

CMK ARCHITECTS PRESENTATION

PROJECTS COMPLETED BY CMK ARCHITECTS,
YEATON ASSOCIATES, FOLEY BUHL ROBERTS
AND TIGHE AND BOND

CMK Architects

- **Principal Involvement:** I will personally attend all meetings, presentations and weekly site visits. In this manner I bring over 37 years of experience to your project during the design, selling and construction phase.
- **Team Players:** Our most successful solutions result from active client participation with team members discussing the issues and making choices together.
- **Contract documents:** Our bid documents are complete and while not perfect allow competitive bidding with typically tight bid spreads. The bid results for a recent Alton Central School Addition resulted in a low to second low bid spread of \$7,000.00 on a \$3,200,000.00 bid. Additionally job change orders are in the magnitude of 3-5% and usually owner added items.
- **Energy Efficiency:** Our GWRSD project attained CHPS classification and state reimbursement. This project is 100% air conditioned and uses 32 KBTU per sq. ft. and cost \$1.00 per square foot for heat, power and air conditioning. For comparison purposes the average green school is rated at 62 KBTU. I believe this project is one of the lowest if not the lowest energy use building in New Hampshire and possibly New England.
- **Design:** We will make decisions that benefit the client and the program not our portfolio. Design is important to us but not at the expense of the budget and should be the result of the program.
- **Dedication:** We are in this for the long term and value our relationships that only prosper with dedication, honesty and our reputation which is invaluable to us.
- **Presentation:** We have presented at countless town meetings. I like to have the answer for every question before it is asked; I have seen perception change with the correct answer. I can think on my feet and am very comfortable explaining the architectural solution to pro and against taxpayers.
- **Experience:** We have completed over 100 educational projects.

CMK's Approach to the Project

Research

- Study existing building plans, studies and reports.
- Interview all stakeholders for inputs , suggestions and problems.
- Organize input and categorize it into wants and needs
- Further prioritize wants from high to low importance.
- Clearly articulate performance targets and strategies.
- Review program conclusions with client and agree on scope.

Methods

- Maintain open, clear and continuous communication between the architects, owner, engineers, estimating consultants, facilities and building occupants.
- Listen openly and be able to accept contrary opinions.
- Work together as a team.
- Utilize proven methods and materials.
- Test various design assumptions through energy simulations to provide relatively objective information on key aspects of performance.

