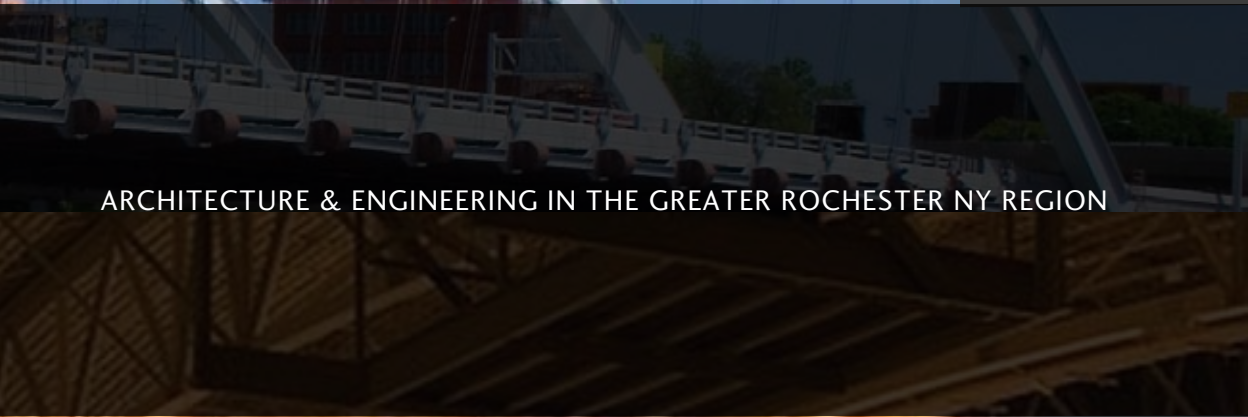




Leading



ARCHITECTURE & ENGINEERING IN THE GREATER ROCHESTER NY REGION



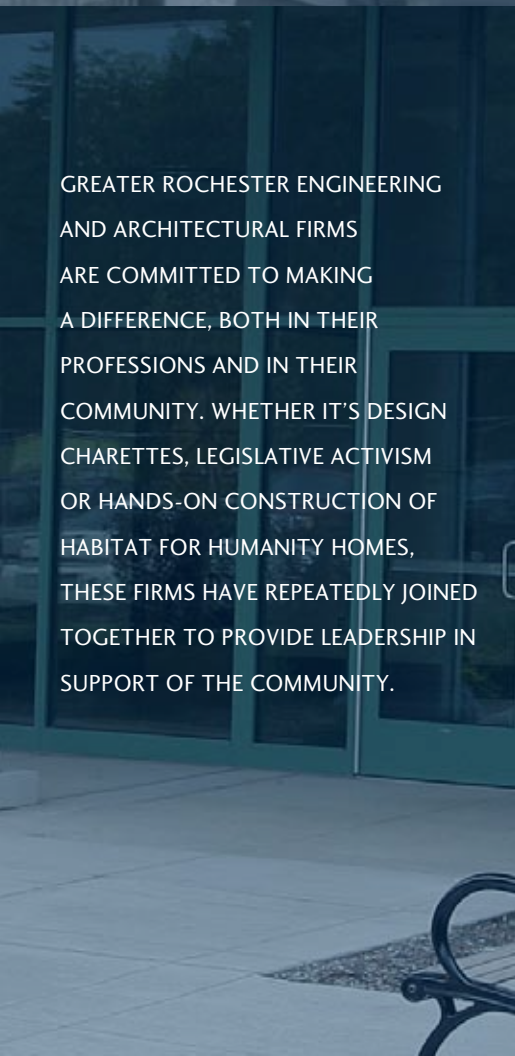
by example




# Innovative, collaborative solutions

TODAY'S COMPLEX ARCHITECTURAL AND ENGINEERING CHALLENGES REQUIRE A COMMITMENT TO INNOVATION AND COLLABORATION. IT'S A TEAM COMMITMENT THAT HAS ENABLED THE ARCHITECTURAL AND ENGINEERING FIRMS IN THE GREATER ROCHESTER AREA TO CONSISTENTLY PROVIDE THE BREAKTHROUGH SOLUTIONS THAT ARE REDEFINING THE FIELD.

