FORMAL PROJECT APPROVAL

Name of Project: **Sitka Career & Technical Education Center Renovation**

Location of Project: **UAS Sitka Campus**

Project Number: **2011-01**

Date of Request: **December 9, 2010**

Total Project Cost:	**$ 3,410,000**
Approval Required:	**Formal Project Approval**

Reference Materials:

Total Project Budget

Draft Concept Plan

UNIVERSITY OF ALASKA

Project Name: UAS / Sitka Open Hangar Area

MAU: UAS

Building: Sitka Campus Center — Date: 6/25/2010

Campus: Sitka — Prepared By: W.H WK Gerken

Project Title: Open Hangar Remodel — Account No.:

Total GSF Affected by Project: 9,300

PROJECT BUDGET		Amount
A. Professional Services		
Consultant Basic Services	15.0%	390,000
Consultant Extra Services	2.5%	65,000
Testing		-
Plan Review / Permits		40,000
Other		-
Professional Services Subtotal		**495,000**
B. Construction		
General Contractor		2,360,000
Other Contractors		-
Construction Contingency	10%	236,000
Art	0.5%	15,000
Other (Interim Space Needs)		-
Construction Subtotal		**2,611,000**
Construction Cost per GSF		281
C. Equipment and Furnishings		
Equipment		55,000
Furnishings		55,000
Make Ready/Move In		-
Equipment and Furnishings Subtotal		**110,000**
D. Administrative Costs		
Advance Planning		-
Misc. Expenses		
Project Management	6%	190,000
Administrative Costs Subtotal		**190,000**
E. Total Project Cost		**3,406,000**
Total Project Cost per GSF		$366
F. Total Appropriation(s)		**$3,409,980**

University of Alaska Southeast
Career and Technical Education (CTE) Center Renovation
Project 2011-01
Draft Concept Design
November 8, 2010

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NorthWind Architects

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Project Overview

This project is the final phase of a series of renovations and infill construction begun in 2006 to create spaces to meet the changing needs of the today's student population. The focus of this project is twofold: to create environments for teaching and learning in a virtual world and to produce more opportunities for local students and the distance community to learn about green building technologies and earn certifications in this emerging industry. Key components are:

- Expansion of the current Learning Center to create a Student Success Center (SSC) that caters both to students who physically come to campus and as well as those who attend the University in the virtual world.
- Renovation and expansion of Instructional Design which is the key to helping instructors create materials and learn how to teach students they never meet face to face.
- A new computer classroom.
- Enclose and reconfigure the wood workshop area on the ground floor to accommodate teaching a large variety of technologies related to energy efficiency and renewable energy including building construction.
- Creation of a multi-purpose teaching space that can support the use and demonstration of a variety of different equipment types and technologies.
- Storage space for archives.

A secondary goal is to address key health and safety issues. In 2010 a condition assessment of the building identified building deficiencies. Although not all can be adequately addressed with the money available, this project will focus on the following:

- Provide an approved second means of egress from the commons area.
- Improve way finding; it is incredibly easy to become disoriented in the existing building.
- Enclose the wood shop and install dust collection and ventilation systems.
- Reconfigure the art room to segregate functions which cause dust and fumes from the common work area.
- Installation of ventilation and dust collection systems in the art room.
- Improve performance and energy efficiency of the building systems.
- Improving conditions in the open hangar area.

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Non-Traditional Teaching

85% of UAS Sitka's enrolled students participate in some form of distance delivery to meet their educational needs. This can take many forms. Blended classes simultaneously teach traditional students and those participating online, while some are only available in a virtual format. In addition faculty may also present web based lectures which are coupled with hands on lab work students can perform at a local university or high school in partnership with UAS Sitka.

What does an on-line university look like? This project focuses on two types of users: the **student** who attends a class while physically isolated from peers, teachers and staff; and the **instructor** who presents and produces class material to teach students from a distance.

