



TOWN OF LEDYARD

REQUEST FOR QUALIFICATIONS
& PROPOSALS FOR
ARCHITECTURAL SERVICES

**LEDYARD MIDDLE SCHOOL &
GALLUP HILL ELEMENTARY SCHOOL**
RENOVATE AS NEW
LEDYARD, CT

RFQ/P #2015-16

MAY 21, 2015



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May 20, 2015

Town of Ledyard - Office of the Mayor
c/o Steve Juskiewicz, Chairman - Permanent Municipal Building Committee (PMBC)
741 Colonel Ledyard Highway
Ledyard, CT 06339

Re: Request for Qualifications/Proposals – Architectural and Consultant
Design Team Services for the Ledyard School Improvement Projects

Dear Chairman Juskiewicz and the PMBC:

For almost 60 years, Antinozzi Associates has designed public school facilities throughout Connecticut. Each project presents unique goals and requirements and both the Ledyard Middle School and Gallup Hill Elementary School Projects will be no exception. Successfully transforming a 50-year old building into a state-of-the-art elementary or middle school facility will take the collaborative effort of a diverse team of designers, engineers, and technical consultants.

We bring six decades of expertise to these projects, and can provide creative solutions to address the latest technical challenges arising from school addition and renovations of this size – especially considering the phasing of project construction while occupied. With Antinozzi Associates' recent experience on numerous school projects reviewed by the State's Office of School Facilities, our team brings a level of understanding to the process unmatched by other teams.

We selected our consultant team based upon their knowledge of public school design and our successful experience working together with them on school projects across Connecticut. As the lead firm, Antinozzi Associates has a strong philosophy of 'collaboration' with our clients and consultants (see the beginning of Tab 6). We would also like to call attention to other key portions of our response regarding our capabilities (Tab 3), our utilization of Building Information Modeling (Tab 4), our past performance on school projects regarding schedule and budget (Tab 5), and our Phasing and High Performance Design expertise (Tab 6).

As indicated in your RFQ/P under Section IV - Evaluation Criteria, Antinozzi Associates is licensed to perform architectural services in Connecticut, and has designed several State-funded public school projects in Connecticut within the past 10 years which have received full or partial Certificates of Occupancy. These projects may be found under Tab 5.

The Antinozzi team's recent design experience throughout Connecticut will provide professional design services that will exceed your expectations. We hope to meet with the PMBC in June to discuss our qualifications, fees, and your goals in more detail for these projects. Please feel free to contact me with any questions. We look forward to hearing from you.

Sincerely,
ANTINOZZI ASSOCIATES, PC



F. Michael Ayles, AIA
Principal / Business Development
mayles@antinozzi.com



ANTINOZZI ASSOCIATES
ARCHITECTURE & INTERIORS

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EXECUTIVE SUMMARY

OUR FIRM

Founded in 1956, Antinozzi Associates is celebrating nearly six decades as an architectural firm, and two decades with a dedicated interior design department. We are a mid-sized (33 person) full-service architecture and interior design firm led by principals Paul Antinozzi, AIA (President), George Perham, AIA, IIDA (Vice President), Paul Lisi, AIA, BCEO (Studio Operations) and Michael Ayles, AIA (Business Development).

It is gratifying to think about the impact upon countless individuals who use our buildings every day. Our approach to fulfilling this responsibility is to listen closely to our clients, design beautifully functional spaces, and integrate sustainable design practices. Antinozzi Associates, comprised of architects, interior designers, graphic designers, and marketing/administrative staff, strives to maintain a positive, energetic and collaborative spirit with a talented and diverse group of professionals. It shows in the work we do and in the success we have had.

In 2007, Antinozzi Associates relocated to the Bijou Theater building in the heart of downtown Bridgeport. Antinozzi Associates extensively renovated and converted the building's former ballroom into an 11,000 SF, two-story open-air workplace with a balcony of architects and interior designers surrounding the main floor studio - once used as a ballroom. This office setting promotes staff collaboration and the exchange of ideas, further stimulating our creativity and innovation. Natural lighting, exposed mechanical systems, and open, collaborative conference areas are featured throughout the office.

In 2012, Antinozzi Associates opened a branch office in Norwalk, a step into the firm's expanding design services into lower Fairfield County. Located in the Merritt 7 Corporate Park (301), the firm has been retained to provide on-call tenant design services for the 1.5 million square foot office park.



EXECUTIVE SUMMARY

SERVICES

One of the wonderful aspects of providing design services is that we are always working with successful people - our clients. These clients are comprised of individuals and institutions on the rise and needing new and/or renovated corporate, institutional, commercial, financial, multi-unit residential and religious spaces. What could be better than being a team member with other individuals and organizations enthusiastic and passionate about making a vision into built form and space?

With principal design involvement (Paul Antinozzi) on all of our projects, Antinozzi Associates has been a leader in architectural and interior design of the corporate, commercial, institutional, multi-unit residential, financial and religious projects.

However, since its inception, the firm has focused on K-12 School Facilities.

Our level of expertise and capability is evident in the nearly 250 school projects we have designed and/or constructed in the State of Connecticut.

ADDITIONAL SERVICES

In addition to architectural and interior design services that includes sustainable design, we provide Pre-Referendum Services, Feasibility Studies, Master Planning, Programming, Project Management, Site Analysis, Scheduling, Space Planning, Consultant Coordination, LEED in Certification, Commissioning and Consulting. By providing these expanded services, we have become experts in designing facilities that combine the practical and aesthetic design components, resulting in well-crafted buildings.

TEAM APPROACH

As architects, we recognize that one of our most significant roles is to manage a process that may take years to complete and includes hundreds of individuals. We are Team Leaders with the responsibility of



EXECUTIVE SUMMARY

ensuring efficient utilization of all resources. Proper selection and management of engineers, construction managers, and consultants of all types are a key factor to the success of any project. We are experts in establishing and maintaining strong oversight and management of this process.

Our teaming approach and access to a wide range of consultants capture the best available expertise. We also work side-by-side with consultants selected by our clients, maintaining previously established strong relationships. Regardless, our knowledge and experience enable us to coordinate all disciplines involved with your project.

MANAGEMENT PROCESSES / STAFFING

Our style of project management is not only to work with, and coordinate, all of the various disciplines involved - but to foster real collaboration. At the onset of each school project, Principal Paul Antinozzi will set the project's direction, identify critical issues and concerns, and define the processes for the entire in-house team. His involvement is maintained throughout the entire project to ensure that this mandate is carried out by the project team. This team of Antinozzi Associates staff has been identified in more detail under Tab 4, along with our capability to execute the project schedules.

MEETING SCHEDULES

Based on the Avraham Goldratt Institute (AGI) Theory of Constraints (TOC), we understand that the most common constraint of nearly any project is that it is structured, measured and managed in many parts, rather than as a whole. The project can be "so consumed by the pressure to achieve short-term performance targets, that taking the time to plan for the future is a luxury." With the extensive amount of on-call client work in our office over past years, we believe that any milestone can be met by "backing out" from the deadline and determining where the weakest links are (i.e. lead times, review/approval periods, foreseeing 'unforeseen' conditions').



PHILOSOPHY

Our overriding philosophy as a firm is not just to be architects or interior designers, but to provide clients with 'Design Leadership'. In every client we take on, in every project we are involved with, in every community effort we contribute to, we ask ourselves, "how are we providing Design Leadership for our clients, consultants or community?" At Antinozzi Associates, we believe that we must focus our design leadership on four areas of expertise - **Knowledge, Collaboration, Sustainability** and **Vision**. Excelling in these areas is what sets us apart.

THE ANTINOZZI ASSOCIATES DESIGN TEAM

At Antinozzi Associates, we differentiate ourselves from most larger architectural firms by possessing the ability and dedication to maintain Principal involvement throughout every phase of a school project.

Led by firm design Principal and President Paul Antinozzi, AIA, we employ a staff large enough to do a superior job, yet take on a limited amount of projects to ensure our focus stays specifically on our client's goals.

Antinozzi Associates understands the commitment the Town of Ledyard has made to these two school renovation projects and we know how to meet all of the project design milestones required to begin construction of the schools. If both projects were awarded to Antinozzi Associates, our intent is to assign one project manager to both schools acting as an "Executive Project Manager" (Bill Mead), with two project architects performing the role of Project Manager in each of the two schools. This will allow the school designs to be treated individually, yet coherently and collaboratively. We plan on developing and communicating the school design, scope and budget through processes that we address throughout this response and, especially, in the items below pertaining to Quality Control, Project Management, and Stakeholder Involvement (see Tab 3 & 6).

To continually address project workload, weekly staffing meetings are conducted with the firm Principals and Associates. Since all are responsible for collaborating on project staffing and scheduling, we can ensure that the right number and caliber of our 30+ staff is always placed on a project to meet the design and technical requirements, project budget, and project schedule.

Upon selection, our design team will meet immediately with the Permanent Municipal Building Committee (PMBC), Town of Ledyard representatives (as required), the BOE, and key school administrators to discuss and review the current ED049 information for the school addition and renovations, the educational specifications, future design and sustainability goals, project schedule, project budget, and the design and construction logistics required to complete the project(s). Working together in the early design phases is what we pride ourselves on - and will strictly enforce.

The key in-house Antinozzi Associates design staff assigned to these school projects have extensive experience in institutional design and will include the following:

Paul Antinozzi, AIA
Principal-in-Charge, President

William Mead, AIA
Senior Project Manager

Lisa Yates, AIA, LEED|AP
Senior Project Architect

David Stone, AIA, LEED|AP BD+C
Project Architect

Kevin Matis, LEED|AP
Associate, BIM Manager

Patti McKeon, NCIDQ
Senior Associate, Reg. Interior Designer

Resumes for these key professionals are in the pages that follow.



PAUL ANTINOZZI, AIA

PRINCIPAL-IN-CHARGE, PRESIDENT

EDUCATION

- Bachelor of Science in Architecture,
University of Notre Dame

REGISTRATION

- Licensed Architect - Connecticut, New York, New Jersey,
Rhode Island, and Commonwealth of Massachusetts
- Registered Interior Designer - Connecticut

REPRESENTATIVE EXPERIENCE

- University of Bridgeport, On-Call Architectural Services
- CREC Medical Profession and Teachers Preparation Academy, New Britain
- Orville H. Platt High School, Meriden
- Jewish Theological Seminary Library, New York
- Roosevelt Elementary School, Bridgeport
- Harding High School, Bridgeport
- Johnson House / Stratford Academy (Feasibility Study)
- West Haven High School, West Haven
- Chatfield-Lopresti Elementary School, Seymour (Feasibility Study)
- Regional School District #14, Bethlehem/Woodbury (Feasibility Study for three schools)
- Oxford High School, Oxford
- Howell Cheney Technical High School, Manchester
- Eli Whitney Technical High School, Hamden
- Connecticut AeroTech School at Brainard Airport, Hartford
- Geraldine Johnson Elementary School, Bridgeport
- Saugatuck Elementary School, Westport
- Thomas Edison Magnet Middle School, Meriden
- Scotts Ridge Middle School, Ridgefield
- Spring Glen Elementary School, Hamden
- Jockey Hollow Middle School, Monroe
- Roger Ludlowe Educational Complex, Fairfield
- Greenwich High School, Greenwich

PROFESSIONAL/COMMUNITY AFFILIATIONS

- University of Bridgeport - Board of Trustees
- Downtown Special Services District,
Chairman: Urban Planning Initiatives Sub-Committee
- Bridgeport Regional Business Council,
Co-Chair: Economic Development Sub-Committee
- Housatonic Community College Foundation

Paul Antinozzi has been a practicing architect for over 40 years. His enthusiasm, sincerity, and unfettered creativity enhance the atmosphere and personality of the firm. Over the years, Paul has established a collaborative culture within the firm, believing that a fluid mix of teamwork and individual talent produces the quality results the firm is known for. This successful concept has kept a long list of repeat clients coming back for design services over the past 40 years.

