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BUILD NEW ENGLAND AWARDS!
BUILDING EXCELLENCE FOR THE INDUSTRY.
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The AGC Awards program was founded in 1981 and continues today to praise those teams of owners or developers, designers, contractors and subcontractors who exemplify best in class collaborative efforts toward the successful completion of the project. Build New England is just one of many programs that AGC MA has initiated to inspire improved communication and collaboration within the industry. We will continue to advance industry practices with all the individuals who participated in this event and with the many allied associations and professionals with whom we work.

Congratulations to all the entrants and the winners of this esteemed awards program!

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MEET THE AGC MA BUILD NEW ENGLAND AWARDS 2019 JURY

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Building Excellence is what AGC MA and our members signify. As the leading commercial construction association in the commonwealth, AGC MA provides member benefits and business resources for the state’s building industry.

The association offers valuable management education, exemplary safety training, and dedicated advocacy for our members and the industry at large, continually improving the quality, integrity and responsibilities to the general public and its surrounding communities.

AGC MA is guided by a board of directors who represents prestigious regional firms involved in the business of building innovative solutions to complex construction issues. The association’s full-time professional staff is available to assist member firms on varied industry matters.

Join AGC and become an integral voice in the policy decisions that formulate AGC’s agenda and shape the future of your industry.

Building Excellence for the Industry.
Building Excellence for Massachusetts.

For more information, contact Emily Sheedy, Director of Member Services and Industry Advancement, at sheedy@agcmass.org 781-235-2680 ext. 13

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TOP TEN REASONS TO JOIN:
• Proactive legislative and regulatory advocacy
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• Professional development seminars and workshops
• Safety training for you and your employees
• Timely industry news, both national and local
• Networking opportunities throughout the industry
• Access to key construction industry leaders
• Group interaction with owners and designers
• Up-to-date OSHA bulletins and local emphasis plans
• Access to AGC Professional Staff – a phone call away

Safety is everyone’s business! When an incident occurs on a construction site, it affects not only the individual and the family, but also every member of the building team – developer, building owner, designers, subcontractors and constructors. It also impacts the community in which the project dwells.

Creating a culture of safe work practices on the job site and throughout a company’s operation is an investment in the future of your firm and your employees. It can decrease the likelihood of OSHA fines and costly litigation, create healthier, more productive workers and cut down on time loss and employee absences.

AGC MA has an OSHA certified trainer and safety consultant on staff a phone call away to assist you with all your safety needs.
• On-site OSHA Training
• Third-party inspections
• Job site risk assessment
• Outsourced site safety
• Post-OSHA inspection representation
• Construction job safety analysis (JSA)
“The teamwork on this project was unprecedented. Together with a solid team of designers and engineers, Related Beal and Consigli managed this complex project with professionalism, integrity and total commitment. The team was able to overcome obstacles while managing the structural dismantling needed to prepare the building for the new vertical expansion in a historic building.”

Kimberly Sherman Stamler, President, Related Beal
Project: Congress Square
Owner: Related Beal
Designers: Arrowstreet
Contractor: Consigli Construction Co., Inc.

This seven-story vertical expansion atop three inter-connected existing 10-story historic buildings—all built prior to 1910—made for a difficult and challenging construction project.

Limited availability of information from drawings and past history required exploratory demolition in order to discover how the terracotta slab would be affected.

In order to support the vertical addition, a new concrete core was threaded through an existing light well that was formed at the center of the building as separate buildings were connected. This modern core was designed to consolidate the existing building’s scattered and numerous elevators, stairwells, restrooms and mechanical support spaces into a single, centralized footprint. With a modern office core in place, the existing building floors gained usable square feet as well as an open floor plan; necessary elements required to attract today’s modern tenants.

Because of the historic nature of the buildings, the design process required close coordination with the community, the Boston Planning & Development Agency, and Landmarks Commission to demonstrate the potential to preserve the best of the past while propelling the cityscape into the future.

Ultimately, this adaptive reuse transformed a class B office building into an amenity-laden, visually stunning focal point for downtown Boston. Merging dynamic architecture with high-quality, flexible interior spaces, Congress Square reinvented an obsolete building for how we work and live in cities today.
Faced with a growing student population and deteriorating conditions of the existing century-old building, the City of Chelsea decided to replace Clark Avenue Middle School with a new, 21st-century educational facility that could provide the most modern amenities for today’s teaching environment.