Instruction Design Center

At UAS Sitka the **Instruction Design Center (IDC)** is charged with helping instructors make the transition from traditional "bricks and mortar" teaching to teaching via technology. The IDC works with instructors to

- Help them determine how best to meet their pedagogical goals virtually.
- Create the materials that will be presented to students to illustrate lectures.
- Develop interactive tools instructors can employ to promote student discussion such as blogs and virtual blackboards.
- Provide support to instructors throughout the semester.
- Provide tutorials for instructors to hand out to students on use of technology and software programs.
- Provide training for instructors in using software associated with virtual teaching such as *Elluminate Live* and hardware such as Tandberg video conferencing.
- Lends equipment to instructors.

The IDC is cramped in their existing 445 square foot office, and the demand for their services is expanding rapidly as more instructors move their curriculum to an online format. Their space also lacks adequate telecommunications and electrical outlets and capacity. Our space program identifies a need for 1,530 square feet for the IDC. The existing computer classroom is poorly laid out for teaching hands on courses such as computer skills and at 1268 square feet is larger than the required 830 square feet. Currently two offices adjacent to the computer classroom are used for Information Technology and storage. If a new home can be found for these functions this area is ideal for the IDC.

Student Success Center

This will be a one stop shop for all students. Advisors will be available in person, on the phone and online to provide all the services a student needs for success at UAS Sitka. This includes:

- Counseling on classes and programs
- Discussion of prerequisites
- Registration for classes
- Financial Aid
- Payment
- Tutoring
- Career Advising

Students will be able to take *Elluminate Live* classes at the SSC, and instructors will be able to record these classes. Rooms for *Elluminate Live* will be sound proof and designed so that mechanical and other systems do not create background or white noises that can interfere with recording . These rooms will be fully equipped to record and attend online classes. Currently no such rooms exist on the UAS Sitka Campus. Several should accommodate more than one student. Tutoring, which now takes place in the open areas of the Learning Center, would also take advantage of these rooms. Tutors will be able provide their services online as well as in person. All rooms will be accessible for disabled individuals.

The SSC will continue the core functions of the existing learning center. Key is the testing center, which provides services for UAS students as well as the larger community of Sitka. Test rooms must be monitored at all times by proctors. Windows looking into the test rooms as well as video cameras and audio recorders will be utilized.

The Learning Center is the one place on campus traditional students can go to find a quiet study area and it is used regularly. The SSC will provide a similar space to meet the needs of these students and continue to provide computer terminals for student research. The existing reference library of hard copies of materials can be greatly reduced.

Transitions for Traditional Classrooms

The most recent renovations at UAS Sitka provided the ability for the university to offer blended classes in the health sciences. In addition a state of the art video conference room was installed. This project will continue this trend and add video capabilities to several other classrooms to allow more programs and departments to offer blended classrooms. A clean classroom is required by both the Art program and Building Technology Program to present classes which do not require hands on training and are good candidates for blended teaching. We have identified rooms 106 and 112 as classrooms which would benefit from an upgrade in technology so they can be used to teach blended classes.

Building Technology

UAS Sitka is rolling out a new Building Energy Retrofit Technician (BERT) curriculum which will be the first in series of programs to teach vocations related to "green" technologies.

Construction Technology Lab

For years residential design and other construction courses have been held in the open, unmodified and unconditioned portion of the aircraft hangar; it has long been a goal to build a proper workshop. The introduction of BERT makes the need for an enclosed and ventilated space more critical. The lab will be used to teach cold climate construction, building diagnostic and testing as well as residential construction. The students will work on individual sections of a wall to learn such skills as insulating and proper window installation. Each student will work on a prepared assembly measuring four foot square. There is also the need for a demonstration area in the lab. The room will be wired for simulcast web conferencing for distance learners.

The key to making this space useful in the future is flexibility. We envision work benches lining the walls and central work tables which can be moved. Power will come from above and be supported on hinged brackets.

There is a need for a great deal of storage space to accommodate the pre-assembled building components and the materials and samples used in the lab. We envision all items to be on palettes which can be stored vertically in racks located in the open hangar space. The palettes can easily be moved with the use of a forklift.