Paul Antinozzi guides the project direction, monitors critical issues and concerns, and defines these issues for the entire in-house team. It is well-known by clients of the firm that his involvement is maintained throughout the entire project to ensure that this mandate is carried out by the project team.

Besides his leadership of Antinozzi Associates, Paul is a very active member of the community. From serving on his town's building committee for a new fire station, to being President of a local community college foundation, his passion and love for the profession extends well beyond the office.



WILLIAM C. MEAD, AIA

SENIOR PROJECT MANAGER

EDUCATION

- Bachelor of Science, Civil/Structural Engineering, Brown University
- Master of Architecture, Washington University

REGISTRATION

- Licensed Architect - Connecticut

REPRESENTATIVE EXPERIENCE

- Orville H. Platt High School, Meriden
- Stratford High School, Stratford
- University of Bridgeport, On-Call Architectural Services
- Greenwich Public Safety Complex: New Construction Greenwich
- Bridgeport Superior Court and Juvenile Center, Bridgeport
- Westerly Police Headquarters, Westerly, RI
- Linden Street Elementary School, Plainville
- Suffield High School, Suffield
- Clinton Police Headquarters, Clinton
- Middletown Police Headquarters, Middletown
- Newtown Intermediate School, Newtown
- Middlesex Middle School, Darien
- Plainville Middle School, Plainville
- East Haddam High School, East Haddam
- Hartford Juvenile Detention Center, Hartford
- Torrington High School, Torrington

William Mead joined Antinozzi Associates, with over thirty years of experience working in Connecticut as a project manager on educational and criminal justice projects.

Having degrees in both architectural and civil/structural engineering, William has a unique understanding of the coordination that is required to design and build complex educational projects. His extensive background allowed him to be the lead Project Manager of one of our major school projects, Platt High School.

As Project Manager, William is responsible for maintaining strong communication between his team and the client. He also directs the design and documentation efforts of his team and engineering consultants. This involvement ensures the project runs smoothly and accurately for those involved.

Additionally, William maintains an excellent relationship with the Office of School Facilities and is familiar with the application, funding, and review process necessary for school projects in Connecticut.



LISA M. YATES, AIA, LEED-AP

SENIOR PROJECT ARCHITECT

EDUCATION

- Masters of Architecture, Yale University School of Architecture
- Bachelors of Arts - Architecture Concentration, Wesleyan University
- Columbia University School of Architecture, NY & France

REGISTRATION

- Licensed Architect - Connecticut
- Registered Interior Designer - Connecticut
- U.S. Green Building Council - LEED Accreditation
- NCARB Certification
- Certified Historical Architect - Connecticut

REPRESENTATIVE EXPERIENCE

- Harding High School, Bridgeport
- Sterling House Community Center, Stratford
- University of Connecticut Floriculture Building, Storrs
- University of Connecticut Lakeside Communications Dept.
- Yale University Native American Cultural Center, New Haven
- Yale University Becton Center Engineering & Design
- Yale University Stoeckel Hall
- Yale University Central Power Plant Expansion
- Yale Medical School Sterling Power Plant, New Haven
- Yale University - Various Addition, Renov'n/Adaptive Reuse
- Middlesex Hospital Hall Connector, Middletown
- East Rock Park Pardee Greenhouse Sound School, Hamden
- Bartlett Arboretum New Horticultural Complex, Stamford
- First Church of Christ Congregational, Redding
- United Church on the Green, New Haven
- Canaan/Falls Village Town Hall Senior Center, Falls Village
- Vernon Town Hall Renovation, Vernon
- University of New Haven Master Plan, New Haven
- Gateway Community College Master Plan, New Haven
- River Street Area Master Plan & Assessment, New Haven
- State Historic Museums Master Plan & Assessment, CT
- Sojourner's Place Transitional Housing, New Haven
- Carter Court, Glastonbury
- B'nai Brith Elderly Housing, New Haven
- *previous experience*

Lisa Yates has been a practicing architect for nearly 20 years. Her professional experience spans a diverse spectrum of project types including adaptive re-use and historic renovation, education, projects for colleges and universities, multi-family housing, as well as civic and municipal buildings. She also brings extensive project management experience, from initial planning, zoning and code review through procurement and construction. In all aspects of project delivery, she efficiently leads the design consultant team and coordinates key issues with the design staff and construction manager.

Lisa's organizational and technical expertise keep projects running smoothly. She develops practical solutions for a wide variety of critical issues and concerns. Whether it is producing Contract Documents or coordinating systems, Lisa communicates seamlessly with the entire project team to obtain the best viable solution.

Her involvement and passion for architecture is maintained throughout the entire project and also extends beyond the office. She previously served as a mentor and team leader for the ACE Mentor Program's New Haven Chapter.



DAVID R. STONE, AIA, NCARB, LEED-AP BD+C

PROJECT ARCHITECT

EDUCATION

- Bachelor of Architecture (Honors),
B.S. Technical Communications,
A.S. Architectural Engineering,
Wentworth Institute of Technology

REGISTRATION

- Registered Architect - Connecticut, Massachusetts
- U.S. Green Building Council - LEED Accreditation
- NCARB Certification

REPRESENTATIVE EXPERIENCE

- West Haven High School, West Haven
- Harding High School, Bridgeport
- CREC Medical Profession and Teachers Preparation Academy, New Britain
- Orville H. Platt High School, Meriden
- Roosevelt Elementary School, Bridgeport
- Quinipiac Bank & Trust, Hamden
- St. Vincent's College - School of Nursing, Bridgeport
- St. Vincent's Hospital - Medical Office Building, Fairfield
- Bloom Shellfish
- GE Credit Union
- Savings Bank of Danbury
- Bridges: A Community Support System, Milford
- New Alliance Bank / First Niagara Bank, Stamford
- Hawley Medical Office Building, Stratford
- University of Bridgeport Campus Projects, Bridgeport
- U.S. Department of Energy (DOE) Research Projects, U.S.
- National Renewable Energy Laboratory, Nationwide
- West Hartford Police Department, West Hartford
- New Britain H.S. Alternative Behavior Center, New Britain
- U.S. Coast Guard Academy - Dimick Hall, New London
- Silver Lake Habitat for Humanity Homes, Silver Lake, CO
- *previous experience*

PROFESSIONAL/COMMUNITY AFFILIATIONS

- American Institute of Architects (AIA)
- CT Army National Guard A CO 102
Infantry Battalion
- U.S. Army Veteran, Kuwait, Iraq
2008 Non-Commissioned Officer of the Year

As a Project Architect with over 10 years of sustainable design research and implementation experience, David Stone brings to the firm not only many years of practice in architectural design, but the concept of the Integrative Design Process (IDP) and appreciation of the two.

David's experience with a leading national consultant firm for sustainable design afforded him a collaborative learning opportunity that has now added to the philosophy and practices of Antinozzi Associates. In addition, David has been a guest lecturer on sustainable design at several higher educational institutions in New England.

David's role not only includes project managing on individual projects, but bringing sustainability to every project in the office. His role is to ensure all projects requiring LEED certification comply with USGBC standards. David is also responsible for projects not going through the certification process to maximize all green design possibilities to fit the project's intended budget.



KEVIN J. MATIS, LEED-AP

ASSOCIATE, BIM MANAGER

EDUCATION

- Bachelor of Architecture, Roger Williams University
- Associates in Architecture Technology, Norwalk Community Technical College

REGISTRATION

- U.S. Green Building Council - LEED Accreditation

REPRESENTATIVE EXPERIENCE

- West Haven High School, West Haven
- Harding High School, Bridgeport
- Orville H. Platt High School, Meriden
- Roosevelt Elementary School, Bridgeport
- South End Elementary School, Bridgeport
- Howell Cheney Technical High School, Manchester
- Thomas Edison Magnet Middle School, Meriden
- Scotts Ridge Middle School, Ridgefield
- Christ & Holy Trinity Parish Hall Addition
- Royal Bank of Scotland, Stamford
- Webster Bank, Various Locations in CT, NY, RI, MA
- People's United Bank, Various Locations in CT
- Cooper Surgical, Trumbull
- Davis Marcus Partners, Wilton
- Ryan Partnership, Wilton
- IBM, Various Locations in CT
- Unilever, Trumbull
- Citizens Bank, East Hampton

Kevin Matis has been with Antinozzi Associates since his graduation from architectural school in 1998. Kevin has proven himself to be a great asset to the firm with his diverse talents ranging from project management, to the Building Information Modeling (BIM) process. Kevin is instrumental in developing a wide variety of projects, both technically and logistically, from the early stages of design through construction administration. His efficient management skills, ability to coordinate various aspects of a project, and calm demeanor is truly appreciated by our clients.

As IT Manager of the firm, Kevin's vast knowledge keeps the staff up to date with the latest hardware, software and networking technology. He also provides CAD/Revit training.

Kevin's commitment and passion to the design industry was further proven in early 2009 when he passed the U.S. Green Building Council's LEED Accreditation Exam. Kevin was instrumental in leading our Wilton Corporate Park office campus projects, totaling 325,000 SF, to LEED Gold Certification.

In addition to all his achievements, Kevin earned the title of Associate in 2012.



PATTI MCKEON, NCIDQ

SENIOR ASSOCIATE, REGISTERED INTERIOR DESIGNER

EDUCATION

- Interior Design Certificate Program,
Paier College of Art
- Bachelor of Science, Business Management,
Providence College

REGISTRATION

- NCIDQ Certification # 11749
- Registered Interior Designer - Connecticut

REPRESENTATIVE EXPERIENCE

- CREC Medical Profession and Teachers Preparation
Academy, New Britain
- University of Bridgeport, On-Call Architectural Services
- Jewish Theological Seminary Library, New York
- Eli Whitney Technical High School, Hamden
- Geraldine Johnson Elementary School, Bridgeport
- South End Elementary School, Bridgeport
- Roosevelt Elementary School, Bridgeport
- Oxford High School, Oxford
- Saugatuck Elementary School, Westport
- Spring Glen Elementary School, Hamden
- Winstanley Enterprises, Various Locations in CT
- Newtown Savings Bank, Various Locations in CT
- Bridges: A Community Support System, Inc., Milford
- Connecticut Distributors, Stratford
- Stratford Fire Headquarters (FF&E), Stratford
- Savings Bank of Danbury, Danbury
- Citizens Bank, East Hampton, CT
- Royal Bank of Scotland, Bridgeport
- Forstone Capital, Bridgeport
- Naugatuck Valley Savings Bank, Hamden

PROFESSIONAL/COMMUNITY AFFILIATIONS

- Connecticut Coalition of Interior Designers (CCID),
VP of Programming; Board Member
- Amity Middle School - Bethany, Campus,
Tools for Schools Committee Member

Patti McKeon has been the firm's primary institutional facility Interior Designer since joining Antinozzi Associates in 1998.

Patti's educational background and extensive interior design experience enables her to excel in translating each client's requirements into innovative plans using functionality and aesthetic knowledge within the established program. Patti is also Revit-proficient and has extensive experience in construction documents and detailing.

Patti's leadership ability, knowledge, and design proficiency makes her a key asset in successfully executing interior spaces. These qualities made it an easy decision to assign Patti the title of Senior Associate in 2012.