CMK's Approach to the Project

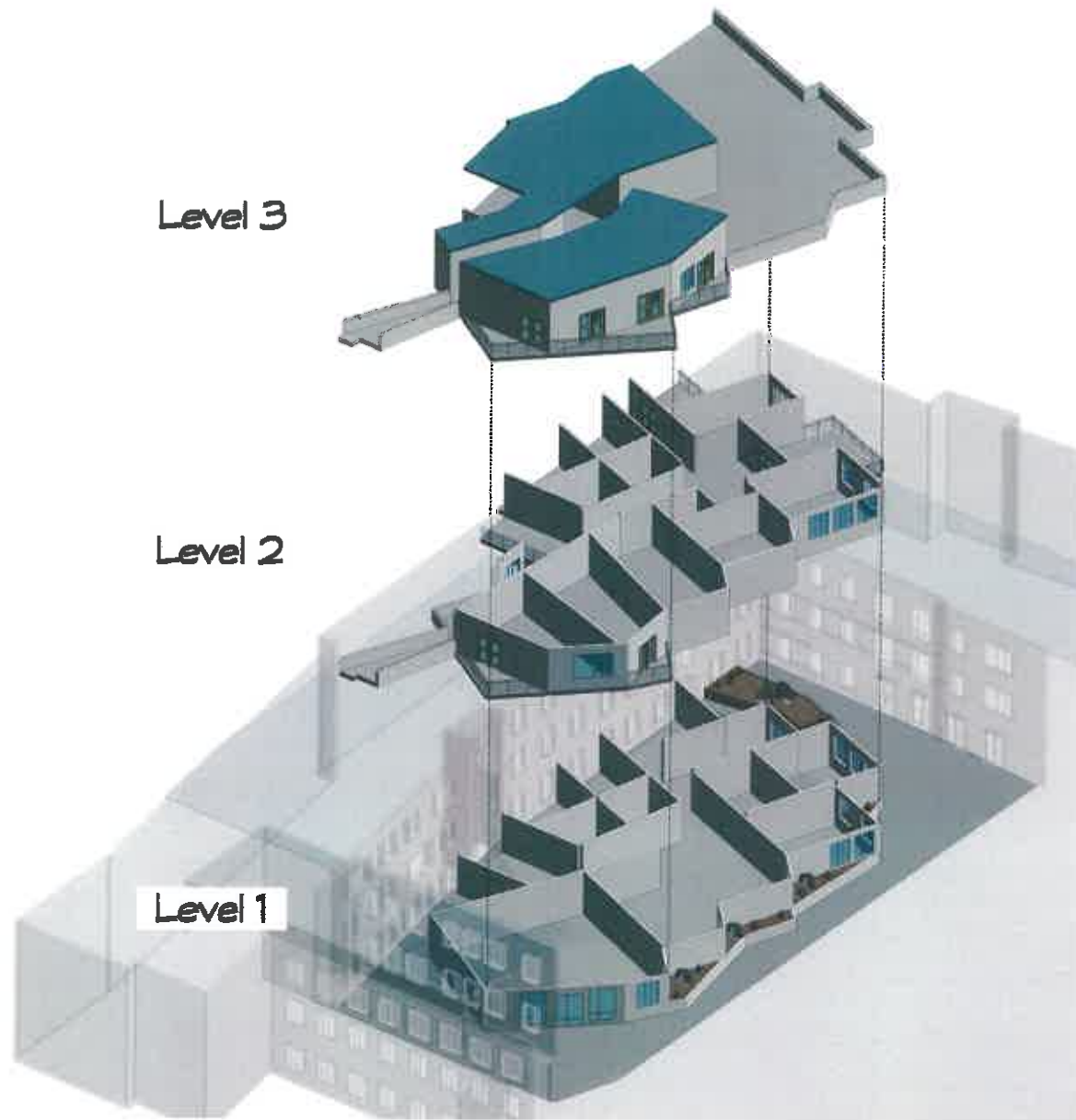
Generate Design Solutions

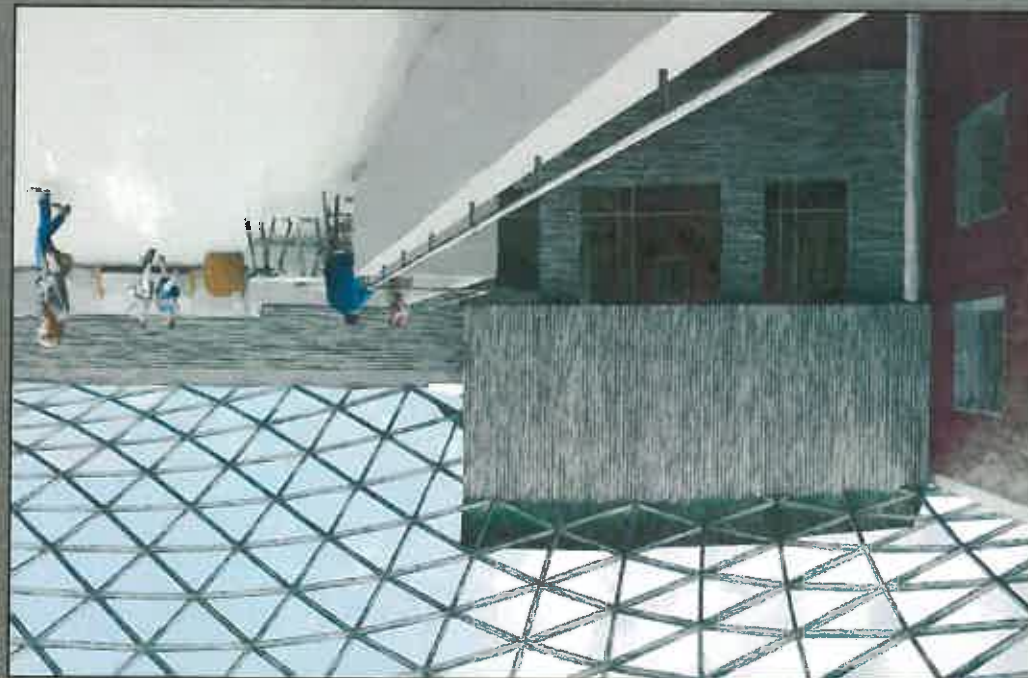
- Review and address site accessibility, terrain, expansion options, etc.
- Meet with administration and staff to review how facilities want to be used.
- Explore all practical options, this is important for several reasons 1. someone will want to know why we didn't consider an option and we need an answer 2. this is the only way the team can make an educated decision on which way to go.
- Discuss various performance issues and agree on priorities with the owner and design team.
- Reduce redundancy, align utilities with actual performance criteria, for instance design the HVAC to the actual loads of the building not rule of thumb. This will reduce initial costs and operating costs. This is also applicable to program requirements such as classroom size, we need to evaluate an existing space on how it will be used, for instance if student class size is 15 then a 600 sq. ft. room that is not adequate for State stds is in fact adequate.
- Consider life cycle costing on design directions and selection of materials.
- Possible charette for stakeholder participation and input. A charette would allow a casual discussion and understanding of the changes that need to occur and sensitivity to the very different solutions.
- Prepare several options for facility expansion and existing space efficiency.
- Update the team on cost or performance issues and potential compromises if any.
- Review potential for elements of sustainable design through Leadership in Energy and Environmental Design (LEED), or Collaborative for High Performance School Design (CHPS).

CMK's Approach to the Project

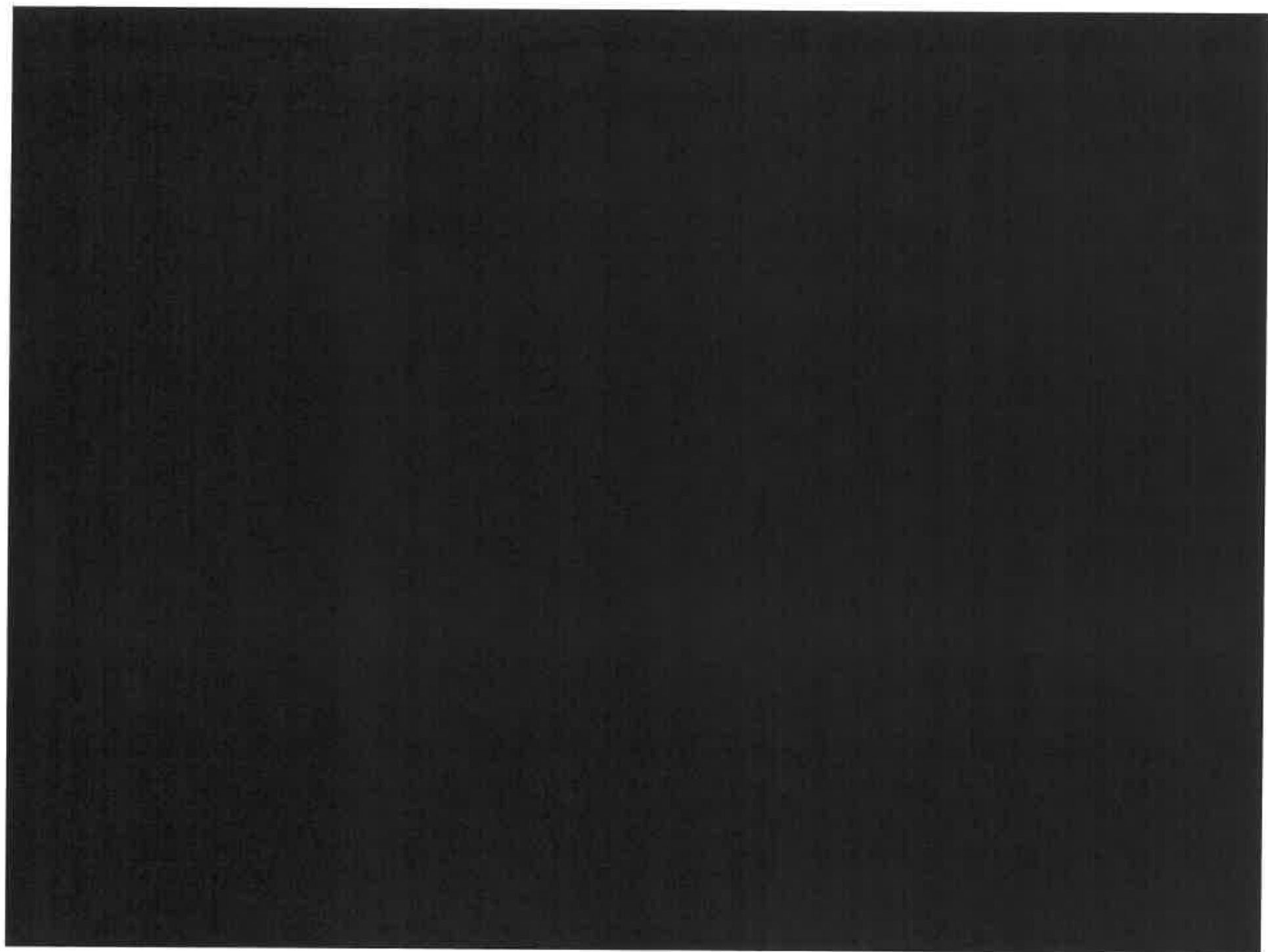
Presentations

- Review project construction phasing with the Building Committee of the proposed building designs.
- Assist the committee with selling the project. We can present the architectural portion but the need, finances, etc. should come from people in the community.
- Provide final floor plans, elevations, site plans and renderings to convey the intended design to the public.
- PR and marketing are very important to a successful bond vote, as we often say having the answer to every question going into a bond vote is critical. To this effect we all need to listen to what the community is saying and might ask.
- Review potential reimbursement options, energy and other grants.
- Participate in public sessions held by the Board to present the programs, designs, and budgeting of the proposed projects.