Demonstration Classroom & Lecture Hall

Another component for the building technology program is the ability to showcase new equipment and techniques for continuing education of workers in the construction trades. Such equipment might include a hydropower turbine engine, a wood pellet boiler, or the latest solar equipment.

This space could dovetail the longstanding need for a multi-purpose space. Uses would include:

- Job Fairs.
- Exercise Classes.
- Lectures and movies to seat up to 60 people.
- Advisory Council Meetings.

Again a key component is flexibility. Adequate chair and table storage must be provided and the furniture must be able to be configured in a variety of arrangements.

Building Upgrades

Currently fire egress from the commons area runs through the open hangar area. This is not code compliant. A simple solution is to create a corridor along the east side of the hangar to connect the commons to the doors at the south side of the building. This corridor can provide the main entrance to the new construction lab.

Additionally this move can improve way finding in the building. We can identify a main rectangular circulation space on each floor by using color (either on the walls or floor) in these locations that can be seen down the corridors.

The open hangar space has become a repository for the storage of many items. Currently student files and archives are in this space. This is neither secure nor convenient. This project will relocate the files to an area of the recently built mezzanine that has been engineered to carry heavy loads.

The open hangar space will continue to be used for storage of construction materials as well as for special projects and could be the site of job fairs, art shows and other community activities if some minor changes are made such as:

- Improved lighting; new lights will be more energy efficient than the existing fixtures.
- Defining storage areas and the purchasing appropriate racks and shelving.
- Building a cover over the side entrance near the overhead door.
- Replacing the overhead door with a better insulated unit.

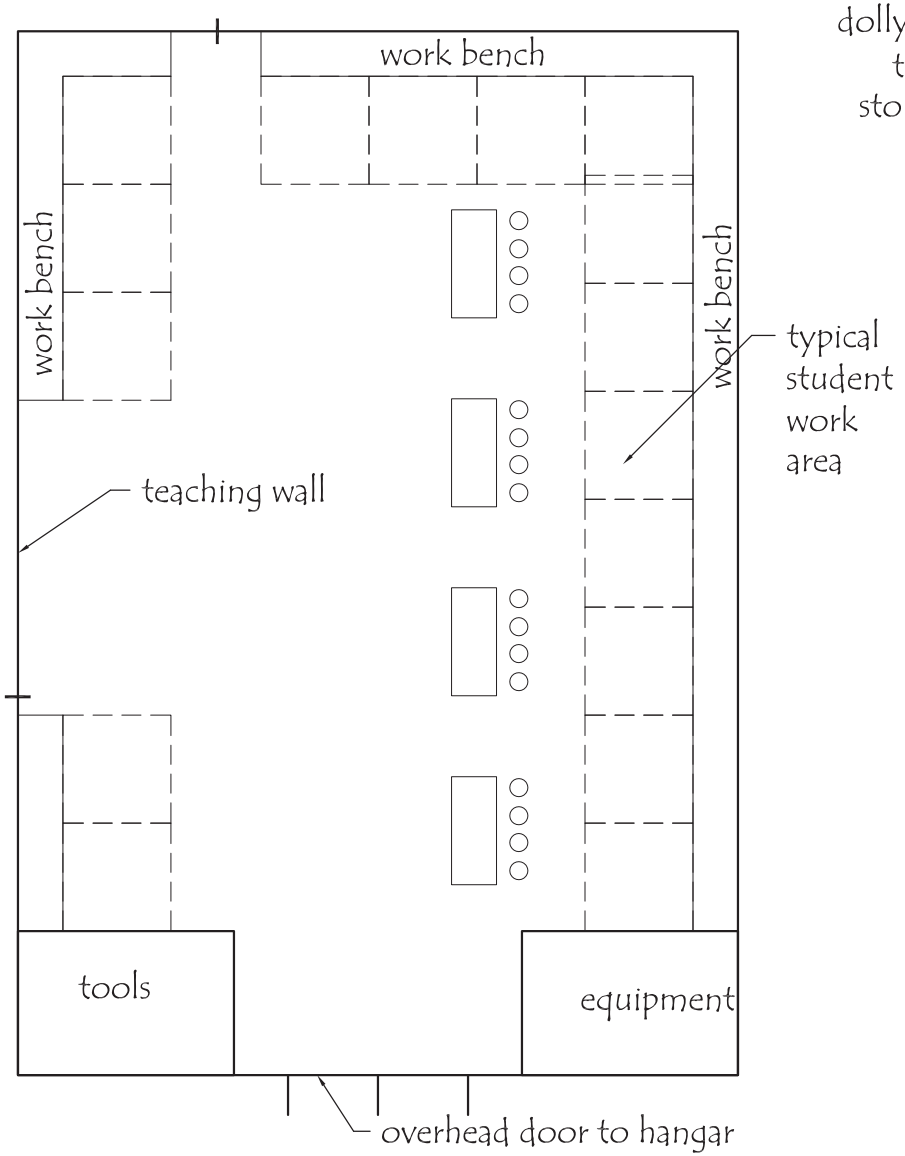
The Art room should be totally reconfigured to provide separate areas for the fine hood, storage of glazes, clay mixing and sandblaster. This space must be properly ventilated. Two electric kilns currently are located in the open warehouse area. They should be re-located to a secure, ventilated space.

