## Proposal for Design Services SKAGWAY SCHOOL DISTRICT VOCATIONAL EDUCATIONAL BUILDING

# MRV ARCHITECTS, PC 1420 Glacier Ave. #101 Juneau, AK 99801

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## Letter of Transmittal

Dec 5th, 2016

MRV Architects is pleased to propose on design services for the Skagway School District Vocational Education Building. Our team has the project experience, staff capability, and consultant expertise to provide timely and cost-effective services on this most important addition to the Skagway School system.

MRV Architects and our primary consultant team are Juneau-based. We have significant recent Skagway experience, including the Skagway Public Library, completed about two years ago, and design on the Brenna Building, completed earlier this year. MRV just completed Schematic design for the proposed Skagway Senior Center and Senior Housing (through a Foraker Pre-development contract). We are currently underway on the design of two new commercial projects in Skagway that should be under construction in 2017.



MRV has very deep experience in the design of vocational education facilities. Projects include vocational components for both of the Juneau high schools (2003 and 2010 completions); Sitka high School, 2001; a design-build proposal for Sitka Vocational Expansion, 2012 (not selected); and several contracts for upgrades at the UAS Technical Education Center, including overall Conceptual reconfiguration, classroom upgrades, and exterior renovations. Our team of consultants can similarly illustrate relevant vocational and technical spaces from across Southeast Alaska.

The anticipated Skagway project, to be successful, will include several complex decisions, including analysis of best location, technical capabilities of the new facility, such as generator, and balancing overall costs. MRV Architects will be a strong partner identifying such critical variables and costs, assisting the Borough and School District to make the critical decisions on your preferred outcome.

MRV has assembled an excellent team of supporting professional engineers. The full team has the time, commitment, and professional qualifications to deliver a highly successful project for Skagway. We are excited to propose on this work, and would be proud to partner with you on achieving this important facility.

Sincerely,

Paul Voelckers, President, MRV Architects.

Contact: paul@mrvarchitects.com; 907-586-1371

### A. Project Understanding and Approach

MRV Architects understands that this project centers on the need to design the most appropriate and efficient vocational education facility to serve the needs of the Skagway High School. This facility has been identified as a priority for a number of years, and per the Superintendent's letter to the Assembly, is intended to address three key community priorities.

First, the new space will allow a vocational training curriculum, adding space which will "greatly enhance the district's ability to nurture our students' individual strengths." The new facility will also allow the community to offer adult education in critical vocational skills, and to partner with local business. Finally, the facility will house an emergency generator, if costs permit, allowing the high school to function as a fully capable emergency shelter in case of an emergency affecting the community power supply.



Juneau Douglas High School

MRV Architects will provide a stepped project approach that logically develops a successful vocational education building for Skagway. The steps of this process are outlined following:

**1. Programming:** Working with District and Borough staff, MRV will confirm the specific features needed in the facility, defining both function and size. We recommend that two space summaries are developed, representing the *desired* spaces, if cost allows, and the *minimum* spaces needed. These high-low summaries, or "Program" for the building, will establish the target size of the facility, and key functional requirements.

2. Identification of Building Options and Potential Issues: The Program, with this high-low size range, will then be used to inventory potential building solutions. This will include three steps. The first will be a survey of the existing high school, analyzing if the needed space could be accommodated by a renovation, or renovation with a partial space addition. The second step will include a survey of other public and private facilities in town which may be underutilized and could be renovated to meet the vocational building needs. The third test option will be to identify a new building on a fresh site near the high school.

3. Conceptual Options and Selection: Once an inventory of potential building options is complete, simple conceptual sketches and a general cost estimate for each choice will be prepared. We will also prepare a pro/con summary of the option that describes its ability to meet the educational and operational goals. This material will be used in a second working meeting with the project management team to select which of the three potentaial directions works best for Skagway, balancing expenditures and the educational gains that would be captured.

4. Schematic Design Refinement: Based on the direction given by the management team, the preferred building option will be more fully developed through Schematic design drawings, produced on computer using Revit. These drawings, including plans, sections, and elevations, will illustrate the desired spaces, including automotive bays, instructional areas, storage and support, and exterior site work. Designs for both the desired program and minimum program will be developed, with a professional cost estimate.

