

Statement of Qualifications

State of Alaska
Request for Proposal 2015-0500-2849

A Report on the Benefits and
Disadvantages of Prototypical School
Design and Construction in Alaska



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Statement of Qualifications

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Procurement Officer's Note:
Pages 1 and 4-11 were removed.

6.02 Introduction

Positioned For Success

Nvision Architecture, Inc., in association with DeJONG-RICHTER, is pleased to provide the State of Alaska Department of Education and Early Development (DEED) a response to their Request for Proposal RFP 2015-0500-2849, to provide a Report on the Benefits and Disadvantages of Prototypical School Design and Construction in Alaska. The prime contractor for the project will be:

Nvision Architecture, Inc.
Contact: Bill Tatom, Managing Principal
1231 Gambell Street, Suite 400
Anchorage, Alaska 99501
Phone: 907-349-1425

The Nvision/DeJONG-RICHTER Team is excited about the opportunity to serve the State DEED and believe you will find our response thorough, well-organized and particularly adept in providing the qualifications necessary for your project report. We believe we have assembled the best suited team available in the state and will demonstrate an unmatched depth of knowledge and experience in all critical facets of the report requirements.

Our offer will comply with all provisions of the above noted RFP and can demonstrate the firm qualifies as an Alaskan Bidder. All submittals have been signed by a company officer legally empowered to bind the company.

We look forward to a favorable review and are confident you will find our team's strengths and qualifications sufficiently suitable to provide the state with an in-depth and comprehensively researched report.



Preparing College, Career, & Culturally Ready Graduates

"When it comes to the built-environment the best opportunity to serve the public is through providing responsive design and construction; accordingly, our team deems the moment a Community asserts to invest in it's schools, it demonstrates a tangible commitment to the success of it's own future."

Nvision/DeJONG-RICHTER Team



6.03 Understanding of the Project

Team Understanding of Purpose and Scope

The Nvision/DeJONG-RICHTER Team understands the state DEED would like to explore the Benefits and Disadvantages of Prototypical School Design and Construction in Alaska. We expect to provide a thoroughly researched and comprehensive report suitably defensible and authoritative to serve as a credible document for presentation to the Alaska State Legislature in response to House Bill 278, Section 52. To achieve this, our team has assembled a highly qualified group of professionals in response to the RFP. Included on the team will be the prime Contractor, Nvision Architecture, a well-established architectural office with a long history in the delivery of education projects across the state. Also included on the team is one of the most prominent and experienced research firms in the country, DeJONG-RICHTER. They will head the research leg of the project and will play a significant role in research development. To support the research, we have included a full complement of experienced design professionals to provide the necessary expertise to assist in the development and analysis of the project research.

In review of the RFP and Scope Description, we believe the State DEED has provided a thorough explanation of the project and agree with their assessment that in fact there truly is a broad spectrum of disciplines and components in school design. Our report will incorporate discussion regarding all major school related design systems, components, associated interactions and operational requirements. The Nvision/DeJONG-RICHTER Team has been assembled with these diverse needs in mind and are well positioned for that undertaking.

We also understand our role will be to incorporate a large cross section of Alaskan school districts, school personnel and educators as well as professional organizations, appropriate government agencies, student body groups and economists. We understand the state has requested we include as much "local voice" in our research as is practical to accurately reflect those who will be served through this report. We will meet regularly with the DEED to discuss the details necessary to both accomplish the desired objectives and strategies to how best meet the schedule and budget.

Nvision/DeJONG-RICHTER will be responsible to manage all logistics related to schedules, workshops, travel and the general administration of the project production. Both Nvision and

DeJONG-RICHTER are seasoned professionals confident in their abilities to rise to the tasks at hand, having managed numerous multi-million dollar education projects over the last several decades. We love challenge and find the proposed project well suited for our skill set and general firm personality. The ability to work with people in a way that encourages them to provide information relevant to the project scope and objectives will be vastly important. The Nvision/DeJONG-RICHTER Team has the skills necessary to retrieve the information needed and relate that information in an excellent way.

Project Issues and Potential Problems

Without these project "events", we will call them, life would be a bit boring. Nvision/DeJONG-RICHTER will be proactive in identification of both pertinent issues and potential problems that will benefit or possibly detract from the stated objectives of the project. At this time we anticipate challenges in the following areas:

- Creating relevant interest from school districts to actively and positively contribute to the task at hand.
- Identification of pertinent focus groups and accurate development of research questions that will generate measurable meaningful results.
- Managing of the logistics, schedules and travel for such a diverse group of people and regions.
- Management and focusing large numbers of people on a singular task as it relates to a diverse and complex subject.
- Time management will be critical.
- Systems and electronic failures are always a potential.
- Potential of Alaska weather to disrupt travel and workshop schedules.

As we continue to investigate and organize the project, our team will maintain a constant vigil to identify pertinent issues and problems. Nvision/DeJONG-RICHTER will always be in close contact with the DEED Project Coordinator to ensure full knowledge in the development of the project details.

Deliverable Expectations

Our Nvision/DeJONG-RICHTER Team understands that the ultimate deliverable is the final report to discuss the Benefits and Disadvantages of Prototype School Design and Construction in Alaska. All other deliverables are the services and preliminary tools/documentation necessary to responsibly and effectively deliver the final product. We expect to work closely with the DEED Project Coordinator early in the project to review project goals and objectives and to review our methodology and schedule timelines. Shortly after our initial meeting, we plan to have a proposed workplan detailing the array of anticipated events and project details to actually accomplish the bulk of the work, especially the research data gathering component. Our plan is to generate the initial work plan in less than 30 days. We believe there is need to expedite activities early in the project to minimize a rushed final product. The more we can accomplish early on, the more time we will have to focus on data analysis and accurate presentation of information gained.

Deliverables in the form of services like regularly scheduled meetings are understood. Our team believes strongly in communication and plans to stay in close coordination with the Project Coordinator. We see our efforts as highly relational between the Nvision/DeJONG-RICHTER Team and the DEED Project Coordinator because we will be in constant communication and will be attending meetings and workshops together.

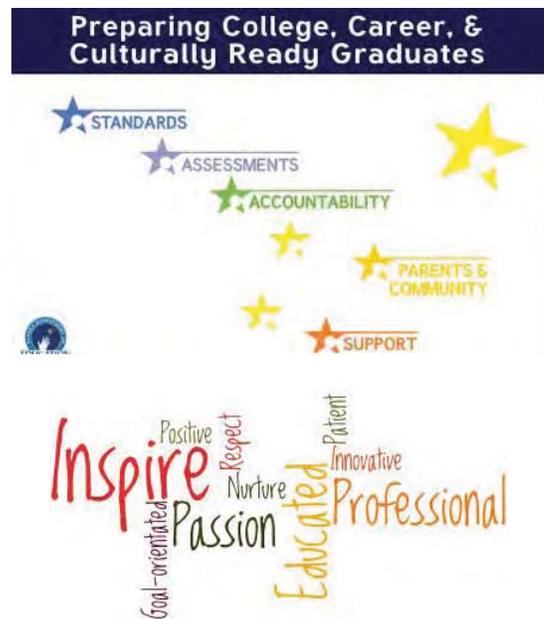
Towards the end of the project, multiple tangle deliverables such as those listed in the RFP (Table of Contents and Draft Report) are certainly expected and are appropriate intermediate products as we work toward the final report.

Timelines and Schedules

The final report is due May 29, 2015/June 1, 2015 and the RFP anticipates a NTP to start the contract around November 5, 2014. We have assumed a timeline shown later in the RFP that the project may not start until as late as November 15 of this

year. Anticipated final contract end is stated to be June 30, 2015 because there is an expectation that the team will be available to present findings before the State Legislature. We believe the proposed six month timeline is reasonable; however, there will be a need to organize and move quickly early in the schedule. The logistics related to the accumulation of data on such a diverse and immense scale is not to be taken lightly.

The Nvision/De-JONG-RICHTER Team intends to be fairly aggressive in the retrieval of this information. With the holidays facing us at the very beginning of the project, it will be mandatory to work quickly and efficiently to schedule workshops and to get research questionnaires distributed early. Urgency is nothing new in the design industry, so to us, quick turnaround and expedited schedules are part of daily life. We can assure the DEED our team is motivated and ready to move forward and will guarantee we can meet the proposed timeline.



6.04 Methodology Used for the Project

History

In order to help the State DEED provide the future vision for schools across the state; we must first identify the past, present, and surrounding context. From this we will be better equipped to deliver a clear-cut methodology to use for the project. Fortunately, no team can do this better than the Nvision/DeJONG-RICHTER Team because of our extensive history and working knowledge of school design and construction in the State of Alaska.

As identified in the RFP, the concept of using prototypical school designs and construction methods has been discussed in the past, but the study material on the topic is outdated. The most recent information on the subject is presented in the report "Use of Prototype Designs in Public School Construction Projects", which was written in 1998. The objective of the report was to provide comprehensive information of using prototypical school design and construction with the State. Because of the outdated research on the topic, it is understood that this is the reason why the State DEED is looking for an up-to-date study on the Benefits and Disadvantages of Prototypical School Design and Construction.

Geography, Climates and Demographics

It is understood there are 53 school districts serving approximately 130,000 students in 500 schools spread out across the state of Alaska. Because Alaska is so vast, our team understands that school districts vary in terms of enrollment, size and geographic locations. All of this is vital information to our team's research and how we plan to complete the study.



We also recognize that climatic regions play a major role in the development of our team's research and methodology. There are six climatic regions spread across the state that are typically identified as the Western Maritime (Aleutians) the West Coast, Southcentral, Interior, Eastern Maritime (Southeast) and the Arctic. All of these different climatic regions require unique engineering and design considerations. As stated later in our proposal, the team assembled for this DEED project brings a great depth of experience working in each distinct region.



Because of the vast geographical layout of Alaska, not only are climate regions a concern, but culture also plays a major role. Across the state there are six cultural regions identified as the Inupiaq, Athabaskan, Yup'ik/Cup'ik, Aleut, Alutiq and Southeast Regions. As with any culture, community is highly valued. Therefore, our team understands that schools often serve as centers of community activity. Knowing this provides a greater understanding for development of the study.



Plan for Planning

Prior to the kick-off of the study on the Benefits and Disadvantages of Prototypical School Design and Construction in Alaska, our team will facilitate a plan for planning work session (objective clarification session) with the Alaska DEED administration to ensure that there is clear agreement on the objectives and the process to be implemented. The purpose of this initial meeting is to gain an understanding of the mission and function of the Nvision/DeJONG-RICHTER approach.

The plan for planning work session will be held to ensure that expectations of the project are understood and there is consensus on the process to be implemented. At this meeting we will discuss roles, functions, responsibilities, anticipate issues, and prepare for the project roll out.

Data Gathering and Preliminary Research

The Nvision/DeJONG-RICHTER Team is strategically structured to provide a nationally recognized planning/research firm with a well-established Alaska based Architectural firm with exceptional educational facility expertise.

The national presence of DeJONG-RICHTER has allowed them to develop close affiliations with internationally recognized organizations such as the Council of Educational Facilities Planners International (CEFPI) and the Council of Great City Schools (CGCS). These affiliations have allowed participation and access to national data and research for many subject matters in education. As a resource DeJONG-RICHTER also has countless relationships with Architect, Engineering, Construction and Program Management organizations all over the country that work with school districts that utilize prototype building strategies in their capital improvement plans.

The research our team plans to complete will analyze not only the benefits and challenges of school prototype design from a State, and Local perspective but will compare that to national trends. To the extent of data available, the research will focus on cost, time, and educational impacts of prototypical school design. Our team has an extensive community outreach background and as a result has conducted countless on-line surveys to reach out to groups from a broad geography. Our team will create surveys specifically to engage different stakeholder groups in an effort to get subject matter perspective and data from local school districts, state level department's of education, and private industry (Architects, Engineers, CM, PM).

As we develop surveys, it will be imperative for each of our team members (Nvision, DeJONG-RICHTER, DEED Project Coordinator, A/E Design Consultants and identified Specialists) to collaborate and share ideas. Individual expertise, depth of knowledge and diversity of the complete team will enrich our survey development. We expect to meet as a group to examine

the many unique facets of prototype development in such an incredibly diverse environment as Alaska.

Tapping the valuable resources assembled in the greater project team, Nvision/DeJONG-RICHTER will be able to more specifically shape and customize surveys to fit the environment with which we are all most familiar. Through DeJONG-RICHTER's perspective and knowledge of survey development, the Alaska based team's voice of experience can be filtered into effective and meaningful research material. With surveys enriched with the voice of seasoned experience, the DEED can expect to have meaningful results useful in the context of prototype design in Alaska.

Community Forums

Our approach will create a local platform for research and discussion in all identified geographical regions of Alaska. Our team will conduct 1 to 2 day conferences in five regions of the state that will allow local school districts and Boroughs to physically participate in this research. The conferences will provide an opportunity to share with local districts and Boroughs preliminary findings of the national research conducted and allow for structured discussion from District perspective experiences and/or data for prototype school facilities. This forum will also allow school construction contractors and design professionals from that region to attend and share experiences and data from previous and current projects.



We recognize that districts and contractors face many challenges when trying to attend forums like this, including costs, time, etc. Therefore, our team will also utilize technology to allow these regional conferences to be virtually attended in webinar or teleconference presence. Our team will explore opportunities for participants to acquire continuing education credits or professional development credits through organizations such as AIA and CEFPI for attending these forums.

Research Findings

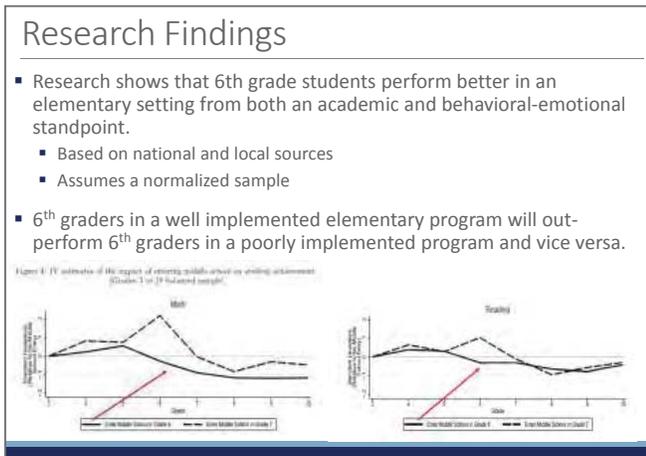
The Nvision/DeJONG-RICHTER Team will coordinate regularly scheduled meetings with the State DEED. The purpose of these meetings will be to collaborate on the research findings and shaping the report to meet the overall objectives of this study. Our team believes that by conducting these meetings frequently, the research will meet the goals the State of Alaska is striving to achieve.

Early meetings will be structured around the content and goals of the National, State, and Local surveys that will form the baseline information of our research. These meetings will focus on how and what type of information we collect regarding cost benefits, scheduling benefits and educational benefits of prototype school facilities. We will also discuss how we approach questions discussing the challenges of prototypical design.

As the survey and research results are collected and finalized, meetings will focus on how the results are structured and will be reported. These meetings will also be critical to collaborate on how these results will be included into the local community forums that we will conduct throughout the State.

Our team will provide real time results as the community forums are conducted by communicating attendance and results from each of the community forums with the State DEED. We expect the DEED Project Coordinator will be present at these forums and that they will be an active participant and will continue with us in a collaborative approach during the process.

As the research, data collection and community forums progress, it will be critical to regularly meet with the State to collaborate as to how this information continues to meet the needs of the research objectives. We hope to meet after each forum to assess lessons learned, to review data obtained and to determine what, if anything, may need to be modified or refined to make the next forum more effective. These meetings will consider format, prioritization of key findings, and how this research will be delivered to the State of Alaska Legislation.



Methodology Interface with Schedule

Nvision/DeJONG-RICHTER understands the State DEED wants to ensure the methodology discussed is capable of being executed within the timelines expressed in the RFP. Our methodology relies on the following key components:

- Work plan development, planning, scheduling
- Survey development and distribution
- Community forums, team meetings and data retrieval
- Report development, refinement and completion

We expect to spend a month to six weeks in administrative planning and development, three months in data retrieval and a month to six weeks in data analysis and report finalization. Nvision/De-JONG-RICHTER believes this is a reasonable schedule and is committed to do what it takes to get the State DEED to where they need to be by June 1, 2015. The methodology of production proposes use of both electronic and person-to-person data development and retrieval. We believe there is sufficient flexibility in this approach to accomplish the work in a professional and well-documented manner.

Regional Impact on Prototype Development

The Nvision/DeJONG-RICHTER team is keenly aware of the state's regional diversity and the potential impact it will have on prototype development. It has been a topic of discussion almost from the time we first examined the RFP. Given the vast geographical, cultural and climatic differences in the six primary regions of Alaska, we already anticipate there will be a need for different responses to certain components of the prototype structure. For example:

Foundations:

Permafrost vs. non-permafrost.

The approach to structural design will be a completely different design depending on whether the ground is permanently frozen or not.

Peat vs. gravel. Similarly the wide variety of soil conditions will also generate vastly different foundational approaches.