University of Alaska Southeast
Facilities Master Plan
SPACE PROGRAM

	Unit	#	Value/ Unit	Total SF Net	Adjacencies	Comments
Student Success Center						
Reception/Welcome Area	sf	1	200	200 sf		
Central Quiet Study Area	sf	1	480	480 sf		
Computer Lab	person	8	20	160 sf		computers for incidental student use - could be part of quiet study area & Ref
Reference Area	lf	40	5	200 sf	computer lab	Assume 4 shelf high units
Supply Storage	1	60	1	60 sf		Assume 4 shelf high units
Soundproof room - individual use	sf	3	80	240 sf		For recording & viewing Elluminate classes
Soundproof room - 2-3 users	sf	2	144	288 sf		also used for tutroing; training on Elluminate
Testing						
Office	sf	1	400	400 sf	testing rooms	two workstations; files; viewing audio/video from test rooms
Secure Storage	sf	1	150	150 sf		
Testing room Large	person	8	30	240 sf	testing office	
Testing Room Small	sf	2	48	96 sf	testing office	one must be accessible
Advising						
Offices/workstations	sf	4	120	480 sf		
Secure Student Records Storage	sf	1	120	120 sf		
Subtotal				2,914 sf		
Circulation, walls, etc.	30%			874 sf		
TOTAL Gross Square Feet Student Success Center				3,788 sf		
Instructional Design						
Workstations/offices	sf	2	120	240 sf		Either open to space or glazing into larger area
Equipment lease	sf	1	35	35 sf		
Teacher Use stations - laptop	person	3	60	180 sf		
Teaher Use stations - fixed equipment	person	3	60	180 sf		
Meeting area	1	1	200	200 sf		
Secure Storage	sf	1	200	200 sf		
Soundproof room - 2-3 users	sf	1	144	144 sf		training for Elluminate, Tandberg
Subtotal				1,179 sf		
Circulation, walls, etc.	30%			354 sf		
TOTAL Gross Square Feet Instructional Design				1,533 sf		