A third working meeting will be held with the school/Borough management team to refine the preferred Schematic option, establishing if features like the generator will be included, dropped, or structured as a bid alternate. Based on this meeting, MRV will produce completed Schematic drawings.

**5. Design Completion:** The completed Schematic option will become the basis for the remaining design work. The first step for design completion will be a negotiated design contract for remaining design and engineering services to complete the bid documents. The direction for the project would be established clearly enough for all supporting engineering work to develop an accurate and binding fee proposal.

Design services for the project would then move through two more steps of project refinement, including a 65% review package, called Design Development, and a final 100% Construction Document set for bid and construction purposes. It is anticipated that a professional cost estimate would be developed at 65% completion to insure the design was close to budget targets. A 100% estimate will also be provided, if desired by the Borough, although many agencies opt to bid the work at that point, and save the expense of a final estimate.



A fourth working meeting with the project management team would be conducted at 65%, when detailed architectural and engineering work is well-along, but before all design work has been completed. A cost estimate would be in hand, and any adjustments to project scope would be made, based on management team recommendations.

After Design Development review modifications, the drawings and specifications will be completed to 100%. A near-final document set will be submitted to the local building official and State Fire Marshall for permit review, and any required corrections included in the final bid set.

6. **Construction Services:** MRV and the consultant team will provide support and management services through the construction process. This will include review of contractor submittals, response to contractor questions, approval of pay applications, periodic inspections, and final inspections to ascertain that all systems are installed and operating as designed. Our team can also offer more detailed on-site inspection of the construction process on a more frequent basis, as desired by the Borough.

### **B.** Proposed Project Manager

Paul Voelckers will function as Project Manager and Principal-in-Charge for the Skagway Vocational Education Building. He brings decades of experience in the management of similar projects, and has the capacity to fill this role in a timely and efficient manner.

Mr. Voelckers has been directly involved in all of the recent Skagway project experience for MRV Architects, including a lead design and management role in the Skagway Library expansion, and as lead of the Skagway Senior Center planning and design. He understands Skagway at a personal level, and is committed to the project success.

Paul also has significant experience with Vocational education facilities, including lead principal and manager roles on numerous projects. These most recently



Mr. Voelckers also functioned as Principal-in-Charge on the Juneau-Douglas high school renovation, and the Thunder Mountain new high school, both for Juneau. The J-D High School has the primary vocational spaces for the District, and the project included the reconfiguration of the wood shop and metal shop to incorporate teaching spaces and computer/ CAD spaces adjacent to the traditional shops. Thunder Mountain provided more of an introductory level of vocational space, including a small engine lab, and a flexible wood shop and integrated technology space.

As Project Manager, Mr. Voelckers will be responsible for all contract negotiations with Skagway, and function as the point of contact for critical project variables, including the overall budget and timeline. He will also be involved hands-on, participating in the sketching and development of vocational building options, pro-con analysis, and construction budget estimates.

As the project moves into detailed construction documents, he will maintain daily involvement, with a particular focus on appropriate detailing, consultant coordination, design schedule, and budget management.



Skagway School District -Vocational Educational Building



PART B



Sitka High School Renovation

### C. Proposed Project Team

The MRV design team for the Skagway Vocational Education Building will include the following individuals and roles. More detailed information on project responsibility, experience, and individual resumes follows this organizational summary.

Architect and Project Manager:Paul Voelckers, AIA; MRV, Principal and Manager<br/>Zane Jones, AIA; MRV, Lead ArchitectMechanical Engineer:Doug Murray, PE; PDC/Murray & AssociatesElectrical Engineer:Ben Haight, EE; Haight and AssociatesStructural Engineer:Chris Poulsen, PE; PDC/R&M EngineeringCivil Engineer:Mark Pusich, PE; PDC/R&M EngineeringCost Estimating:Ehsan Mughal; HMS, Inc. of Anchorage

All engineering consultants proposed for this project are Juneau-based. The mechanical, structural, and civil engineering offices, while Juneau-based, have just been purchased by PDC Engineers to create a new Juneau branch to complement their Anchorage and Fairbanks offices. Each named engineer will function as project managers with direct design control, but with the ability to draw on the full staffing and expertise of PDC Engineers, as required through the project.