CARPENTER SCHOOL



CRESCENT LAKE SCHOOL



TUFTONBORO CENTRAL SCHOOL



TUFTONBORO CENTRAL SCHOOL



ALTON CENTRAL SCHOOL



ALTON CENTRAL SCHOOL



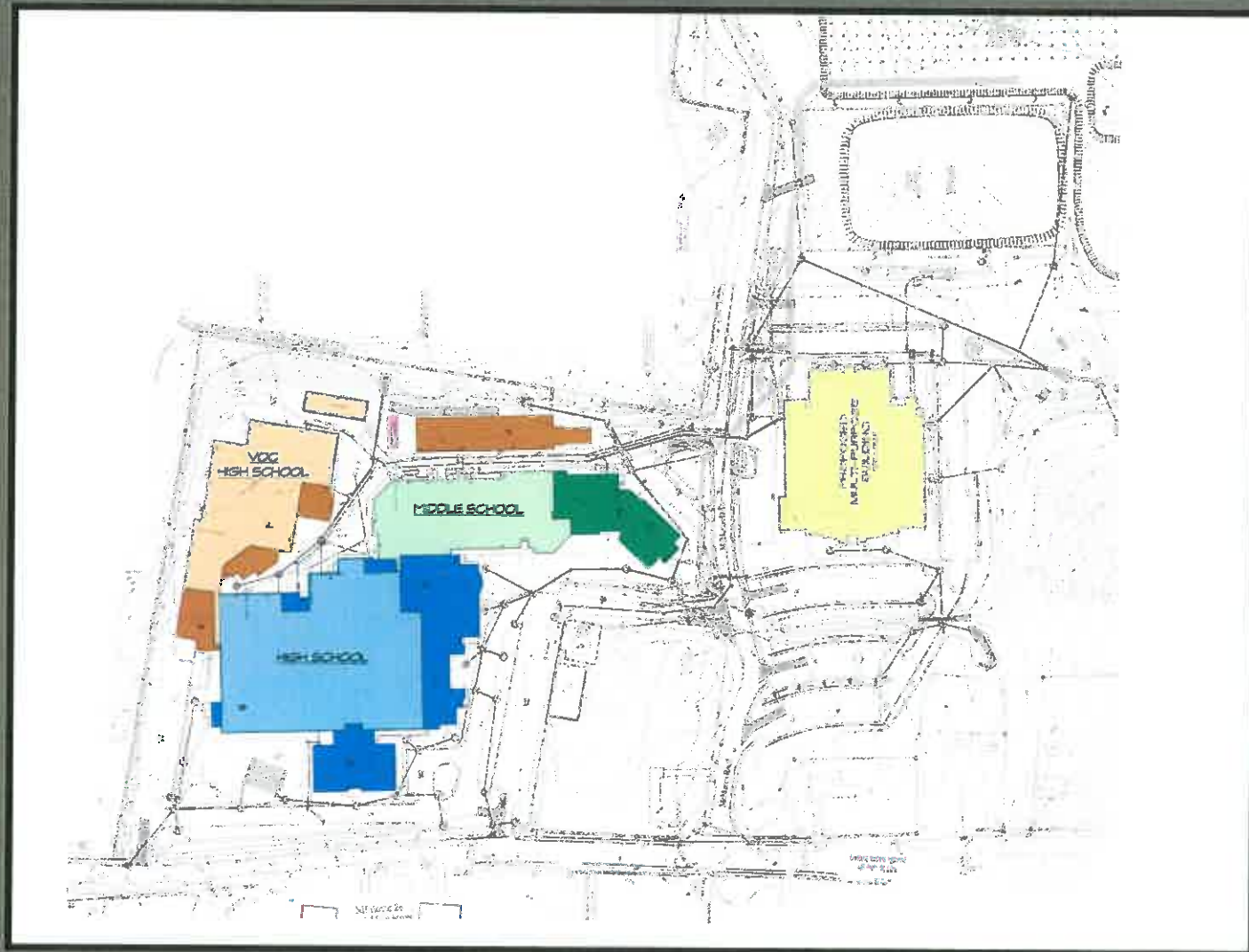


GOVERNOR WENTWORTH REGIONAL SCHOOL DISTRICT

CHPS features, CHPS is based on LEED

- Superior building envelope
- Thermally isolated structure
- LOW e windows
- Blower door tests for air leakage
- Extensive commissioning to make sure systems are installed and operate correctly
- Daylight sensors that adjust electric lighting to amount of exterior daylight
- Rain water tanks that harvest roof water to use for irrigation and flushing
- Carbon dioxide sensors in large spaces to match HVAC output to people occupancy
- Motion sensors for lighting that also setback HVAC temperatures
- Skylights to introduce natural daylight
- LED lighting
- Low maintenance flooring such as: stained concrete, rubber and ceramic tile
- Web based control system with significant monitoring capabilities
- Turf field that requires no irrigation
- No water landscaping
- Low water plumbing fixtures

SITE PLAN



100,000 SQ. FT. NEW ADDITIONS, 210,000 SQ. FT. OF RENOVATED EXISTING BUILDING
51,000 SQ. FT. NEW ART CENTER AND AUDITORIUM FOR A TOTAL CONSTRUCTION
BUDGET OF \$60 M – INCLUDED THE VOCATIONAL, HIGH AND MIDDLE SCHOOLS ALL
LOCATED ON ONE CAMPUS