Mechanical Systems:

Southeast vs. Arctic. These regions have such extreme differentials in climatic conditions, it seems unlikely that a universal "prototypical" system will accomplish acceptable results for either region.

Through carefully constructed surveys and intentionally focused distribution to specific target audiences, data can be retrieved that will shed light on examples such as these from people who have vested interest and experience in how the practical everyday building components are assembled. Whether it be within “pull out groups” within community forums or groups reached through web based resources, we recognize regional differences are an important component to be individually studied.

Important within the discussion of regional impact of prototype development is the influence of design related to **urban vs. rural** environments. Major differences between these two “regions” have significant impact on key issues like:

- Readily available construction materials
- Delivery of construction material to the site
- Maintenance, availability of parts
- Availability of qualified service related to repairs

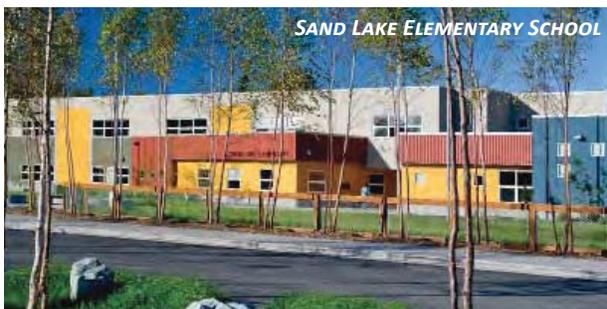
These differences may significantly impact an approach to prototype design. Similar to addressing regional differences, report development methodology will focus specific attention to the development and retrieval of data related to these issues. The Nvision/DeJONG-RICHTER team has been formed with these nuances in mind. Our A/E design team in particular, complemented by construction/contractor specialists will be instrumental in developing specific criteria to address these very necessary differences in the Alaskan landscape.

Deliverables and Presentation

Our team will conduct at a minimum twice-monthly either face to face and/or virtual meetings with the State Department officials. These meetings will include agendas, documentation of progress, and follow up meeting minutes.

Our team will also be available for legislative updates as requested.

Although the research will include a broad data set from all regions of the country, the results should focus on the impacts to local Alaska Districts. The intent is that this research will be broadly published and be utilized as an effective tool in decision making for all stakeholders involved in funding and constructing school facilities. Therefore we will create both printed material and technology access to the findings. A key to the distribution of the research will be to maintain record of participants who involved themselves in surveys and attendance at the community forums. Deliverables will also include documentation of all stages of the research project.



6.05 Management Plan for the Project

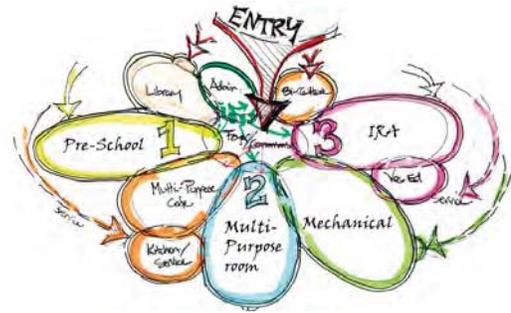
Management Approach

To ensure a cohesive project approach as well as ensuring the State of Alaska DEED that the Nvision/DeJONG-RICHTER Team can successfully deliver well-managed resources and excellence in scheduling and project deliverables, we have developed a strategic management approach. With Nvision taking the team management lead, it will be very important for DeJONG-RICHTER to take on the primary research lead. Our management plan is based on a co-managed effort with Nvision taking a more administrative role.

DeJONG-RICHTER will develop all pertinent research and data retrieval strategies and will closely coordinate the specific needs related to that research with Nvision. DeJONG-RICHTER will also develop the initial work plan and proposed target groups that is believed to be relevant to the primary report data. In association with Nvision and the DEED, these plans and target groups will be conceptualized and confirmed. Nvision will disseminate information to the architectural/engineering team consultants as well as our specialty consultants identified under this section. All consultants will communicate directly through Nvision who will relay necessary information to the lead managers with DeJONG-RICHTER and DEED. Our vision of management will be developed to ensure that our research lead and DEED can maintain focused attention on the final report objectives and that all deliverables can achieve the desired results required by the DEED.

Nvision will manage the team activities, coordinate directly with DeJONG-RICHTER and the DEED. It will also be Nvision's role to manage not only the team of consultants but to coordinate with individual school districts, organize research conferences, handle logistics related to conference and seminar activities and to act as a filter to disseminate all pertinent information requested by the research lead and the State DEED.

While we plan on utilizing and managing the specialty consultants in similar fashion as the A/E design team consultants, we plan on bringing Kathy Christy a little more to the forefront in the management plan. Her unique credentials lend to a comprehensive understanding as to how projects are developed and funded within the state. Her experience in prototype design with the largest school district in the state, Anchorage School District (ASD), provides an extraordinarily pertinent perspective in light of this project. Combined with the fact that Nvision was the architectural firm that developed the prototype for the ASD

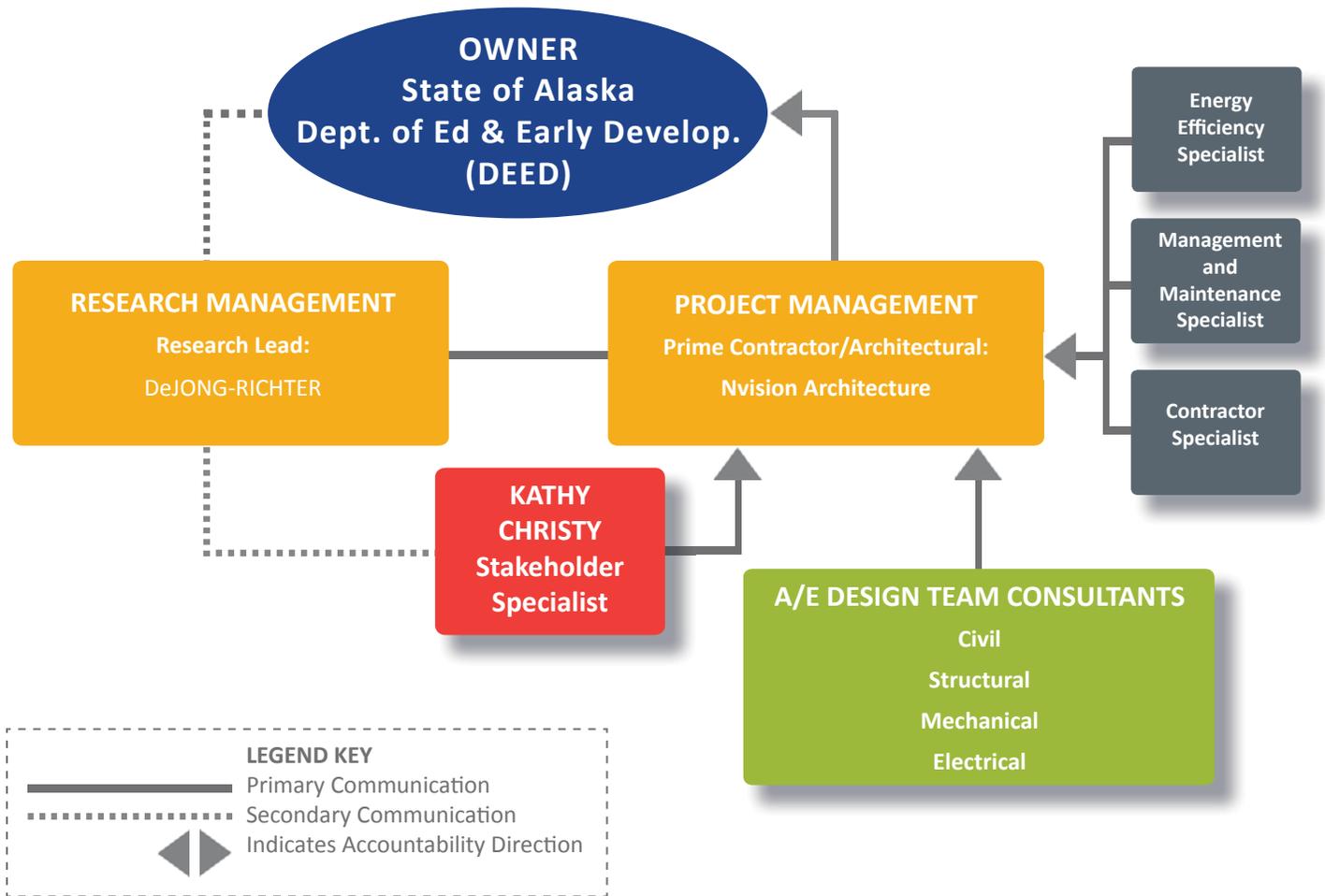


on her watch, a combined management effort including Ms. Christy as an integral part of the Nvision management lead will equip our team to provide the DEED the best product available.

The Nvision management plan will equip the Design Team with expertise in every facet of the anticipated scope of work. We will involve each team member not only in their specific area of expertise, but in the development of questionnaires, the analysis of data and in the formulation of the final report. Each specialized group will be empowered and encouraged to challenge findings and to contribute to solutions. We want to be clear, however, that all groups will report findings through the expertise of the DeJONG-RICHTER research filter and ultimately approved by Nvision and the state DEED to be incorporated into the final report. There will be a constant hand-in-hand cooperative effort between Nvision and DeJONG-RICHTER with respect to final information to be included in the report. We see the effort as mutually forwarded with Nvision being singularly responsible.

To illustrate our lines of authority and communication, we have developed a diagram which will provide a clear understanding of our management plan.

Team Management Strategy Plan

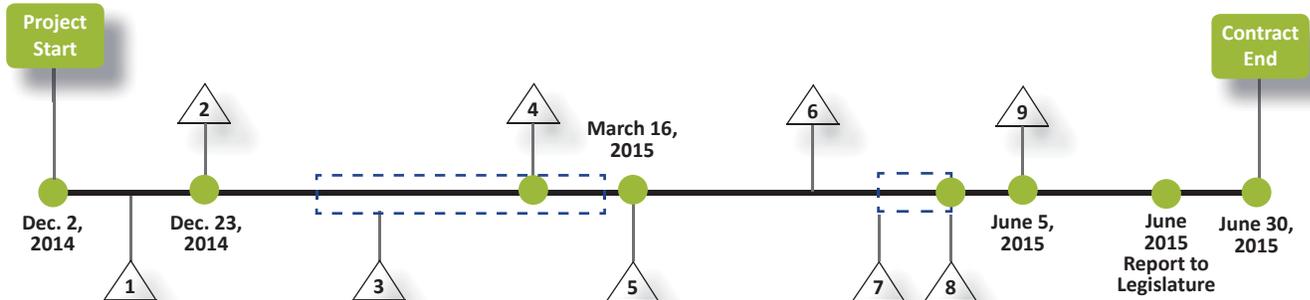


Resources

Nvision has provided a full range of architectural services for over 30 years. To be able to fully serve our clients we have been conscience to make sure we have the appropriate tools to service our clients professionally and efficiently. We have a full compliment of computers for all staff with the appropriate software programs to produce drawings (AutoCAD), reports Microsoft Word, In-Design), spreadsheets (Excel) and the tools to create and produce hard copies of any and all documents both in drawing and written report format. Our office supports two high speed copier/scanners, full color laser printers, inkjet printers in black and white and two full color inkjet plotters for full size architectural documents. For the production of the anticipated reports for this project, our color printers, copiers and binding machines will be the fundamental equipment utilized.

Important to note, and something we are quite proud of, is our fully electronic conference room with large format “big screen” monitor, remote conferencing abilities and the ability to provide skype consultation all at our fingertips. Our ability to talk “face to face” via electronic format, while may not be quite the same as “person to person”, has its place and certainly can be utilized economically and effectively when communication by means other than email and by phone may not measure up. Nvision thrives on personal relationship and one-on-one in person communication and we try to make that happen as often as possible but our electronic conferencing capacity may be the next best thing. Given the magnitude and geographic obstacles in this project, we anticipate making good use of our electronic conferencing as much as is practical and only when real time personal interface is impractical.

Project Schedule



Milestones:

- | | | | |
|---|---|---|---|
| 1 | Send out Questionnaires to Target audience (December 16) | 5 | Finalize Table of Contents for Report |
| 2 | Submit: <ul style="list-style-type: none"> Detailed Work Schedule Detailed Travel Schedule Detailed Work Plan | 6 | Finalize Data Analysis and Start Draft Report |
| 3 | Conduct Workshops with Target Interest Groups around Alaska. <ul style="list-style-type: none"> Assume 6 - 8 Workshops over an 8 Week Time Period. Collect Questionnaire Data | 7 | Draft Report and Discuss Review. (May 15, 2015) |
| 4 | Completion of Workshops | 8 | DEED Review Complete |
| | | 9 | Submit Final Report |

Dealing with Potential Obstacles

There are always challenges in a project. Let's face it. If it were easy, the client would not need to hire a professional. This project will be no exception and it is wise to identify potential difficulties early on. For each potential obstacle below, we have identified a proposed solution for your consideration. To be clear, we have limited our discussion to obstacles that we believe have a reasonable degree of opportunity to present themselves.

Conference Travel The sheer size and quantity of districts and number of people that we will want to hear from presents its own unique challenge. Our plan is to meet face to face with as many district representatives as practical by bringing them to several common venues from all over the state. Obviously weather, busy schedules, availability of accommodations and air travel will be potential logistical obstacles. We anticipate resolving "glitches" to our plans through electronic communication. This can be achieved by teleconferencing at the time of an actual conference for a later pre-arranged time here at the Nvision Anchorage office. We also anticipate the use of webinars.

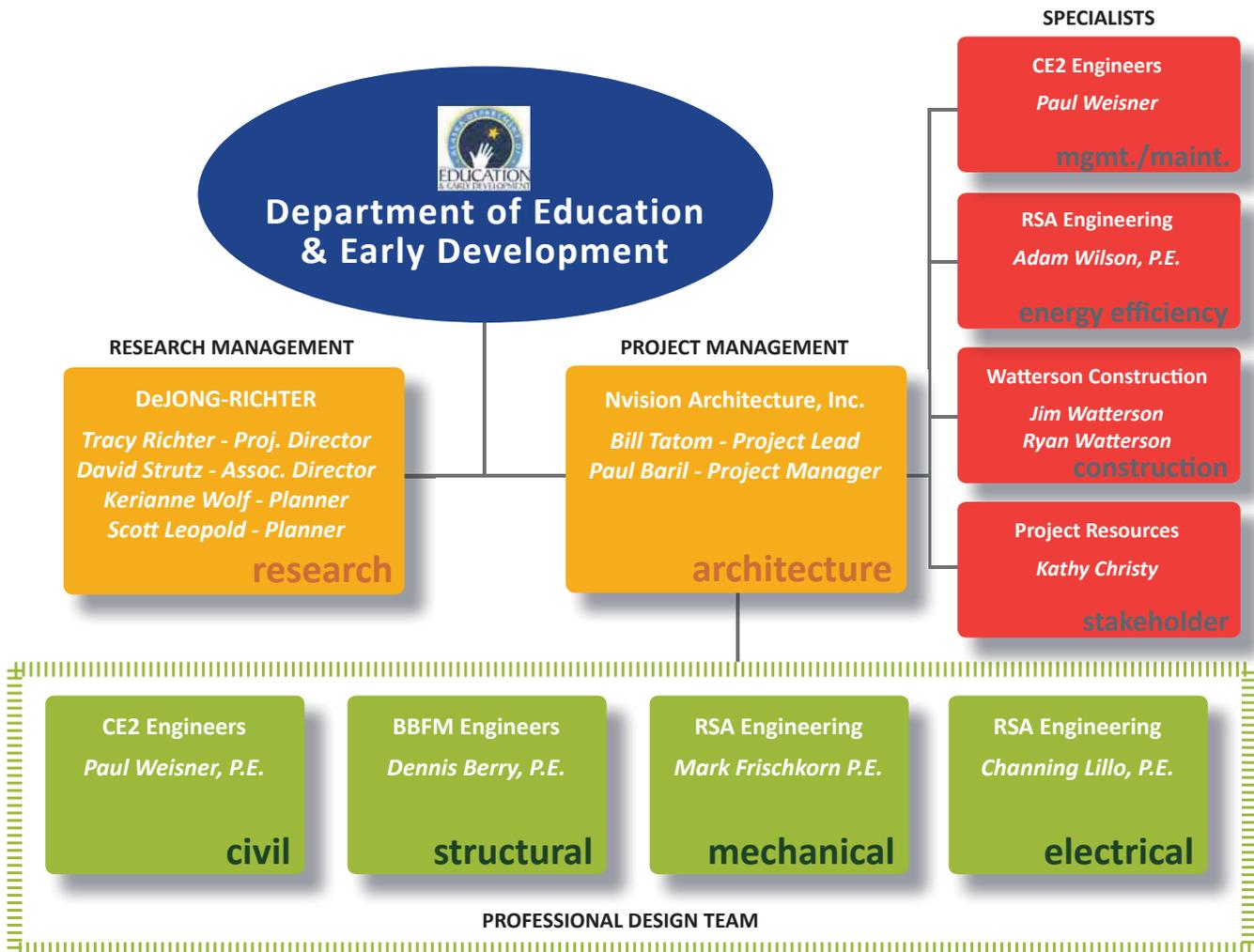
Electronic Failure As much as we depend on electronic communication, failure of our machines is an inherent potential obstacle. During conferences we would always have duplicate equipment and plan testing and set-up well in advance of an event. Additionally, we would be carrying printed material of any information that was to be conveyed electronically. We would be able to distribute physical copies of all material that could not be displayed electronically. Printed material would be distributed regardless and would serve to reinforce electronic presentation and would be a "take away" product as well.