Patti's skills and knowledge extend beyond the workplace. She is VP of Programming for the Connecticut Coalition of Interior Designers (CCID) and was responsible for initiating the need for Revit training courses to interior designers in Connecticut. She is also a member of the Tools for Schools Committee at Amity Middle School in Bethany, and a mentor with the Connecticut Chapter of the American Society of Interior Designers (ASID) for their career nights. In addition, she lends her time to local universities and colleges by mentoring student interns.



STATE OF CONNECTICUT ♦ DEPARTMENT OF CONSUMER PROTECTION

Be it known that

ANTINOZZI ASSOCIATES PC

271 FAIRFIELD AVENUE

BRIDGEPORT, CT 06604

has been certified by the Department of Consumer Protection as a licensed

ARCHITECTURE CORPORATION

License # ARC.0000036

Effective: 08/01/2014

Expiration: 07/31/2015



William M. Rubenstein, Commissioner

THE CONSULTANT TEAM

In addition to the Antinozzi design staff assigned to one or both of the Ledyard School Renovation Projects, we have selected a team of consultants who have the capacity and expertise required for the scope of this project.

Antinozzi Associates is known for teaming with outside engineers and design consultants who have specific experience for the project at hand. As the prime consultant for this project, we will lead this selective team of professionals to meet the established design goals, budget, and schedule of the project.

We have worked (or are working) with these consultants on other institutional projects - including public school projects - and they all have a solid understanding of the scope of services relevant to this school.

At Antinozzi Associates, we know that the best way to provide a successful project from the programming phases through project close-out is through collaboration. It is essential to our overall project approach that we integrate a strong communication stream with our engineers and consultants throughout the programming phase, design, and construction administration process (see Tab 6).

The development of a school design (or any other design, for that matter) does not just come from the architect. We must ensure that the design we bring forward to you makes sense on all levels, whether related to the site, structural systems, M/E/P/FP systems, acoustic, technology, or geotechnical concerns.



All Architectural Design, Interior Design, and FF&E Design services will be provided in-house by Antinozzi Associates. The major engineering and design consultant team we propose to work with include the following firms:

Altieri Sebor Wieber

Mechanical / Electrical / Plumbing / Fire Protection

Jaffe Holden

Acoustical, I.T. / Telecommunications, Security

Langan CT

Geotechnical, Survey, Traffic

Raymond/Raymond Associates

Food Service Design

Stantec

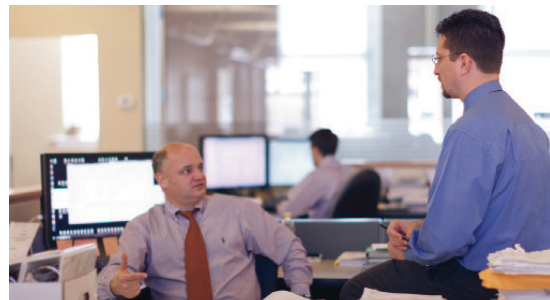
Site/Civil, Landscape Design

The DiSalvo Engineering Group

Structural Design

Brief summaries about each of these consultants are in the pages that follow in this section.

Our last page under this Tab discusses the technology we have used over the past five years to enhance our design services for nearly all of our public school projects.



The firm of **AltieriSeborWieber** Consulting Engineers has provided engineering services to major clients on demanding projects throughout the country and abroad since July 1, 1959.

We have engineered systems for special buildings including educational institutions, art museums, libraries, theaters, aquariums, research laboratories and manufacturing plants. We have also provided services for office buildings, luxury residences, and many landmark buildings. Sensitivity to client requirements and our ability to conceive creative solutions has resulted in the firm being retained by many internationally recognized architects, including nine recipients of the Pritzker Prize.

We continue the policy of our founder, John L. Altieri, P.E., that a principal of the firm is involved in all of the major design decisions on the project and is the primary client contact. We conduct in-house programs of design and constructability reviews to foster coordinated production of drawings and specifications. We continue to strive to develop design concepts that provide first cost economy, consider energy costs, and are sensitive to maintenance and life cycle cost. "Green Design" is a consistent standard of our firm, and ASW is proud to be a member of the U.S. Green Building Council (USGBC).

The Firm has an excellent collective experience in **educational facilities** design. During the period of 1980 to 1990, when classroom space was in abundance, **AltieriSeborWieber** designed many projects that improved institutional quality of life. Building types included gymnasiums, indoor swimming pools, special function classrooms and laboratories, art centers, libraries, auditoriums, and other similar facilities to improve the diversity and quality of student life. Beginning in 1990, coincidental with the general growth in student populations, we began to design traditional school buildings in both the public and private sector. These latter day schools are quite different from those designed in the 1950's - 1970's, with their inclusion of air conditioning, information technology systems, security and life safety systems, and the emerging importance of indoor air quality, acoustics and energy efficiency.

Philip C. Steiner joined the firm in 1989, becoming a principal at the beginning of 1999. Mr. Steiner recently directed the completion of documents for new magnet high schools in Stamford, CT (AITE) and New Haven (Coop). In addition, Mr. Steiner is responsible for the firm's public school work in Connecticut, producing designs that meet the budget and program requirements.

Mr. Steiner lectures in Systems Integration at the Yale University Graduate School of Architecture, and has acted as a mentor for high school students in the Stamford, CT ACE (Architect, Contractor, Engineer) program, a program designed to introduce high school students to the architectural and engineering fields. He is a past Director and Building Committee Member at the Neighborhood Music School in New Haven, CT, a vibrant music school in an urban setting. Mr. Steiner currently lectures on building systems as part of the AIA Connecticut ARE (Architect Registration Examination) review.

Over the last ten years, he has directed the firm's large number of school renovation and new construction projects including the follows:

Academy of Information Technology and Engineering
Magnet High School at Rippowam School, Stamford, CT
Black Rock Elementary School, Bridgeport, CT
Burr Street Elementary School, Fairfield, CT
Common Ground School, New Haven, CT
Coop Magnet High School for Arts and
Humanities, New Haven, CT
CREC Medical Professions & Teacher Preparation Magnet
School, New Britain, CT
Darien Public Schools, Darien, CT (Renovation of five schools)
East Rock School, New Haven, CT
Ethical Culture Fieldston School Greenhouse, New York, NY
Grace Church High School, New York, NY

The Abraham Joshua Heschel School, New York, NY
New Fairfield Combined School, New Fairfield, CT
Oxford High School, Oxford, CT
Orville H. Platt High School, Meriden, CT
Rippowam Middle School, Stamford, CT
Rippowam Modular Classrooms, Stamford, CT
Roosevelt Elementary School, Bridgeport, CT
Saugatuck Elementary School, Westport, CT
Scofieldtown School, Stamford, CT
Scotts Ridge Middle School, Ridgefield, CT
Staples High School, Westport, CT
Julia A. Stark Elementary School, Stamford, CT
Eli Whitney Regional Vocational Technical School,
New Haven, CT

Jaffe Holden is a full service acoustic, audio/video, and IT infrastructure consulting firm with a passion for exceeding client and audience expectations. The firm provides consulting services for facilities of all types but specializes in academic learning environments, houses of worship, museums, performing arts centers, auditoriums, and convention centers. Since 1968, we have provided clients with the technical services and project management expertise that is essential to the successful completion of world-class projects.

The intersection of education and emerging technology inspires our staff. We have developed working relationships with business schools, laboratories, student centers, libraries and performing arts schools around the country. Our staff helps guide educational facilities into the 21st century by designing flexible, collaborative learning spaces that feature leading-edge technology and full integration with university systems. Technology evolves every day and our staff thrives on developing new systems to embrace the forward movement eagerly sought by modern universities and students.

Clients in the education sector count on Jaffe Holden for a broad range of services that includes design for architectural acoustics, sound isolation, mechanical system noise control, audio/video systems and IT infrastructure. Pre-design services are offered to help clients identify what to build and construction administration services are offered to ensure that the acoustic aspects of the design are correctly implemented. The firm also offers commissioning services that have proved invaluable to clients during the critical period surrounding the opening of a facility.

Jaffe Holden has offices in Norwalk, Connecticut, Santa Monica, California and Princeton, New Jersey. We have state-of-the-art acoustical measurement equipment that allows us to perform acoustic surveys and analysis for all projects. Our acoustic laboratory has a sound isolated semi-anechoic room in which we can test acoustical devices, experiment with the latest acoustical materials and create acoustical simulations and demonstrations for our clients. All of our design philosophies, approaches and quality standards are consistently applied across all projects by all of our consultants.

Experience with Antinozzi Associates

Harding High School, Bridgeport, CT
Orville H. Platt High School, Meriden, CT
Eli Whitney Technical High School, Hamden, CT
Oxford High School, Oxford, CT
Spring Glen Elementary School, Hamden, CT

Corporate Summary

Integrated Solutions. Measurable Value.

Langan provides site development engineering and environmental consulting for private developers, public agencies, property owners, and institutional clients around the world.

Founded in 1970, Langan employs nearly 700 professionals in its Elmwood Park, NJ headquarters and among regional offices in:

- New York City, NY
- White Plains, NY
- Trenton, NJ
- Philadelphia, PA
- Bethlehem, PA
- Doylestown, PA
- Pittsburgh, PA
- New Haven, CT
- Arlington, VA
- Oakland, CA
- San Francisco, CA
- Sacramento, CA
- San Jose, CA
- Irvine, CA
- Bismarck, ND
- Miami, FL
- Fort Lauderdale, FL

Langan is listed among the Top Design Firms and Top Green Design Firms in *Engineering News Record (ENR)*.

Langan International, the firm's wholly owned subsidiary headquartered in New York City, provides all firm services for projects in the Middle East, Eastern Europe, Latin America, and the Caribbean. Langan International regional locations are in:

- Abu Dhabi
- Athens
- Doha
- Dubai
- Istanbul

Langan's broad range of services includes the following:

- Geotechnical Engineering
- Foundation Design
- Site/Civil Engineering
- Environmental Engineering
- Earthquake/Seismic
- Surveying
- 3D Laser Scanning
- Building Information Modeling (BIM)
- Natural Resources Assessments & Permitting
- Landscape Architecture Planning
- Transportation/Traffic Engineering
- GIS/Data Management Services
- Asbestos, LBP, Indoor Air Quality/Mold Consulting
- Demolition Engineering



SUSTAINABLE DESIGN:

As the recognized industry leader,
Langan's team of over 125 LEED
Accredited Professionals provides
sustainable solutions for every aspect
of your project.

LANGAN

75+
years

RAYMOND/RAYMOND ASSOCIATES
FOOD SERVICE CONSULTANTS SINCE 1936

85 Kings Highway
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email: brett@rradesigns.com



Raymond/Raymond Associates (RRA), founded in 1936, is a full service design firm for the Food Service Industry. Located in Warwick, New York, RRA is considered by many of its colleagues and clientele as one of the country's leading consulting firms.

For more than 75 years, Raymond/Raymond Associates has continued to build an outstanding reputation in the specialized field of food service design and planning. With a combined experience of 85 years, RRA has continued to adapt to the ever-changing needs of our clients, as well as the food service professionals that utilize these facilities.

With the completion of over 2,500 projects, both domestic and foreign, RRA has gained the knowledge and expertise to running a successful project, no matter its parameters. Whether the project is 150 square feet or 100,000 square feet, a successful food service operation requires progressive design and operational concepts. Offering complete in-house design, production and documentation, RRA is able to work fast and effectively in meeting the goals associated with a projects timelines and milestones. With this approach, RRA has created long-term design relationships with the majority of our clientele, some using our firm exclusively for more than 25 years.

The firm's extensive portfolio includes corporate, health care, long-term care/assisted living, K thru 12 schools, colleges and universities, hotels, correctional facilities and other food service establishments.