The five story, 115,200-square-foot middle school was a two-phase, $47 million project that took three years to complete. The particular features of the building included a cafeteria, a gymnasium, a music room, an art room, a media center, administrative office space, and a central staircase that has become the hallmark of the school. The construction had to be completed in two phases because the City was unable to provide an alternative space for the students and the school had to remain occupied throughout the project.

A phased project of this magnitude comes with the need to develop strong, site-specific, construction logistics and mitigation plan. W.T. Rich Company worked with the Clark Avenue Middle School officials, City of Chelsea, Chelsea Facilities Department, HMFH Architects, Pinck & Co., Inc. and other key stakeholders to validate and refine all of the project goals throughout every phase of the project.

The fact that the Clark School project was performed within an active, urban neighborhood was one of the most important factors for the effective planning and commencement of this project. W.T. Rich Company played an active role in communicating with neighboring residents and the surrounding community regarding the project’s plans and status.

It is fair to state that client satisfaction was at the forefront of all decisions and actions made by the project team. Despite the significant challenges associated with the size of the project site and the several obstacles encountered, the team remained strong and persisted in proactively mitigating any challenges they faced.
“The things you remember, and the things you get emotionally attached to, are rarely the buildings that behave the way they are supposed to. It’s when someone has done something that makes you think twice, that you really develop a connection.” - Bjarke Ingels
With the goal of understanding the University’s needs and vision, including a wide range of stakeholders, from administration, to facilities, faculty, students, and staff, the Isenberg project team was tasked with developing a project that would satisfy four goals:

- Consolidation of programs into 3 buildings with better access to teaching spaces
- Create an interior learning commons space, an atmosphere for student activity and alumni events
- Relocate and install underground utilities that will help the University provide best-in-class
- Build an iconic business school building within budget

The project presented several design related challenges that in effect created existential risks to the budget and schedule.

The largest design challenge was to change the skin from an anodized aluminum to copper and to change from a truss-like exterior wall unit to a column system that would be encased with the copper clad system.

The grand stairway was changed from terrazzo to precast concrete which presented with schedule delays and extensive coordination among the team.

The use of BIM modeling and laser scanning resulted in huge benefits relative to visual coordination and communications among the key team players. Use of overlay feature facilitated the field coordination process ensuring that façade, columns and stairs were fabricated and installed without interruption.

Despite the challenges inherent in such a project—site size, logistics, schedule coordination, workforce/staffing, etc., a concerted effort and commitment to shared goals resulted in a project that eliminated paper drawings and utilized a cloud-based documentation system. The team applied innovative LEAN strategies to approach schedule and sequence and concessions where necessary, focusing on the team’s success rather than any individual goal or priority.

The end result of these efforts is a new LEED Silver Business Innovation Hub that will accommodate faculty growth, careercenter recruiting, team-based learning and advising.
“This new academic building is a significant step forward into the future for Wentworth that will advance student learning opportunities and drive innovation... I congratulate Wentworth on this milestone that will showcase their status as a premier institution in the City of Boston, equipped with the 21st century tools and resources to teach and inspire students. Combined, the power of research and higher education will take our city to new heights, and I look forward to generations of new discoveries and new scientists emerging from its walls.”

Boston Mayor Marty Walsh
Project: WIT Center for Engineering, Innovation, and Sciences
Owner: Wentworth Institute of Technology
Architect: Leers Weinzapfel Associates
Contractor: Gilbane Building Company

The first new academic building to be built on the Wentworth Institute of Technology (WIT) campus in 45 years, the Center for Engineering, Innovation, and Sciences (CEIS) supports the school’s continued growth and fosters a collaborative approach to learning in a multi-disciplined environment. The 78,000 SF facility features four levels of academic space for physics, biomedical engineering, civil engineering, mechanical engineering, experiential learning programs, as well as the office of the provost.

The first floor was designed as a transparent showcase piece for the campus, featuring a multi-purpose lecture/gallery area, an additive manufacturing lab featuring the latest in 3D printing technology, and an ideation makerspace called Accelerate to support the experiential learning programs.

