a two-man team.

brownstone units without the benefit of scaffolding in place and the ability to examine all of the masonry up-close. That meant that it would not be until the construction phase that the full scope and extent of brownstone repairs would be known. To address this, **Li/Saltzman Architects (LSA)** established a series of criteria in the contract documents for what constituted the correct repair based on the depth and/or surface area of deteriorated stone. Regardless of what was originally documented in the drawings, if the deterioration of a brownstone unit was just limited to the surface of the stone and less than $\frac{1}{2}$ " in depth, only its historic tool marks were recreated; where deterioration resulted in removals between $\frac{1}{2}$ " and $1\frac{1}{2}$ " in depth but in areas less than one square foot, the stone was repaired with composite patching; and where deterioration exceeded $1\frac{1}{2}$ " and was over one square foot in size, a new brownstone **dutchman** or full unit replacement would be required.

Façade Sounding and Survey

While a general idea of the overall condition of the masonry had been established through limited physical access during the design phase, the scope of brownstone restorative work was not finalized until scaffolding was installed and the entire façade was sounded. LSA worked closely with Skyline to assess the deteriorated condition of around 740 individual units. One by one, the deteriorated and/or hollow sounding portion of each stone was removed until stable substrate was found. It was at that point that LSA had to make a final determination as to the proper repair based on the previously established restoration criteria. While we knew that the brownstone was in poor condition, ultimately, it was found



"It has been a pleasure and an honor to work with the entire team involved with this project. It has been extremely satisfying to watch a complete transformation of this iconic structure from its worn condition to the gem it looks like today. We appreciate the level of commitment from the design team, field personnel, and church staff to restore this building into a highlight of this great neighborhood in Brooklyn."

Jasen Geraghty
Vice President
Skyline Restoration

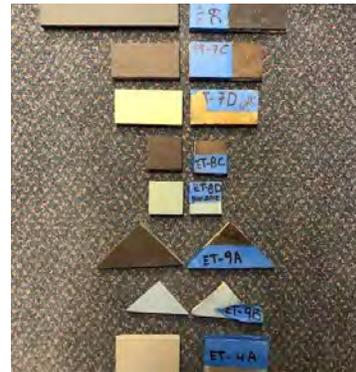
to be in much worse condition than anticipated with many units losing up to one-half of their total depth. To give an example, at the rear of the belfry where an eight-inch-thick dark brown brownstone was employed, removals of four inches or more were typical before stable stone was found. In the end, approximately 466 brownstone units, or roughly 63% of all brownstone, fell into the most deteriorated category requiring partial or full unit replacement. In addition to the review of the 740, upon completion of deteriorated brownstone removals, LSA had to redocument the proposed repairs for review and concurrence by the Landmarks Preservation Commission (LPC), the Episcopal Diocese, and the developer.

Brownstone Sourcing

Very early into the façade sounding survey process, Skyline found and presented a **brownstone** from **Medina**, New York which was a very good color and texture match to the historic stone. It was approved by the LPC and the team moved forward confidently believing that it had found the brownstone that was to be used for replacement units. However, by the time we were ready to order brownstone, two things had occurred; we required significantly more material to

make 466 new units of varying sizes and the Covid-19 pandemic struck. Because of this, Skyline's initial stone supplier informed us that they did not have enough of the Medina brownstone on hand to meet the order and due to the pandemic, they would not be able to have additional stone quarried. Back at square one, Skyline reached out to five other stone suppliers who either did not have an acceptable brownstone material match, sufficient quantities, or the ability to have brownstone shipped to them from other parts of the country or the world. It was at that point that the team considered the use of cast stone for the replacement units in lieu of natural brownstone. As this restoration was part of a

74-711 Special Permit mandated to restore the Church to a sound first class condition, the LPC required that only natural brownstone be used to replace natural brownstone. Though the LPC rejected the proposal for the use of cast stone, they were able to refer the team to the [Petrillo Stone Corporation \(Petrillo\)](#) of Mount Vernon, New York. Working with Petrillo, we were able to find a second **brownstone**, referred to as **Ohio Burgundy**, which was acknowledged to be a lesser but still acceptable match to the historic brownstone. The upheaval caused by the Covid-19 pandemic in the sourcing of brownstone set the project back by approximately one year.