With each clients unique requirements and demands, RRA prides itself on staying current in industry standards, trends, concepts, innovations to equipment and engineered systems. This helps to provide our clients with the knowledge to make informative decisions based on their specific food service programs. Along with the utilization of AutoCAD Architecture 2011 and REVIT Architecture 2011 thru 2013 3D/BIM modeling, RRA continues to evolve with our architectural and engineering clientele.

Projects with Antinozzi:

- Howell Cheney Technical High School, Manchester
- Oxford High School, Oxford
- Geraldine Johnson Elementary School, Bridgeport
- CREC MP-TP Magnet School, Hartford
- Harding High School, Bridgeport
- Orville H. Platt, Meriden
- Eli Whitney Vocational Technical School, Hamden



Firm Profile

Stantec Consulting Services Inc., locally based in Hamden and Hartford, Connecticut, will provide civil engineering, landscape architecture and traffic engineering services for the Antinozzi Associates' team as we have for numerous Antinozzi Associates-led school construction projects over the past decade. These Connecticut schools include:

- Howell Cheney Technical High School, Manchester
- Eli Whitney Technical High School, Hamden
- Geraldine Johnson School, Bridgeport
- Connecticut AeroTech School, East Hartford
- CREC Medical Professions and Teacher Preparation Magnet School, Hartford
- O. H. Platt High School, Meriden
- West Haven High School, West Haven
- Warren G. Harding High School, Bridgeport
- Roosevelt Elementary School, Bridgeport

Stantec also provided similar services for numerous City of New Haven and City of Waterbury school projects, including participation in site selection.

Additionally, Stantec is currently working on several projects in Hartford for both the City of Hartford and the Metropolitan District Commission, including:

- Tower Avenue Multi-Use Trail Design
- Center and Fairmount Streets Water Main Replacement
- Oakwood Avenue Water and Sewer Improvements
- Garden Street Water Main Replacement

Stantec is one of North America's top ten design firms and a leader in sustainable design. We employ nearly 13,000 employees in over 200 offices offering extensive resources to our staff and collaborating consulting firms. However, we recognize what is most important to our local clients: local expertise, familiarity and experience complemented by a high level of technical proficiency, design creativity and responsiveness.

Services

Our involvement typically includes all phases of project development: site selection and programming; schematic design through construction documents; regulatory approvals; value engineering; PCT participation; bid support; and construction support services. We are leaders in site sustainability and LEED applicability since we have been applying such measures for decades, focusing on optimum site performance, ease of maintenance, and initial and ongoing operational cost reduction. We achieve these performance standards without compromising function and aesthetics, recognizing that schools are an integral part of our communities.

Key elements of our school projects include site circulation (passenger cars, school buses, public transit, service vehicles, security and pedestrians), parking, stormwater management, balance sites (cut and fill quantities); planting design; and site amenities inclusive of athletic facilities. We address a host of site criteria to achieve high performance sustainable sites within each of these elements.



Firm Profile

The Di Salvo Engineering Group is a professional consulting engineering firm offering comprehensive structural engineering services. Since its inception in 1973, the firm has grown to be one of the largest consulting firms in New England dedicated exclusively to structural engineering. The Construction Performance Analysis division of The Di Salvo Engineering Group brings expertise in reinforced and pre-stressed concrete design, construction, forensic evaluation, remedial design and related material technology.

Our success is due to our commitment to technical excellence and innovation, the staff's involvement in the management of the firm, and our dedication to only the highest of business standards and ethics.

Technical Excellence and Innovation

The Di Salvo Engineering Group has received awards for technical competence and design excellence from such prestigious organizations as the American Institute of Architects and the American Council of Engineering Companies / Connecticut. The firm was one of the first to participate in two professional peer review programs: the Technical Peer Review Program of the Coalition of American Consulting Engineers, and the Organizational Peer Review Program of the American Council of Engineering Companies and the Structural Engineers Risk Management Council. These programs provide an objective look at the organization for efficiency, ability to deliver quality design services and good business practices.

Our Construction Performance Analysis group provides investigatory and forensic structural services, with special expertise in prestressed and post-tensioned concrete construction and concrete material technology. Our own field testing capabilities, supplemented when necessary by laboratory testing, complements our technical strengths and offers the opportunity for creative structural designs, innovative and efficient use of materials, evaluation of structural problems, and practical solutions to construction challenges.

Staff

Our staff includes registered Professional Engineers, LEED Accredited Professionals, REVIT and CAD Designers, Field Engineers and a professional administrative staff. The field of structural engineering and the technology associated with it are rapidly changing. We work with all staff members in developing and meeting their individual continuing education goals by encouraging course work and by providing in-house seminars. Our clients benefit from an energetic workforce and the latest developments in the field.

We believe in the open sharing of ideas, responsibilities and rewards. Staff members participate in weekly coordination meetings, project management, quality reviews, financial disclosure and profits. By fostering commitment, dedication and job satisfaction in this way, our clients enjoy extra attention to detail, a higher level of client service, and the staff's passion for the highest quality of work.

Professional Standards

The Di Salvo Engineering Group has built a reputation of trust among its long-standing clients and business associates. The firm and its principals have played an important role in promoting sound business ethics and standards. We are founding members of the Connecticut Structural Engineers Coalition, Building Officials and Code Administrators (BOCA) Connecticut chapter, Structural Engineers Risk Management Council (SERMC), the Coalition of American Structural Engineers (CASE) and the Risk Management Program (RMP) of CASE. In addition, we are active in the American Council of Engineering Companies, the American Society of Civil Engineers, the American Concrete Institute, and the Post-Tensioning Institute.

Experience with Antinuzzi Associates

Harding High School, Bridgeport, CT
Roosevelt Elementary School, Bridgeport, CT
CREC MP-TP Magnet School, New Britain, CT
Oxford High School, Oxford, CT
Scotts Ridge Middle School, Ridgefield, CT

BUILDING INFORMATION MODELING (BIM) / REVIT

Antinozzi Associates has always strived to incorporate the latest design technology into our practice. We, like most design and construction professionals, realize that Building Information Modeling (BIM) software has become to our industry what Computer Aided Drafting (CAD) software was in the 1990's. It has revolutionized the design of buildings around the world, and the production of construction documents and specifications in ways we only dreamed of a decade ago.

In 2008, Antinozzi Associates initiated our first project on Autodesk's Revit software and, along with intense training, we implemented the software onto nearly every one of our major school projects since.

Our first major project using Revit, the **Cooper Surgical Corporate Headquarters in Trumbull**, was a new 77,000 SF facility. One of the unique project design features was a combination of open, floating ceilings incorporated throughout the building. The technology allowed us to understand the strength of the software to track light fixture types, quantities, and different ceiling areas to estimate total costs during the design process, providing the opportunity to make design decisions on-the-fly and stay on budget.

Roosevelt Elementary School, Bridgeport: This was the first major school project where we utilized Revit software from start to finish of the design documents. Awarded in 2010, this \$44.7M design project completely replaced an existing 1965 school structure on the same 5.3 acre site. The scope of the project met the City's standard Educational Specifications for a neighborhood school of 600 PreK-8 grade students at 85,000 SF. The school is set to open in July 2015.

Orville Platt High School, Meriden: In 2011, this major addition/renovation project became our second school project using Revit. The importance of the software on this school project was the opportunity for our design team to implement a completely new process to meet the challenge of incorporating phases

when existing structures, demolition, and new construction are involved. At the outset of the school's design, we utilized cutting-edge "4-D Phasing" to address timeframe and schedule logistics, allowing our design and consultant team to create separate dedicated sets of construction documents for each phase of this 255,000 SF, \$112M school project.

Harding High School, Bridgeport: Now fully utilizing our BIM capabilities in Revit, we are in the redesign process (per City direction to add 350 more students) for this new 1,150-student high school to be located on a new site. Replacing an outdated and oversized 1925 structure, the academic focus of this new 208,000 SF facility will be on health services, environmental sciences, and a new International Baccalaureate (IB) program. The construction budget of the redesigned school is approximately \$80M.

By utilizing BIM, we see the importance (and cost-effectiveness) of using this technology for both coordination purposes and 'modeling' the building pre-construction. We can analyze the model to determine anything from energy consumption to infrastructure conflicts. In addition, we have shared the model with project construction managers upon request, and will do the same for the Ledyard School projects.

It is especially advantageous to share the model when site and/or building phasing is required so the CM and design consultant team can provide input into issues affecting M/E/P, site access/circulation, life safety, accessibility, cost, and schedule. By implementing our "4-D Phasing" process with Revit software, understanding the phasing of this project can be simplified.

We are well-versed in the AIA G202 Protocols for BIM and the model "levels of development" (LOD). Though we expect to design to level 300 or 350, we will meet with the PMBC, the Town/BOE, and all of our consultants to ensure we all have a complete understanding of what is truly required for a successful project.

Below is a list of our most recent educational projects (since 1990) and the towns, cities, and institutions we have worked, or are working with successfully to provide feasibility studies, design, and/or construction of educational facilities. The projects in **bold** meet the minimum qualifications of Section VI of the RFQ/P. These project details are found in the following pages.

* Included Feasibility Study ** Feasibility Study only
+ Over 50% New Construction

BRIDGEPORT

Harding High School+

Roosevelt Elementary School+

Geraldine Johnson Elementary School+

Music and Arts Center for Humanity (MACH)**

South End Elementary School

New Beginnings Family Academy*

Read Elementary & Middle School

Park City, Franklin, Hooker, McKinley, Newfield,

Skane, and Webster Schools (Windows)

Hall Neighborhood Center+

DANBURY*

District-wide School Reorganization/Renovation

Project from 1991 - 1994 included:

- 13 elementary schools
- 2 middle schools
- Danbury High School
- Alternative Center for Education
- BOE Central Administration Building

FAIRFIELD

Roger Ludlowe Educational Complex*

Fairfield High School**+

St. Thomas Aquinas School+

GREENWICH

Greenwich High School*

North Mianus / Riverside Elementary Schools*

HAMDEN

Eli Whitney Technical High School+

Spring Glen Elementary School**+

HARTFORD

Connecticut AeroTech School, Brainard Airport+

MANCHESTER

Howell Cheney Technical High School+



MERIDEN

Orville H. Platt High School+

Thomas Edison Magnet Middle School+

MONROE

Chalk Hill Middle School*

Jockey Hollow Middle School**+

Fawn Hollow School

Stepney School

NEW BRITAIN

CREC Medical Profession & Teacher Prep Academy+

NORTH BRANFORD

North Branford Intermediate School

OXFORD

Oxford High School+**

REGIONAL SCHOOL DISTRICT 14 (BETHLEHEM/WOODBURY)**

Bethlehem Elementary School

Mitchell Elementary School+

Nonnewaug High School

RIDGEFIELD

Scotts Ridge Middle School+

SEYMOUR

Chatfield-LoPresti Elementary School**+

STAMFORD

Hart Elementary School+

STRATFORD

Eli Whitney Elementary School*

Stratford Academy/Johnson House**

Wooster Middle School*

Stratford High School

WEST HAVEN

West Haven High School+**

WESTPORT

Saugatuck Elementary School

WEST HAVEN HIGH SCHOOL

Location: West Haven, Connecticut
Area: 275,000 Square Feet
Completion: In Design Phase

DESCRIPTION

Antinozzi Associates conducted a facility audit of this school site through the Capitol Region Education Council (CREC) for the West Haven School District. Option 2, which became the leading option, would renovate only the gymnasium and auditorium areas. The remaining portions of the facility will be demolished to allow for a new central core of classrooms and support spaces. Based largely on our successful design and public relations efforts during this study phase, Antinozzi Associates was selected to design the \$109M project.