MRV Architects has worked for years with PDC and the local engineers in a shared engineering role, including engineering on the Walter Soboleff Building in Juneau. It has been a very successful and efficient pairing, and "tested the waters" for this PDC acquisition.

#### **MRV ARCHITECTS**

MRV Architects is a Juneau-based architectural practice. We are one of the first architectural practices in the State, with professional incorporation in 1954. The current President, Paul Voelckers, became a partner in 1989, and principal owner in 2011. Our portfolio of work crosses the State, with an emphasis on design in maritime or coastal Alaska, from Ketchikan to Kodiak. MRV Architects' project types span a broad range, including schools, libraries, museums, offices, housing, industrial spaces, visitor facilities, and master planning. Our practice is stable and mid-sized, varying slightly depending on work load. We have designed and delivered many of the largest projects in Southeast Alaska, including the \$60,000,000 Thunder Mountain High School, giving us the expertise to successfully manage and deliver complex projects.

Our staff currently numbers seven, with three registered architects. Our modern offices in Juneau include the most current design and production capabilities, and show-case our environmental and energy-efficiency skills as the first LEED-certified private sector project in Alaska, earning LEED-Silver.

MRV Architects has a particular skill in adaptive renovation and early project option analysis. Given this experience, we have been utilized by the Foraker Predevelopment group on at least fifteen study projects which have relevance to the Skagway Vocational Education building, with similar focus on option analysis, review of multiple strategies, and cost estimating. Two such Foraker projects have been completed for Skagway – the library expansion, and the proposed Senior Center and Senior Housing building.

#### PDC ENGINEERS

PDC Inc. Engineers (PDC) is a 100-percent employee-owned Alaska firm created from mergers over the years of six Juneau, Anchorage, and Fairbanks firms. In 2016, PDC acquired two prominent Southeast engineering firms – R&M Engineering and Murray & Associates. Together they are a full-service engineering, planning, and survey company that has proven its effectiveness in the delivery of professional services to their Southeast clients for more than 40 years. The PDC total staff of 111 offers a comprehensive array of engineering expertise.

As identified earlier, in the MRV approach and work plan, a variety of facilities will be evaluated to determine whether it is most cost-effective to renovate either within the high school, or pursue a new build west of the school gymnasium.

PDC excels at providing surveys that identify: Life safety issues and code deficiencies to provide safe environments -Foundation and framework deficiencies and code violations - Seismic evaluations based on ASCE standard 31-03: Existing Buildings - Envelope energy analysis - Assessing remaining equipment and systems service life - Opportunities to reduce maintenance and operational costs such as consolidating equipment or simplifying system operation.

PDC prides itself on working closely with rural communities during these inspections to ensure that all known issues are identified, and to achieving concurrence on recommended solutions. PDC also is skilled with the use of thermal imaging technologies (IR cameras). This is an ideal tool to help PDC's building inspection team quickly and accurately detect excessive heat loss, electrical issues, potential water damage, and condensation issues in concealed spaces.

Shops and Vocational Training Facility Experience: PDC has a long history of helping successfully execute over 60 industrial shop or vocational training facilities projects throughout Alaska and is considered an expert in the field. They have provided civil, structural, mechanical, electrical, and fire protection designs for several term contracts for vocational facility improvements. These facilities have a unique blend of demands and PDC is considered an expert in the field. Recent relevant projects include, the Galena City School District for the Galena Interior Learning Academy (GILA), and the Alaska Vocational Technical Educational Center in Seward.

**Skagway Civil Experience:** PDC (through R&M) has performed the site topographic survey for the Skagway School well which was located on the northwest side of the school building. The survey identified the northwest corner of the school and the public ball fields adjacent to Alaska Street. In addition, PDC has designed the roadway and utility improvements for Alaska Street in 2000 which, although somewhat dated, shows general underground utilities and drainage on the west side of the site where the existing tennis court is located and the new build site is identified as. We have no subsurface information for the Skagway Public School building.

Skagway Mechanical Experience: PDC (through Murray and Associates) has significant local experience in Skagway.