Human Factor We anticipate the topic of a "state generated prototype school" could potentially be controversial. Given that we will be trying to gather input from a representative cross-section of our statewide community, we believe it is reasonable to think that there may be some negative reactions to the idea. Our position would be to let people know that the report is to gather data and to report on the benefits and disadvantages and to reassure them we are not making recommendations whether or not prototype design(s) should or should not be implemented. Our strategy will be to listen, record and present the facts in the report.

6.06 Experience and Qualifications

Team Structure

The Nvision/DeJONG-RICHTER Team is a group of diverse and highly specialized consultants specifically united for one purpose: to provide the Alaska State DEED a meaningful and useful resource in the form of a report to enable them to accurately assess the benefits and disadvantages of utilizing prototypical educational facilities in the 53 school districts around the state. Our team has been assembled in context to the specific needs expressed in the RFP and to provide unique and comprehensive insight into the unique character of prototype development. Thoughtful consideration has been given to the professional qualifications necessary to manage and develop a credible report to submit to the Alaska Legislature. Of significant importance is the ability to support project demands and to professionally deliver the necessary product. The Nvision/DeJONG-RICHTER Team is comprised of different specialists that have been determined essential to deliver a thorough investigation and report. The following Organizational Chart demonstrates not only our team of consultants it also designates specific individuals for each consultant specialty. Each designated individual will be the person accountable and responsible for their area of expertise. As noted in the management plan all of the professional A/E design team and the designated Specialists will report to and through the Project Management and Prime Contractor, Nvision Architecture, who will closely coordinate with the Research Lead, DeJONG-RICHTER. Nvision will be ultimately responsible to deliver all contract work products, deliverables and final report.



Team Members

For each person designated on the Organizational Chart, we have included resumes in the appendix section of the proposal. However, we believe a brief synopsis would help to assist the DEED in formulating an “at a glance” overview of the experience being proposed for your project. The following table further defines and clarifies the lines of authority and responsibilities assigned to each team member. The project team will be organized in a way that will create a useful link between the Research Lead and the Team as well as the Project Management and the Team. Whereas the Project Manager will provide the overall leadership to assign tasks and to ensure the work plan is administered in a logical and coherent manner, the Research Lead will be key in coordinating what specific tasks are crucial to obtaining pertinent data for the final report. The professional design team consultants and the contributing specialists will be called up to assist both the Project Manager and Research Lead in questionnaire development, research analysis and to contribute both in sharing expertise in prototype development from their unique vantage point and to write specific sections of the report.

Team	Relevant Experience*	Project Responsibility	Deliverable	Hours/Cost**
Prime Contractor Architectural: Nvision Architecture				
Bill Tatom Residency: Alaska Registration: A-6230 Years Experience: 37	<ul style="list-style-type: none"> ASD Prototypical School Development Ed Spec Program Development ASD Detailed Project Analysis Reports CRSD Glennallen High School LKSD 23 School ADA Upgrd 	Project Lead: Project Manager, schedule development, research development, conference/ seminar co-lead, data analysis, quality control, coordination with DEED	Work plan coordination, meeting reports, final report	320 hours
Paul Baril, AIA Residency: Alaska Registration: A-13861 Years Experience: 15	<ul style="list-style-type: none"> ASD Detailed Project Analysis Reports LKSD 23 School ADA Upgrd Mat-Su Borough New School AVTEC Culinary Arts Training Facility and Dormitory 	Project Manager: A/E design team manager, research development, report contribution, coordination with DEED, logistics coordinator	Work plan coordination, meeting reports, final report	220 hours
Research Lead: DeJONG-RICHTER				
Tracy Richter Residency: Ohio Years Experience: 13	<ul style="list-style-type: none"> Kodiak Borough Schools High School Educational Specification Valdez City Schools New Middle School Educational Specifications 	Project Director: Research development, facilitate community forum, primary contact to DEED, legislative presentations	Progress reports and final report	314 hours
David Sturtz Residency: Ohio Years Experience: 2	<ul style="list-style-type: none"> Anchorage School District 6th Grade Placement Study Arlington ISD Facilities Master Plan and Educational Specifications 	Associate Director: Research lead, research development, facilitate community forum, assist with legislative presentations	Progress reports, research updates, community forum results and final report	476 hours
Kerianne Wolf Residency: Ohio License: K12 Gifted and Talented Teacher Years Experience: 10	<ul style="list-style-type: none"> Valdez City Schools New Middle School Educational Specifications Central Consolidated Schools Educational Specifications 	Planner: Data collection and analysis, community forum material preparation, report production	Community forum result reports, research updates, and final report	126 hours
Scott Leopold Residency: Ohio Years Experience: 8	<ul style="list-style-type: none"> Anchorage School District 6th Grade Placement Study Fort Bend ISD Facilities Master Plan 	Planner: Data collection and analysis, community forum material preparation, report production, GIS mapping	Community forum result reports, research updates, GIS maps and final report	126 hours

* Please refer to the appendix for a close up and personal look at the particular expertise and strengths of each team member

** Cost included in separate, sealed envelope

Team	Relevant Experience*	Project Responsibility	Deliverable	Hours/Cost**
Civil Building Management & Maintenance Specialist: CE2 Engineers				
Paul Weisner, P.E. Residency: Alaska Registration: CE-10276 Years Experience: 32	<ul style="list-style-type: none"> • Director and Assistant Director of Property Services, Northwest Arctic Borough School District • Maintenance Foreman Northwest Arctic Borough School District 	Civil Engineer & Specialist: Assist in research development, civil design consultation, management and maintenance input	Final report contribution	38 hours
Structural: BBFM Engineers				
Dennis Berry, P.E. Residency: Alaska Registration: A-6230 Years Experience: 37	<ul style="list-style-type: none"> • Two elementary school prototypes for the Anchorage School District • Prototype design for Mat-Su Borough School District • Structural design for North Slope, Bering Strait, Lake and Peninsula, North Star Borough and Sitka School Districts 	Structural Engineer: Assist in research development and structural design consultation	Final report contribution	38 hours
Mechanical and Electrical Energy Efficiency Specialists: RSA Engineering, Inc.				
Mark Frischkorn, P.E. Residency: Alaska Registration: ME-8975 Years Experience: 24	<ul style="list-style-type: none"> • Little Diomed School Remodel • Skagway School Sprinkler Upgrade • Savoonga New School Design • Selawik School Addition 	Mechanical Engineer: Assist in research development and mechanical design consultation	Final report contribution	38 hours
Adam Wilson, P.E. Residency: Alaska Registration: 1618 Years Experience: 10	Energy Auditor for: <ul style="list-style-type: none"> • Comprehensive Audit of Stebbins K-12 School • Shaktoolik K-12 School Major Remodel/Addition 	Energy Efficiency Specialist: Assist in research development and energy efficiency design consultation	Final report contribution	38 hours
Channing Lillo, P.E. Residency: Alaska Registration: EE-10285 Years Experience: 19	<ul style="list-style-type: none"> • Coffman Cove Howard Valentine School • Dillingham Elementary School Renovation • New Valdez Middle School 	Electrical Engineer: Assist in research development and electrical design consultation	Final report contribution	38 hours
Stakeholder Specialist: Project Resources				
Kathy Christy Residency: Alaska Years Experience: 30	<ul style="list-style-type: none"> • Provide planning, design and construction management services to NWABSD, Yukon Koyukuk School District, Lake and Peninsula School District • Capital Projects Manager, NWABSD • Director of Facilities, ASD 	Stakeholder Specialist: Assist in research development, data analysis and assessment and stakeholder coordination	Final report contribution	54 hours
Contractor Specialist: Watterson Construction Co.				
Jim Watterson Residency: Alaska Years Experience: 43	<ul style="list-style-type: none"> • Kodiak High School • Girdwood K-8 School • Randy Smith School, Fairbanks • Chester Valley Elementary 	Contractor Specialist Lead: Assist in research development and contractor perspective	Final report contribution	38 hours
Ryan Watterson Residency: Alaska Years Experience: 11	<ul style="list-style-type: none"> • Nordale and Denali Elementary Schools, Fairbanks • Kodiak High School • Girdwood K-8 School 	Contractor Specialist Associate: Assist in research development and contractor perspective	Final report contribution	38 hours

* Please refer to the appendix for a close up and personal look at the particular expertise and strengths of each team member

** Cost included in separate, sealed envelope

Added Value “Stakeholder’s Eye”

While we believe all selected team members will be instrumental in developing a comprehensive report on prototype schools, we believe our team has an added value by bringing what we call a “**stakeholder’s eye**” to the process. Not identified in the RFP as a suggested professional member for the research team, the Nvision/DeJONG-RICHTER Team is adding a unique perspective by also including team members that have seen school development from an owner’s perspective.

Kathy Christy, Project Resources

For over 30 years Kathy Christy has been an integral part of the in the development and implementation of Capital Improvement Programs throughout Alaska. She is currently responsible for Capital project planning management and design for Northwest Arctic Borough School District (1999 to present), Yukon Koyukuk School District in the Interior(2007 to present) and Lake and Peninsula School District in Western Alaska(2012 to present). From 1993 to 1999 she was the Director of Facilities for the Anchorage School District in Southcentral 1993 to 1999. For ten year she had statewide facility management responsibility which included planning, programming and implementation of construction projects for the Department of Corrections with facilities in Ketchikan, Juneau, Anchorage, Seward, Palmer, Kenai, Bethel, Nome and Fairbanks. Kathy has traveled extensively in the state in her work with AVTEC and State Operated Schools. Kathy Christy’s unique qualifications gives her a distinct advantage of relevant research and data gathering tools that are anticipated to be utilized in this project. She will also bring value to data assessment and consequently output in the form of a final report.

Paul Weisner, P.E., CE2 Engineers

Paul Weisner also bring unique qualifications to the project being both a civil engineer and having worked with the NWABSD for over 20 years. His experience has allowed him to be on both the giving (design) and receiving (maintenance of design) ends of the design/construction process. Paul will also bring valuable insight into the world of project systems maintenance and the disparity that sometimes exists between the theoretical design and the practical application. We believe Paul brings a vantage point that will be an invaluable resource to the team.

Resumes

In the appendix section of the proposal we have provided the requested detailed resumes so you can examine closely our design team’s expertise.

Offerer’s References

Below is a list of references as required per the RFP. Included in the appendix you will find additional letters of reference.

NVISION ARCHITECTURE:

Melanie Arnolds, Project Manager
State of Alaska, DOT & Public Facilities
907.266.2171

Jim Balamaci, CEO
Special Olympics-Alaska
907.222.7625

Edie Knapp, Director of Facilities
Anchorage School District
907.348.5207

DeJONG-RICHTER:

Michael Graham, Chief Academic Office
Anchorage School District
907.742.4321

Dr. Charles Stein
Arkansas Division of Public
School Academic Facilities and
Transportation
501.682.4261

Stewart McDonald
Kodiak Island Borough School District
907.481.6200

Firm Experience

Current projects, both with the Anchorage School District as well as educational projects in other districts through out the state, along with involvement in CEFPI and continuing education related to educational facilities, have grown our team members into progressive, forward-thinking individuals.

The State DEED can depend on the Nvision/DeJONG-RICHTER Team for strong forward thinking leadership tempered by experience as we develop the Report on the Benefits and Disadvantages of Prototypical School Design and Construction in Alaska. Detailed project experience is highlighted on the following pages which defines our team’s general history of working with various school districts and demonstrates our team’s successful experience in completing similar projects on time and within budget.

Arlington Independent School District

Facilities Master Planning



The Arlington Independent School District (AISD) is comprised of 72 school and a student population of 63,297. The district needed help prioritizing their facility needs and developing creative options to over-utilized elementary and secondary buildings and under-utilized junior-high facilities. The District wanted to ensure the plan aligned to their strategic vision while involving the community in helping to make these decisions. It was important to ensure transparency and receive constructive community input. AISD had the simultaneous goal of being a leader in fine arts education and offering expanded career-exploration courses to their students.

Overall Description of Services and Scope of Work Completed

- Facility Master Plan
- Extensive Data Gathering and Analysis
- Development of Options using Facility Condition Assessments, Demographics, GIS and Capacity Data
- Community Dialogues in Multiple Locations

Tasks Completed

- Met with steering committee six times
- Held two community dialogues and to options development meetings
- Developed facility condition assessments
- Collected demographics, GIS, and capacity data
- Developed planning options for the district to review and vote on
- Completed master plan for the School District, which is comprised of 72 schools and a student population of 63,297

Challenges Met

- Overcame public adversity
- Maintained the districts strategic vision
- Developed a plan that encompassed fine arts education
- Ensured transparency with the community throughout the project

Successes

The steering committee members unanimously voted to support the following:

- Three new elementary schools
- Conversion of two elementary schools into dual language/fine arts academies
- Repurposing a junior high school for a district-wide CTE center
- Repurposing another junior high school to house current alternative education programs held in separate locations
- Build a district-wide athletic complex
- Add activity centers at each high school



Recommended Options														
Arlington Independent School District														
ACHIEVE TODAY. EXCEL TOMORROW.														
Planning Area A: Elementary School Recommendations Summary														
Current Facility Information and Proposed Actions														
Campus Name	Const. Year	Total Area (sq ft)	Facility Condition Cost	Total Replacement Cost	FCI	Enrollment		Capacity		w/Temp	Seat Delta	Utilization Oct-21	5 Yr. Proj.	
						Nov-4	5 Yr. Proj.							
Budler Elementary School	1975	76,524	\$	\$ 3,625,548	\$ 15,731,620	23%	648	87	551	747	747	166	89%	78%
Jane Ellis Elementary School	1989	80,345	\$	3,935,283	\$ 16,514,973	24%	994	93	1,087	861	1,051	-226	115%	126%
Larson Elementary School	1997	71,897	\$	3,514,723	\$ 14,778,481	24%	777	34	811	705	788	-106	110%	115%
Platz Elementary School	1969	70,228	\$	4,130,543	\$ 14,435,437	29%	662	41	705	755	755	50	88%	93%
Requiemore Elementary School	1970	69,227	\$	5,583,329	\$ 14,229,660	39%	662	159	821	722	722	-99	92%	114%
Sherrod Elementary School	1980	97,992	\$	6,727,174	\$ 20,142,328	33%	799	149	948	1,039	1,039	91	77%	91%
Spicer Elementary School	1952	85,584	\$	4,621,503	\$ 17,591,855	26%	843	13	856	1,003	1,045	147	84%	85%
Webb Elementary School	1960	548,189	\$	12,664,874	\$ 30,460,359	42%	874	73	901	1,918	1,124	217	96%	79%
Wimbath Elementary School	1964	84,828	\$	5,975,548	\$ 17,436,458	34%	612	233	845	815	815	-30	75%	104%
		784,824	\$	50,787,733	\$ 161,921,151	31%	6,891	564	7,455	7,665	8,275	210	90%	97%

Anchorage School District

Prototype Design + Major Upgrades + Additions + Condition Surveys + Research



The Anchorage School District (ASD) is the largest district in the State and serves the southcentral Alaska communities of Anchorage, Eagle River, Chugiak and Girdwood. The district educates almost 48,000 students, encompasses almost 2,000 square miles, and has more than 100 schools and programs. Our team has been very fortunate to have a long standing relationship with the ASD and can demonstrate over 35 years of successful experience of working with the district at all different levels.