FEATURES

The existing 1963 school building combines one, two, and three story sections totaling almost 300,000 SF. The site accommodates an extensive athletic complex at the south end of the property.

The majority of the new construction will occur in the common spaces which consists of the auditorium, cafeteria, and gymnasium. The arts and music program spaces are included and will be accessible after hours by the public. By virtue of its adjacencies to the academic section, the common spaces will be isolated from the academic units to control unauthorized public spaces to student spaces.

The media center, located above the main entrance, will serve as a primary focal point for the renovated facility. Its location will be in alignment with the school's sports facilities.

CONSULTANTS

- * Altieri Sebor Wieber - M/E/P/FP
- * Stantec - Site/Civil, Landscape
- * DeCarlo & Doll / Luchs Engineering - Structural
- * Jaffe Holden - Acoustical
- * Raymond/Raymond Associates - Food Services



ORVILLE H. PLATT HIGH SCHOOL

Location: Meriden, Connecticut
Area: 255,000 Square Feet
Scheduled Completion: August 2017

DESCRIPTION

The existing Orville H. Platt High School was built in the 1950's and in dire need of renovation and expansion to bring the school up to the standards of a modern, 21st century educational facility. Multiple design schemes were prepared and evaluated by considering factors such as the overall project cost the educational program, and the construction phasing impact on school operations, ultimately determining the final option to be developed.

FEATURES

Given the extensive amount of demolition, renovation, and new construction that will be a part of this \$112M project, it will be built in four major phases beginning in 2013. This 1,200 student high school will feature a new two-story freshman academy and a three-story upper academy wing with a dramatic glass-walled library located to conveniently serve the needs of all the students. The existing gymnasium, auditorium, and pool spaces will be completely renovated while a new cafeteria is constructed to the rear of the school to take advantage of the vistas overlooking the athletic fields. Site improvements include revisions to the traffic flow to separate car and bus traffic, to direct students to two main entry points at the school, simplifying the arrival and departure process each day.

CONSULTANTS

- * Altieri Sebor Wieber - M/E/P/FP
- * Stantec - Site/Civil, Landscape
- * Thomas Torentti - Structural
- * Jaffe Holden - Acoustical
- * Raymond/Raymond Associates - Food Services



ELI WHITNEY TECHNICAL HIGH SCHOOL

Location: Hamden, Connecticut
Area: 231,000 Square Feet
Scheduled Completion: 2016

DESCRIPTION

As part of the State's plan to modernize the technical high schools, Eli Whitney will undergo comprehensive renovations to 140,000 SF of the existing facility, as well as receive a 91,000 SF addition to accommodate 800 students.

FEATURES

The addition will feature a new two-story trade wing, configured and sized to meet current program and enrollment needs. The existing academic areas will be renovated to create new classroom space. The trade areas, currently located in the academic area, will be moved to a new trade wing. The overall design will allow for the trade and shop areas to be located in one continuous space. Additional features of the \$87M project include the central relocation of a new media center and auditorium addition, the renovation and expansion of administrative and student service spaces, and the reconstruction of the school's athletic fields and parking areas.

Though we worked with Viridian Energy & Environmental to create a sustainably-designed, LEED-certified facility, the client decided during the design phases that Eli Whitney would not be LEED-certified. The school is designed, however, to implement energy-efficient systems throughout the facility. This project is currently in phase two of construction.

CONSULTANTS

- * Altieri Sebor Wieber - M/E/P/FP
- * Stantec - Site/Civil, Landscape
- * The DiSalvo Engineering Group - Structural
- * Jaffe Holden - Acoustical
- * Raymond/Raymond Associates - Food Services



HARDING HIGH SCHOOL

Location: Bridgeport, Connecticut

Area: 208,000 Square Feet

Scheduled

Completion: 2018

DESCRIPTION

The City of Bridgeport awarded this new high school project to Antinozzi Associates in 2011, which will accommodate an 1,150 student enrollment anticipated for the 2018-2019 school year. The school's age, outdated technology, insufficient classroom space, and poor ventilation throughout the facility required updating and improvement beyond simply renovation.

FEATURES

The new 208,000 SF building will be constructed on a new site, and will include state-of-the-art computer labs, virtual and traditional science labs, a graphics lab, music rooms, art classrooms, a new mentor program area, and additional educational and athletic spaces. The school has a construction budget of \$80M and will feature a state-of-the-art performance auditorium and media center spaces, as well as a fully functional mini-health services center. It will also be sub-divided into two academics; an approach that will ensure student's needs are appropriately met.

The very tight urban site, formerly occupied by a factory, required a four-story design solution. The upper two levels will be occupied by classrooms, and are arranged around a "Collabagora" (this term combines "collaboration" and the Greek word "agora"). The Collabagora is open between both academic levels, enabling light to flood the central portion of the building and create a visual connection between floors.

During the summer and non-peak school hours, the school will be used for after school programs, civic youth programs, community events, and other additional neighborhood events as necessary. Additionally, new state-of-the-art athletic fields will be constructed.

The school building and site will meet LEED Silver Certification, by the U.S. Green Building Council, ensuring the space is low maintenance and environmentally friendly.

CONSULTANTS

- * Altieri Sebor Wieber - M/E/P/FP
- * Stantec - Site/Civil, Landscape
- * The DiSalvo Engineering Group - Structural
- * Jaffe Holden - Acoustical
- * Raymond/Raymond Associates - Food Services



ROOSEVELT ELEMENTARY SCHOOL

Location: Bridgeport, Connecticut

Area: 85,000 Square Feet

Scheduled

Completion: August 2015

DESCRIPTION

The new Roosevelt Elementary School was designed to replace the aging and outdated school building bearing the same name. The Roosevelt project is a result of the City of Bridgeport School Rebuilding and Modernization Program, of which Antinozzi Associates has designed two other school buildings as part of the program. This new school will sit on the same existing 5.3 acre urban block bordered by three city streets and residential properties. The site will be accessible from two of the three streets.

The new Roosevelt building will house 600 Students from Pre-K to 8th Grade. The \$34.8M construction budget includes demolition of the existing 105,000 SF school building. Antinozzi Associates led the effort that enabled the demolition and new construction of the project to stay within the established budget.

FEATURES

Nestled in an urban neighborhood, the school is home to a racially diverse population. The theme of the school is "Paseo de los Ninos," which translates to "Passage of the Children." This theme is manifested in the sweeping corridor that serves as the main entrance, linking the commons building to the academic wing. The building also houses parent outreach and medical clinic facilities which can be entered independently from the facade fronting the street. Overall, the building will function as a new community center with multiple age play areas, a full gymnasium, a media center, a dance studio, and a cafeteria/performance arts space with a full adjacent kitchen. Also included is an exterior playing field and basketball court.

The Roosevelt School will receive a LEED Silver Certification from the US Green Building Council.

CONSULTANTS

- * Altieri Sebor Wieber - M/E/P/FP
- * Stantec - Site/Civil, Landscape
- * The DiSalvo Engineering Group - Structural
- * Sound Engineering Services - Acoustical
- * Raymond/Raymond Associates - Food Services



MEDICAL PROFESSION & TEACHERS PREPARATION MAGNET SCHOOL

Location: New Britain, Connecticut

Area: 145,000 Square Feet

Completion: June 2014

DESCRIPTION

Drawing from nationwide research of medical education facilities, as well as input from the Capitol Region Education Council (CREC) Faculty and Administrative staff, Antinozzi Associates has designed this unique \$64.5M Medical Professions and Teacher Preparation (MP-TP) Magnet School. These curriculums will provide a 6th through 12th Grade teaching and medical program, allowing 700 students who are interested in these fields to be enrolled in either program. Additionally, a Pre-Kindergarten facility was incorporated into the teaching program for school and staff use. The design provides CREC with a building uniquely tailored to facilitate the program's specific instruction in a real world setting within a flexible learning environment.

FEATURES

Grades 6-8 occupies the middle building level, with Grades 9-12 occupying the upper level. At the core of each level are three oval courtyards which enable a visual connection of all three floors, with additional outside views. The building shape also responds to the site, incorporating elements referencing both the medical and teaching professions. These elements include an apple orchard, a brick "skin" with incised random lines (suggestive of wrinkles), an exposed "organ-like" element (Lecture Hall), and white blocks in three different finishes to mimic a "complexion."

The school features teaching spaces such as a Medical Simulation Instructional Space, a Medical Health Center, and specialized laboratories outfitted with state-of-the-art equipment for an interactive and student-centered educational experience. Similarly, the Lecture Hall utilizes technology to support distance learning instruction. Spaces within the school are flexible to meet current and future middle and high school programs.

AWARDS

2014 Masonry Construction Project of the Year –
Institutional Category

CONSULTANTS

- * Altieri Sebor Wieber - M/E/P/FP
- * Stantec - Site/Civil, Landscape
- * The DiSalvo Engineering Group - Structural
- * PaulTan Consulting Group - Acoustical
- * Raymond/Raymond Associates - Food Services



GERALDINE JOHNSON ELEMENTARY SCHOOL

Location: Bridgeport, Connecticut
Area: 105,000 Square Feet
Completed: 2008

DESCRIPTION

Architecturally, Geraldine Johnson Elementary School was designed in a series of layers. Housing 750 students in Grades PreK-8, the academic wing is the first layer, designed in the same scale and harmony to the surrounding neighborhood. The common wing, directly connected to the academic wing, includes the gymnasium, media center, cafetorium, and student service center.

Additionally, the new \$53.3M elementary school is designed to accommodate extensive community use after school hours. Security of the building is maintained through strategically-located doors. For instance, the gymnasium can be used without permitting access elsewhere in the school by closing the doors to the main corridor of the academic wing.

Initially, we worked with Viridian Energy & Environmental to create a sustainably-designed, energy-efficient facility. Although it was decided during the design phase by the client that the school would not be LEED-Certified, the school has been designed to implement energy-efficient systems throughout and meet LEED Silver requirements.

CONSULTANTS

- * STV - M/E/P/FP, Structural
- * Stantec - Site/Civil, Landscape
- * Raymond/Raymond Associates - Food Services



SOUTH END ELEMENTARY SCHOOL

Location: Bridgeport, Connecticut
Area: 123,000 Square Feet
Completed: 2008

DESCRIPTION

This new school is housed in a fully-renovated structure built in 1965 by the University of Bridgeport known as Bruell & Rennell Halls. Although originally built as a residence hall, this facility has housed a number of educational and administrative uses during its lifetime. It now serves as a swing school for the first several years and then will become a magnet school.

FEATURES

The building is designed to meet the standard Educational Specifications for a 750 student PreK-8th grade school. These requirements were accommodated within the existing structure and a new addition. The existing building is 4 stories high with a basement totaling 112,854 SF. The new addition is an additional 10,481 SF. Programmatically, the uppermost level is comprised of Grades 6-8. The third level houses the intermediate Grades 3-5 and leaves the second floor to house primary Grades PreK-2. The first level houses administrative, media center, athletic and food service facilities. Maintenance, storage, and mechanical spaces occupy the basement. The basement also includes space for art, music, and performance art with natural light.

A completely new HVAC infrastructure, meeting all the City requirements, was installed as well.

CONSULTANTS

- * Harrington Engineering - M/E/P/FP
- * Harry Shepard - Site/Civil
- * Aschettino Associates - Structural
- * Raymond/Raymond Associates - Food Services



OXFORD HIGH SCHOOL

Location: Oxford, Connecticut
Area: 142,311 Square Feet
Completed: 2007

DESCRIPTION

This high school project was the culmination of several years worth of intensive community involvement, led by Antinozzi Associates to expand and enhance the public school system in the Town of Oxford. Oxford High School was designed to house 750 students (with expansion to 800 students), and revolved extensively around the need to use portions of the facility for community purposes. The \$44M budget also included a natatorium and core facilities for future expansion.