#### Skagway Boat Maintenance Building, Skagway 2015

Services Provided: Two phased project included new waste-oil fired heating via radiant floor, electronic control systems, exhaust fan ventilation, oil-fired domestic hot water, and plumbing systems. Approximate Total Mechanical Construction Cost \$220,000. Reference Matt O'Boyle Harbormaster, (907) 983-2628.

#### Skagway Public Library, Skagway 2014 (With MRV)

#### Client: Municipality Skagway Borough, 2013

Services Provided: Mechanical design, construction services, and inspections for a remodel and addition to the 4,500 sq. ft. public library. Mechanical systems include forced air coil-fired ventilation, exhaust fans, oil tank, ceiling fans, crawlspace exhaust, domestic plumbing, and electronic controls. Approximate Total Mechanical Construction Cost \$200,000.

#### White Pass & Yukon Route Railroad Depot, Skagway 1996 (With MRV)

Services Provided: This fast-track project included new ventilation and exhaust system, building automation control system and an extension to the hydronic heating system and wet sprinkler system. Spaces include a large main lobby, gift shop, inventory storage, and small offices. Approximate Total Mechanical Construction Cost \$190,000.

#### Skagway Recreation Center, Skagway 1999

Services Provided: Mechanical engineering for a two phased project that renovated the building mechanical ventilation and plumbing systems and an extension to the building on the north side. Heating piping system and heating units were renovated. Ventilation ductwork was reconfigured and renovated.

#### Skagway Structural Experience:

Hotel and Restaurant – 4th and State St., Skagway 2015. Approximately 7,000 sf addition to an existing structure including a hotel and restaurant. Design included concrete foundation and wood structural framing.

Skagway Boat Harbor Maintenance Building, Skagway 2014 Approximately 6,400 sf. Design included concrete foundation design for pre-engineered metal building.

#### Skagway Ore Terminal, Skagway 2009

Approximately 35,000 sf. Design included concrete foundation and structural steel framing.



#### HAIGHT & ASSOCIATES

Haight & Associates, Inc. has provided Electrical Engineering services throughout Southeast Alaska since 1980. Their work involves various categories of electrical systems with diverse types of facilities. They provide state of the art power distribution, lighting, lighting controls, data & voice networks, and "clean" energy systems.

Haight and Associates holds all necessary business (#291165), corporate (#670), and professional occupational licenses and general, commercial, and professional liability insurance coverage including workers' compensation and vehicle insurance. Their professional engineers are registered in the State of Alaska. Relevant Projects

UAS Regional Maritime & Career Center, Ketchikan: Remodel of approximately 20,000 square feet of instructional space. With this project, the Robertson wing will be upgraded to facilitate a marine pilot training center with bridge simulators. The Hamilton wing will be completely renovated with a new welding shop and power technology shop. The power distribution system will be upgraded for service equipment in the Hamilton wing. All new lighting with LED light sources will be provided in the Hamilton wing while some of the fluorescent lighting in the Robertson wing will be replaced with lighting using LED sources. The data and voice network will be updated to facilitate the new bridge simulator program and the renovated Hamilton wing. This project is currently in design with construction scheduled for 2017.

Prince of Wales Vocational & Technical Education Center: A new facility was constructed in Klawock to provide medical, carpentary, auto mechanics, computer technology, and welding education. The facility includes classrooms, a laboratory, and shops. The lighting involved both fluorescent and LED technology with low voltage controls. A voice and data network employed a fully fitted horizontal system with data rack and Category 5e cabling.

Sitka High School Vocational Education Facility Addition: This project extended the existing wood technology and welding/metals technology shops. The extensions allow for more extensive carpentry, auto mechanics, improved welding education, and metal technology training. The existing power distribution system was extended and upgraded to serve the entire facility. The lighting for the addition used fixtures with LED light sources. Their new low voltage controls allow for better energy conservation.

Haines School District Vocation Technology Building: This existing facility was renovated in 2015 with an upgraded power distribution system and new LED lighting. This work was completed along with the renovation of the heating and ventilation system.