Overall Description of Services and Scope of Work Completed

- Various Educational Adequacy Assessments
- 6th Grade Placement Study
- Programming / Ed Spec Refinement
- Design Development / Construction Administration / Cost Analysis Studies
- Prototype Development, Refinement and Modification - Post Construction Review
- Development of Master Technical Specifications
- On-Site / Field Representation at first Prototype School
- Public approval process (P&Z, UDC and MOA Permitting)

Projects Completed

- Detailed School Analysis Reports for Inlet View and Turnagain Elementary Schools
- Prototypical Elementary School Design | 9 Schools Completed: Willard L. Bowman Elem., Kincaid Elem., Kasuun Elem., Lake Hood Elem., William Tyson Elem., Muldoon Elem., Russian Jack Elem., Northern Lights ABC, and Trailside Elem.
- New Schools: Jane Mears Junior High
- Major Additions and Upgrades: Ptarmigan Elementary, Sand Lake Elementary, Government Hill Elementary, Denali Elementary, Homestead Elementary, and Susitna Elementary
- Renovations: Williwaw and Ursa Major Elementary Schools

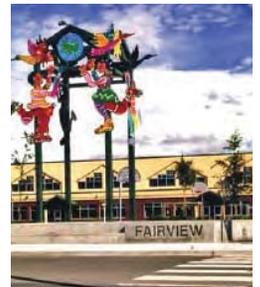
Challenges Met

Varied with each project, but typical challenges included:

- Prototype / Site Plan Reconfiguration
- Assessment of Prototype benefits and challenges needing modification
- Creation of Prototype design universally sufficient for residential neighborhood environment
- Mechanical system access in classroom wings
- Community resolution and acceptance

Successes

- Prototypical District wide design competition winner and project award
- Response to new Ed Spec suitable for District wide distribution.
- Cost effective savings from construction of 4 schools enabled the ASD to build a fifth school at no cost to the tax payer
- Easily maintainable schools
- Prototype School - Innovative Mechanical Access Spine (Regional CEFPI Merit Award)
- Community wide acceptance and integration at neighborhood level



Northwest Arctic Borough School District

Term Contract + Multiple School Renovations and Upgrades



The experience Nvision gained during a five year contract with the Northwest Arctic Borough School District (NWABSD) is invaluable to the State of Alaska DEED in performing the required services for this study. Nvision led the Design Team's efforts in performing all requirements necessary for renovation, repair, retrofit, major maintenance, correct code deficiencies and new construction to meet the school districts educational specification requirements. Our term contract was split between new construction and major maintenance.

Overall Description of Services and Scope of Work Completed

- Coordinated facility condition surveys in remote locations through community gatherings
- Engaged each community|staff|student groups for design input. A student art contest for design was held at each of the five major school sites
- Programming based on community
- Provided 35% concept designs for grant applications | Assisted in grant writing and preparation
- Site analysis
- Implemented alternative and traditional delivery methods (GC/CM, design-build-bid, design-bid-build)
- Value Engineering

Projects Completed

- Conditional survey for five NWABSD village schools
- Design and Construction Administration Services for:
 - Noorvik K-12 School - Major Addition and Upgrades
 - Kiana K-12 School - Major Addition and Upgrades
 - Kotzebue K-12 School - Major Addition and Upgrades
 - Ambler K-12 - Replacement School
 - Kiana Teacher Housing
 - Ambler Teacher Housing

Challenges Met

- Remote villages with limited access and transport facilities
- Permafrost environments and unique landscapes
- Year-round elementary playgrounds
- Fuel oil storage and sprinkler water storage
- Material delivery via aircraft and short runways | Coordinating completed design and material delivery via barge
- Failure of plumbing systems
- Providing innovative solutions to span thawed permafrost conditions

Successes

- **Two CEFPI Awards - Kiana and Kotzebue**
- Modularization of boilers and sprinkler systems
- Transformation that promotes educational versatility and student identity



Lower Kuskokwim School District

Term Contract + Multiple School Renovations and Upgrades



The term contract Nvision had with the LKSD provided us with substantial experience in the areas of maintenance and repair of educational facilities, especially in evaluation, as-building, envelope upgrades, life safety and accessibility related projects. We gained valuable added experience and insight in managing design teams and internal manpower as it relates to the inherent nature of product delivery under a term contract. Because of the rural nature, the projects performed under this scope of work are pertinent and applicable to the anticipated scope noted in the RFP.

Overall Description of Services and Scope of Work Completed

- Condition survey, assessments and recommendations | As-built related to anticipated projects
- Code studies related to life safety
- Comprehensive evaluation of 26 schools for accessibility compliance
- Design documentation related to recommendations and code assessments
- Comprehensive renovation of 23 school restrooms, stair and ramps, and accessibility related deficiencies
- Minor reconfiguration of interior program spatial deficiencies
- Retrofit for new finishes, particularly related to common areas and internal circulation
- 10 Schools - complete weatherization of exterior envelope including window replacement, miscellaneous repairs of external siding related to window replacement, and exterior door repair and replacement

Projects Completed

- ADA Upgrades - 23 schools | Weatherization - 10 schools
- Napakiak Generator Replacement
- Kilbuck Finish | Life Safety Upgrades | Modular Dorm Conversion
- Kilbuck Repair Feasibility Study
- Napaskiak Renovation and Remodel
- Oscarville Facility Upgrades | Deferred Maintenance

Challenges Met

- Remote location
- Lack of comprehensive | adequate record documentation
- Complex funding resources
- Regionally phased ADA upgrade project
- Contractors and electrical subcontractor failure to complete work
- Long distance communication
- Owner Project Manager was fired prior to construction and replacement project manager was new to Bethel and the project

Successes

- Bringing an entire school district up to ADA accessibility standards.
- Substantial improvement to energy efficiency in up to one-half of the district's schools.
- Over 50 small plane excursions to remote sites without mishap!



Copper River School District

Term Contract + Multiple School Renovations and Upgrades



The Copper River School District (CRSD) is a four school district located in the interior region of the State. There four schools are located within the towns of Glennallen, Copper Center, and Slana. The Glennallen school is their largest school and is a diverse K-12 program with between 250-290 students. Our team has been very fortunate to have a long standing relationship with the CRSD and can demonstrate over 15 years of successful experience of working with the district at all different levels.

Overall Description of Services and Scope of Work Completed

- Provided condition surveys in rural locations
- Combined existing high school and new two-story elementary school addition to consolidate programming requirements
- Re-purposed existing elementary school into District-wide headquarters
- Provided design documents based on condition surveys and previous deferred maintenance documents
- Provided cost estimates
- Value Engineering

Projects Completed

- Five Schools Facility Condition Surveys
- Major Upgrades to Glennallen High School
- New Elementary School Addition to Existing High School
- Upgrades to Kenny Lake School
- Remodeled Existing Elementary School into Current District Headquarters
- New Parking Lot for K-12 School and Office
- Siding Upgrades to District Office Building

Challenges Met

Varied with each project, but typical challenges included:

- Permafrost Environment
- Remote Locations
- Impact of Students During Construction Activities
- Depth of Local Hire Pool

Successes

- Detailed/thorough documentation of entire district's facilities. Subsequent to condition surveys, Nvision produced designs for modifications and facility upgrades for Glennallen High School and Kenny Lake Elementary School. Both projects were completed in mid-November of 2011.
- Consolidated elementary and high school into a new K-12 facility. This in turn allowed for a remodel of the existing elementary into District offices.



Specific Research Experience

Condition Surveys + Program Development + Questionnaires and Interviews



Principal Contractor

Nvision Architecture incorporates research based services on projects requiring complete or supplemental programmatic data. This research data provides information related to spatial requirements and functional relationships necessary to provide informed design. Over the past three decades, our staff has been instrumental in research and documentation of essential program data, refinement of school district ed specs, research and development of technical specifications and the refinement and development of surveys and questionnaires to enable efficient data collection while on site. We utilize pre-developed and customized questionnaires and surveys depending on the circumstances of the client's individual needs. To aid our team in interviews and workshop environments, it is very useful to provide advance notice of information needed to enable well-considered responses by those participating.

Various Educational Programming and Education Specification Development

Most education based projects require either program and education specification development. Over the last 30 years Nvision has worked closely with schools and school districts to develop, assist in development of the refinement of the criteria necessary to effectively address the school's specific functional needs. The tools we utilize range from questionnaires, to interview, to on-site record development in the case of existing facilities. The use of the interview to record information has proven to be one of the most effective tools; whether meeting one-on-one or in a workshop group setting. Nvision has the experience, honed by years of design production, necessary to ask pertinent questions and to gather the data required to produce useful, coherent and responsive design solutions. The following projects demonstrate several of our projects where we conducted extensive research to gather design data.

- Condition Surveys:** 5 Schools-Copper River School District
5 Schools-Northwest Arctic Borough School District
Ten Schools-Anchorage School District
- Program Development:** Over 25 schools in 6 School Districts
- Ed Spec Development** Willard Bowman Elementary
- Refinement:** 8 Prototype Schools
Grace Christian School



Facilities Master Planning for University of Alaska Fairbanks (UAF) - Butrovich Building

Nvision was tasked with the relocation of 25 State Services located on the UAF campus being displaced by other campus needs. Our team developed questionnaires in preparation for an extensive workshop to personally interview all department heads and associated essential personnel. Questionnaires enabled respondents to gather critical data related to departmental spatial requirements, interdepartmental relationships and physical data related to equipment and furniture critical to department functionality. We found interview times to be dramatically shortened by giving advance notice of what information would be needed. Gathering data prior to the interview additionally enabled our design and research efforts to be all the more effective and efficient.

ADA Survey, 23 Schools, Lower Kuskokwim School District

With the task of gathering information for 23 different schools in the Lower Kuskokwim School District, it was imperative to research and develop criteria and standard forms/questionnaires to effectively and efficiently gather data during the limited time available while on site. Nvision researched ADA guidelines and translated the information into checklist criteria in a systematic and consistent format. As part of the preparation, accessible route maps were created for each school prior to the site visit. Once on site, school administrators were interviewed to verify assumptions and ensure focused data development.

Project Schedules / Completion

Of significant importance to Nvision/DeJONG-RICHTER is the delivery of projects within the Owner's necessary time schedule. We work closely with the Owner from the beginning of the project to establish a reasonable expectation for project delivery and work diligently to deliver our product on time. We can honestly say that we have never caused an owner a project delay and aim to keep it that way. While we almost hate to admit it, we believe we have the reputation and the ability to complete projects with unreasonably condensed schedules. It happens all the time and we still meet owner's schedules. In fact, we just completed a design and research project for the Anchorage School District in half the time given to other firms for a similar scope because they awarded our project late. We hope you will call the Anchorage School District to discern for yourself our commitment to meeting project schedules.

*Knik Goose Bay
Elementary School*

Mat-Su School District



- Appendix -

Resumes

Letters of Reference

Business Licenses



RESUMES



"I love to help my client reach beyond the ordinary then give them the extraordinary."

Bill Tatom Principal in Charge | Contract Manager

QUALIFICATIONS: Bill Tatom’s extensive experience in educational projects has allowed him to manage over 15 major school projects for four school districts, the University of Alaska Anchorage, University of Alaska, Fairbanks, Alaska Pacific University and several private sector schools. Bill is a member of CEFPI and often researches CEFPI material to keep on track with educational trends and philosophy. His range of experience includes the following areas of service: Conditional Surveys, Design Building Management, Program Validation and Creation, Regulatory Agency Coordination, Response and Presentation, Facilitating Large Group Presentations, Coordination of Design Team and Consultants, Contract Negotiation, Facility Design and Documentation, Construction Management and Administration, Ed Spec Refinement, Specification Writing.

SELECT PROJECT EXPERIENCE

State Wide School Facilities Experience

Anchorage School District

- Inlet View Elementary School Planning
- Turnagain Elementary School Planning
- Sand Lake Elementary School - Major addition and renovation
- Ptarmigan Elementary School - Two major additions and upgrades
- Prototypical Elementary School Design - Eight Schools
- Upgrades to the Alaska State School for the Deaf and Hard of Hearing
- Mt. Iliamna Elementary School - Major upgrades to the gymnasium/multi-purpose room

Alaska Pacific University

- Atwood Center - Major renovation

Copper River School District Term Contract

- Condition Surveys for all Schools in the District
- Glennallen and Kenny Lake High School Upgrades

Lower Kuskokwim School District

- 23 School ADA Upgrades
- 9 School Weatherization Upgrades
- Major Renovation/Upgrades to the Eek, Tuntuliak, Oscarville and Napakiak K-12 Schools

Mat-Su Borough

- Knik Goose Bay Elementary School - New School

University of Alaska Fairbanks

- Chukchi Flight Simulator and Classroom Addition, Kotzebue
- Skarland Hall Dormitory Shower Upgrades
- Wood Center Renewal and ADA Upgrades



EDUCATION

Master of Architecture, University of Texas, Arlington
B.S. Architecture, University of Texas, Arlington
Arctic Engineering, University of Alaska, Anchorage

REGISTRATIONS

Professional Architect: Alaska #A-6230;
National Council of Architectural Registration Boards (NCARB) #129145

AFFILIATIONS

Council of Education Facility Planners International, (CEFPI);
International Conference of Building Officials (ICBO)

REFERENCES

Melanie Arnolds, A.D.O.T./P.F.
907.266.2171
Jim Balamaci, Special Olympics
907.222.7625
Edie Knapp, Anchorage School District
907.348.5207



"As an architect I have always loved the notion that people get to experience the buildings we design, so it only makes sense that they function correctly for the community."

Paul Baril, AIA Project Manager | Project Architect

QUALIFICATIONS: Paul has worked with Nvision Architecture, Inc. for the last 15 years and brings to the team a broad range of varied architectural experience. He is unique to our firm because he started working with us as a young designer and has grown to be a proven leader of our firm. As a Principal Architect, Paul is proud to have grown up in Alaska and be a public school graduate. Since his days attending school in the ASD, Paul has graduated with two architectural degrees and has become a professional licensed architect. In addition to Paul's demonstratable experience in complicated renovation projects, he also has extensive experience in master planning of new and existing facilities, programming, condition surveys, and concept design on a variety of education and academic project types. He is an extremely valuable asset to our team and the client. His hands-on approach is ideal for working and communicating with project stakeholders in order to achieve project success.



SELECT PROJECT EXPERIENCE

State Wide School Facilities Experience

Anchorage School District

- Inlet View Elementary School Planning
- Turnagain Elementary School Planning
- Sand Lake Elementary School - Major Addition and Renovation
- Ptarmigan Elementary School - Two Major Additions and Upgrades
- Government Hill Elementary School

Lower Kuskokwim School District

- 23 School ADA Upgrades
- 9 School Weatherization Upgrades
- Major Renovation/Upgrades to the Eek, Tuntuliak, Oscarville and Napakiak K-12 Schools

Mat-Su Borough

- Knik Goose Bay Elementary School - New School

Alaska Department of Transportation/Public Facilities

- AVTEC - Alaska Culinary Academy, Seward
- AVTEC - New Dormitory, Seward

University of Alaska Fairbanks

- Wood Center Renewal and ADA Upgrades
- Wood Center Student Commons Food Service Remodel

Northwest Arctic Borough School District

- Kotzebue K-12 School - Major Addition and Renovation
- Ambler K-12 School - Major Addition and Renovation

EDUCATION

Bachelor of Science in Architecture, University of Idaho
Master of Architecture, University of Idaho
Northern Building Design, UAA, Anchorage

REGISTRATIONS

Professional Architect: Alaska #A-13681

American Institute of Architects (AIA)

National Council of Architectural Registration Boards NCARB - #118380

AFFILIATIONS

USGBC - LEED: Green Associate

REFERENCES

Joe Jolley, Cornerstone General Contractors, (907) 561.1993

Melanie Arnold, A.D.O.T./P.F., (907) 266.2171

Jim Balamaci, Special Olympics, (907) 222.7625

TRACY RICHTER, REFP

Chief Executive Officer

E-mail: trichter@dejongrichter.com

Sample Planning Experience

Alabama: Auburn City Schools; Decatur City Schools; Huntsville City Schools; Madison City Schools; Montgomery Public Schools

Alaska: Kodiak Island Borough School District; Valdez City School District

California: Beverly Hills Unified School District

Florida: Broward County Public Schools; Duval County Public Schools; Florida School for the Deaf and the Blind; Jacksonville City School District; Palm Beach County Public Schools; School District of Indian River County; St. Johns County School District

Georgia: Savannah-Chatham County Public School System

Idaho: Boise School District

Illinois: Champaign Unit 4 School District

Indiana: Fort Wayne Community Schools; Kokomo-Center Consolidated School Corporation; School City of Hammond

Iowa: Iowa City Community School District

Kansas: Blue Valley School District; Leavenworth Unified School District 453

Michigan: Lapeer Community Schools

Missouri: Ladue School District

New Mexico: State of New Mexico Public School Facilities Authority; Alamogordo Public Schools; Estancia Municipal Schools; Tatum Public Schools

Ohio: Ohio School Facilities Commission - Cincinnati Public Schools; Butler Tech; Columbus Academy; Euclid City Schools; Middletown City School District; Olentangy Local School District

Pennsylvania: School District of Philadelphia; Warren County School District

Texas: Arlington Independent School District; Austin Independent School District; Fort Bend Independent School District; Midland Independent School District

Virginia: Campbell County School District; Gloucester County Public Schools; Lancaster County Public Schools; Virginia Beach City Public Schools

Wisconsin: Milwaukee Public Schools

District of Columbia Public Schools

U.S. Department of Defense Education Activity



Education
Purdue University, B.A. - History

Achievements & Affiliations
Recognized Educational Facility Planner [REFP] Member, Council of Educational Facility Planners International [CEFPI] Member, Florida Educational Facility Planners Association

13 Years of Experience

TRACY RICHTER has a combined 20 years of educational experience as a teacher and planner.

Tracy has coordinated and directed facility planning and educational specifications efforts for school districts of all sizes throughout the United States. He knows firsthand that the educational planning process must be driven by a motivated team of knowledgeable problem solvers who demonstrate expertise, guidance, and direction that come from working many years in the industry.