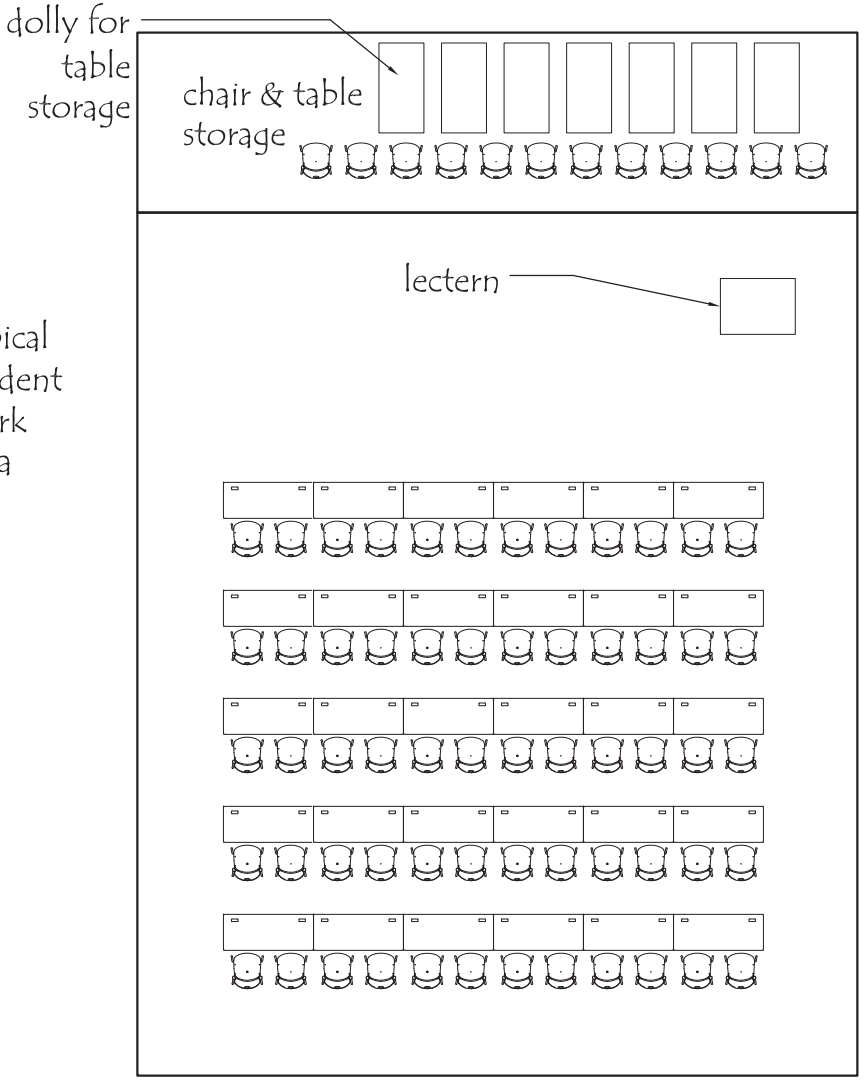
University of Alaska Southeast
Facilities Master Plan
SPACE PROGRAM

	Unit	#	Value/ Unit	Total SF Net	Adjacencies	Comments
Building Technology						
Construction Tech Lab						
Student Work Benchs	person	16	60	960 sf		
Demostration Area	sf	1	225	225 sf		
Equipment Stations	ea	4	60	240 sf		
Tool Storage	sf	1	200	200 sf		
Student Lockers	ea	48	3	144 sf		
Subtotal				1,769 sf		
Circulation, walls, etc.	30%			531 sf		
TOTAL Gross Square Feet Construction Tech Workshop				**2,300 sf**		
Storage						
Panel/component/material storage	sf	1	320	320 sf		in warehouse space - 0n shelves; accessed by fork lift.
Wood Storage	lf	3	80	240 sf		could be located outside
Metal Storage	sf	2	144	288 sf		in warehous space
Demonstration classroom/lecture hall						
Student seating	person	60	18	1,080 sf		
teaching station	sf	60	1	60 sf		
Demo Area	sf	1	200	200 sf		
Subtotal				1,340 sf		
Circulation, walls, etc.	30%			402 sf		
TOTAL Gross Square Demo Classroom				**1,742 sf**		
chair & table storage	person	60	5	300		
Files						
Storage Room	sf	1	400	400 sf		high density storage units
Computer Classroom						
student stations	person	15	35	525 sf		
teaching station	sf	60	1	60 sf		
support tech stations (printer, etc.)	sf	30	2	60 sf		
Subtotal				645 sf		
Circulation, walls, etc.	30%			194 sf		
TOTAL Gross Square Feet Computer Classroom				839 sf		