**Skagway Projects:** The following are Skagway projects performed by Haight & Associates, Inc. Gateway Dock Reconstruction. The design for this project is partially completed. The scope of the electrical work includes new lighting for the dock and barge landing, new power distribution, and renovation of the utility power and communication circuits inside the project area.

Skagway Airport Terminal: New terminal facility with ticketing, offices, restrooms and a waiting lounge at the south end of the airfield.

Skagway Airport: This project involved the construction of a new runway paralleling the previously existing runway, and conversion of the previous runway into a taxiway. The electrical systems include runway and taxiway edge lighting, guidance signs, and navigational lighting.

Sea walk and Uplands: The uplands adjacent to the small boat harbor, extending from the Railroad Dock toward town has been upgraded with a new sea walk, restroom building, and landscaping. The project involved modifications to the utility distribution in the area.

#### HMS, COST ESTIMATING:

HMS has collaborated on several upgrade, renovation, and new Vocational/Education projects. A list of these projects include Sitka High School Voc-Ed Addition, Haines School District Vocational Technology Building Mechanical and Electrical Upgrades, Central Middle School Vocational Shop, Computer and Science Tech Room Upgrades, Bristol Bay School Voc-Ed Wing Renovation, Naknek High School Voc-Ed Building, Old Harbor School Gym and Voc-Ed Renovation.





PROFESSIONAL REGISTRATION: Architect, Alaska, No. 6536 USGB. LEED Accredited Professional EDUCATION Masters in Architecture, Harvard University.

Juneau Planning Commission 2014- present

#### Paul Voelckers, AIA, LEED AP President, MRV Architects Principal-in-Charge, Project Manager

Paul brings to his work a talent for listening to his clients and turning their desires into highly functional and appropriate projects. He has been with the firm since 1981, and excels at leading multi-disciplinary teams through a collaborative design process to deliver notable, timely projects. He has extensive experience in planning, programming, site analysis, construction documents, and contract administration. Paul's projects include many of the largest projects in Southeast Alaska. He is passionate about incorporating community input into design solutions so that each project is perfectly suited for its users.

#### **RELEVANT PROJECTS**

UAS Tec Vocational Center (Juneau), Skagway Library Expansion, UAS John Pugh Residence Hall (Juneau), USFS PNW Office/Lab (Juneau), Thunder Mountain High School (Juneau), Juneau-Douglas High School Renovations, Sitka High School, Ketchikan High School,

#### REFERENCES

RORIE WATT, CBJ ENGINEER Cordova Library & Museum, 907-586-5240 MICHAEL HARMON, DIRECTOR OF ENGINEERING, City and Borough of Sitka, 907-747-1823 DR. ROSITA WORL, DIRECTOR, Sealaska Heritage Institute 907-463-4844



PROFESSIONAL REGISTRATION: Architect, Alaska, No. 117779

> EDUCATION Masters in Architecture, Arizona State University



**PROFESSIONAL REGISTRATION:** Alaska, No. ME 7870

**EDUCATION** MSME, University of Alaska Fairbanks

**AFFILIATIONS:** City and Borough of Juneau Building Code Advisory Committee 1993-present

#### Zane Jones, AIA, LEED GA Lead Architect, MRV Architects - Design and Production

Coming from a background in construction, Zane has valuable hands-on experience. He enjoys working closely with contractors in order to ensure quality and aesthetics. Most recently, his skills were applied to the Juneau Housing First project, creating a very successful (CM/GC) Construction Management/General Contractor project delivery.

Relevant Projects: Skagway Senior Center and Housing, Marine Exchange Offices & Shop (Juneau AK), Juneau Housing First, Sitka Public Library Expansion, Cordova Community Center, USES PNW Offices & Research Lab (Juneau AK).

REFERENCES

ED PAGE, DIRECTOR, Marine Exchange of Alaska 907-463-5078 MARIYA LOVISHCHUK, DIRECTOR, Juneau Homeless Shelter 907-586-4159

#### Doug Murray, PE Principal, PDC Juneau (Formerly known as Murray % Associates) **Principal Mechanical Engineer**

Doug has 32 years of experience as a mechanical engineer, and is a Principal at PDC. He was Principal of Murray & Associates located in Juneau which joined forces with PDC earlier this year. Doug has an extensive background in building mechanical systems in Southeast Alaska. He has a strong background in the design and commissioning of mechanical systems. He helps the owner see a complete picture of the mechanical systems choices, including initial costs, servicing and operation, and life expectancy. Doug is well-versed in alternate energy systems, including; geothermal and air source heat pumps, wood, propane and electric boilers, waste oil heating systems, and traditional oil-fired heating plants.