The program was ambitious for the allotted space and the time frame to deliver the project in 14 months was a challenge. The original design assumed that the building would be built on-grade without a basement. Ultimately, the design developed and evolved and a basement was added for MEP systems as a solution to avoid the expense of high-rise construction and a larger penthouse. While the below-grade structure added a complexity to the job and the potential to derail schedule, creative logistics and pull planning helped avoid impact.

From the very beginning of the project, Gilbane saw the construction of the CEIS building as an opportunity to collaborate with the school and trade partners to create a significant learning experience for WIT’s construction management students. Together, the CEIS team created a “living classroom” throughout preconstruction and construction, providing students with 22,300 co-op hours.
### 2019 MERIT AWARD

- **Project:** Boston Collegiate Charter School
- **Owner:** Boston Collegiate Charter School Foundation, Inc.
- **OPM:** Pinck & Co., Inc.
- **Designers:** Miller Dyer Spears, Inc.
- **Contractor:** W.T. Rich
- **Owners Rep.:** QPD
W.T. Rich was hired to manage the construction of two additions to the existing 1926 building; an 11,800 SF, three-story classroom addition over a renovated parking garage and a 3,100 SF, multipurpose assembly space between the existing 1926 high school and 1914 middle school. Additional scope of work included mechanical and architectural renovations to the existing building along with new windows and site improvements.

Tying the existing 1926 building into the new addition required precision, surveying, and meetings between W.T. Rich, the architect and the structural steel contractor in order to make sure all dimensions were accurate as they needed to maintain a three-inch gap between the two structures in order to allow for acceptable movement/expansion.

The Boston Collegiate Charter School project is located on a tight urban site within the middle of a residential neighborhood. The school remained fully occupied and operational throughout the project. W.T. Rich was in constant communication with the school to coordinate any loud or disruptive work around their testing schedules throughout the school year. Residents were updated on a weekly basis and notified 3-4 days prior to major deliveries or work that would shut-down or disrupt traffic flow on their street.

Structural steel installation of the multi-purpose assembly addition within the existing courtyard was a unique challenge due to limited site space. Structural steel was picked directly from the delivery truck, routed over the existing building and secured into place. This was coordinated and completed during school vacation, so that no students or staff members were in the building.

The project was executed with great sensitivity to the environment and the surrounding community.

“W.T. Rich’s responsiveness and attention to detail was unexpected and much appreciated. Communication with the team was efficient and the team was eager to work around our students’ needs. Our school community absolutely glows in our new addition.”

_Amanda Kay Loring, Director of Operations, Boston Collegiate Charter School_
This magnificent school - and the powerful educational work that will happen within it - truly demonstrates to our students that the Boston Public Schools cares about them, and that we believe they have what it takes to succeed in the innovation economy.

- BPS Interim Superintendent Laura Perille
As the first new Boston Public Schools project in 15 years, the 6-12 STEM Early College Academy promotes inquiry-based and interdisciplinary learning which features some flexible indoor and outdoor learning spaces, MakerSpace fabrication labs, and integrated modern technology. The facility is organized into three grade-level cohort communities (one per floor) and provides flexible classrooms, science exploratory spaces, and varied project based learning space including outdoor learning areas. The learning commons area offers interior glass walls and open floor plans to provide visual transparency. The building has an open atrium in its core with skylights to allow sunlight to flow throughout the school and the cohort communities on each of the three floors of suspended balconies, creating a wide-open space.

The remarkable design required higher quality control standard from Gilbane to mock up and assess many unique details, coordination early and often with the trades on production, fit, appearance, delivery and installation. The Gilbane/Daedalus/JLA team even traveled out of state multiple times to validate actual material output at the fabrication source to ensure design intent.

Understanding the building structure components, proper construction erection sequence, the structural elements’ reaction and relationship to finishes and systems was paramount on unique building designs. A successful outcome was achieved when Gilbane evaluated and determined the optimal sequence to efficiently assemble the building skeleton for current and future loads, while also providing safe erection equipment mobilization and demobilization.