- VOCATIONAL SCHOOL
 - ADMINISTRATION OFFICES, NEW ENTRANCE, NEW AUTO BODY FACILITY, AGRICULTURAL
- PERFORMING ARTS CENTER
 - NEW AUDITORIUM, MUSIC AND ART CLASSROOM, LOCKER FACILITIES FOR THE SPORTS TEAMS
- HIGH SCHOOL
 - ADDITION - ADMINISTRATION OFFICE, SCIENCE CLASSROOM, PRACTICE GYM AND MEDIA CENTER.
 - RENOVATIONS - ENLARGEMENT OF THE KITCHEN AND CAFETERIA - CONVERTED OLD AUDITORIUM INTO LECTURE HALL SPACE, PHYSICAL EDUCATION FACILITY, COMMUNITY TV STUDIO - RENOVATED GYMNASIUM AND LOCKER ROOM AND RENOVATED ALL CLASSROOMS
- MIDDLE SCHOOL
 - ADDITIONS NEW SCIENCE, MUSIC AND GENERAL CLASSROOM SPACES.
 - RENOVATED THE ADMINISTRATION OFFICES, ALL CLASSROOMS, GYMNASIUM, AND KITCHEN.
- GEOTHERMAL HEATING AND VENTILATING, ROOFS, ELECTRICAL, FIRE SPRINKLERS, NATURAL TURF FIELDS, ONE SYNTHETIC FIELD AND A 1,000 PERSON STADIUM WITH PRESS BOXES























ELKAY
EZH₂O

Helped eliminate waste from

09015000

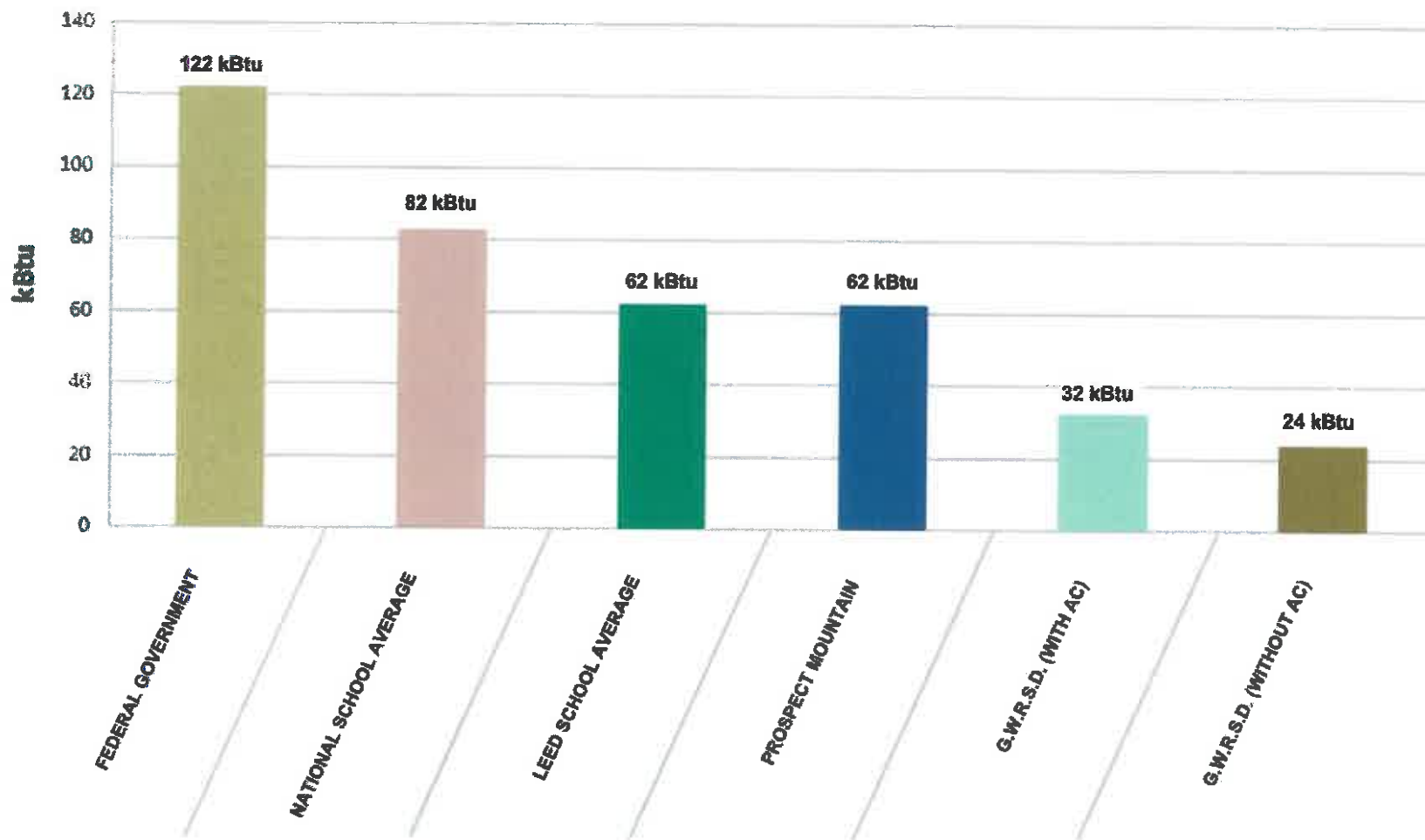
disposable plastic bottles

10.01.2012



09.14.2011

AVERAGE ENERGY USE



BID FORM

ALTON CENTRAL SCHOOL 2014

ALTON, NH

CONTRACTOR	BOND	ADDENDUM #1 #2 #3			BASE BID	Alternate #1	Alternate #2	unit price 1	unit price 2	unit price 3	unit price 4	unit price 5
BAUEN CORP	Y	Y	Y	Y	3,203,000	84.50	31.30	37	142	11	330	90
CCI	Y	Y	Y	Y	3,328,000	84.22	28.8	37.10	143	10	383	98
MERIDIAN	Y	Y	Y	Y	3,249,700	84	28	38.5	148	38	368	98
TURNSTONE CORP	Y	Y	Y	Y	3,210,000	95	39	39	150	15	261	26