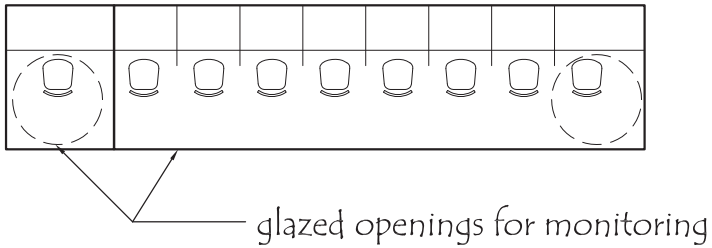
Construction Technology Lab

capacity: 16

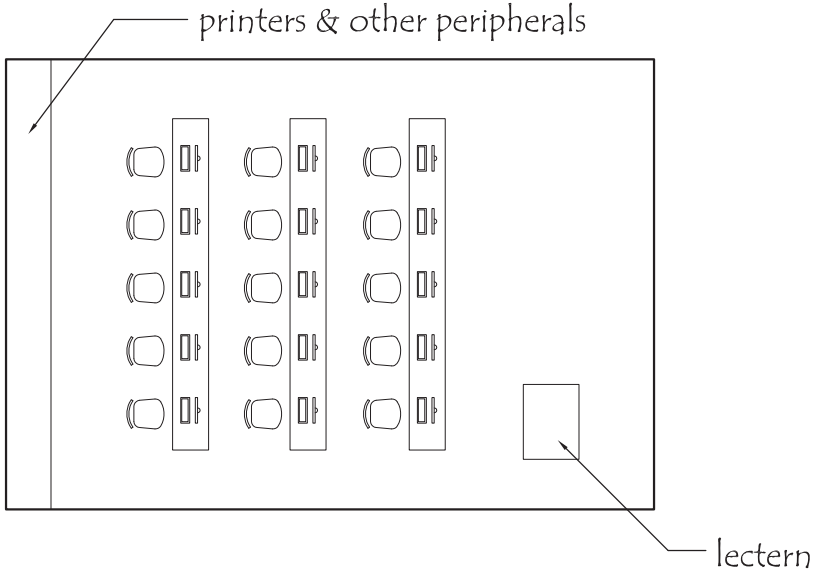


Demonstration & Lecture Hall

capacity: 60

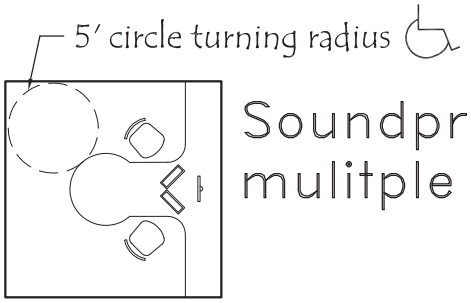


Testing

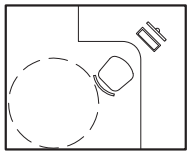


Computer Classroom

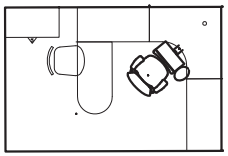
capacity: 15



Soundproof room mulitple users



Soundproof room single user



Typical Advising Office

FIRST FLOOR PLAN

LEGEND

- = CLASSROOM (18683 SF)
- = STUDENT RESOURCES (3733 SF)
- = BUILDING SUPPORT (7688 SF)
- = CIRCULATION (10166)
- = ADMINISTRATION (1377 SF)

SECOND FLOOR PLAN

university of alaska sitka campus existing space use diagram
Career and Technical Education (CTE) Center Renovation

FIRST FLOOR PLAN

LEGEND

- = STUDENT SUCCESS CENTER
- = CONSTRUCTION TECH LAB
- = MECHANICAL ROOM
- = ART ROOM IMPROVEMENTS
- = IT
- = COMPUTER CLASSROOM
- = FILES
- = DEMO & LECTURE HALL
- = IDC
- = CIRCULATION

SECOND FLOOR PLAN

NORTH

university of alaska sitka campus concept diagram
Career and Technical Education (CTE) Center Renovation

Northwind Architects Nov. 8, 2010