Tracy and the DeJONG-RICHTER team have helped more than 1,000 school districts develop outstanding learning environments through a systematic process that combines key data analysis with community participation and feedback. The resulting facility plans are not only strategic, but also include long-term goals to build a strong vision and future for the communities involved.

Tracy has broad experiences in offering many services within facility planning, including:

- Long-Range Facility Master Planning
- Demographic Analysis and Enrollment Projections
- Educational Specifications - District-wide and School Specific
 - Career and Technical Education Planning
 - Special Education Planning
 - Magnet & Thematic School Planning
- Community Engagement Facilitation
- Strategic Planning

DAVID STURTZ

Project Director

E-mail: dsturtz@dejongrichter.com

Sample Planning Experience

Anchorage City Schools, AK: Educational Adequacy Assessments, 6th Grade Placement Study

Arlington Independent School District, TX: Facility Master Plan, Technology Plan, Educational Specifications

Auburn City Schools, AL: Strategic Planning, Educational Specifications, Long-Range Facility Master Plan

El Paso Independent School District, TX: Facilities Master Plan

Fort Bend Independent School District, TX: Facility Master Plan

Fort Wayne Community Schools, IN: Demographic Analysis

Geneva School, FL: Educational Specifications

Hawaii Department of Education: State-wide Facilities Master Plan

Huntsville City Schools, AL: Strategic Career Tech Educational Planning, Educational Specification, Long-Range Facility Master Plan

Klein Independent School District, TX: Facility Master Plan

Manassas City Public Schools, VA: Facility Master Plan Update

Norfolk Public Schools, VA: Demographic and Capacity Study

Olentangy Local School District, OH: Facility Assessments, Strategic Technology & Facility Planning

Paterson Public Schools, NJ: Facilities Master Plan



Education

*Ohio Wesleyan University - B.A., Psychology
The Methodist Theological School in Ohio - M.T.S,
Concentration, Ethics*

Achievements & Affiliations

*Member, Council of Educational Facility Planners
International (CEFPI)
Bilingual - Spanish*

2 Years of Experience

DAVID STURTZ has over a decade of experience as a teacher, educational entrepreneur and most recently as a strategic planner with DeJONG-RICHTER. David has overseen the instruction of more than 2,000 students, hired and managed hundreds of teachers and supplemental instructors, and worked with districts in Alaska, Alabama, Florida and Ohio. He has intimate knowledge of the struggles many districts face when trying to ensure their facilities and programs improve the educational prospects of students from all walks of life.

David recently completed facility master plans for the Arlington Independent School District and the Fort Bend Independent School District in Texas both serving over 60,000 students.

David is currently working the Anchorage City Schools to determine the best placement of the 6th grade throughout the District.

KERRIANNE WOLF, REFP

Director of Educational Specifications Services

E-mail: kwolf@dejongrichter.com

Sample Planning Experience

Arlington Independent School District, TX: Educational Specifications

Belen Consolidated Schools, NM: Belen Family School Educational Specifications

Beverly Hills Unified School District, CA: District-wide K-8 Educational Specifications, 9-12 Educational Specifications

Central Consolidated School District #22, NM: Nataani Nez Elementary School Educational Specifications & Facility Master Plan

Estancia Municipal Schools, NM: Middle School Educational Specifications

Gallup-McKinley County Schools, NM: Crownpoint Elementary School Educational Specifications

Grand Rapids Public Schools, MI: High School Educational Specifications, Building Improvement Plan Phases I & II, Strategic Plan Update

Huntsville City Schools, AL: District-wide High School Educational Specifications

Los Lunas, NM: High School Education Specifications

Providence Public School District, RI: District-wide Educational Specifications & Facility Master Plan

Raton Public Schools, NM: Elementary School Educational Specifications

State of New Mexico: Public School Facilities Authority Educational Specifications Standards Review

Sycamore Community Schools, IL: Middle School Education Specifications

Upper St. Clair School District, PA: Middle School Educational Specifications

Valdez City School District, AK: Middle School Educational Specifications

Virginia Beach City Public Schools, VA: Facility Master Plan, District-Wide High School Educational Specifications, Kellam H.S. Site Specific Educational Specifications, Old Donation Center & Kemps Landing Magnet Gifted Schools Educational Specifications

Warren County Schools, PA: Pleasant Township Elementary School & Eisenhower Middle/High School Educational Specifications

U.S. Department of Defense Education Activity: 1-12 Educational Specifications



Education
Kent State University - B.S., Elementary Education, Gifted & Talented Education

Achievements & Affiliations
*Recognized Educational Facility Planner [REFP]
Member, Council of Educational Facility Planners International [CEFPI]
Professional License Authorized to Teach Elementary 1-8 & Gifted Education K-12*

Recent Publications
"Educational Specifications: Community Involvement from Stat to Finish," School Construction NEWS, October 2012

10 Years of Experience

KERRIANNE WOLF has facilitated K-12 district-wide and site-specific educational specifications nationwide; facility master planning processes for rural, urban, and suburban school districts; enrollment projections and training; capacity and utilization studies; strategic planning; and educational adequacy assessments. Kerrienne serves as the educational specifications specialist connecting directly with teachers, students, parents and school administrators to translate their passion into 21st Century facilities that support their educational vision.

Kerrienne has 20 years of education experience including teaching gifted and talented learners in public schools, software training, and yoga.

Kerrienne has written educational specifications for school districts across the United States. She recently assisted in the review of the State of New Mexico Public School Facilities Authority Educational Specifications Adequacy Planning Guide. As a result, an Educational Specifications Checklist & Resource Document was created and recommendations for bringing documents into alignment were provided. Because of these efforts, there is greater clarity of scope and consistency through the needs assessment, planning, design, and construction phases of projects throughout the state of New Mexico.

SCOTT LEOPOLD

Project Director / Geographic Information Systems Analyst

E-mail: sleopold@dejongrichter.com

Sample Planning Experience

Anchorage School District, AK: Educational Adequacy Assessments, 6th Grade Placement Study

Arkansas, State of: Enrollment Projection Analysis

Beverly Hills Unified School District, CA: Facility Master Plan, Demographic Analysis

Bridgeport Public Schools, CT: Boundary Adjustments, Facility Master Plan Update, GIS Training

Campbell County Schools, VA: Facility Master Plan

Cleveland Heights – University Heights City Schools, OH: Capacity Analysis, Boundary Options

Duval County Public Schools, FL: Facility Master Planning, Community Engagement, Boundary Analysis

Fort Bend Independent School District, TX: Facility Master Plan

Huntsville City Schools, AL: District-wide Capacity Analysis and Unitary Status

Long Beach Public Schools, CA: Facility Master Plan

Memphis City and Shelby County Schools, TN: Demographics Report

Montgomery County Public Schools, VA: Build-out Scenario

Olentangy Local Schools, OH: Enrollment Projections, GIS Training and Implementation, Redistricting Study, Build-out Study

Orange County Public Schools, FL: Unitary Status Review

The School District of Philadelphia, PA: Facility Master Plan

Pittsburgh Public Schools, PA: Facility Master Plan



Education
The Ohio State University, B.S. - Geography

Achievements & Affiliations
*Member, Council of Educational Facility Planners International [CEFPI]
CEFPI Distinguished Service Award, 2009*

8 Years of Experience

Scott Leopold has coordinated and directed facility planning, capacity analysis, educational adequacy assessments, and GIS efforts for school districts of all sizes throughout the United States. He provides school districts with the technology tools they need for successful planning. Not only does he produce report-quality maps for facility master planning, redistricting, and build-out scenarios, he also assists district officials with implementation of their own Geographic Information Systems [GIS] programs.

To further assist districts in analyzing, visualizing, and communicating their capacity, Scott has developed a unique period-by-period space utilization methodology that displays room use, allocation, and enrollment by period for facilities based on master schedules.

Scott has been involved in several capacity and educational adequacy projects. Over the past 5 years, he has toured over 250 schools determining their programmatic capacity and adequacy.

Civil Design Experience	Paul Weisner, PE	
EXPERTISE: Rural Alaska Infrastructure, Facilities Planning and Design REGISTRATION: Professional Engineer (Alaska CE 10276)	CE2 Engineers, Inc.	
	Years at Firm: 18	
	Years of Experience: 41	
Individual Qualifications		
<p>Paul Weisner, P.E. has had responsible charge for the successful completion of more than 100 civil engineering projects in Alaska, Western United States and Canada. His work involves water sources—both surface and wells, water treatment, wastewater treatment, design and construction of municipal infrastructure, waste heat recovery, biomass heating, and rural power plants. Paul has lived and worked in rural Alaska for over 40 years. During this time, as an engineer for Kennecott Copper Corp, and as a Facilities Director for the Northwest Arctic Borough School District, he saw what worked and what did not work in remote areas of Alaska. His early work involved fixing or replacing poorly designed, inadequate and failing infrastructure, as well as designing and constructing on-site water and wastewater in arctic Alaska for individual homes, exploration camps, and schools. Paul’s design philosophy is to make the designs as simple and straightforward as possible, with emphasis on survivability in harsh climates. Though the majority of his work involved water and wastewater treatment, he is steadfast in his belief that everything in a school, from civil parts, including site grading, access, water and sewer service, fuel storage, and building interior systems are an integrated whole and must be looked at that way for the school facility to successful to serve its users. Compartmenting professional disciplines, including those establishing and implementing education specifications in a design will not achieve the level of success that an integrated team of professionals and facility users will achieve. Paul’s civil engineering design approach focuses on long-term, practical solutions that best fit the physical setting, with an emphasis on reliability and sustainability.</p>		
EDUCATION: <ul style="list-style-type: none"> ▪ Bachelor of Science, Civil Engineering, University of California, Berkeley 		
AFFILIATIONS: American Water Works Association		
REFERENCES: <ul style="list-style-type: none"> ▪ Toby Schield Water/Sewer Supervisor, Nome Joint Utilities 907.443-6330, TobyS@njus.org, Nome, AK ▪ Richard Dugan Owner, Universal Filter Group 800-375-7744, richard@universalfiltergroup.com, Victoria, BC, Canada ▪ George Wilson, PE Village Safe Water Engineer, ADEC 907.269.7610, George.Wilson@alaska.gov, Anchorage, AK 		
Experience		
Background <ul style="list-style-type: none"> ▪ 41 years of rural Alaska facilities management, planning and arctic engineering experience. ▪ Design engineer and hands-on Project Manager for over \$100 million in rural sanitation projects. ▪ Responsible for design and force account construction management for major civil, process, and mechanical systems at CE2 Engineers, including water treatment plants, water distribution systems, wastewater treatment systems, gravity and vacuum wastewater collection systems, waste heat recovery, and fuel facilities. ▪ Performed numerous engineering feasibility and water treatment pilot studies throughout rural Alaska. ▪ Performed construction inspections on projects from Kodiak Island to Prudhoe Bay, from the Alcan border to the Aleutians, Pribilof and Saint Lawrence islands. ▪ Project Manager and Lead Designer for the Brevig Mission, Hooper Bay, Anchor Point, Nikolaevsk, and Sleetmute water and sewer projects. 		

BACKGROUND:

Brevig Mission Water & Sewer Project

Paul was Project Manager for the design and force account construction of approximately 21 manholes, 5,000 linear feet of sewer main, 7,500 linear feet of water main, and plumbing and service lines for approximately 80 homes. Additionally, the project included a lift station and a forcemain to a one-acre drainfield built west of the community.

He was lead designer for the Brevig Mission water treatment plant. This project included developing a site plan with adequate drainage, a foundation using thermosyphons in permafrost soils, and establishing the orientation of the water treatment building to minimize snow drifting. Also included in the design was well development, raw water transmission line, treatment facilities, distribution system, and connection to an existing insulated water storage tank. Paul's design involved three 4-ft diameter multi-media filters, appropriate automation and control with manual backup.

Hooper Bay Water & Sewer Project

Paul was Project Manager and Lead Design Engineer for this multi-year design and force account construction management project to install a community-wide water and sewer system in Hooper Bay. The project included well field development in wells situated below permafrost, a raw water transmission loop, a 12,000 square foot water treatment plant, a 420,000 gallon water storage tank, a 5,000 square foot satellite utility building to serve as a secondary circulation station for water and vacuum sewage collection, community-wide water and sewer mains and service lines, and 29 house plumbing upgrades. When this ongoing, multi-year project is complete, there will be a city-wide water and vacuum sewer system with over 200 house connections. Foundations and site work involved designing an insulated sand foundation on frozen sand and silt, as well as a thermosyphons to preserve the integrity of the frozen underlying soil. Access roads and site parking involved making 12 inch high "burrito wraps" of geotextile fabric and sand, topped with D-1 road base to achieve stable roads and access.

Paul directed the water testing and design for this water treatment plant. Water for treatment came from a well field about a half-mile away from the plant site. The combined wells produced water that was high in iron, manganese, color, and arsenic. Through extensive water jar and pilot tests, a treatment plan was developed that used two 54,000-gallon process tanks that combined mixing, flocculation, and settlement in one batch process. Filtration of the water would be accomplished through three parallel 8-ft diameter multimedia pressure filters. The plant takes up about two-thirds of a 12,000-sq ft insulated foam panel/steel framed building. The system makes use of extensive automation and controls, with manual backups.

Mountain Village Water & Sewer Project

CE2 has designed and managed the construction of several phases of water and sewer improvements in Mountain Village, including a two-cell lagoon with seasonal discharge, arctic sewer main, arctic force main, sewage lift stations, manholes, two new wells, a septage disposal pit at the landfill, and water pump house upgrades. Paul has been involved as Lead Design Engineer. Structures used had to be constructed on special foundations overlying silty soils.

Nikolaevsk Water Treatment Plant

Paul was lead designer and project manager for the Nikolaevsk water treatment plant, which included a lined backwash pond with winter storage capacity, a 320,000-gallon water storage tank and foundation, a buried 6-in HDPE fill line from the water treatment plant to the water storage tank, and a sedimentation tank for four water catchment sources. Paul developed a water treatment process with a reactor vessel, two each 4-ft diameter multimedia pressure filters, and control panels for process automation. The project also included 8-in HDPE water main extensions and on-site septic system designs. Site work involved dealing with water saturated soils, as well as weather decayed rock and coal seams in a highly seismically active area.

Akiachak Water Treatment Plant

Paul designed the water treatment plant at Akiachak. The process involved the removal of up to 40 ppm of iron from groundwater utilizing an 18-foot diameter by 18-foot high stainless steel tank reactor/clarifier with anthracite/greensand filters and clearwell. This project included extensive mechanical systems and controls, and was built with a local force account crew. The building was founded on silty sand, so an engineered sand fill was designed to provide a stable foundation and to prevent flooding. Engineered sand fills were developed for access roads to the plant and the wells.

Healy Lake Washeteria

This project involved the design and construction of a community Washeteria and school restroom facilities, well upgrades, a water distribution loop serving community buildings, and a wastewater collection and soil absorption treatment and disposal system, fuel storage, pipelines and controls. The addition, though relatively small, was critical, as the Washeteria was added on to a large log community building, and the connection between the Washeteria addition and the community log building involved insulated slip joints that allowed for log movements, while still remaining highly insulated was critical, as temperatures there often hit -65°F in winter.

Paul also performed the civil site design for the new Healy Lake School.

Sleetmute Water and Sewer Project

Paul was lead engineer and Project Manager for this job. This project involved the design and construction of a water treatment plant, a new well, and 83,000 gallon insulated water storage tank. 10,000 ft of water distribution piping was installed with services to residences, businesses, and community buildings. House plumbing was installed, and on-site septic tanks and drain fields were constructed. Accommodations had to be made for seasonal flooding and ice dams, which could be very damaging to infrastructure.

Firm Resources

PROFILE:

CE2 Engineers, Inc. (CE2) has provided engineering and force account construction management services to private and governmental clients since 1985. With a current staff of 25 employees (including engineers, construction managers, surveyors, construction supervisors, welders, and technical staff, CE2 has provided planning, surveying, design, bid and construction services for over \$475 million in projects throughout Alaska; including master planning, water treatment and distribution, storm drainage, sewage treatment and collection, solid waste collection and disposal, community centers, medical facilities, roads and streets, bulk fuel storage facilities, power plants, and biomass heating systems.