IMAGES: SKYLINE RESTORATION

Partial sampling of chapel, cloister and church arcade "encaustic" floor tiles to replace designated existing damaged surfaces as part of Skyline's overall scope of work. Tile Source of Atlanta, Georgia, produced over 3200 tiles in 26 different shapes, designs and colors in their Sheffield, England factory.

KEY PARTICIPANTS

Project Developer: [HopeStreet LLC](#), Jeffrey Gershon.

Client: [The Church of St. Luke and St. Matthew](#),
The Reverend Andrew Durbidge.

Architect: [Li/Saltzman Architects](#), Judith Saltzman, Principal;
Michael Middleton, Preservation Architect.

Structural Engineer: [Gilsanz Murray Steficek](#)

NYC Landmarks Commission: James Russiello, Caroline Kane Levy.

Contractor: [Skyline Restoration Inc.](#), Jasen Geraghty, Vice President;
Wilson Cajilima, Project Manager.

Vendors: [Spring Scaffolding](#) (Sidewalk Bridge & Pipe Frame Staging); [360 Engineering](#) (Stone Anchorage Design); [Adler Windows](#) (Selective Rectory Window Replacement); [Femenella & Associates, Inc.](#) (Stained Glass Window Restoration & Protective Glazing Installation); ESG Environmental (ACM Abatement); [Clark Engineering](#) (Stone Anchorage Testing); [Berkshire Dimensions](#) (Façade Laser Scanning and Stone Shop Drawings); [American Bluestone, LLC](#) (Bluestone Dutchman Stone Fabrication); [Petrillo Stone Corp.](#) (Brownstone, Bluestone and Granite Stone Dutchman and Unit Stone Replacements Fabrication); [Vestacast](#) (Cast Stone); [Tile Source](#) (Cloister Arcade Tile); [Trow & Holden Company](#) (Pneumatic Tools); [Chicago Metal Supply](#) (New Belfry Cross Fabrication).



Preparation for New Brownstone Units

As can be imagined, the replacement of 466 brownstone units was a large undertaking which required the measurement of each individual replacement unit, the creation of full-size templates, and the preparation of anchorage and shoring shop drawings. Shortly after Petrillo came onboard, they informed us that they recommended that all **dutchmen** have a minimum depth of 2-1/2 inches. That meant regardless of the initial depth of deteriorated stone removed, Skyline had to go back and remove additional brownstone, 1 to 1-1/2 inches in most cases, to meet the stone supplier's requirements. While the contractor was busy performing additional removals, Petrillo then came out to field measure all 466 **dutchman** locations in order to start their shop drawings. These were then sent to LSA for review and approval as well as to a third-party engineer to design the proposed anchorage system. Amazingly, in spite of the huge range of complexities in the profiles of the new stone units, a rather simple system of stainless steel pins and eyebolts set in epoxy was appropriate for all situations.

After the shop drawings were approved, we learned that Petrillo was a firm believer in "measure twice, cut once" as they sent a representative for a second round of site verification. This was done via the creation of full-size mylar templates for each **dutchman** location to ensure that the new cut stone profile was a perfect match. The 466 new brownstone **dutchmen** arrived in five shipments over a three-month period.

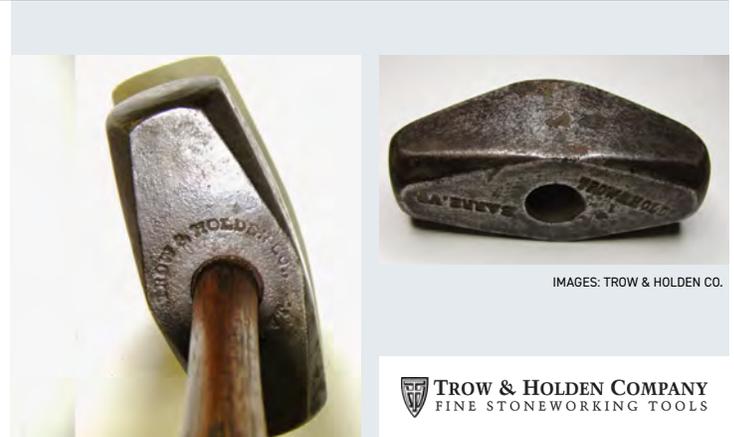
The Art of Retooling

In the end, the most unique aspect of the brownstone restoration at the Church of St.

