

AIA Alaska

A Chapter of the American Institute of Architects



2020 Frank Maier High School Design Competition - *55th Anniversary* *“Equality Exchange”*

INTRODUCTION AND HISTORY

The Alaska Chapter of The American Institute of Architects (AIA Alaska) is pleased to announce the 55th Anniversary of the AIA Alaska Frank Maier High School Design Competition. The competition is an annual architectural design challenge sponsored by the Alaska Chapter of the American Institute of Architects. Frank Maier, a Juneau Architect, started this program in 1965 and managed it personally for the first twenty years. Following his death in 1991, AIA Alaska elected to name the competition in his honor. Now, in its sixth decade of success, the competition continues to expose Alaskan high school students to architecture and the profession.

Throughout the years the competition has challenged hundreds of high school students with a variety of building types and sites of Alaskan relevance. Past programs have included both rural and urban sites for a wide range of facilities such as a Library of the Future, Rural Air Taxi Facility, Talkeetna Ski Chalet, Urban Coffee House, Youth Hostel, Wellness Retreat, Wilderness Retreat, Whale Watching Census Station, Visitor Centers, and Mt. Denali Cabin to name a few. The program has evolved to encourage student’s development of computer aided design (CAD) and building information modeling (BIM) software skills. Energy efficient and sustainable design solutions are now being emphasized in the design programs. All entrants will be provided with a certificate of participation. Four place winners will be awarded a cash prize and their design submissions posted on the AIA Alaska website.

SUBMITTAL REQUIREMENTS & RULES

Eligibility: Any student (grade 9-12) presently enrolled in Alaska high school classes may submit one entry.

Time Allowed: Competition work shall be accomplished between January 30, 2020 and April 18, 2020.
Entries must be postmarked by Saturday, April 18, 2020

Supervision: All competition work shall be performed by the entrant under the supervision of a high-school faculty member, preferably, but not restricted to, an Art, Drawing, Computer-Aided Drafting, or Manual Drafting Instructor. The competition may be accomplished as a part of class work or as an extracurricular project. Entrants may work at home. Additional assistance may be provided from local Architects and staff that are able to visit classrooms.

Required Deliverables: At a minimum, each submittal shall include:

NARRATIVE: Provide a short written statement, approximately a page in length, describing your project in your own words. The narrative should be single spaced in 11 point font. This narrative could include some practical considerations that shaped your design, or a description of why your solution may differ from the provided requirements in some way. Attach the page with a paper clip to the drawing and include the same identification information as the drawings to ensure we will associate the correct narrative with the correct design. The intent is for the design to speak for itself, but the narrative portion is critical and will be reviewed as part of the judging process, and may be used to clarify and establish cause for awards. The narrative portion of the project is a good way for the designer to learn how to express their ideas verbally as well, in preparation for any future presentation of his or her work.

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Required Deliverables (Cont.):



SITE PLAN: Show your design solution as it relates to its context. Show surrounding features, walkways, potential parking areas and site entry areas, benches, signs, trees or other landscaping and physical features, etc. that show how your design solution would be used, and how this facility will incorporate into its setting.

FLOOR PLAN(S): At a scale of $1/8" = 1'-0"$, draw a floor plan for each level of your building (s). All floor plans shall be the same scale.

ELEVATIONS: At a scale of not less than $1/8" = 1'-0"$, draw at least two elevations of your building best describing your project. Alternatively, you may submit one elevation and one three-dimensional or isometric drawing. All elevations shall be the same scale, and preferably, match the scale of the floor plan.

BUILDING SECTION: At a scale of not less than $1/8" = 1'-0"$, show a cross section of your building.