Dennis Berry, PE, President**Principal-in-Charge**

Firm: BBFM Engineers, Inc.
Registrations: Alaska CE 4838 I Washington CE/SE 25562
Education: BSCE, Stanford University 1975
MSCE, Stanford University 1975
Arctic Engineering and Engineering Management Courses,
University of Alaska Anchorage

Residency: Alaska

References: Tanci Mintz, State of Alaska, 907-269-0300
Hugh Ashlock, Dimond Center, 907-344-2581
John Lawson, Conoco Phillips Alaska Inc., 907-265-6950

Mr. Berry has 39 years of experience in structural analysis and design which encompasses structural steel, reinforced concrete including precast and prestressed concrete, masonry, wood aluminum and fiberglass. His experience includes design and bid projects with normal and accelerated schedules, fast track projects and design-build projects. His involvement with projects from concept through completion of construction has given him practical knowledge of cost-effective, constructible design. Mr. Berry is well known for his structural engineering ability and his arctic engineering expertise. The latter resulted in his selection as the structural designer for the Amundsen-Scott South Pole Station Replacement Project. In 1995, he was voted *Engineer of the Year*. Mr. Berry was fortunate to have been nominated twice for that honor: once by the Structural Engineers Association of Alaska in 1990 and again by the Anchorage Chapter, Alaska Society of Professional Engineers in 1995. Mr. Berry has been a principal in structural engineering firms in Alaska since 1984. Mr. Berry also has an established reputation for being a knowledgeable and competent structural engineer and project manager. The special experience he brings to this project are the following:

- *Extensive experience in design throughout Alaska from Ketchikan, to Juneau, to Anchorage, to Kodiak, to Adak, to Fairbanks, to Gambell, to Nome, to Kotzebue, to Barrow.*
- *Extensive experience in all types of construction in wood, steel or concrete, with foundations on stable soils to marginal permafrost.*
- *Extensive experience in the design of educational facilities including elementary and secondary schools.*

Mr. Berry's School Experience

Mr. Berry designed two elementary school prototypes. For the Anchorage School District a one story steel frame prototype was used for following schools:

- *Bowman Elementary School*
- *Tyson Elementary School*
- *Trailside Elementary School*
- *Northern Lights ABC*
- *Kincaid Elementary School*
- *Lake Hood Elementary School*
- *Russian Jack Elementary School*
- *Muldoon Elementary School*
- *Kasuun Elementary School*

For the Matanuska Susitna School District a two story wood frame prototype was used for the following schools:

- *Big Lake Elementary School*
- *Cottonwood Creek Elementary School*
- *Butte Elementary School*
- *Snowshoe Elementary School*

Relevant Project Experience:

South Anchorage High School, Anchorage. Principal in Charge for this new high school accommodates 1600 students within (250,000 square feet) The 2-story building is a steel structure with composite floor deck. The classrooms are 2-story with the gymnasiums and music room areas matching in height. A central wall area separates the classrooms from the gym/music/locker areas. Facility includes science labs, library, administrative offices, classrooms, band/orchestra rooms, gymnasium and locker rooms. *Date Completed: 2005.*

Cordova High School Condition Survey and Renovation, Cordova. Principal in Charge for this two phase project included a lateral analysis of the existing wood structure (52,000 square feet.) with steel columns and concrete footings. The structure required additional hold-downs and upgrades to the plywood shear walls. *Date Completed: 2003.*

Mt. Eccles Elementary School Condition Survey, Addition & Renovation, Cordova. Principal in Charge for this project included a condition survey to determine existing structural conditions. The subsequent new construction includes new exit facilities, elevator, stairways, basement ramp and interior ramp to meet ADA requirements. *Date Completed 2011.*

Chugiak High School Renewal, Chugiak. Principal in Charge for this was a multi-phased project which included the following: the initial phase of this project included conversion of the multipurpose room/cafeteria into new classrooms, which included demolition and reconstruction of approximately 22,500 square feet of roof. The next phase was the demolition of existing classrooms to make space for a new 60,000 square foot gym and cafeteria area, and the conversion of the original gymnasium into a performing arts area. *Date Completed 2003.*

Additional Project Experience Includes:

Unalakleet School

St. Michael School Condition Survey

Tulusak School Gym Floor Evaluation

Shishmaref School Addition and Renovation

Adak Middle School

Thunder Mountain High School, Juneau

Ouzinkie School Addition, Kodiak

Delta Junction School Evaluation and Addition

Larsen Bay Elementary School Additions

Wasilla High School Additions

Kenai Central High School Auditorium

Bear Valley Elementary Slab Evaluation, Anchorage

Savoonga School Condition Survey

Koyuk High School Concepts/DD

Kake Elementary School Addition

Golovin School Addition and Renovation

Teeland Middle School

Girdwood Elementary School Addition

Elim School Addition

Old Harbor School Evaluation, Kodiak

Valdez Middle School

Palmer High School Additions

Homer Junior High School Additions



Mark Frischkorn, P.E.

Principal Mechanical Engineer

Employer

RSA Engineering

Registration

Professional
Mechanical Engineer,
ME-8975, Alaska
ME-9697, Idaho

Education

BS, Mechanical
Engineering,
University of
Colorado, 1990

Memberships

American Society of
Heating, Refrigerating,
and Air Conditioning
Engineers (ASHRAE)

American Society of
Mechanical Engineers
(ASME)

Society of Fire
Protection Engineers

References

Jon Clark

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+907.343.8257

Tony Friel

MOA
+907.343.8327

Charlie Peters

Anchorage School
District
+907.348.5202

Qualifications

Mark has 24 years of experience in the mechanical design field and 14 (2014) of those years have been with RSA. As Vice President, Mark is responsible for all the mechanical projects at RSA and is extremely capable at designing and leading projects including HVAC systems, plumbing systems, fire protection systems, and building automation systems. He has provided these mechanical design services on a wide variety of projects include schools and education facilities, recreational facilities, office buildings, industrial parks, housing buildings, hangers, libraries, and airports—among others. His client experience includes the private industries, state and federal governments, and non-profit organizations. As a former controls contractor, Mark has a practical working knowledge of what it takes to get projects installed and operational. As an Associate Principal Mechanical Engineer, Mark provides direction to other mechanical staff, as well as managing his own projects.

LITTLE DIOMEDE SCHOOL REMODEL – DIOMEDE, ALASKA

Mark provided mechanical design upgrades for an existing 16,025 square feet School Facility. The existing Little Diomed School Facility consists of the elementary school, the elementary school's mechanical building, a high school building, link corridor, and storage building. Specifically the school includes classrooms, shop, science rooms, library/media, academic classrooms, kitchen, cafeteria, library, gym, teacher workroom, fan room, equipment room, instructional equipment, storage, laundry, boy's and girl's locker room, restrooms, and a vestibule. The Little Diomed School Facility's area is approximately 16,025 square feet. The mechanical system upgrades include plumbing, heating, ventilation and fire protection. The plumbing system consists of low water consumption fixtures and new piping. The heating plant for both buildings is centrally located in the existing mechanical building at the elementary school. Most of the hydronic heating equipment and piping in both schools was replaced. New ductwork was installed for the existing high school air handler and a new air handler and ductwork were installed for elementary school ventilation. Both schools are protected by a single fire mist protection system.

SKAGWAY SCHOOL SPRINKLER UPGRADE – SKAGWAY, ALASKA

Mark provided mechanical design for the Skagway School Sprinkler System. The dry pipe sprinkler system in the attic of the Skagway school was having corrosion problems for a number of years. Upon inspecting the system, Mark noted that the system did not provide coverage in accordance with the NFPA 13 standard. Mark specified replacement with a galvanized dry pipe system. As the prime consultant on this project, it was delivered on-time and bids came in under budget. Mark provided assistance to the Municipality's project manager for the technical aspects of construction administration.

- St. Michaels K-12 School
- Napakiak School Water Treatment Upgrades
- Savoonga New School Design
- Point Hope School Addition
- Selawik School Addition



Adam Wilson, P.E., LEED AP, CEA

Project Engineer

Employer

RSA Engineering

Registration

Professional
Mechanical Engineer,
ME-12619, Alaska

Certified Energy

Auditor (CEA) #1618

Education

BS, Mechanical
Engineering, Colorado
State University, 1999

Memberships

American Society of
Heating, Refrigerating,
and Air Conditioning
Engineers (ASHRAE)

American Society of
Mechanical Engineers
(ASME)

Association of Energy
Engineers, AEE

References

Gary Eckenweiler
Bering Strait School
District
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Jon Clark
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+907.343.8257

Clifton Reagle
State of Alaska DOC
+907.269.7354

Qualifications

Adam has over 10 years of experience in the mechanical design field, all at RSA Engineering. He has provided detailed design services for numerous projects under senior staff supervision. His responsibilities include system conception, layout, code compliance, design analysis, technical specifications, equipment sizing and selection, as well as construction administrative services. Adam's relevant projects include:

COMPREHENSIVE ENERGY AUDIT OF STEBBINS K-12 SCHOOL

Adam performed an ASHRAE Level 3 investment grade energy audit for the Stebbins K-12 School in accordance with the ASHRAE guide Procedures for Commercial Building Energy Audits. Adam visited the site and coordinated with local personnel to perform a comprehensive survey of the building systems including the building envelope and electrical and mechanical equipment. Survey information was combined with existing benchmark energy use information and an energy model of the building was developed using AKWarm Commercial modeling software. Efficiency upgrades to existing systems were identified and entered into the model to evaluate their effectiveness on energy savings for the overall building. Using the comparative analysis information from the energy model, Adam provided a report recommending various Energy Efficiency Measures (EEMs) to increase energy savings for the facility. The report included recommendations for multiple Energy Conservation Measures (ECMs) not considered in the energy model that would also increase the energy efficiency of the building. The report also provided a comparison of Energy Use Index (EUI) and Energy Cost Index (ECI) with other similar buildings in the region. The information from this and other similar building audits were used to develop a white paper of energy use in Alaska's public facilities.

SHAKTOOLIK K-12 SCHOOL MAJOR MAINTENANCE REMODEL AND ADDITION- SHAKTOOLIK, ALASKA

Adam provided mechanical design services for this K-12 school located in western Alaska, in the Bering Strait School District. The existing 18,615 square foot two story structure, with basement, was completely remodeled on the interior and exterior. All mechanical systems were demolished, with the exception of the gymnasium air handler. The renovated structure received new plumbing fixtures and piping, terminal heating equipment and piping, and central air handler with ductwork and air terminal devices. A fuel oil boiler heating plant was installed in a separate utility building and connected to the main building through an underground arctic pipe. A direct digital control (DDC) system was installed to operate the heating and ventilation systems. A NFPA 13 fire sprinkler system was installed throughout supplied by a 12,000 gallon water storage tank and diesel fire pump in the utility building. A 4,000 gallon fuel oil storage tank was installed next to the utility building.



Channing Lillo, P.E.

Associate Principal Electrical Engineer

Employer

RSA Engineering

Registration

Professional Electrical Engineer, EE-10285, Alaska

Education

BS, Electrical Engineering, Mankato State University
Mankato, Minnesota, 1995

Memberships

Illuminating Engineering Society (IES)

International Association of Electrical Inspectors (IAEI)

References

Jason Scheben,
DOTPF Statewide Public Facilities
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Lesla Hall
Alaska Court System
+907.264.8282

Calvin Mundt
Anchorage School District
+907.348.5213

Qualifications

Channing has over 19 years of experience in the electrical consulting design field. He has provided detailed design services for hundreds of projects. Channing has also performed as the electrical project engineer on a wide variety of projects in all areas of the state of Alaska. His projects include educational, commercial, institutional and industrial buildings or processes. His responsibilities include system conception, layout, code compliance, design analysis, technical specifications, equipment sizing and selection for these projects, as well as site inspections. Channing has developed into a conscientious, thorough engineer with experience in arctic and subarctic areas of the state.

COFFMAN COVE HOWARD VALENTINE SCHOOL – COFFMAN COVE, ALASKA

Channing provided electrical design and construction administration services for a new K-12 facility approximately 10,500 SF. The electrical work for this project includes lighting, power, distribution, telecom, wireless internet connections, A/V system infrastructure for distance learning programs, an intercom system, a CCTV security camera system, a distributed sound system in the gymnasium that includes IR transmitters for the hearing impaired, as well as a new addressable fire alarm system throughout the entire facility.

DILLINGHAM ELEMENTARY SCHOOL RENOVATION – DILLINGHAM, ALASKA

Channing provided electrical design and construction phase services for a \$3.7M renovation and addition to the existing 43,000sf elementary school. Scope included initial site survey and code analysis to determine work items for project scope, design services included maintenance repair, change outs, and code upgrades to the existing classroom lighting and emergency lighting in the facility, providing new LED lighting for the exterior playground areas, new stage lighting and sound system, a new wireless telecommunication system, GPS clock system and telephone/intercom system.

VALDEZ MIDDLE SCHOOL - VALDEZ, ALASKA

Channing provided electrical engineering as well as construction administration services for the new Valdez Middle School, which is currently in construction. Electrical scope included design for power, lighting, telecom, fire alarm, intercom, wireless clocks system, CCTV cameras, intrusion detection system and audio/video systems. A/V connections for smart boards were provided in the classrooms and conference rooms. HDMI and touchscreen interface was designed for the projectors and sound systems in the Gymnasium and multipurpose areas. The project also included a large diesel generator in an arctic enclosure that provides standby power for the building, as well as line conditioners on all the main power feeds to provide clean, reliable power to the facility. The building lighting system is state of the art, with nearly all of the light fixtures provided as LED type with smart lighting controls allowing for maximum energy savings and decreased maintenance.

PROJECT RESOURCES

KATHY J. CHRISTY, CEFPI
5172 E. 98th Avenue
Anchorage, Alaska 99507
(907) 223-2999 Work

HIGHLIGHTS OF QUALIFICATIONS

- Over 30 years experience in development and implementation of Capital Improvement Programs throughout Alaska.
- Certified Education Facility Planner, CEFPI by CEFPI
- Provide planning and design and construction management services as Project Resources since 2005. Current clients are Northwest Arctic Borough School District, Yukon Koyukuk School District and Lake and Peninsula School District.
- Urban, rural and remote project management experience.
- Managing a \$170 million planning, design and construction program for the NWABSD to renew all 11 schools. Kivalina is the last unfunded project.
- Kivalina Replacement School Design is based on adaption of Noatak Replacement School
- Six years as Facilities Director of the largest District in Alaska. Reorganized the Anchorage School District Facilities Department and improved procedures
- Directed planning and development of \$173 million school construction bond package approved by the Anchorage voters April 1999. Saved enough funding by utilizing a prototype design to fund both the site acquisition and construction of a fifth prototype, Northern Lights ABC. The prototype projects were awarded Alaska Project of the Year by Project Management Institute.
- Supervised successful completion of over \$250 million in construction for the Anchorage School District
- Fourteen years' experience developing and administrating Alaska Housing Finance Corporation teacher housing grants.
- Served nine years on the International Board of Directors of the Council of Educational Facility Planners International (CEFPI).
- Experienced in the planning, design, construction and maintenance of airports, schools, correctional facilities with complex security systems, road and recreational facilities
- Ten years supervising Facility Management Unit of Department of Corrections
- Effective public involvement and communication under pressure
- Demonstrated ability to successfully set goals, creatively solve problems and produce results
- Success in obtaining State and Federal funding and knowledge of alternative financing options
- Ability to motivate people to achieve the organizational mission
- Positive working relationship with School Board, Municipal and Borough Assembly and State Legislature

PROFESSIONAL EXPERIENCE

NORTHWEST ARCTIC BOROUGH SCHOOL DISTRICT

August 1999 – 2006, Capital Projects Manager.

July 2006 – Present, Provided Capital Project Manager functions as "Project Resources". Expanded this service to include Yukon Koyukuk School District in 2007 and Lake and Peninsula School District in 2012. Oversee all capital planning, design and construction for the NWABSD, a District of 2,200 students in eleven communities north of the Arctic Circle. In spring of 2000 the Borough voters approved a \$100 million bond issue for improvements to all of the District's schools. Each year the District has been successful in obtaining state reimbursement for construction of its projects in priority order.

- Direct hands-on responsibility for all aspects of capital project development and support from projecting facility needs and enrollment growth, to site selection, to managing budgets, to resolving warranty issues.
- Responsible for development and update of the Six Year Capital Improvement Plan and submission of grant requests to the state and the federal government.

KATHY CHRISTY

Page 2

- Extensive experience with both design-bid-build and fast-tracked design/build procurements with extremely challenging scheduling and logistical issues. Outline the procurement process and oversee bid document preparation. Have been successful in meeting time frames while protecting district from risk and keeping projects within budget.
- Construction administration responsibilities for multiple major projects in remote locations. To support this developed digital reporting system for on-site construction inspector to provide daily reports and slide show.
- Prepared the educational specifications for Noatak Replacement School, Kobuk, Kivalina, Jimmy Huntington and Tanalian all K-12 School.
- Interface with Maintenance Department to assure district design standards provide for optimum maintainability. Assist in support of Preventive Maintenance program and conversion to DDC reporting system for new schools.

ANCHORAGE SCHOOL DISTRICT

October 1993 - August 1999, Director of Facilities. Oversaw all capital planning, design and construction and major maintenance for the Anchorage School District, a District of 50,000 students with a physical plant totaling over 6.7 million sq. ft. and valued over \$1.2 billion.