AS A RESULT, THE REGION CONTINUES TO DRAW IN THE BEST AND BRIGHTEST — THE NEW THINKERS WHO ARE SHAPING THE FUTURE AND PUSHING AHEAD OF THE CURVE. IT'S A HIGHLY CONCENTRATED, UNIQUE AND CHARGED TALENT POOL THAT HAS CAPTURED THE IMAGINATION OF



GREATER ROCHESTER ENGINEERING AND ARCHITECTURAL FIRMS ARE COMMITTED TO MAKING A DIFFERENCE, BOTH IN THEIR PROFESSIONS AND IN THEIR COMMUNITY. WHETHER IT'S DESIGN CHARENTTES, LEGISLATIVE ACTIVISM OR HANDS-ON CONSTRUCTION OF HABITAT FOR HUMANITY HOMES, THESE FIRMS HAVE REPEATEDLY JOINED TOGETHER TO PROVIDE LEADERSHIP IN SUPPORT OF THE COMMUNITY.



CORPORATE AND CIVIC LEADERS AND IS ONE OF THE REASONS WHY SO MANY WORLD-RENOWNED AND INDUSTRY-LEADING CORPORATIONS ARE BASED IN THE GREATER ROCHESTER AREA.

THANKS TO THE NATIONALLY RECOGNIZED UNDERGRADUATE AND GRADUATE PROGRAMS IN ARCHITECTURE AND ENGINEERING OFFERED AT ROCHESTER INSTITUTE OF TECHNOLOGY AND THE UNIVERSITY OF ROCHESTER — AS WELL AS THE RIGOROUS PROGRAMS OFFERED AT EACH OF THE REGION'S 19 COLLEGES AND UNIVERSITIES — THE GREATER ROCHESTER AREA IS ABLE TO KEEP THAT TALENT BASE SOLID AND ENERGIZED.

**PROJECT:** Frederick Douglass – Susan B. Anthony Bridge

**CHALLENGE:** DESIGN THE SIGNATURE BRIDGE TO SYMBOLIZE THE CITY



**The Innovative, Collaborative Solution:**

A team of bridge and highway engineers from Erdman Anthony, along with infrastructure architects from H2L2, guided representatives from local city, county and state governments, as well as members of various arts, historical, landmark and visitors societies, as they collectively worked to create a new bridge in the heart of the city. The result is the award-winning, 433-foot Frederick Douglass – Susan B. Anthony Bridge, symbolizing Rochester’s role as the first “Gateway to the West”.

**PROJECT:** URMC Wilmot Cancer Center

**CHALLENGE:** CREATE A LEADING-EDGE TREATMENT AND RESEARCH FACILITY WITHOUT DISRUPTING ON-GOING PATIENT CARE



**The Innovative, Collaborative Solution:**

M/E Engineering, SWBR Architects and Donald Blair Architects collaborated on the development of the University of Rochester Medical Center’s Wilmot Cancer Center. The integration of research and patient care for this world-class comprehensive cancer center required intense preplanning to mitigate risks and to assure patient comfort.

**PROJECT:** ARTWalk

**CHALLENGE:** SPEARHEAD THE REVITALIZATION AND BRANDING OF AN URBAN NEIGHBORHOOD



**The Innovative, Collaborative Solution:**

Loosely bound by several significant cultural resources, the newly designated Neighborhood of the Arts was a multi-phase, highly visible revitalization project. Bergmann Associates’ Landscape Architects, Transportation Engineers and Construction Inspectors worked with city planners and officials, neighbors, local artists and local business to create this popular showcase destination.

**PROJECT:** Building 508

**CHALLENGE:** RENOVATE A VACANT INDUSTRIAL BUILDING INTO A MULTI-USE FACILITY



**The Innovative, Collaborative Solution:**

Working with an established warehousing company, Parrone Engineering provided construction management and helped facilitate numerous improvements, including new parking lots, a roadway system, storm water quality, ADA accessibility and a new water supply for domestic and fire protection.

**PROJECT:** Four Bay Sanitary Sewer Feasibility Study

**CHALLENGE:** WATER QUALITY WAS BEING COMPROMISED BY INADEQUATE SEPTIC SYSTEMS



**The Innovative, Collaborative Solution:** Working closely with governmental officials, representatives from local interest groups, and jurisdictional agencies, MRB Group prepared a master plan that outlined necessary improvements to provide sewage collection and treatment for the four affected Lake Ontario Bays in Wayne County.

**PROJECT:** Polisseni Pavilion at Rochester General Hospital

**CHALLENGE:** CREATE A NEW PATIENT ACCESS CENTER



**The Innovative, Collaborative Solution:** Clark Patterson Lee developed a facilities master plan to guide improvements and expansion that included a new main entrance, an expanded emergency department, renovated Cardio-Thoracic Intensive Care Unit, catheterization labs and patient access areas. Today the Polisseni Pavilion greets visitors to Rochester General with a warm and inviting atmosphere, while streamlining the flow of patients and visitors to the hospital.