Prospect Mountain low bid \$16,148,000 next bidder \$ 42,000 or .32% higher



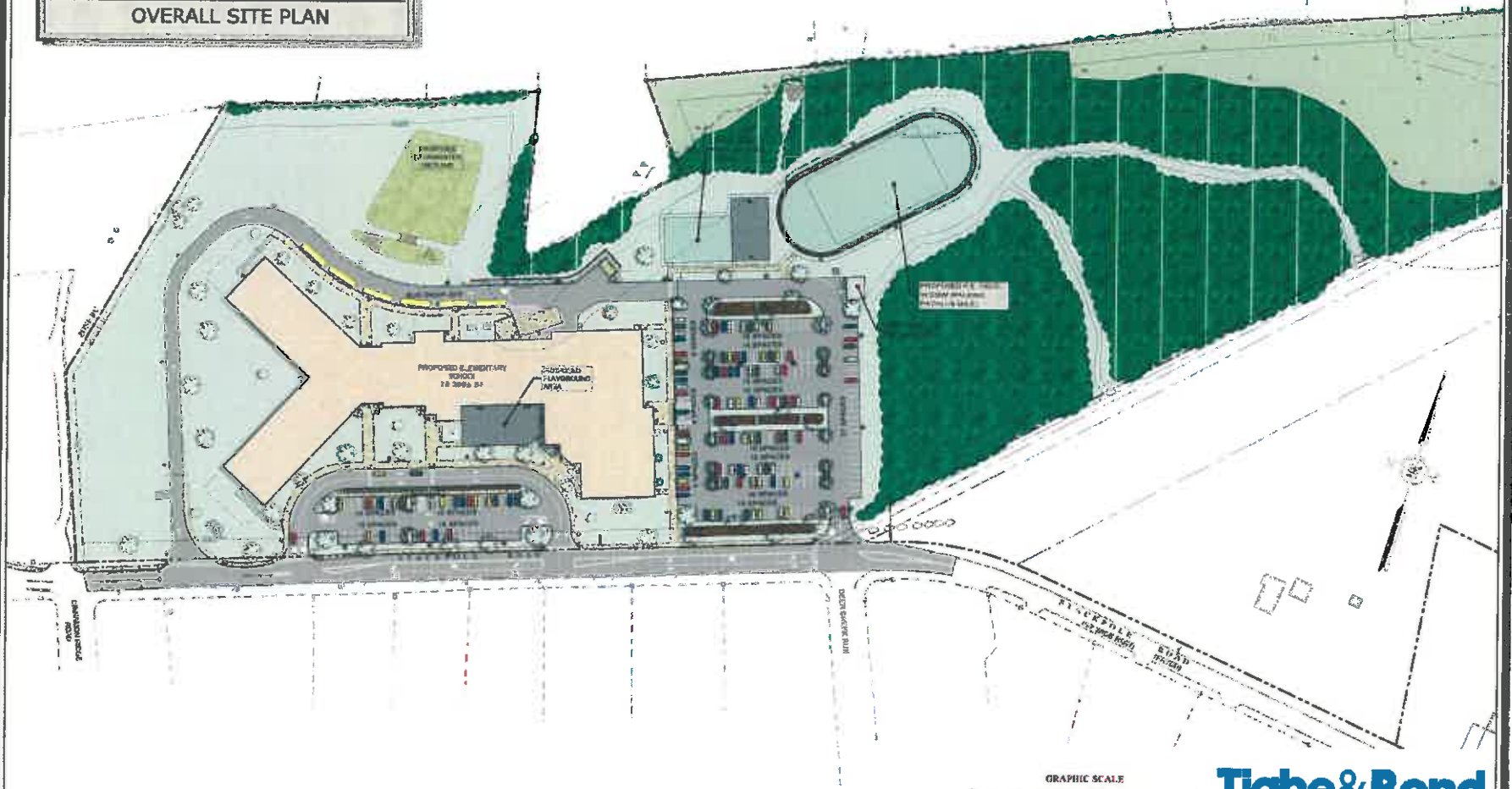
TIGHE AND BOND PRESENTATION

Tighe & Bond
Consulting Engineers
Environmental Specialists

ELEMENTARY SCHOOL

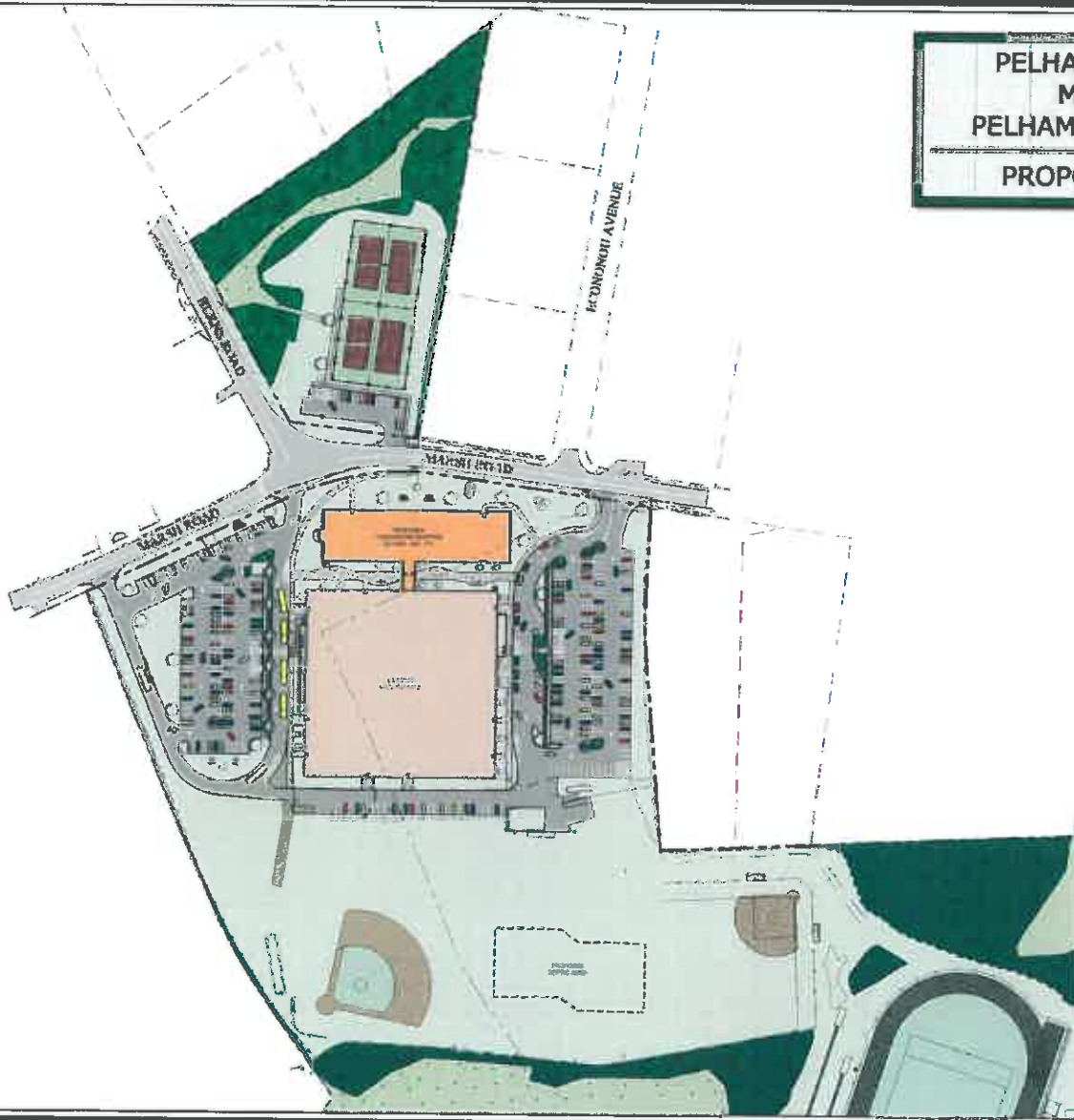
Stackpole Road
Somersworth, NH

OVERALL SITE PLAN



Tighe & Bond
Engineers | Environmental Specialists

**PELHAM HIGH SCHOOL
MARSH ROAD
PELHAM, NEW HAMPSHIRE
PROPOSED SITE PLAN**

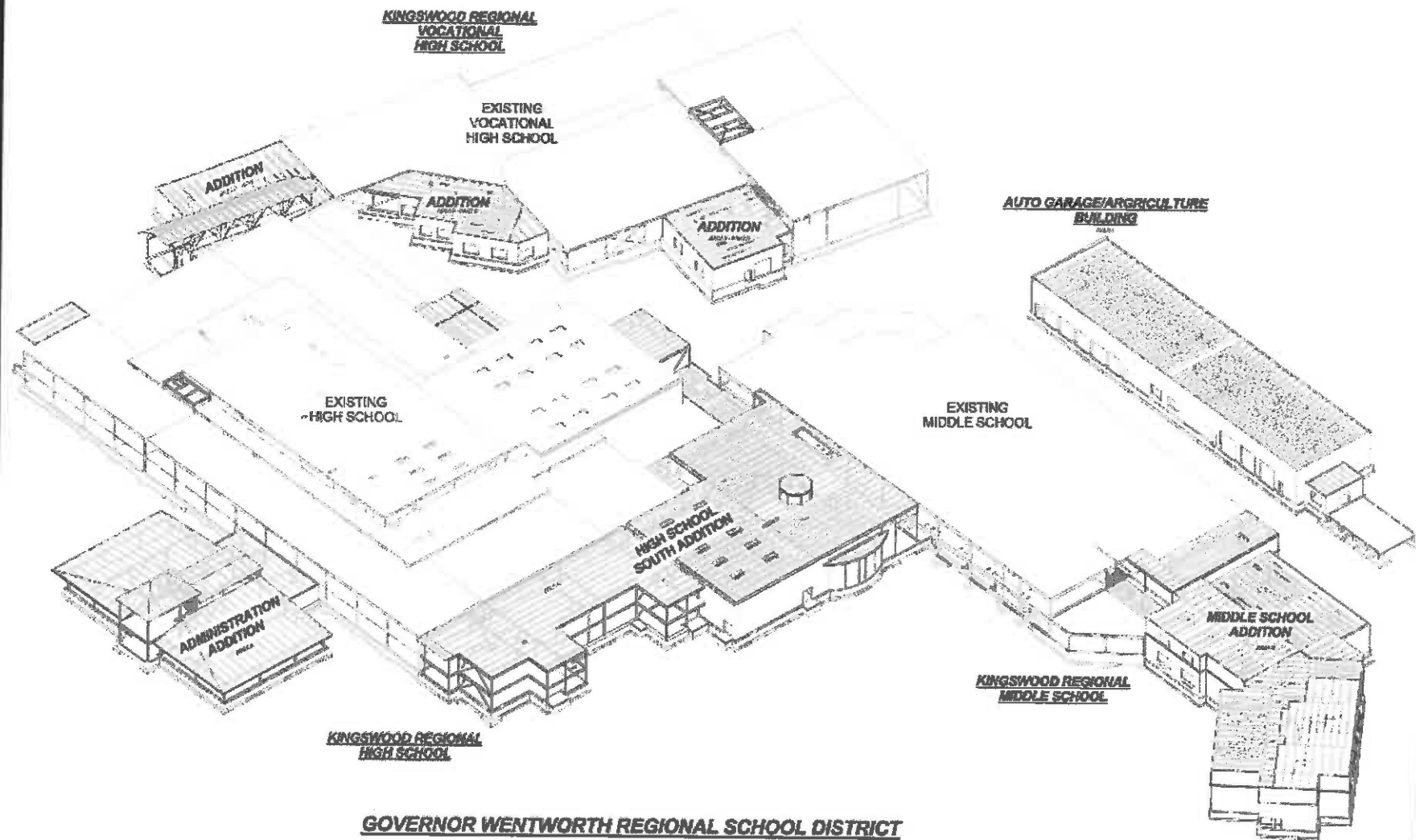


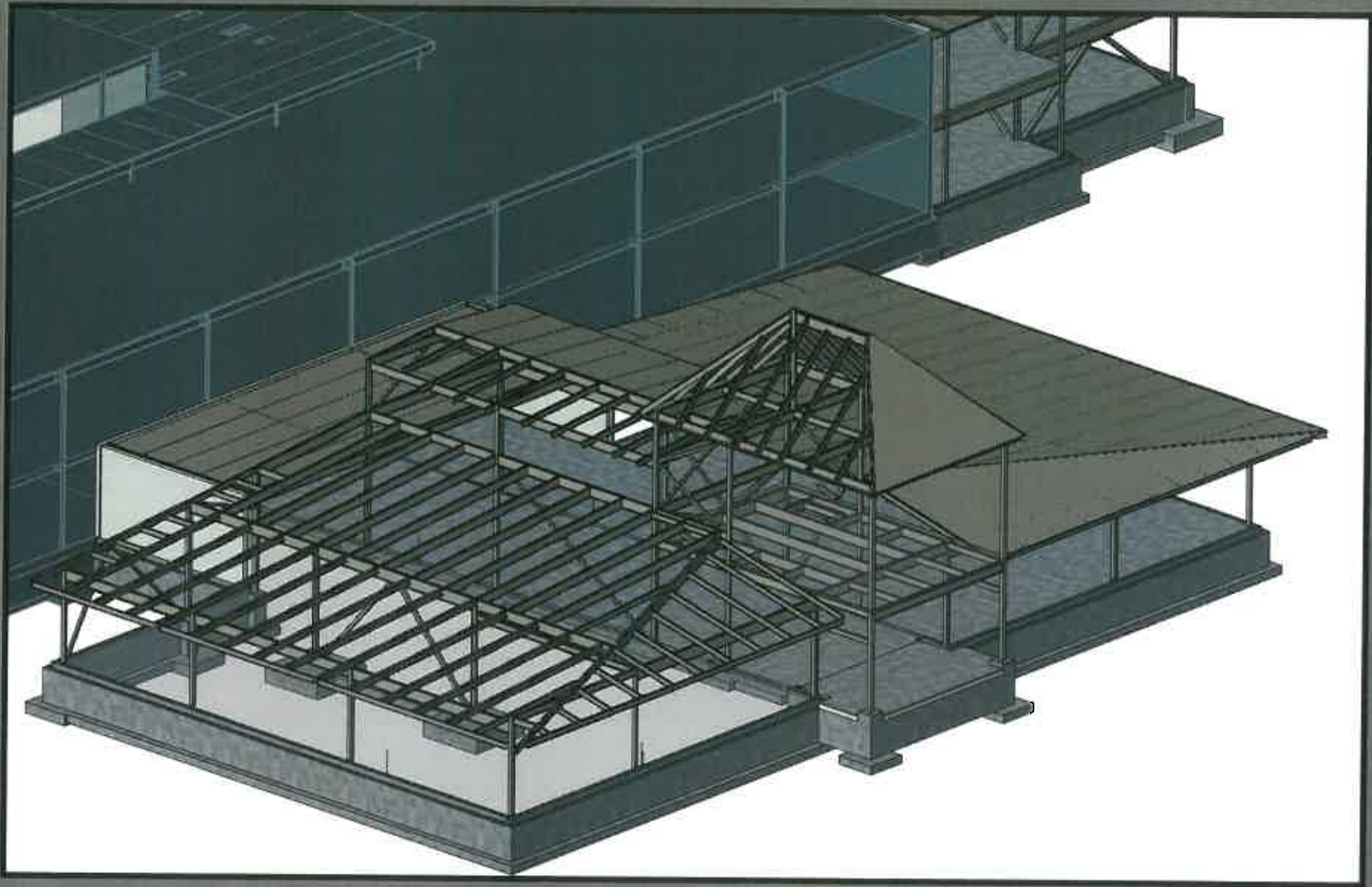