- Responsible for \$250 million of construction projects completed between from 1994-1998. The 1999 Construction program totals almost \$190 million in projects, including school construction and major maintenance.
- Supervised staff of 40 permanent and temporary employees.
- Instituted project management practices, contracting procedures, and fiscal management controls in the Facilities Department. This resulted in savings of over \$21 million from 1993 and 1994 bond projects which voters redirected in April 1996 to fund two additional elementary schools.
- Improved design and contracting procedures allowed the District to award a design build contract for a prototype school to replace damaged Russian Jack School 23 working days after the fire.
- Develop and obtain administrative, Board and community approval of 6 Year Capital Improvement Program prioritizing over \$50 million of improvements per year. Between 1996 and 1999 the voters approved over \$304 million in projects.
- Initiated facility audits and advance funding for preliminary planning and design to provide accurate cost estimates for the development of the CIP.
- Implemented computerized management tools including a project accounting system linked to the District mainframe accounting system, a preventative maintenance system and a construction management system (Expedition by Primavera).
- Restructured Department to increase efficiency. Added entry level engineering positions and initiated use of college interns to benefit both employer and employee.
- Orchestrated development and adoption of District High School Educational Specifications, a community-wide process completed in less than 6 months. Directed the development schematic designs of three high schools in five months while allowing for public participation
- Effectively worked for changes to Municipal ordinances and State Department of Education regulations that support improved facilities management practices for the District

ALASKA DEPARTMENT OF CORRECTIONS

1983 – 1993, Facilities Management. Supervised Department of Corrections Facility Management Unit responsible for planning, programming and implementing major repair, renovation and new construction projects for 14 correctional facilities statewide. DOC facilities total over 1 million sq. ft. with a replacement value over \$350 million.

- Project manager for Spring Creek, a \$45 million prison construction project.
- Oversaw the implementation of prototype design used for Spring Creek, Mat-Su Pretrial, Anvil Mountain and Wildwood Pretrial facilities.
- Prepared the annual Capital Budget and presented it to the Legislature. Developed procedures to maintain fiscal accountability for capital projects, to prioritize projects, and to report project status.
- Instrumental in obtaining lease purchase financing for the purchase and renovation of the Wildwood Correctional Facility in Kenai for the Department. The \$10 million in bonds sold by the State Bond Committee paid for the purchase and \$5 million in renovations. The annual cost of the bond payments was less than the annual lease payment the State had been paying for use of the facility.
- Project Manager for Corrections Master Plan addressing both operational and capital goals and requirements.

KATHY CHRISTY

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- Periodically evaluated and consolidated Departmental lease space to better utilize leasing budget to support Department's operational goals.

ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

1982 - 1983, Planner for Anchorage International Airport and Anchorage transportation. Completed AIA Master Plan. Served as the DOT/PF AMATS representative. Developed CIP budget for Anchorage highway and airport projects. Responsible for conducting public hearings for controversial projects. Developed public participation process for DOT/PF.

ALASKA DIVISION OF STATE PARKS

1977 – 1982, Grant Administrator. Administered \$22 million grant program for the acquisition and development of outdoor recreation facilities. Assisted communities throughout the state in the development of projects. Worked directly with local government officials. Required knowledge of federal and state grant processes and knowledge of land law and status. Initiative and creativity was essential in helping communities satisfy grant obligations with limited local resources.

ALASKA STATE OPERATED SCHOOLS

1974 – 1977, Assistant Director of Food Service. Oversight of Food Service program for over 130 schools throughout the state. Planning and design of commercial kitchens and food storage facilities were included in responsibilities.

ALASKA VILLAGE ELECTRIC COOPERATIVE

1973-1974, Customer service and home economics specialist. Traveled to over 25 Alaskan villages to provide educational programs and address customer concerns. Stayed in local homes and participated in community activities.

SPECIALIZED TRAINING AND SKILLS

- University of Arizona- BA Degree, with honors; University of Alaska - Graduate MBA courses
- 25 years working in, around, and through local, state and federal agencies to accomplish the job that needs to be done.
- Extensive experience in conducting public hearings and developing public information materials.
- Certifications in Asbestos, Underground Tank Removal and ADA programs.
- Specialized training in Construction Claims, Project Management and Design and School Planning.

PROFESSIONAL ACCOMPLISHMENTS

- Council of Educational Facilities Planners International (CEFPI), Alaskan Governor to the Pacific Northwest Region. Elected to the International Board of Directors 1999 Member at large. Reelected Pacific Northwest Region Representative 2002.
- The Anchorage Schools District Prototype Elementary Schools were awarded 1996 Alaska Project of the Year by the Project Management Institute.
- Awarded UAA Cooperative Education Program award in May 1995 for instituting student intern program in the ASD Facilities Department.
- 1996 President, Alaska Chapter CEFPI (Council of Educational Facilities Planners, International.)
- Administrator of the Quarter, Anchorage School District, May, 1995
- Co-founder of the Alaska State Facility Administrators (ASFA), an ad hoc state interdepartmental organization of facility managers dedicated to the support of public facilities. ASFA has, among other accomplishments, developed formula funding guidelines for facility maintenance now recognized by the Office of Management and Budget in State budget preparation.
- Finalist for the 1996 Athena Award for outstanding professional and community accomplishments, nominated by ASD Superintendent Bob Christal.
- Member Construction Specifications Institute since 1983.

EXPERTISE: Rural Alaska Infrastructure, Facilities Planning and Design

REGISTRATION: Professional Engineer (Alaska CE 10276)

EDUCATION:

Bachelor of Science, Civil Engineering, University of California, Berkeley

AFFILIATIONS:

American Water Works Association

Individual Qualifications

Paul Weisner has lived and worked in rural Alaska for over 40 years. During this time, as an engineer for Kennecott Copper Corp, and as a Facilities Director for the Northwest Arctic Borough School District, he saw what worked and what did not work in remote areas of Alaska. His early work involved fixing or replacing poorly designed, inadequate and failing infrastructure, as well as designing and constructing on-site water and wastewater in arctic Alaska for individual homes, exploration camps, and schools. Paul's design philosophy is to make the designs as simple and straightforward as possible, with emphasis on survivability and comfort in harsh climates. He has applied this first-hand knowledge to similar problems in other homes, as well as public facilities and schools in Northwest Alaska.

Paul's approach to facilities design focuses on long-term, practical solutions that best fit the physical setting, with an emphasis on reliability and sustainability.

REFERENCES:

- Toby Schield | Water/Sewer Supervisor, Nome Joint Utilities | 907.443-6330, TobyS@njus.org, Nome, AK
- Richard Dugan | Owner, Universal Filter Group | 800-375-7744, richard@universalfiltergroup.com, Victoria, BC
- George Wilson, PE | Village Safe Water Engineer, ADEC | 907.269.7610, George.Wilson@alaska.gov, Anchorage

Experience

BACKGROUND:

- 41 years of rural Alaska facilities management, planning and arctic engineering experience.
- Seven years of experience in mining in remote areas of Alaska.
- Extensive traveling and working in many communities in the State of Alaska has given Paul an appreciation of the unique circumstances of living and working in these communities.

RELEVANT PROJECT EXPERIENCE:

Fire Code Compliance Upgrades

As Director of Property Services for the Northwest Arctic Borough School District (NWABSD), Paul supervised design, cost estimates, procurement, specialty contractors, and local force account labor for installation of fire separation barriers for the undersides of the old Kiana, Noorvik, and Selawik High Schools, and installation of one-hour fire rated walls in the corridors. Paul also led the upgrading of non-compliant kitchen hood fire suppression systems in NWABSD schools, as well as comprehensive upgrades of fire detection systems.

Classroom Upgrades

Paul worked in all NWABSD schools computer rooms to have National Electrical Code compliant electrical systems dedicated to serving the needs of computer classes conveniently and safely. Previously, overloaded circuits and nests of extension cords and plug strips were what was used to connect computers to electrical power, and were a fire hazard. He also brought lighting upgrades to classrooms and gyms for lower student eye fatigue, better light levels and color rendition, and utilized the then-new electronic ballasts to affect significant electrical consumption at District schools, which held the line on budgets, or in some cases, allowed money to go back to educational programs.

Teacher and Transient Housing

Quality, comfortable teacher housing is a must for the District to retain good teachers. Unfortunately, most housing in bush schools was old and dilapidated. To change this, Paul had old existing housing upgraded and remodeled, and old classrooms not needed to be converted to comfortable, energy efficient teacher housing. Spaces left over were made into studio or 1 bedroom apartments for District Itinerant personnel, such as speech and language specialists, psychologists, and District Administrators. Work was performed by either contractor or local force account. Other old housing needed something to keep it going until capital funding could be obtained for new housing. For example, a housing duplex at Noorvik Elementary School was built in the early 1960s with a hot asphalt flat roof. The roof was failing, but Paul developed a design to install a sloped truss roof over the existing flat roof to save the building, and to gain an additional 10 years of life until major capital funding was obtained for new school structures.

Fuel Oil Storage and Heating System Upgrades

Along with old buildings, fuel oil storage at most facilities, were outdated, corroded, and were leaky at joints, with no secondary containment. Paul worked to obtain a legislative grant to upgrade or repair the critical fuel storage and piping to minimize the chance of fuel spills and contaminated soil. Everything from marine headers, piping manifolds, storage tanks, day tanks and heating appliances were upgraded, and old piping eliminated. Spill prevention plans were developed and implemented for every school.

School Heating and Ventilation Upgrades

Heating equipment was standardized and upgraded. Changing out all the old hydronic circulating pumps and replacing them with new wet rotor pumps lowered maintenance and electricity costs, so the new pumps paid for themselves in a year, with virtually no maintenance. Schools in Deering and Buckland had their heating plants slowly sinking into the floor, due to design flaws in the mechanical room. Paul developed two heating modules in 20-ft containers, and had them constructed in Kotzebue by the local heating contractor. They were shipped by barge to the village site and were connected in a few days with no school down time.

Standardizing Key Components

Everything in mechanical, electrical, and plumbing equipment was different in the District, depending upon the whims of the specialty engineer or contractor. Paul worked with the Superintendent of Schools and the School Board to make it District Policy that key items were standardized within the District. These items included electrical equipment such as panels and circuit breakers, lighting, ventilation equipment, heating equipment, and other items. In this way, inventory could be efficiently made. Replacement parts could be bought in quantity, with lower prices, and down time was minimized.

Standardizing Specifications and Optimizing New Schools

Paul was heavily involved in capital requests for new construction to replace or upgrade old schools in the District. He worked closely with contracted architect and engineers to help develop the reports needed to document deficiencies in existing schools, in order to give the State Department of Education the full and honest picture of District school facility conditions to justify a high score on the CIP list. Paul worked to make schools standard and flexible, so that the schools could be modified economically to adjust to changing needs in the future. He helped to develop capital improvement plans for Selawik, Kiana, Noorvik, Ambler, Noatak, and Kobuk Schools.



Adam Wilson, P.E., LEED AP, CEA

Project Engineer

Employer

RSA Engineering

Registration

Professional
Mechanical Engineer,
ME-12619, Alaska

Certified Energy

Auditor (CEA) #1618

Education

BS, Mechanical
Engineering, Colorado
State University, 1999

Memberships

American Society of
Heating, Refrigerating,
and Air Conditioning
Engineers (ASHRAE)

American Society of
Mechanical Engineers
(ASME)

Association of Energy
Engineers, AEE

References

Gary Eckenweiler
Bering Strait School
District
+907.624.4249

Jon Clark
MOA
+907.343.8257

Clifton Reagle
State of Alaska DOC
+907.269.7354

Qualifications

Adam has over 10 years of experience in the mechanical design field, all at RSA Engineering. He has provided detailed design services for numerous projects under senior staff supervision. His responsibilities include system conception, layout, code compliance, design analysis, technical specifications, equipment sizing and selection, as well as construction administrative services. Adam's relevant projects include:

COMPREHENSIVE ENERGY AUDIT OF STEBBINS K-12 SCHOOL

Adam performed an ASHRAE Level 3 investment grade energy audit for the Stebbins K-12 School in accordance with the ASHRAE guide Procedures for Commercial Building Energy Audits. Adam visited the site and coordinated with local personnel to perform a comprehensive survey of the building systems including the building envelope and electrical and mechanical equipment. Survey information was combined with existing benchmark energy use information and an energy model of the building was developed using AKWarm Commercial modeling software. Efficiency upgrades to existing systems were identified and entered into the model to evaluate their effectiveness on energy savings for the overall building. Using the comparative analysis information from the energy model, Adam provided a report recommending various Energy Efficiency Measures (EEMs) to increase energy savings for the facility. The report included recommendations for multiple Energy Conservation Measures (ECMs) not considered in the energy model that would also increase the energy efficiency of the building. The report also provided a comparison of Energy Use Index (EUI) and Energy Cost Index (ECI) with other similar buildings in the region. The information from this and other similar building audits were used to develop a white paper of energy use in Alaska's public facilities.

SHAKTOOLIK K-12 SCHOOL MAJOR MAINTENANCE REMODEL AND ADDITION- SHAKTOOLIK, ALASKA

Adam provided mechanical design services for this K-12 school located in western Alaska, in the Bering Strait School District. The existing 18,615 square feet two story structure, with basement, was completely remodeled on the interior and exterior. All mechanical systems were demolished, with the exception of the gymnasium air handler. The renovated structure received new plumbing fixtures and piping, terminal heating equipment and piping, and central air handler with ductwork and air terminal devices. A fuel oil boiler heating plant was installed in a separate utility building and connected to the main building through an underground arctic pipe. A direct digital control (DDC) system was installed to operate the heating and ventilation systems. A NFPA 13 fire sprinkler system was installed throughout supplied by a 12,000 gallon water storage tank and diesel fire pump in the utility building. A 4,000 gallon fuel oil storage tank was installed next to the utility building.

PERSONNEL QUALIFICATIONS / EXPERIENCE

NAME & TITLE: James E. Watterson, Executive Vice President/Chief Estimator

EDUCATION (*Degrees(s) / Year / Specialization*):

- Bachelor of Science Civil Engineering/1975/University of Washington

PROFESSIONAL EXPERIENCE

Jim has 43 years of experience in construction the last 24 years as Executive Vice President/Chief Estimator for Watterson Construction Co. He has been lead estimator and design coordinator on virtually every project WCC has proposed on since 1989. Including providing pre-construction services, budget estimates, updating estimates and negotiating GMP's. His experience includes schools, wood frame housing, apartments, and commercial facilities. Previously with Hensel Phelps Construction from 1975-1989 beginning as project engineer advancing to superintendent and ending his career with HP as Manager of Work Procurement. With HP Jim was in charge of estimating work across the US from Fairbanks Alaska to Jacksonville Florida and numerous places between the two.

Experience Relevancy to Project: Jim's wide range of experience makes him the perfect choice for this project. Jim also has been involved with the design on more than 25 design build projects worth more than \$600 million in Alaska. Beginning his career in the field as a carpenter and then a project engineer he understands how to make a projects run smoothly. Listed below is a select list of a few of his relevant projects.

Education Facility projects with Watterson Construction Co.

Kodiak High School @ Kodiak, AK

Project Type: Fixed Price

Project Role: Chief Estimator and Corporate Executive

The work includes site, utility and building improvements to the existing KHS. Work includes approximately 77,000 sf of new construction including a 4 story tower, commons and other new construction, and approximately 90,000 sf of selective demolition and renovation to existing construction. Sitework includes replacement of existing utilities, parking and driveway improvements for a total of approximately 386 privately operated vehicles, landscaping, site lighting and other improvements. Work also includes heating control and metering for the adjacent existing swimming pool and Gerald C. Wilson Auditorium.

Girdwood K-8 School @ Girdwood, AK

Project Type: Fixed Price

Project Role: Chief Estimator

Complete renovation and addition to the existing 28,300 square foot Girdwood K-8 School. Two story addition to consist of 30,722 square feet, to expand existing classrooms and add necessary educational amenities for the growing enrollment. Work to include demolition, hazardous materials abatement, new exterior finishes, science lab, computer lab, gym, resource areas and support areas. Special equipment for school includes gym equipment, commercial kitchen, visual aids, and audio systems. The first of three phases includes site work, demolition and beginning of addition of west end of school, and renovation of east section of building including roof replacement. School remains operational during phase two of project, which consists of addition and remodel of west end of building. Site work,

Prototypical School Design and Construction in Alaska

remodel, and addition to be completed during phase three. Building includes both steel and wood framing construction.

Chester Valley Elementary School @ Anchorage, AK

Project Type: Fixed Price

Project Role: Chief Estimator and Corporate Executive

Renovation of an aging 40,000 SF elementary school and addition of 10,441 SF. Work included hazardous materials abatement, demolition, and structural rehabilitation including seismic upgrades. Exterior finishes include new metal siding, rehabilitation of existing precast wall panels, ceramic tile wainscot and new roofing. Space revisions included elimination of recessed floors, addition of a clearstory, new gymnasium and multipurpose area as well as new mechanical spaces. All new interior finishes were installed including flooring, drywall, paint and extensive acoustical treatments. Additionally the mechanical and electrical systems were upgraded throughout.

Sustainable Design/LEED Certification Status: 1st Certified LEED Silver School for the Anchorage School District

UAA Science Building Renovation @ Anchorage, AK

Project Type: Fixed Price

Project Role: Chief Estimator and Project Manager

Phased remodel of the University of Alaska Anchorage Science Building. Watterson Construction completed phases 2 and 3. During construction the building remained in use by the University. The project included demolition and replacement of offices, labs and classrooms. The building systems were also replaced.