Luke and St. Matthew was the process of retooling. The historic brownstone had distinctive character-defining tool marks which, in most units, consisted of a 1" combed margin with a bush hammered center. The scope of work called for both the recreation of historic tool marks on eroded in-situ brownstone as well as the replication of the historic tool markings on new brownstone units.

The project team had to work collaboratively to test several methods and tools before finding one technique, the use of a [Trow & Holden](#) pneumatic chiseler with changeable attachment heads, which was able to create an acceptable final aesthetic that could artfully blend both in-situ historic stone with replacement masonry. Once the right tools had been selected, Skyline assigned a dedicated crew to perform the in-situ retooling to ensure consistency in the quality and final product.

In situ retooling was done early during construction while Covid-19 delayed the arrival of replacement units. Petrillo was only responsible for the measurement, carving, and shipment of the replacement brownstone and did not tool the stone. This was no problem for Skyline's now experienced "retoolers" who set up a special shop in the cellar of the Church. One by one, all 466 new brownstone units were tooled by a two-man team (one to hold the stone and ruler firm and the other to work the pneumatic chiseler) as the final preparation before installation on the façade. Undoubtedly, it was the careful attention to detail in the retooling, along with so many other aspects of the restoration, that helped return this spectacular church to its former architectural glory. ■



IMAGES: TROW & HOLDEN CO.

TROW & HOLDEN COMPANY
FINE STONEMASONRY TOOLS

THE ART OF RETOOLING SINCE 1890

For the preservation of the historic Church of St. Luke and St. Matthew in Brooklyn, NY, Skyline Restoration used tools made by [Trow & Holden Co. \(THC\)](#) to perform the in-situ retooling of replacement brownstone units to ensure consistency and quality throughout the project.



THC is an ISO-certified American maker of quality tools for working stone, operating in Barre, Vermont, since 1890. Their tools were used to create the Lincoln Memorial, among many other notable monuments, sculptures, and buildings.

From forging and forming to heat treatment and finish grinding, all their tools are made on the same site in Barre, Vermont where they have been manufactured for more than 130 years. Their production employees complete a four-year apprenticeship in toolmaking — and as they like to say, their tools are "made by artisans for artisans."

They manufacture a broad range of carbide-tipped hand tools and hammers used by stonemasons throughout the world as well as a complete line of very precise pneumatic tools and chisels for stone carving. THC was among the very first to successfully use tungsten carbide tips on hand tool and hammer blades. Since then, they have continued to be at the forefront in carbide material development. All their hand tools, pneumatic tools and hammers are individually serial numbered allowing THC to record and keep track of the physical specifications, purchase information and performance of every tool they make. No. 1 still exists. It belongs to Barre sculptor Giuliano Cecchinelli.

Stone restoration jobs using THC's pneumatic tools include the Four Freedoms Monument on Roosevelt Island, NY; the Cathedral of St. John the Divine in Upper Manhattan; the National Cathedral in Washington, DC; the Sagrada Familia Basilica in Barcelona; Falling Water in Mill Run, PA, and many other important sites.

THC's tools are guaranteed against material and manufacturing defects and they are "Made to last since 1890 in Barre, Vermont, USA".



HAPPY, HEALTHY NEW YEAR TO ALL!

Spiro Markatos, president, Skyline Restoration, greets the guests during the company's holiday party, at the Hall des Lumières, on December 16.

IMAGE: ALI MARCONI



SUZANNE UNREIN UNDERTOW 2017-2023

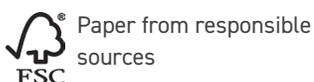
NOW SHOWING AT MOSAIC art space

Mosaic Art Space (MAS) is a multi-discipline art venue that aspires to showcase and promote various artistic endeavors with outreach to painters, sculptors, musicians, video, performance, installation artists. MAS seeks to create a dialogue with issues of contemporary art practices to encourage, support and expand creativity and self-expression. To create an environment in which the arts flourish and enrich the quality of life.

— www.mosaicartspace.com



MAS PHOTOS: COURTESY OF
SUZANNE UNREIN



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Comments/Subscriptions:
editor@skylinesnews.com



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49-28 31st Place LIC, NY 11101
SkylineRestoration.com