**PROJECT:** Constellation Brands Marvin Sands Performing Arts Center

**CHALLENGE:** RENOVATE AND EXPAND AN EXISTING SUMMER VENUE



**The Innovative, Collaborative Solution:** LaBella Associates' design expanded the covered seating from 2,700 to 5,000 and added 50 VIP corporate boxes, turning CMAC into a state-of-the-art summer entertainment venue. Additional elements included new video and sound reinforcement systems and increasing the size and configuration of the stage.

**PROJECT:** Wayne County Industrial Sustainability Park

**CHALLENGE:** CREATE AN INTEGRATED, MULTI-INDUSTRY INDUSTRIAL SUSTAINABILITY PARK



**The Innovative, Collaborative Solution:** Designed and project-managed by FRA, a T.Y. Lin International Company, the Wayne County Industrial Sustainability Park will feature industries utilizing by-products of each other's production processes as energy or as energy-saving measures. The park includes a biodiesel production plant, a wind energy company and a biogas facility.

## GREEN BUILDING DESIGN PROJECTS

Architectural and engineering firms are incorporating green building technology into new construction throughout the Rochester Region. The following are a few examples of buildings that achieved LEED certification from the US Green Building Council.



**PROJECT:**

Frito-Lay Distribution Center

**CHALLENGE:** Create a fully-functional food distribution warehouse and office facility that was also environmentally responsible

**The Innovative, Collaborative Solution:** Stantec, an architecture, engineering, planning and environmental design firm, collaborated with Frito-Lay to create a building that includes added green space, solar power, porous pavements, recycled building materials, low-flow plumbing fixtures, water-efficient landscaping and other measures that reduce the facility's energy and water consumption. This building achieved a Gold level LEED rating, one of the highest energy efficient standards in the industry. This was the first building in the Rochester area to achieve a LEED Gold rating.



**PROJECT:**

City of Rochester Water Bureau Operations Center

**CHALLENGE:** Upgrade an existing structure to create a more efficient and enjoyable work environment

**The Innovative, Collaborative Solution:** A collaboration between LaBella Associates, P.C. and the City of Rochester, the project applied sustainable building principles in the areas of environmentally-sensitive construction and energy and water savings, while creatively reusing the old structures. This was the first Gold rated municipal building in New York State.



**PROJECT:**

Rochester Institute of Technology's CAST Building

**CHALLENGE:** Design an environmentally sustainable building that consists of lab and office spaces that can accommodate a dynamic range of programs

**The Innovative, Collaborative Solution:** A team of architects and engineers from SWBR Architects, KMW Architects, M/E Engineering and Parrone Engineering helped design the CAST Building, the "greenest" building at RIT. The improved systems provide approximately 21.4% savings in electrical energy and a reduction in its carbon footprint by 41%, and earned the building a Gold level LEED rating and was selected as one of the best Green Projects in the Northeast.



**PROJECT:**

HSBC Bank - Greece Branch

**CHALLENGE:** Integrating all the green technologies into the building

**The Innovative, Collaborative Solution:** HSBC requested Erdman Anthony to be the independent commissioning authority, a prerequisite for LEED certification, to support the design team lead by MRA Associates to ensure the highly integrated green systems were properly installed and operating at the end of construction. The commissioning services and the 10 energy and atmosphere credit points earned and documented by the energy modeling process provided by Erdman Anthony supported the project in achieving a Gold level LEED rating.

## Coalition of Engineering and Architectural firms members:

Bergmann Associates	<a href="http://www.bergmannpc.com">www.bergmannpc.com</a>
Clark Patterson Lee	<a href="http://www.clarkpatterson.com">www.clarkpatterson.com</a>
Clough Harbour	<a href="http://www.cha-llp.com">www.cha-llp.com</a>
Erdman Anthony	<a href="http://www.erdmananthony.com">www.erdmananthony.com</a>
Stephen R Ferranti	<a href="http://www.srfa.net">www.srfa.net</a>
FRA Engineering & Architecture	<a href="http://www.fraengineering.com">www.fraengineering.com</a>
IBC Engineering	<a href="http://www.IBCEngineering.com">www.IBCEngineering.com</a>
LaBella Associates	<a href="http://www.labellapc.com">www.labellapc.com</a>
M/E Engineering	<a href="http://www.meengineering.com">www.meengineering.com</a>
MRB Group	<a href="http://www.mrbgroup.com">www.mrbgroup.com</a>
Parrone Engineering	<a href="http://www.parroneeng.com">www.parroneeng.com</a>
Stantec	<a href="http://www.stantec.com">www.stantec.com</a>
SWBR Architects	<a href="http://www.swbr.com">www.swbr.com</a>



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