FEATURES

The Oxford High School design shows the influence of the Amsterdam School after a design study trip to the Museum Het Schip in 2005. The design concept revolved around the idea of expressing the interior spaces to the exterior by the use of different bricks and corrugated metal panels, three-dimensionally offsetting masses and wall skins. Differentiating colors and textures announce the function of the walls and volumes within the interior spaces.

The school building is located on a site that takes advantage of distant vistas extending across Long Island Sound. The library occupies the upper level of the rotunda above the main entrance at the building's center. Its prominent location and transparency serve as a cultural beacon representing the school's high academic standards. The auditorium and main gymnasium flank the rotunda lobby, making this a civic destination as well as an educational facility.

When Livingston Taylor performed in the auditorium in 2008, he commented to the audience on what wonderful spaces the new auditorium and media center were, referring to the woodwork and architecture. The air was running and it was absolutely quiet. He said, "What is so special, is that this hall is so quiet. Whoever did this, did it right!"

CONSULTANTS

- * Altieri Sebor Wieber - M/E/P/FP
- * Harry J. Shepard - Site/Civil
- * The DiSalvo Engineering Group - Structural
- * Jaffe Holden - Acoustical
- * Raymond/Raymond Associates - Food Services



AWARDS

- 2008 Community Impact Awards - Real Estate Exchange
- 2008 Featured Auditorium Design - SchoolDesigner.com (August Issue)
- 2008 Merit Award for Engineering Excellence - American Council of Engineering Companies of Connecticut
- 2008 International Masonry Institute-N.E. Regional "Golden Trowel" Award



HOWELL CHENEY TECHNICAL HIGH SCHOOL

Location: Manchester, Connecticut
Area: 190,000 Square Feet
Completed: 2007

DESCRIPTION

In 2002, Antinozzi Associates was commissioned by the State of Connecticut Department of Public Works for the design of a 100,000 SF academic addition and major renovations to 90,000 SF of existing space for this 600 student technical high school.

FEATURES

During the design phase of this \$43M project, we developed a unique, innovative solution that reduced moving costs, improved site logistics, and lowered overall construction costs. It allowed for the project to be completed in three phases while students occupied the existing school. Our design solution and phasing recommendations were overwhelmingly accepted and approved by the Regional Vocational Technical School Committee.

The new addition encompassed 12 new classrooms and 10 new shop areas offering instruction in a variety of technical trades. The existing classrooms, administrative space, gymnasium, cafeteria, and library all underwent major renovations.

CONSULTANTS

- * STV - M/E/P/FP, Structural
- * Stantec - Site/Civil, Landscape
- * Raymond/Raymond Associates - Food Services



CLIENT ORGANIZATION INFORMATION

“Antinozzi Associates seeks to establish - and maintain - long term relationships with our clients and the communities we serve by providing exceptional personal attention and high-quality professional design services.

Through this commitment, we have the opportunity to provide a creative and intellectually-stimulating environment for our staff, assuring the long term success of the firm.”

- Antinozzi Associates Mission Statement



West Haven High School

Ken Carney, Chairman - Building Oversight Committee
West Haven Public Schools
(203) 937-6400

Orville H. Platt High School

Matthew Dominello Building Committee Chair
Meriden Public Schools
(203) 634-0198

Eli Whitney Technical High School

Peter McCann, Project Manager, CT-DCS
Department of Construction Services
(860) 713-5642

Harding High School

Jorge Garcia, Director of Building Operations
City of Bridgeport
(203) 330-2427

Roosevelt Elementary School

Alan Wallack, Coord., Bridgeport School Construction
City of Bridgeport
(203) 576-7929

CREC - MPTP Academy

Roger LaFleur, Former Dir. of School Construction
Capitol Region Education Council
(860) 485-8879

Geraldine Johnson Elementary School

Alan Wallack, Coordinator, Bridgeport School Construction
City of Bridgeport
(203) 576-7929

South End Elementary School

George Estrada, Associate VP Facilities
City of Bridgeport
(203) 576-4330

Oxford High School

Ed Hellauer, Chairman, Building Committee
Town of Oxford
(203) 230-2040

Howell Cheney Technical High School

John Cavacas, Project Manager, CT-DCS
Department of Construction Services
(860) 713-5742

PAST SCHEDULE AND BUDGET PERFORMANCE

SCHEDULING

We know that the approval process in any municipality or State entity can be a challenge. Our approach is to be proactive in working with local agencies, boards and commissions in order to anticipate concerns prior to design review. Antinozzi Associates would be at the center of this effort to fully organize and coordinate complete and responsive applications, presentations, and documentation to meet the project schedule. All of the projects identified in this Tab have adhered to the project's required timelines.

MITIGATING CHANGE ORDERS

Some change orders do add value to a project - a program element (wall) or a 'brick and mortar' building element (window) - and may be added by the Client during construction. Most Clients fear the change orders that add nothing of value to the project, and are caused by issues such as unforeseen conditions, shipping delays, product substitutions, quick decisions, and errors or omissions (E/O). These change orders usually increase contractor overhead due to time, quality or scope - unknown and unwelcome by the Client.

As indicated below, our amount of E/O-based change orders as a percentage of construction cost on almost all of the school projects listed was under 1.20%. Although not specifically identified, it should also be noted that the amount of change orders generated by 'unforeseen conditions' is also low, indicating that our team is proactive in finding, and solving, possible change orders prior to construction.

*Orville H. Platt H.S. (0.13%) - Add'n/Renov'n

Original Construction Estimate:	\$91,000,000
Actual Construction Bid:	\$93,636,710
Construction Cost to Date (est.):	\$94,213,974
Owner/Unforeseen changes:	\$ 459,347
Design-generated changes:	\$ 117,917

South End E.S. (0%) - Add'n/Renov'n - Design/Build

Original Construction Estimate:	\$25,000,000
Actual Construction Bid:	\$25,082,000
Final Construction Cost:	\$25,722,846
Owner/Unforeseen changes:	\$ 640,022
Design-generated changes:	\$ 0

*Eli Whitney T.H.S. (0.90%) - Add'n/Renov'n

Original Construction Estimate:	\$74,000,000
Actual Construction Bid:	\$72,041,982
Construction Cost to Date (est.):	\$74,377,252
Owner/Unforeseen changes:	\$ 1,665,125
Design-generated changes:	\$ 670,145

Geraldine Johnson E.S. (1.20%) - New

Original Construction Estimate:	\$32,347,400
Actual Construction Bid:	\$30,894,000
Final Construction Cost:	\$32,039,788
Owner/Unforeseen changes:	\$ 761,666
Design-generated changes:	\$ 384,282

*Roosevelt E.S. (0.58%) - New

Original Construction Estimate:	\$34,845,361
Actual Construction Bid:	\$34,633,000
Construction Cost to Date (est.):	\$35,924,264
Owner/Unforeseen changes:	\$ 1,081,072
Design-generated changes:	\$ 210,192

Oxford High School (0.51%) - New

Original Construction Estimate:	\$37,712,500
Actual Construction Bid:	\$36,835,000
Final Construction Cost:	\$38,717,212
Owner/Unforeseen changes:	\$ 1,683,838
Design-generated changes:	\$ 197,964

CREC MP/TP M.S./H.S. (0.82%) - New

Original Construction Estimate:	\$65,560,000
Actual Construction Bid:	\$59,678,900
Final Construction Cost (in audit):	\$63,295,416
Owner/Unforeseen changes:	\$ 3,097,279
Design-generated changes:	\$ 519,237

Howell Cheney T.H.S. (2.17%) - Add'n/Renov'n

Original Construction Estimate:	\$33,000,000
Actual Construction Bid:	\$32,710,000
Final Construction Cost:	\$41,842,174
Owner/Unforeseen changes:	\$ 8,222,174
Design-generated changes:	\$ 910,000

* In construction - data as of February 2015

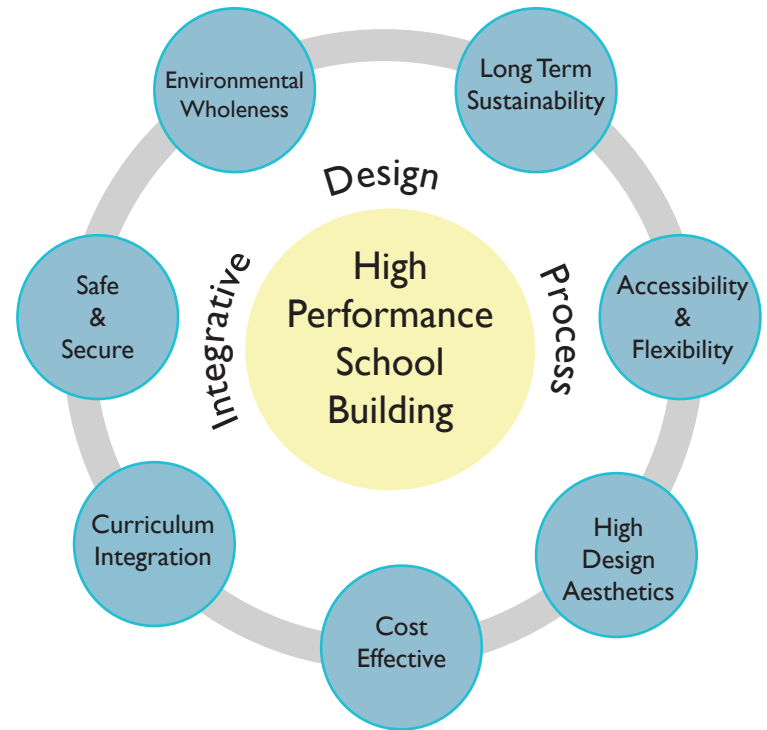
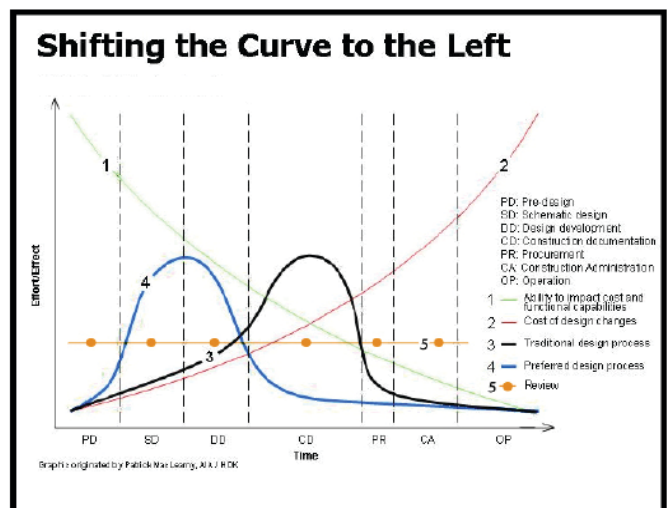
INTEGRATIVE DESIGN PROCESS (IDP)

Antinozzi Associates has a very simple, and direct, process to hold our design team, consultants, and even Clients accountable for the school project design elements and issues they are responsible for.

Our entire project management approach revolves around our 'IDP' approach, or Integrative Design Process. This process ensures that the School's Building Committee, Antinozzi Associates, our design consultants, engineers, and all other key project stakeholders (i.e. Board of Education, Town/City administrators, etc.) are involved from Day 1 and learn about the interrelationships of the different options, systems, and materials in the school project(s) so they are addressed as early as possible.