Randy Smith Middle School @ Fairbanks, AK

Project Type: Fixed Price

Project Role: Chief Estimator and Project Manager

Construction of new 72,000sf, two-story middle school building for the Fairbanks North Star Borough. Steel frame structure on concrete foundation. Exterior finishes included; metal panels, synthetic stucco & EPDM roofing. Interior construction was typical of a school consisting of light gauge metal framing, acoustical ceilings, acoustical wall panels, and all the building specialties associated with a middle school. Watterson was able deliver a successful project on time and on budget despite the impact of a non-performing subcontractor.

East 68th Elementary School (Kasuun Elementary) @ Anchorage, AK

Mt. View Elementary School @ Anchorage, AK

Project Type: Fixed Price (Prototype)

Project Role: Chief Estimator

The Mt. View Area Elementary & East 68th Ave. Elementary schools are two of four identical schools constructed for the Anchorage School District simultaneously. Each school is 61,000sf and consists of 26 class rooms, an art room, computer lab, gymnasium, multipurpose room, office space, and a mechanical mezzanine. Structural building elements include steel and concrete slab on grade, cement back board over steel studs, and a brick veneer finish used on exterior walls. Utilizing many of the same subcontractors and suppliers was an advantage to constructing these identical buildings simultaneously.

PERSONNEL QUALIFICATIONS / EXPERIENCE

NAME & TITLE: Ryan Watterson, LEED AP, Project Manager / Estimator

EDUCATION (*Degrees(s) / Year / Specialization*):

- Bachelor of Science Architectural Studies/2003/Washington State University
- Washing State University Honors College, International Emphasis
- Denmark's International Study Program
- LEED AP Certification/2008
- USACE Construction Quality Management for Contractors/2012

PROFESSIONAL EXPERIENCE

Ryan brings a unique perspective to this project having worked for both Architects and for a Contractor. With a degree in Architectural Studies and his experience in construction, he knows design and construction.

Experience Relevancy to Project: As a LEED Accredited Professional Ryan's training and experience in architecture make Ryan an asset on this project.

Education facility experience with Watterson Construction Co.

Kodiak High School @ Kodiak, AK

Project Role: Estimator

Project Type: Fixed Price

The work includes site, utility and building improvements to the existing KHS. Work includes approximately 77,000 sf of new construction including a 4 story tower, commons and other new construction, and approximately 90,000 sf of selective demolition and renovation to existing construction. Sitework includes replacement of existing utilities, parking and driveway improvements for a total of approximately 386 privately operated vehicles, landscaping, site lighting and other improvements. Work also includes heating control and metering for the adjacent existing swimming pool and Gerald C. Wilson Auditorium.

Girdwood K-8 School @ Girdwood, AK

Project Role: Estimator

Project Type: Fixed Price

Complete renovation and addition to the existing 28,300 square foot Girdwood K-8 School. Two story addition to consist of 30,722 square feet, to expand existing classrooms and add necessary educational amenities for the growing enrollment. Work to include demolition of west end, hazardous materials abatement, new exterior face, science lab, computer lab, gym, resource areas and support areas. Special equipment for school includes gym equipment, commercial kitchen, visual aids, and audio systems. The first of three phases includes site work, demolition and beginning of addition of west end of school, and renovation of east section of building including roof replacement. School remains operational during phase two of project, which consists of addition and remodel of west end of building. Site work, remodel, and addition to be completed during phase three. Building includes both steel and wood framing construction.

Prototypical School Design and Construction in Alaska

Chester Valley Elementary School @ Anchorage, AK

Project Role: LEED documentation assistance

Project Type: Fixed Price

Renovation of an aging 40,000 SF elementary school and addition of 10,441 SF. Work included hazardous materials abatement, demolition, and structural rehabilitation including seismic upgrades. Exterior finishes include new metal siding, rehabilitation of existing precast wall panels, ceramic tile wainscot and new roofing. Space revisions included elimination of recessed floors, addition of a clearstory, new gymnasium and multipurpose area as well as new mechanical spaces. All new interior finishes were installed including flooring, drywall, paint and extensive acoustical treatments. Additionally the mechanical and electrical systems were upgraded throughout.

Sustainable Design/LEED Certification Status: 1st Certified LEED Silver School for the Anchorage School District

Additional Education facilities with Watterson Construction Co.

St. Elizabeth Ann Seton Parish School / Estimator

University of Alaska, Fairbanks Fine Art building rehabilitation / Estimator

University of Alaska, Anchorage Science Building Phase 2&3 / Estimator and construction administration

Additional Education Facility Experience with Another Firm

Nordale and Denali Elementary Schools @ Fairbanks, AK

Project Role: assist in construction document production and designer's construction administration.

This project was for the replacement of two schools in Fairbanks. The schools utilized a single design with just cosmetic differences. The schools were constructed on the playfields of the operating schools which remained in operation until the new buildings opened. The existing structures were then demolished and new playfields built.

West Ridge Research Building – UAF @ Fairbanks, AK

Project Role: Assisted in Architect's project closeout

Design and construction of the 59,120 SF Research Facility including offices, a Class 3 Laboratory with dedicated acid waste piping, and ventilation, and classrooms. A unique solution to a building on a very geotechnically challenging site resulted in a building that provided approximately 18,000 SF more than the required program area at no additional cost.

Education facility experience with Schwiesow Construction:

Reeves Middle School, Olympia, WA / Laborer for General Contractor

Madison Elementary School, Olympia, WA / Laborer for General Contractor

Lakes Elementary School, Lacey, WA / Laborer for General Contractor

■ ■ LETTERS OF REFERENCE



October 15, 2014

Subject: Nvision Architecture, Letter of Reference

To whom it may concern:

Nvision Architecture successfully performed professional services for design and construction administration for the Department of Transportation and Public Facilities, Statewide Public Facilities Section for the AVTEC Student Life Campus Improvements project, Agreement No. : 02582063. The project consisted of two phases. Phase I was for the Culinary Arts Training Facility Replacement / Cafeteria Renovation authorized in 2008 and Phase II was for the Third Avenue Dormitory Replacement authorized in 2012.

	Professional Service Contract	Construction Contract (GMP)
Phase I	\$1,000,000	\$ 6,900,000
Phase II	\$1,000,000	\$12,700,000

The contracting method of the construction contract was a CMGC contract. Nvision put together a great team to carry out the design, CMGC coordination and administrative assistance, and construction administration for the Department. Nvision carried out their contractual obligations in accordance to their proposal throughout the life of the project. I strongly recommend Nvision to any owner / client agency for design and professional services.

As all projects, both phases of the referenced project came with a variety of project challenges. Nvision was a key factor in assisting the Department through all stages of the project to remain on schedule, stay within the budgetary restraints, and ensure a quality product was delivered. Paul Baril, Nvision, always strived to go above and beyond to help resolve challenges in a creative and constructive manner by working closely with the Department staff, client agency staff, and construction contractor staff to identify solutions.

I would be happy to discuss my experiences interacting and working with Nvision Architecture with you. Please do not hesitate to contact me directly.

Sincerely,

Melanie Arnolds, P.E.
DOT&PF, Project Manager

(907) 266-2171 office
(907) 529-8566 cell



DATE: October 15, 2014
TO: Selection Committee
FROM: Jim Balamaci
President/CEO 
SUBJECT: Letter of Recommendation / Nvision Architecture Inc.

Please accept this letter as my highest recommendation of the architecture firm Nvision Architecture Inc. I have had the opportunity to work with the Principle, Bill Tatom, and his firm for over the past ten years through a variety of new construction and modernization projects. These projects have a value of over ten million dollars.

Nvision Architecture has demonstrated a professional and ethical caliber during this time. In 2006, the firm completed a renovation project that changed the entire appearance of the building and neighborhood. The project renovated an old 1974 RV building into office space and a sport and training center for Special Olympics Alaska. The building was one of the first Special Olympics sports training facilities in the world.

In April 2014, Nvision Architecture officially completed Phase II of the Special Olympics Alaska Athlete Training Center and Campus with the opening of a 20,000 square foot facility, including the Sport, Health, and Wellness Center, Fitness Center, and Administration Offices. This multi-purpose facility has already enhanced the growth of our Special Olympics Alaska statewide program. In addition, it has increased partnerships statewide and will continue to provide economic development to the Mountain View Community.

Utilizing quality sub-contractors has proved to be a definite strength of Nvision Architecture. Schedules have been maintained and all projects have completed on time. Understanding that it takes highly qualified personnel to maintain good relationships, Envision Architecture has provided exceptional staff that are involved and accessible throughout the project.

Nvision Architecture is truly a firm that Special Olympics Alaska will want to continue to work with in the future. Alaskan firms such as Nvision Architecture and the Principle, Bill Tatom, who excel in their professional life and then give back to their community, truly exemplify the Spirit of Alaska.



CENTRAL CONSOLIDATED SCHOOL DISTRICT #22

Business Office • 583 CR 6100 • Kirtland, NM 87417 • 505-598-5834/368-4963; Fax 598-6626
Personnel • 583 CR 6100 • Kirtland, NM 87417 • 505-598-1018/368-4963; Fax 598-1019
Shiprock Administration • P.O. Box 1199 • Shiprock, NM 87420 • 505-369-4984/598-9684; Fax 368-5232

To Whom It May Concern:

I am writing to recommend DEJONG RICHTER for your school district's Educational Specifications and / or Facility Master Planning Project.

DEJONG RICHTER successfully completed two projects for Central Consolidated School District #22 in Shiprock, New Mexico. CCSD is in Northwest New Mexico in the rural Four Corners area, where much of the District lies within the Navajo Nation Indian Reservation. In conjunction with the New Mexico Public Schools Facilities Authority (NM PSFA), DEJONG RICHTER completed an Elementary School Educational Specification in the Fall of 2009 and a District Wide Facility Master Plan in the Spring of 2010 while partnering with a local architecture firm.

The Educational Specifications process involved all facets of the school and community, including staff, parents, administration, community business leaders, and Chapter Houses. DEJONG RICHTER worked to bring 21st Century visions and concepts into the plan for the facility which included Best Teaching Practices and their impact on the facility, Green / Sustainable Buildings, Technology, and Community Collaboration. Because this facility is located within the Navajo Nation Indian Reservation, it was important to receive input from the local Chapter Houses regarding ways to incorporate the Dinè Philosophy & Navajo Culture. Throughout the process, while DEJONG RICHTER took into consideration the local input and preferences, they were able to bring the project together to meet the requirements set forth by the PSFA, providing a cost analysis of the project. The Educational Specifications were approved by the NM PSFA.

The Facility Master Planning Process occurred from December 2009 to May 2010. During the time, six Community Dialogues were held to gather input from our three communities. DEJONG RICHTER used their Facility Master Planning Process to develop recommendations. A Steering Committee was formed which met once a month over the course of the six month process. Enrollment Projections, a Capacity Analysis, and Facility Assessments were also completed to inform this process. DEJONG RICHTER met with our school board periodically throughout the process to keep them informed and up to date. The final recommendations were put forth by Steering Committee Representatives to our Board which included a timeline with project phasing as well as approximate costs of each project.

Gregg Epperson, Superintendent of Schools

The Board of Education unanimously approved both the Educational Specifications and the Facility Master Plan Recommendations delivered by DEJONG RICHTER. Therefore, I would highly recommend DEJONG RICHTER to any school district considering their services. Their knowledge and expertise in these processes is invaluable. If you should require further information or have additional questions, please don't hesitate to contact me at (505) 368-4984.

Sincerely,

A handwritten signature in black ink, appearing to read "Gregg Epperson", with a long horizontal flourish extending to the right.

Gregg Epperson, Superintendent
Central Consolidated School District

SHANE BROADWAY

SENATOR
22ND DISTRICT
OFFICE: 501-682-6050
sbroadway@arkleg.state.ar.us

201 SOUTHEAST SECOND ST.
BRYANT, ARKANSAS 72022-4025



THE SENATE
STATE OF ARKANSAS

MEMBER:
JOINT BUDGET
LEGISLATIVE AUDIT
EDUCATION
JOINT ENERGY
RULES, RESOLUTIONS & MEMORIALS
STATE AGENCIES & GOVERNMENTAL
AFFAIRS

To Whom It May Concern:

I am writing to you regarding my experience with the DeJong Group, the team selected by the State of Arkansas to manage our state-wide K-12 facilities assessment and to guide the creation and development of Arkansas' effort to rebuild our school facilities.

In the summer of 2003, the Arkansas General Assembly, as part of a response to the State Supreme Court ruling that our method of school funding was unconstitutional, created a Task Force to oversee a condition assessment of all K-12 schools. The Task Force was comprised of volunteer educators, designers, builders, state officials and others all committed to the improvement of Arkansas' school infrastructure. The Task Force selected the DeJong Group over a number of highly qualified candidates. DeJong impressed us with their technical knowledge but more importantly, we were impressed with their comprehensive experience in working with other states and countries.

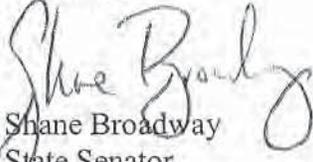
Despite the fact that the schedule was shortened by two months, DeJong successfully managed the assessment of over 80 million square feet of space in 80 days including: creating a customized assessment form; guiding the selection process of 18 assessment teams; conducting pre-assessments of every school campus; developing 10-year enrollment projections for every district; creating state-wide educational facilities standards; and, managing the work of ten different Task Force sub-committees. A final report to the Legislature was submitted on time and under budget in November of 2004.

As a result of DeJong's efforts, for the first time, Legislators and state administrators have an accurate data base containing all the information necessary to make sound decisions on the type of programs and the amount of funding needed to rebuild our schools. We extended DeJong's agreement through the first half of '05 to work with the Legislature in drafting school facilities legislation and creating the Arkansas Division of Public School Academic Facilities. DeJong has been instrumental in getting this new agency started.

You will find that the DeJong Group has all the expertise necessary to accomplish your goals. In addition, they bring in-depth understanding of state government and educational issues. I give the DeJong Group my highest recommendation and I am

confident that they will meet or exceed your expectations. Please feel free to contact me if you have any questions or need additional information.

Sincerely,


Shane Broadway
State Senator



BUSINESS LICENSES

Alaska Department of Commerce, Community, and Economic Development

Division of Corporations, Business and Professional Licensing
P.O. Box 110806, Juneau, Alaska 99811-0806

This is to certify that

NVISION ARCHITECTURE, INC.

1231 GAMBELL ST., SUITE 400 ANCHORAGE AK 99501

owned by

NVISION ARCHITECTURE, INC.

is licensed by the department to conduct business for the period

October 25, 2012 through December 31, 2014
for the following line of business:

54 - Professional, Scientific and Technical Services



This license shall not be taken as permission to do business in the state without having complied with the other requirements of the laws of the State or of the United States.

This license must be posted in a conspicuous place at the business location. It is not transferable or assignable.

Susan K. Bell
Commissioner

Alaska Department of Commerce, Community, and Economic Development

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P.O. Box 110806, Juneau, Alaska 99811-0806

This is to certify that

DEJONG - RICHTER, LLC

4945 BRADENTON AVENUE DUBLIN OH 43017

owned by

DEJONG - RICHTER, LLC

is licensed by the department to conduct business for the period

December 05, 2013 through December 31, 2015
for the following line of business:

54 - Professional, Scientific and Technical Services



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Susan K. Bell
Commissioner

Alaska Department of Commerce, Community, and Economic Development

Division of Corporations, Business and Professional Licensing
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This is to certify that

CE2 ENGINEERS INC

PO BOX 232946 ANCHORAGE AK 99523

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is licensed by the department to conduct business for the period

October 09, 2012 through December 31, 2014
for the following line of business:

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Susan K. Bell
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owned by

B B F M ENGINEERS, INC.

is licensed by the department to conduct business for the period

November 26, 2012 through December 31, 2014
for the following line of business:

54 - Professional, Scientific and Technical Services

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Susan K. Bell
Commissioner



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This is to certify that

R S A ENGINEERING INC

670 W FIREWEED LANE STE 200 ANCHORAGE AK 99503

owned by

R S A ENGINEERING INC

is licensed by the department to conduct business for the period

October 08, 2014 through December 31, 2016
for the following line of business:

54 - Professional, Scientific and Technical Services



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Susan K. Bell
Commissioner

Alaska Department of Commerce, Community, and Economic Development

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P.O. Box 110806, Juneau, Alaska 99811-0806

This is to certify that

PROJECT RESOURCES

5172 E. 98TH ANCHORAGE AK 99507

owned by

KATHY J CHRISTY

is licensed by the department to conduct business for the period

October 11, 2012 through December 31, 2014
for the following line of business:

54 - Professional, Scientific and Technical Services



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Susan K. Bell
Commissioner

Alaska Department of Commerce, Community, and Economic Development

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P.O. Box 110806, Juneau, Alaska 99811-0806

This is to certify that

WATTERSON CONSTRUCTION CO

PO BOX 220670 ANCHORAGE AK 99522

owned by

WATTERSON CONSTRUCTION CO

is licensed by the department to conduct business for the period

November 08, 2012 through December 31, 2014
for the following line of business:

23 - Construction



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This license must be posted in a conspicuous place at the business location. It is not transferable or assignable.

Susan K. Bell
Commissioner



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