Tighe & Bond
Consulting Engineers
www.tigheandbond.com

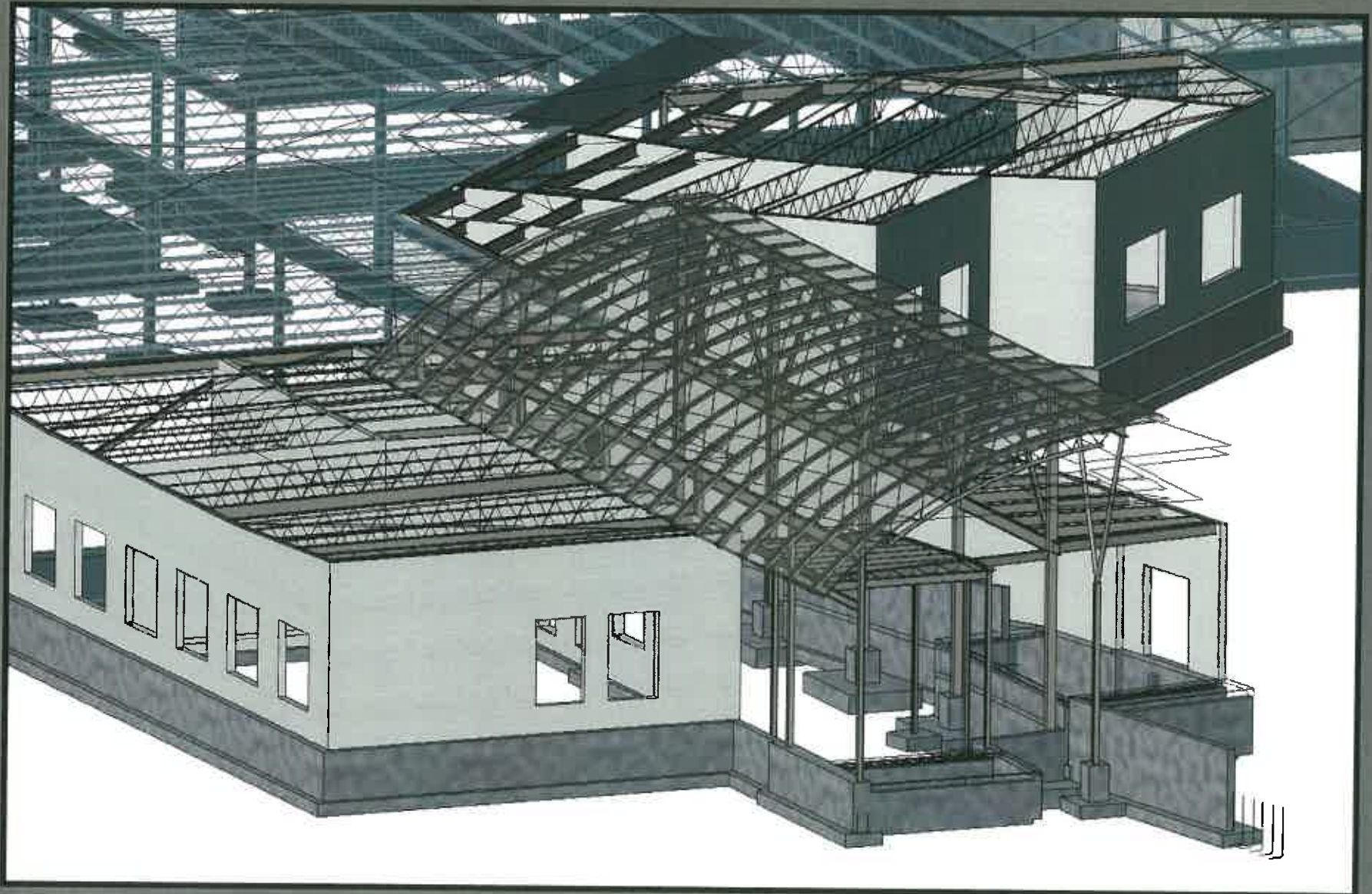
177 Corporate Drive
Parsippany, New Jersey 07054
(609) 431-0816
May 19, 2014 8:59:51 PM CDT

FOLEY BUHL ROBERTS PRESENTATION









YEATON ASSOCIATES, INC. PRESENTATION



YEATON ASSOCIATES, INC



Kingswood Performing Arts Center Completed

NH's Largest Geothermal Installation to Date



The Facility

The Kingswood Regional High School Campus, located in Wolfeboro, New Hampshire, serves the needs of approximately 1,000 students located in the communities of Brookfield, Eppingham, New Durham, Ossipee, Tuftonboro, and Wolfeboro, New Hampshire. March of 2009 was the starting point for more than \$60 million dollars in renovations and new construction on the campus, including the new construction of a 51,000 square foot Multi-purpose Performing Arts Center. The Performing Arts Center, which opened in December 2010, includes a 900 seat auditorium, classrooms for the music and fine arts programs as well as locker rooms for the new athletic fields.