The team created a building that is a learning tool with industry-leading blending of curvilinear features and layers of operating systems with visible aesthetic elements to make the typically unseen building systems, structure and components visible to inspire learning.
This project was constructed in the midst of the very busy Longwood Medical Area of Boston. The vertical expansion and renovation of the Newborn Intensive Care Unit of Brigham and Women’s Hospital consisted of a single-story vertical addition onto the side of the existing 6th floor façade of the Connors Center for Women’s Health Building, as well as a full renovation of the 6th floor of the existing health care facility. The expansion was above an occupied Labor, Delivery, and Recovery Unit on the 5th floor. The expansion more than doubled the footprint of the existing NICU and took place above the hospital’s smallest and most fragile patients.

Over 300 tons of steel had to be erected directly over the heads of patients, families, and staff in a fully functioning Labor, Delivery, and Recovery unit, and adjacent to an occupied and fully operational NICU including patient, procedure and operating rooms.

Walsh Brothers integrated a first of its kind crash-prevention system above the active fully functioning and operational floor.

The doctors, nurses and hospital staff within this critically important area were able to continue to provide their highest level of care uninterrupted by the on-going construction. Most importantly the most precious patients were shielded from noise, vibration, and dust through meticulous planning and execution of the project team.
MathWorks embarked on the creation of a new multi-building campus on its 31-acre site in Natick to support their growing employee population. The design of the new campus creates an environment that inspires the work process and builds organizational community through comfortably scaled workplace wings that are organized around a central communal hub and sky-lit spiral stair case.

Amenities include a 440-seat dining hall; an outdoor terrace; fitness center; and wellness and recreation space. Throughout the campus, spaces are designed to maximize natural light and views. Sustainable elements include a greywater harvesting system, a green roof and photovoltaic panels. Central to the company’s operations is the new 10,000 sq. ft. level-4 data center featuring 73 data racks cooled by Motivair chilled doors.

The project also consisted of extensive utility upgrades and demolition of two of the three existing buildings, while the MathWorks’ existing data center and employees occupied the remaining building—LS1. This building was renovated to meet temporary needs for the duration of the project and was demolished upon completion. This complex process required multiple phases and system shutdowns, all while MathWorks’ non-negotiable redundant power systems were preserved.

The finished building features 28 types of tile, 22 different ceiling types and five different species of wood resulting in a workplace that General Superintendent Steve O’Toole says, “is a true work of art.”

Project: The Mathworks, Inc. Lakeside Campus Master Plan
Owner: The Mathworks, Inc.
GC: Consigli Construction Co., Inc.
Designers: Gensler
Project: Bentley University Multipurpose Arena
Owner: Bentley University
Designer: ARC/Architectural Resources Cambridge, Inc.
Contractor: Suffolk Construction Company

The Bentley University Multipurpose Arena is a hockey rink, an event space, a place for active learning, a social hub, and a campus icon. The simple bold form, with its large sloping roof, is sited strategically at the nexus between upper and lower campus. It provides a modern face for this forward-looking business school. Inside, students play hockey while other students lead tours, study, and practice journalism in the specially designed broadcast studio. The roof features a large solar array, which provides over 40 percent of the building’s energy.

The pre-engineered building structure creates an open concourse with good sightlines from every seat. Precast concrete risers maximize the use of space below for lockers and support rooms. Stadium seats are a randomly assigned sampling of blue, black and gray, which creates a dynamic feeling whether the arena is empty or full. Supersized photos of people from Bentley adorn the rink’s north wall, adding to the sense of community and place.

The construction of the arena also encompassed the installation of such unique components as a state-of-the-art sound system, due to its dual role as a performance venue; a 504-kilowatt rooftop solar array made up of 1,400 panels; and a top-of-the-line, impact-absorbing dasher board system for the hockey rink.

The new arena is the first standalone ice arena in the country to achieve LEED Platinum certification from the USGBC.
The Historic Massachusetts State House, home to both the state legislature and the governor’s office, is one of Boston’s oldest and most iconic buildings. Considered a masterpiece of Federal architecture and among architect Charles Bulfinch’s finest works, it was built in 1798 and is designated a National Historic Landmark. It receives more than 90,000 visitors each year, including 30,000 schoolchildren, and public tours are given daily.