#### **RELEVANT PROJECTS**

Haines Schools Vocational Educational mechanical and electrical renovation project; the UAS Sitka Career and Technical Educational Facility; the Prince of Wales Vocational Technical Facility; Ketchikan Indian Corporation Academic and Training Facility.

#### REFERENCES

CHRIS REITAN, SUPERINTENDENT, Galena City School District 907.656.1205 ex 109 KIM MAHONEY, PE, PM, DOT& PF Public Facilities Branch, 907.269.0822 BRAD PERSSON, PE, PM, DOT& PF Public Facilities Branch, 907.269.0826





PROFESSIONAL REGISTRATION: Alaska, No. EE4800

EDUCATION BS Electrical Engineering Washington State University,

#### Benjamin Haight, PE President, Haight & Associates Principal Electrical Engineer

Ben Haight founded Haight & Associates originally in 1980 as BC Haight, Consulting Engineers. He has over 33 years of electrical engineering experience. Mr. Haight will be Principal-in-Charge and Project Manager. As the Principal in-Charge, Mr. Haight provides guidance to the staff defining standards of quality for both engineering services and work products, provides management of project resources, and provides technical leadership.

Relevant Projects: Skagway Air Terminal, Skagway Seawalk and Uplands, Skagway Gateway Dock Reconstruction. Sitka High School Vocational Education Center

#### REFERENCES

KEITH GERKEN, DIRECTOR, UAS Facilities 907-796-6498 RORIE WATT, ENGINEERING DIRECTOR, City and Borough of Juneau, 907-586-0877 MARC WALKER, FACILITIES MAINTENANCE MANAGER, Bartlett Regional Hospital 907-228-4725



PROFESSIONAL REGISTRATION: Civil Engineer, Alaska, 2014 (CE-14500)

> EDUCATION M.E. Civil Engineering, Utah State University, 2011



PROFESSIONAL REGISTRATION: Civil Engineer, Alaska, 1991, CE 8152 EDUCATION B.S., Forest Engineering, Oregon State University, Corvallis, Oregon (1985)



Skagway School District -Vocational Educational Building

### Chris Poulsen, PE

#### PDC Juneau, (Formerly known as R&M Engineering) Lead Structural Engineer

Chris will participate in the review of the existing possible structure and substructure, with recommendations to renovate or go with a new facility. He will assess the condition of the existing lateral force resisting systems of the existing buildings. If a new building or addition is to be used, Chris will provide the design for the addition, likely a pre-engineered metal building for a new facility. His experience includes coordination with the design team; working on CM/GC projects; and value engineering.

**Relevant Projects:** Fourth Avenue and State Street Hotel and Restaurant in Skagway, as well as the Alaska Court Plaza Building and the Tyler Rental New Building and Renovation.

#### REFERENCES

CHRIS REITAN, SUPERINTENDENT, Galena City School District 907.656.1205 ex 109 KIM MAHONEY, PE, PM, DOT&PF Public Facilities Branch, 907.269.0822 BRAD PERSSON, PE, PM, DOT&PF Public Facilities Branch, 907.269.0826

### Mark Pusich, PE

#### Principal, PDC Juneau (Formerly known as R&M Engineering) Principal Civil Engineer

Mark will serve as the Lead Civil Engineer providing oversite in the preparation of the schematic design, initial site/soils review of the existing buildings and making recommendations as to renovation versus new build from a site/utility/soils perspective.

Relevant Projects: Skagway School, Alaska Street, Skagway Senior Center

#### REFERENCES CHRIS REITAN, SUPERINTENDENT, Galena City School District 907.656.1205 ex 109 KIM MAHONEY, PE, PM, DOT&PF Public Facilities Branch, 907.269.0822 BRAD PERSSON, PE, PM, DOT&PF Public Facilities Branch, 907.269.0826

#### Eshan Mughal Estimator, HMS Estimating

Eshan will provide cost estimating at critical points of the design process to ensure the design and approach align with the owners budget. Eshan and HMS Estimating have a long history of working throughout Alaska, and understand the complexities associated with design and construction in the state.