Project Scope

Yeaston Associates, Inc. was secured to provide cutting edge, high performance mechanical, plumbing and sustainable design for the entire campus, including the Performing Arts Center. One of the primary criteria for this project was to eliminate the use of fossil fuels on campus. The building was designed and constructed to meet the energy efficiency and environmental standards of the Northeast Collaborative for High Performance Schools (CHPS).

Project Result

The master planning effort and energy initiatives for the \$60 million dollars in renovations and new construction led the team to conclude that a geothermal heating and cooling system was feasible, beneficial, and would achieve the energy initiatives outlined for this project. The result was the largest geothermal installation to date in the state of New Hampshire. The 800 ton capacity, closed loop, ground source geothermal heating and cooling system designed by Yeaston Associates, Inc. utilizes over 300 geothermal wells that are strategically located under the new athletic fields. This new system serves the entire campus, including the Performing Arts Center, High School, Middle School, and Vocational School.

The sustainable design concepts specifically incorporated into the Performing Arts Center include a water-to-water ground source heat pump plant, rainwater harvesting to address 100% of toilet water usage, demand control ventilation that adjusts based on occupancy per room and an energy recovery ventilation system. The Performing Arts Center was completed in December 2010 and is in the process of becoming NECHPS (Northeast Collaborative for High Performance Schools) certified.

166 Jackson St.
Concord, NH 03301

Phone: 603.444.6578
Web: www.yeastonassociates.com



Over 300 geothermal wells have been installed under the new athletic fields, providing a sustainable heating and cooling system for the entire campus. The system is designed to meet the energy efficiency and environmental standards of the Northeast Collaborative for High Performance Schools (CHPS).



The new athletic fields, including the Performing Arts Center, are served by the 800 ton capacity geothermal heating and cooling system. The system is designed to meet the energy efficiency and environmental standards of the Northeast Collaborative for High Performance Schools (CHPS).

166 Jackson St.
Concord, NH 03301

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The custom Systems provide a complete solution for all your industrial needs. This efficient system is designed to provide a complete solution for all your industrial needs. The custom Systems provide a complete solution for all your industrial needs. The custom Systems provide a complete solution for all your industrial needs.



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66 Jackson St
Limerick, NH 03541

Phone: 603.444.6576
Web: www.vest-northeast.com



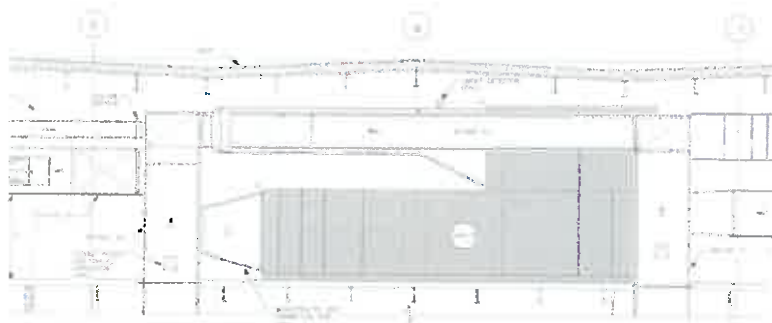
The custom Systems provide a complete solution for all your industrial needs. This efficient system is designed to provide a complete solution for all your industrial needs. The custom Systems provide a complete solution for all your industrial needs. The custom Systems provide a complete solution for all your industrial needs.



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MECHANICAL SPACE 201 SECTION

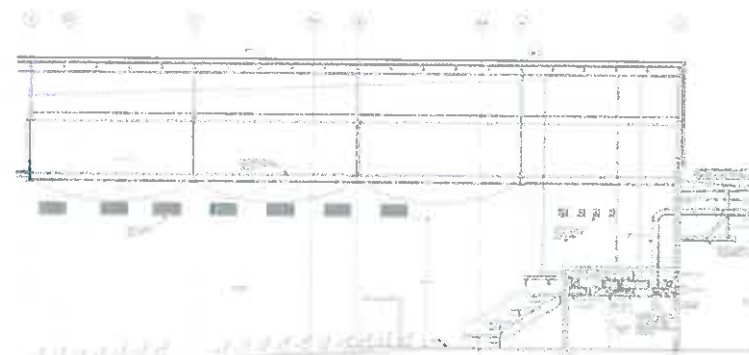
The auditorium is an outstanding example of modern design, featuring a 2,000-seat theater and a 100-seat Performance and Center.



The auditorium is a masterpiece of modern design, featuring a 2,000-seat theater and a 100-seat Performance and Center. The stage is a masterpiece of modern design, featuring a 2,000-seat theater and a 100-seat Performance and Center.

66 Jackson St.
Durham, NH 03824

Phone: 603.444.6578
Web: www.burke.com



AUDITORIUM LOBBY SECTION

The auditorium is an outstanding example of modern design, featuring a 2,000-seat theater and a 100-seat Performance and Center.



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66 Jackson St.
Durham, NH 03824

Phone: 603.444.6578
Web: www.burke.com



The building is heated with a high efficiency condenser gas furnace serving the boiler. The heating system also has a hot water loop used to circulate air conditioning water from the boiler to the air conditioning units. The water loop also provides hot water for the building. The water loop also provides hot water for the building.



The water loop is heated by a condenser gas furnace. The water loop is heated by a condenser gas furnace. The water loop is heated by a condenser gas furnace. The water loop is heated by a condenser gas furnace. The water loop is heated by a condenser gas furnace.

56 Jackson St
Lancaster NH 03541

Phone: 603 444 6376
Website: www.primetech.com



A solar water heating system has been installed on the roof of the building. The solar water heating system has been installed on the roof of the building. The solar water heating system has been installed on the roof of the building. The solar water heating system has been installed on the roof of the building.



The building has a condenser gas furnace. The building has a condenser gas furnace. The building has a condenser gas furnace. The building has a condenser gas furnace. The building has a condenser gas furnace.

56 Jackson St
Lancaster NH 03541

Phone: 603 444 6376
Website: www.primetech.com

Why CMK Architects?

- Years of Collective Experience
- Principal Involvement
- Repeat Clients
- Proponents of Collaboration
- Scheduling
- Quality Control
- Quality of Construction Documents
- Awareness of the Construction Market
- Advocate for the Owner