Large-scale infrastructure improvements were done with meticulous attention to detail, from weaving acoustic panels into patterns on the domed ceiling to matching the manufactured glass housing of the lighting fixtures to original designs. The team relied on the extraordinary craftsmanship and ingenuity of many experts to decide how the restoration work was to be done and to perform the work with precision and care, most often by hand. Additional improvements were designed with meticulous attention to detail such as acoustic panels that were seamlessly and discreetly woven into patterns of the domed ceiling; LED fixtures and lighting enhancements were maintained with a historic essence by matching newly manufactured glass housing to original designs; and a new HVAC system improved air flow and climate control through sustainable replicas of 19th-century snowflake-patterned grilles in the Chamber ceiling. Historical accuracy of all original designs were honored including careful disassembly and reassembly of the Chamber’s intricate chandelier. The project included the addition of several accessibility features – a chairlift to the rostrum, adjusted desk heights to accommodate handicapped seating, and various hearing and visibility aids – paired with improved technological infrastructure to transform the room into a functional, sustainable, and universal space.
In an effort to anchor Harvard’s Cambridge campus, President Drew Faust’s vision for common spaces and “One Harvard” called for the major renovation and restoration of the Smith Campus Center, located in the heart of Harvard Square. The structure, originally built in two phases between 1961 and 1966, is a ten-story, H-shaped concrete building with two stories of below-grade parking, retail and 18 different Harvard administrative offices. All building occupants remained in-place during invasive interior and exterior construction. The design solution reconfigures the first, second and tenth floors of the landmark building, with a series of additions to and removals from the existing structure, to create new internal and external spaces.

To minimize disruption and the impacts of construction, a series of graded tunnel entryways were devised for the 10,000+ visitors and occupants moving through and around the active project site and delivered over 1,100 detailed work plans to Harvard, so they could prepare occupants and the public for every construction activity. The construction team worked around Harvard’s requirement that noisy work be restricted to one hour a day and managed the repair and installation of over 650 window panels within the occupied building.

Interior updates include significant renovations, which offer diverse dining options and a variety of common spaces, gathering spaces and collaboration spaces, with integrated AV capabilities. The sustainable features include interior green wall landscaping and second floor roof gardens adjacent to Holyoke Street and Dunster Street. The 10th floor, which also underwent a complete renovation, houses a restaurant, additional common spaces and a conference suite.

The Smith Center now presents a new ‘front door’ for the University to provide welcome and a point of orientation for the wider community, acting as a central location for information and campus tours, and becoming a meeting point between ‘town and gown.’
Phillips Academy Andover is a co-educational university-preparatory school for boarding and day students in grades 9–12, along with a postgraduate year. Phillips Academy identified the need to revitalize its aging athletic facilities as part of their Campus Master Plan—developed to preserve the school’s history while planning for the future—and pursued building a space that would enhance their athletic program and align with their commitment to innovation and sustainability; reinforcing the school’s “Take Action” motto.

The 98,800sf, 2-story athletic facility houses a 200-meter track, 12 court squash center (capable of hosting US Squash tournament play), 4 multi-use tennis and basketball courts along with a range of spaces dedicated to athletic training, wellness and other fitness opportunities. The Snyder Center achieved LEED Platinum certification. Its key LEED features include 1,778 solar panels on the building’s roof, repurposed beech trees and waste heating system, and use of recycled content and regional materials. The Snyder Center was also designed and constructed to be a net zero energy building.

The courts were manufactured in Germany and delivered to the site directly from port in a single mobilization. All overhead scope in the squash center needed to be completed prior to delivery of the courts in June 2017. BIM coordination was vitally important—aggressively coordinating the space that included 60” ductwork installed 30 feet above finished floor. All of the underground services enter the building via the squash center so the majority of the mechanical scope was completed overhead prior to the commencement of squash court installation.

Upon completion, Phillips Academy remarked that "it was an outstanding project because of the entire team’s willingness to work together."
AGC MA Member Distinction Awards

2019 SUBCONTRACTOR OF THE YEAR AWARD

The Subcontractor of the Year Award recognizes AGC MA Member firms who promote the values and mission of AGC through their continued commitment in education, program attendance and sponsorship and committee participation.

Congratulations to all at T.G. Gallagher!

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