USFS Research Lab (Juneau)

#### UAS Vocational Technical Education Building:

MRV Architects has performed a number of contracts for upgrades and renovations to the UAS TEC Building. This facility is a unique vocational facility, including an automotive and power mechanics portion that is used jointly with the adjacent J/D High School, and providing business-linked programs, including mining and maritime training capability.

MRV design services have included a number of tasks, most significantly an overall building renovation that developed multiple conceptual options for UAS consideration. These options reconfigured the entire facility, reconstructing previous teaching and shop spaces to provide better flow and a focus on new priorities, such as mining. Other design contracts have included the renovation and construction of individual teaching spaces and labs within the building, and contracts to replace roofing, and siding upgrades.

Reference Keith Gerken, Director of Facilities UAS, 907-796-6498



Voc Tec Marine Welding Building



#### **Skagway School District -**Vocational Educational Building



#### **D.** Firm Resources and Experience

MRV Architects has been in continuous practice as a professional corporation since 1954, with changes in partners over time. We have a state-wide reputation for our professional project delivery, partnership with owners, and design quality. Our mid-size firm, with three registered architects on staff, has the capacity to efficiently perform all services associated with the Skagway Vocational Building. We will utilize Revit, the industry leading 3D BIM modeling program for design and construction documents, including consultant design for mechanical and structural systems. This allows testing for coordination conflicts during the design process.

Relevant Projects: The following information profiles six relevant MRV projects, including vocational educational projects and the Skagway Library, a recent remodel project. Each includes project details and owner references.

#### Skagway Library:

The Skagway Library project, completed about three years ago, almost doubled the useable space of the library, with a focus on meeting space, expanded adult reading areas, better technology and data capability, and separated children and youth areas. Other focus of the project included much greater window area and daylight, making the building more inviting to the community and pleasant to use.

The project was initially started through the Foraker Predevelopment Program. After that, MRV Architects was selected to complete the design through final Construction Documents and assist in Construction Management.





Main Entrance

Reference

Facade Rendering

#### Sitka High School Vocational Expansion: (un-built proposal)

MRV Architects paired with Dawson Construction to propose a design-build solution for a vocational lab expansion at Sitka High School. MRV was a short-list finalist for the project to provide a 3,600 sq.ft. expansion to the existing vocational spaces. The addition included an auto shop area with 4 auto lift bays, a metal shop set up to facilitate boat welding and repair, and a construction shop with overhead crane for modular construction projects.

#### Reference



907-747-1823







Automotive Shop Renderings

MRV

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#### Thunder Mountain Vocational Wing:

This \$60,000,000 new high school for Juneau, located in the Mendenhall Valley, provided a comprehensive four-year high school with several unique organizational aspects. The Vocational Training program in this school was designed to work in tandem with the more comprehensive vocational spaces located in the existing Juneau/Douglas High School downtown, including the automotive shops in the UAS TEC building, and very capable wood shop and metal shop labs in the high school vocational wing.

Consequently, Thunder Mountain provided introductory-level vocational spaces and training that fed students to more advanced students downtown. Vocational spaces at Thunder Mountain included a wood shop, which also functioned for set preparation for the theatre, a CAD/robotics/technology classroom, and a small engine classroom.





Facade

Reference Deb Morse, Director of School Facilities (retired) 907-723-8727

#### Juneau Douglas High School:

This \$22,000,000 renovation project for Juneau/Douglas high school included partial renovations to the wood shop and metal shop vocational areas. Both labs were already very sophisticated, due to earlier funding that built the labs as part of a community college program (also with MRV). Renovation work included a reworking of interior space to create instructional space within the wood shop, and create a CAD lab. Technical systems, such as dust collection, data, and lighting, were comprehensively reworked.





Main Entrance

Reference Deb Morse, Director of School Facilities (retired) 907-723-8727

**E. References** - Please see additional references listed with project individual resumes.