High degrees of design and schedule efficiency are found in the relationship between the early stages of programming and the eventual building architecture, infrastructure system technologies, surrounding site plan, and structural engineering solutions. Several alternatives will be considered and agreed upon concurrently. Our IDP approach breaks the team out of previously used (and outdated) "last minute" value engineering patterns to realize highly cost-effective, healthier buildings for the school community and natural systems that support them.

We understand that the development of a project's cost early in the design process is crucial to maintaining cost control. An IDP approach continuously manages the project's design value rather than waiting for cost control at the end of each phase - eliminating important parts of the design afterward. Throughout the pre-construction phases of a project, we will insist on regularly holding these IDP meetings regularly to identify issues, monitor progress, and set goals. This process promotes "on-the-fly" value decisions and initiates discussions about maintaining the design, schedule and budget by all parties involved with the project.



PROJECT APPROACH: BASIC SERVICES

After reviewing and discussing the previous studies, referendum material, and expected scope of work involved for the Ledyard Middle School and/or Gallup Hill School project with the Permanent Municipal Building Committee (PMBC) and other BOE and Town representatives, we will proceed to the next steps of our design process.

Developing complete and accurate construction contract documents goes to the heart of what we do as architects. Although not our only task, of course, it is the one means in which we communicate the design intent for the construction of any building project to the Client, Contractors, Town/State Agencies and various other appropriate entities. Though it is difficult to graphically show our process in providing complete and comprehensive construction drawings and specifications after the referendum has been passed, we can explain the necessary steps that must occur in each of the drawing documentation phases described below.

IN-HOUSE QUALITY CONTROL

Antinozzi Associates has written Quality Assurance Program used for each project. It is a procedure that occurs several times prior to issuance for bidding and ensures the right number and caliber of staff are on each project as it moves through each phase. The process essentially consists of the review of the drawings at the 35%, 65%, and 90% milestones by a team of professionals not working on the project. The team's fresh viewpoint can surface anything from technical deficiencies to coordination issues - providing a thorough check at all levels.

STAKEHOLDER INVOLVEMENT

With a feasibility study and referendum approval already completed, it will be necessary to ensure that the PMBC determines how to address the various stakeholders for these projects and who will need to have a voice on the design of each school facility. A most critical issue to address on day one of the award of the project(s) is to decide EXACTLY who these stakeholders are and be sure they are at the table



PROJECT APPROACH: BASIC SERVICES

from the opening kickoff meeting. Antinozzi Associates will ensure that this discussion takes place and all stakeholders know what the goals are and what will be expected throughout the design and construction of Ledyard Middle School and Gallup Hill School.

CODE EXPERTISE

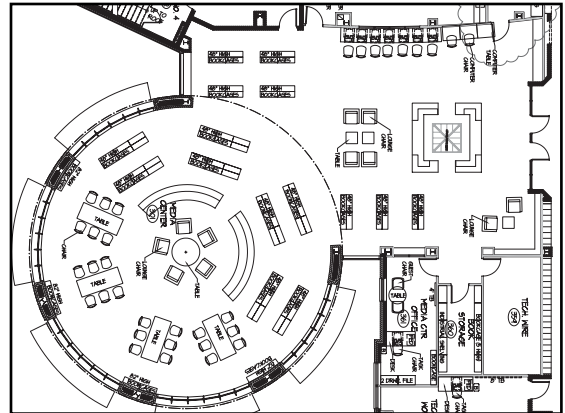
We have the distinct advantage of utilizing the expertise of an in-house, Licensed Building Official on staff, Paul Lisi, who is also a Principal of the firm and will be heavily involved in the quality control and specifications of the project(s). On a regular basis, we will consult with local and State code enforcement authorities (and, of course, the Office of School Facilities) to informally engage additional opinions and support during design. Since most school project schedules do not allow any time for miscues, we have to be certain that the OSF Review Process and pre-construction phases are as seamless as possible.

SCHEMATIC DESIGN PHASE

Upon completion of the planning/programming efforts, as well as meeting with the appropriate representatives to show our findings and gain consensus, we usually start the Schematic Design phase. For the your project(s), approximately half of the Schematic Design phase will be completed to provide the level of detail required for the ED049 grant submission to the State. Typically the schematic design documents provide simple concept diagrams identifying square footage, space adjacencies, massing, and sectional relationships. These documents are produced in color to easily identify anything from educational areas (plans) to suggested materials materials (elevations). Though generally based on just architectural considerations, our schemes (using IDP) will also include numerous engineering and consultant issues if they impact the larger design issues in consideration. We find that several design iterations will need to be developed and build one upon the other.

DESIGN DEVELOPMENT PHASE

In this phase, the approved schematic design will be fur-



PROJECT APPROACH: BASIC SERVICES

ther detailed to show the advanced conceptual design in a more detailed manner. Issues such as wall thicknesses, door/window types and sizes, furniture layout, millwork, and even lighting will be reviewed and recommendations made based on the budget. It is at this point of the project that recommendations must be finalized in regard to current educational technology and trends. This phase of the project is led by the Project Manager, Project Architect, and Senior Interior Designer under the direction of the Principal-in-Charge. Formal presentations can take place by this team as required to maintain open communication with all Le-dyard stakeholders.

CONSTRUCTION DOCUMENT PHASE

Upon the formal approval of the Design Development Phase, the Construction Document Phase begins. During this phase, the Project Manager will monitor the work of the staff through daily updates from the Project Architect. This ensures the project stays on track and is executed as required to comply with the original design intent, budget and schedule. In addition, we have a Quality Assurance program which ensures the right number and caliber of staff are on each of our projects as it moves through each phase.

A major concern in a building project is both understanding what the cost of a project will be at its inception so that an appropriate budget can be established and then having confidence that the actual building will be delivered within the budget. Traditionally, architects have abdicated responsibility for construction cost control, resulting in budgets not being established adequately or met throughout the process. In response to this concern, we developed our Integrative Design Process (IDP) as a cost control system to effectively monitor and adjust construction costs so that the project is delivered with confidence and within budget. This proactive process is used throughout the pre-construction phases of the project and promotes “on-the-fly” cost control, where the entire Project Team analyzes and discusses budget concerns during the later phases of the project’s design.



This effort allows timely decisions to be seamlessly integrated into the creative process such as alternative construction methods, materials, and other matters to eliminate major budget situations that can ultimately impact the schedule and document quality. Antinozzi Associates has utilized an Independent Cost Estimator in the past, we can hire an to double-check the estimates of the Construction Manager (if utilized) and assure that each line item is revisited until a reasonable cost-effective solution is reached.

Having two estimators has proven well for several of our clients in the past for larger school projects.

SCHEDULING & COORDINATING CONSULTANTS

It is essential to our project approach that we integrate a strong communication stream with our consultants throughout the design and construction process. Due to the importance of consultant integration, our regular IDP meetings ensures all consultants are fully immersed in the design process. These meetings maintain constant communication and integration between the consultants and the design team - resulting in a solid, fully-integrated team approach.

The development of a school design should not just come from the architect - the solution should make sense to you on all design levels.

TECHNICAL OVERSIGHT DURING CONSTRUCTION

Our quality control process, largely led through the IDP approach and Revit technology, continues through the effort and attention of the Project Manager. The following phases below describe how we intend to oversee the Ledyard Middle School and Gallup Hill School Renovation Project(s).

BIDDING PHASE

This phase is handled differently in each municipality and we conform to each one as required. Based on our in-depth knowledge in working with numerous municipalities, we offer our expertise to assist you in this phase if you so desire. Our services will continue to be led by the Project Manager and includes, but is not limited to:

- Placement of a legal notice in the newspapers
- Sets of final construction documents/specifications to the Ledyard Purchasing Department
- Troubleshoot questions from bidders and provide any necessary clarifications through addenda
- Presence at the public bid opening
- Recommending which bidder we believe is most qualified for the project

CONSTRUCTION ADMINISTRATION (CA) PHASE

During CA, we provide the typical services an architect is bound to by practice standards. Typically, the Project Architect acts as the field representative for the client, making periodic site visits and attending regular team meetings on site. Shop drawings/submittals, RFIs, and payment applications are reviewed for compliance to the intent of the construction documents. On-site field observation reports and meeting minutes are compiled and copied to the Principal-in-Charge and Director of Architecture in order to keep track of the project and ensure all are aware of any issues that may develop. Our intent is to always provide these documents and address questions generated from the field in 24 hours so that the information is still fresh on everyone's mind.



TECHNICAL OVERSIGHT DURING CONSTRUCTION

In addition, we will also keep the interior designers involved throughout the construction phase by having them visit the site as required to review and approve all finishes and pattern layouts. Binders which document materials used on the project will be created during construction and serve as historical data in the event materials need to be ordered after project closeout.

The binders also serve as an on-site resource for the Construction Manager. When materials are in the process of installation, the binders provide a method of verifying materials.

PROJECT CLOSEOUT

This final stage of the construction project is led by the Project Architect with the Project Manager, PMBC representatives, and the Construction Manager or General Contractor. Weekly or bi-weekly meetings at the site, which were part of the CA phase, are culminated with the development of an initial punchlist. This process identifies the remaining final imperfections resulting in the completion of construction. A follow-up review is conducted once the Construction Manager states in writing that the punch list is complete. Upon verification of punch list completion, a final requisition for payment is signed off.

This same process is followed for closing out the furniture component. We will not leave the project or recommend final payment until our office, the PMBC and the Town of Ledyard are satisfied.

PRINCIPAL INVOLVEMENT DURING CONSTRUCTION

Our style of project management is not only to work with and coordinate all of the various disciplines involved, but to foster real collaboration. At the onset of a project, the Principal-in-Charge sets the project direction, identifies critical issues and concerns, and defines these issues for the entire in-house team. Principal involvement is maintained, even throughout construction, to ensure that this mandate is carried out by the project team. This historical project knowledge is critical in providing the most successful school project for the school students it will serve.



PROJECT PHASING CONSIDERATIONS

Any construction work which occurs within, or in proximity to, an occupied structure requires a level of tolerance, cooperation, and inconvenience by all occupying and accessing the facility during construction. We believe that one of our roles as the project designer is to assist in making this process as painless as possible. When assessing and reviewing the Ledyard Middle School and Gallup Hill design solution, three key components must always be reviewed carefully and thoughtfully:

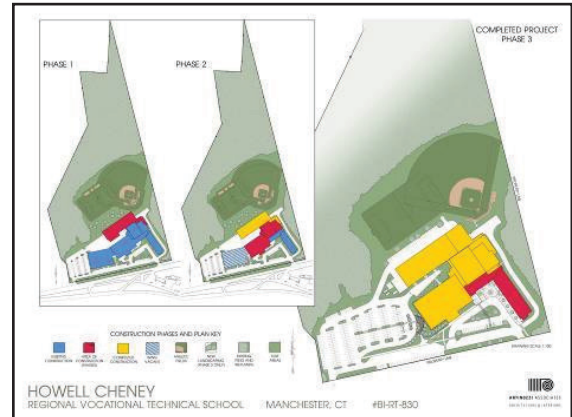
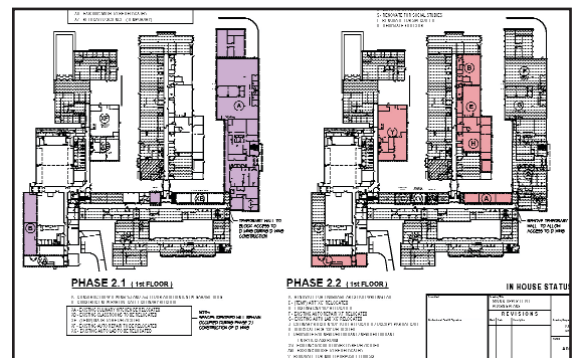
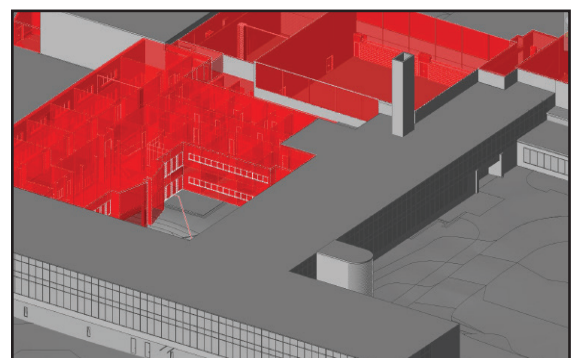
Safety ... not only in terms of the students, faculty and other occupants of the facility where renovations and/or additions will be located, but the construction teams and their possible contact with the occupants. This should be a major concern and addressed in a detailed manner.

Efficiency ... attempts must be made to minimize relocation of occupants so that the construction work is completed in a timely, cost effective manner - and is done right the first time. Multiple moves only translate to escalated costs! In an effort to track key dates of the project and mitigate delays, schedules should be developed to include everything from pre-planning activities to receipt of operation manuals.

Design Integrity ... one of the biggest hurdles can be maintaining a consistent aesthetic appearance to the building while making the desired program and/or design changes. The design solution should NOT compromise the original facility's design, regardless of the challenges found to execute the changes during the construction process.

Phasing plans should begin in the early stages of design to allow the entire consultant team to provide input into issues affecting M/E/P, site access and circulation, life safety, accessibility, cost and schedule - just to name a few. In addition, construction phasing can allow districts to take advantage of bidding contractors by categories of work, helping to expedite the project.

By implementing our team's newly-developed "4-D Phasing" process with Revit software, understanding the phasing of this project can be simplified.



HIGH PERFORMANCE BUILDING DESIGN

Over the past few years, the design and construction of school facilities featuring sustainability has been a top priority throughout the country. However, this has been general practice for many years - prior to today's public 'buzz' or government mandates - for Antinozzi Associates and our consultant team.

With this surge in sustainable/energy-efficient construction, the notion of sustainable design (designing buildings and interior spaces with the idea of merging environmental needs, economic decisions and human needs for health) has risen as a tool to help school and town communities fulfill their societal duty.

Sustainable design can create environments that are conducive for production, learning and, in the long run, cost efficiency. We believe the design philosophy of sustainability must be incorporated at the inception of the process to maximize the potential for effective, efficient and affordable implementation.

Over the years, Paul Antinozzi has been heavily involved in "green" initiatives as a former Board Member on the Connecticut Green Building Council (CTGBC) and as the AIA/CT representative for the Connecticut School Indoor Environment Resource Team (CSIERT). His foresight has kept us ahead of the curve by encouraging the notion of sustainable design simply as 'good' design or 'smart' design - years prior to any new legislation mandates.

In fact, this involvement led Antinozzi Associates to form an in-house committee several years ago to learn and share knowledge about the latest trends and technologies regarding 'green' design. Besides its main goal to educate staff on the benefits and methods associated with designing sustainably, the committee became a huge resource and motivation for employees to become LEED Accredited Professionals.

Our most recent "LEED" Certified project was commissioned by Davis Marcus Partners to add corporate



HIGH PERFORMANCE BUILDING DESIGN

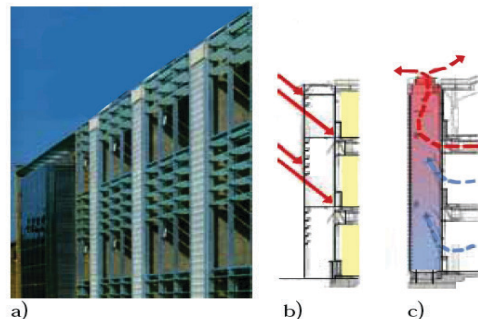
office buildings and parking facilities at their Wilton Corporate Park location. This corporate project attained LEED Gold Certification - the first in Fairfield County. In addition, this project attained one of the highest levels of construction waste management in the country, with 97.76% of the project's construction debris recycled and diverted from landfill.

The Antinozzi Associates staff, including the engineers and consultants we typically work with on school projects, understand the importance of sustainable, energy-efficient design in school projects.

As you may already know, due to recently adopted State legislation in 2009, the Ledyard's school design(s) will need to meet the requirements for high performance buildings. The basis of Connecticut's High Performance Building Design Regulations is the U.S. Green Building Council's LEED rating system. A school project of this size will have the option of adhering to either the State's HPB Design approach or attaining LEED Silver Certification.

We also want to assure the PMBC that our M/E/P consultant is fully aware of the CL&P grants and incentives available through *The Energy Conscious Blueprint Program* and *The Small Business Energy Opportunities Program*. These are not the only programs, and we will leave no stone unturned to take advantage of all appropriate CL&P resources.

With every project, we take great care with our consultants to research and implement sustainable design solutions while meeting budget for all of our public school projects.



SPECIFIC SERVICES AND DATA REQUIRED FROM THE TOWN OF LEDYARD

As per the Request for Qualifications/Proposal for Architectural and Consultant Design Team Services for the Ledyard Middle School and Gallup Hill Elementary School projects, we are providing this page indicating any specific data our design team would require to perform the necessary work for these school renovation projects. We believe that much of the information we would typically require is publically available per the RFQ/P.

However, the items outlined below indicate data, information, and/or design/consultant services that we would expect to receive or coordinate with through the Town of Ledyard. Many of these items have been indicated in our fee proposal (in a separate sealed envelope) under either “Disclaimers” or “Exclusions”, or by our consultant team through their proposals to Antinozzi Associates.

- Comprehensive set of documents completed by previous consultants not included in past studies or reports that would assist in the design of the project(s) such as surveys, hazardous materials reports, etc.
- List of Stakeholders required to be part of the project development from contract signing to project close-out
- Existing CAD files and/or hard copy documents of the existing building(s)
- Construction Management Services (to be determined by the Town of Ledyard)
- Commissioning Services
- Environmental and Hazardous Materials Consultant Evaluation and Report(s)
- Technology Procurement and Audio/Visual Implementation Consultant
- Town of Ledyard school standard FF&E specifications, if available
- Previous Traffic Studies and State Traffic Commission Certificate for site (if available)
- Title Report for property

At Antinozzi Associates, we strongly believe in a collaborative relationship with our clients. We demand and reciprocate superior communication on every level to ensure your project is a success.

PROPOSED WORK SCHEDULE

Antinozzi Associates can assure the Town of Ledyard and the Permanent Municipal Building Committee (PMBC) that our team is available to start this project immediately. Detailed information regarding the scheduling of this project can be found in the graphic below.

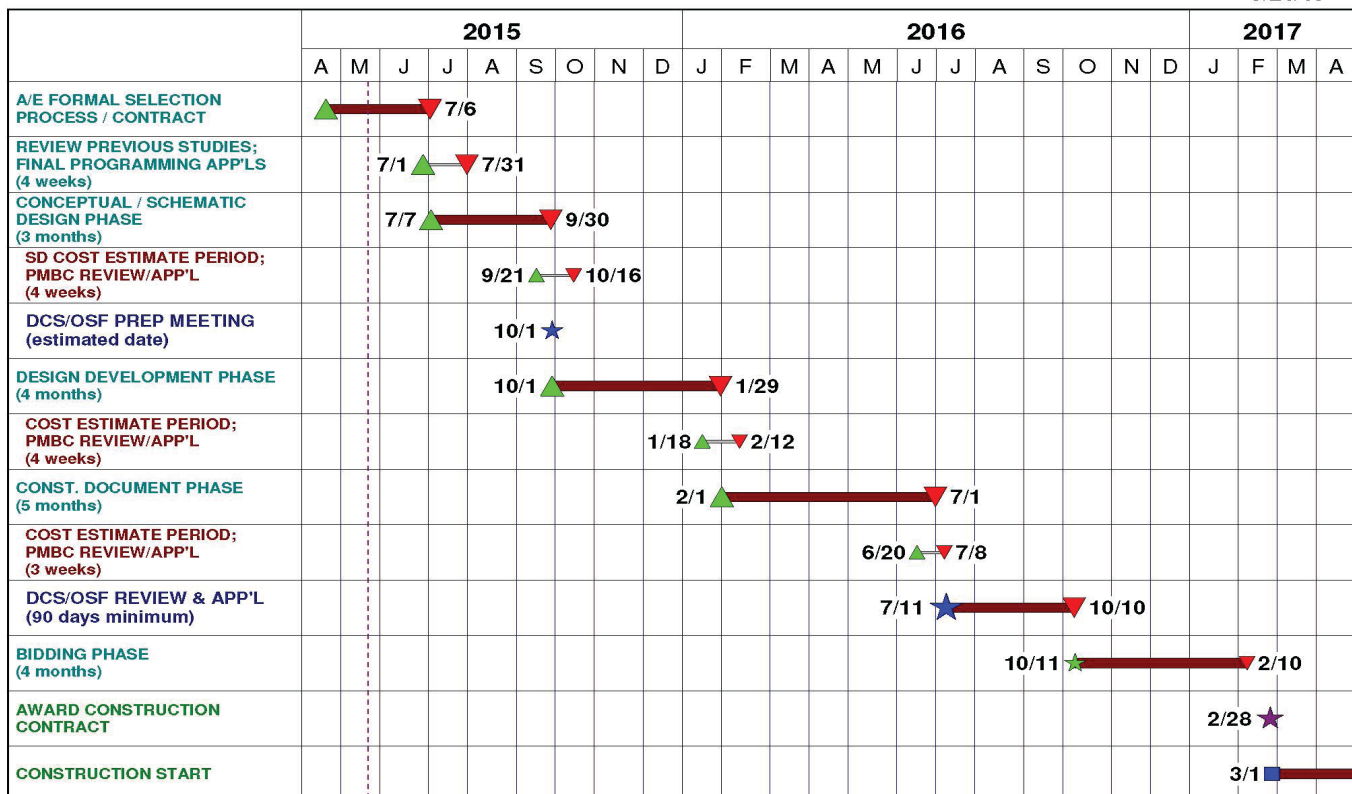
To meet the schedule required for either the Ledyard Middle School or Gallup Hill School, it will be imperative that the PMBC and Town officials provide timely responses to design requests and questions about the project throughout the design phases. Our firm has worked with expedited design schedules on many occasions to meet tight deadlines, so we believe completing the bid documents within one year is not an issue.

The approval process in any municipality can be a challenge and our approach is to be proactive in working with Ledyard's local agencies, boards, and committees to anticipate concerns prior to construction. Antinozzi Associates will be at the center of this effort to fully coordinate responses and documentation to expedite the process.

Our strategy for managing school schedules is revolved around our Integrative Design Process (IDP). This process ensures that the PMBC, Town/School representatives, our design team, and all other key project stakeholders are involved regularly. Our IDP approach breaks the team away from outdated value engineering patterns and also develops project costs early in the design process - crucial to maintaining cost control. Throughout the design phases of this project, we will insist on holding weekly IDP meetings to identify issues, monitor progress, and set goals. This process promotes "on-the-fly" value decisions and will maintain the design intent, schedule and budget by all parties.

LEDYARD MIDDLE SCHOOL AND/OR GALLUP HILL ELEMENTARY SCHOOL PROPOSED PROJECT SCHEDULE (Assuming A/E Contract by July 6)

5/21/15



LITIGATION HISTORY

Antinozzi Associates PC is not currently involved in any pending litigation and has not been involved in litigation relating to school design or construction projects within the past five (5) years.