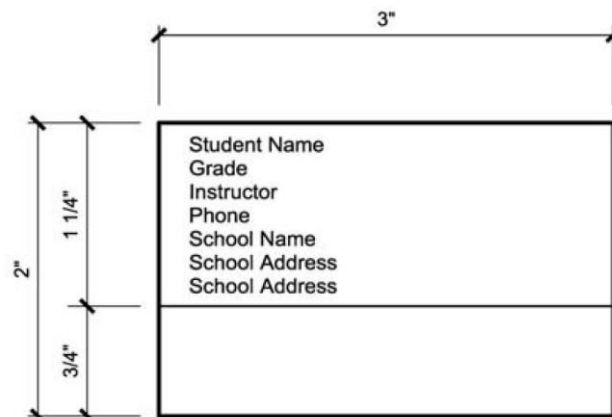
OPTIONAL DRAWINGS: If time permits, you may wish to add additional drawings (within the one sheet limit) to your presentation that further describe your design solution. These may include enlarged details to stress the importance of the enclosure or materials, interior or exterior perspectives to highlight the space, vignettes, furniture layouts, diagrams, or other miscellaneous sketches. Keep in mind that the idea is to express your design solution in the best way possible, not to fill the page with as much information that may or may not add to the understanding of the project.

Format: Each entrant's design solution shall be drawn in pencil, ink, or using CAD software and rendered if desired. The project shall be illustrated on **ONE sheet** that shall measure **22" x 34"**. No other sizes will be accepted. Multiple sheets will not be accepted. **ALTERNATIVELY**, the drawing may be submitted electronically as a single, print ready PDF using 22"x 34" print format. **Electronic submission may be submitted on a disk, flash drive, or emailed.** The entrant shall be responsible for ensuring that line weights and colors print clearly in the PDF format and that the resolution is clear at when printed at the required print size. Electronic submissions will not be returned.

Drawing Title: Somewhere on the sheet in a style and size of lettering of the entrant's choosing shall appear the following title:

2020 FRANK MAIER HIGH SCHOOL DESIGN COMPETITION
"Equality Exchange"

Student Identification: In the bottom right hand corner ($1/2"$ borders from paper edge) provide a $3" \times 2"$ box divided and labeled as shown below. Fill in the student identification information. (This will be masked prior to judging and will remain masked until winners have been selected.)



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Competition Judging: Judging will be done by a jury of members from the American Institute of Architects and winners will be selected on the following basis:



- Quality of Design and Creativity 40%
- Success in Satisfying Design Requirements 20%
- Graphic Quality (presentation, clarity, line weight, etc.) 20%
- Completeness (includes required drawings/documents) 20%

Awards and Notification: Certificates of achievement and cash prizes will be awarded to the top four entries selected, in the following manner. All projects will be reviewed and given comments describing successes of the design solution and areas for improvement.

- First Place Award \$300.00
- Second Place Award \$250.00
- Third Place Award \$200.00
- Fourth Place Award \$100.00

All participating schools will be notified of results by email and certificates/Awards placed in the mail by May 3, 2020.

Mailing: Entries shall be **postmarked no later than Saturday, April 18, 2019**. Air mail in a sturdy mailing tube to the address listed below:

2020 AIA HIGH SCHOOL DESIGN COMPETITION JURY
Attn: Richard Rearick, AIA
UMIAQ Design, LLC
6700 Arctic Spur Road
Anchorage, AK 99518

In addition, the supervising instructor shall airmail in a separate envelope a notice alerting the jury that entries have been mailed. **Please include a check for the amount of postage that will be required to return your entries.** Checks shall be made payable to: AIA ALASKA CHAPTER.

Tips:

1. Include all required drawings.
2. Maintain required room areas within approximately 10%.
3. Use correct drawings scales.
4. Floor plans, Sections, and all Text should use black lines only.
5. Label all of the rooms (at a readable scale).
6. Label all drawings with a drawing scale (i.e. SCALE: 1/8"=1'-0").
7. Use appropriate sized text. Text need to be sized so that they can be read when printed.
8. Provide well thought out circulation between spaces and rooms.
9. Provide furniture on the plans where appropriate.
10. Don't try to fit additional drawings on the sheet if there is not enough room.
11. Three dimensional drawings are encouraged, but not required. Competitors who have done well in the past usually have included some type of three dimensional drawing, but the quality of the design solution is more heavily weighted.
12. The most common shortcoming of student work is poor line weight, incorrect drawing scales, and incorrect room sizes.
13. Expect drawings to be pinned to a wall and observed from five to six feet away. Be attentive to correct spelling and lettering and dimensions at an appropriate scale.
14. Bear in mind that the sheet layout is a presentation of the design work as well. Careful consideration should be given to the layout as a design problem that needs a solution.

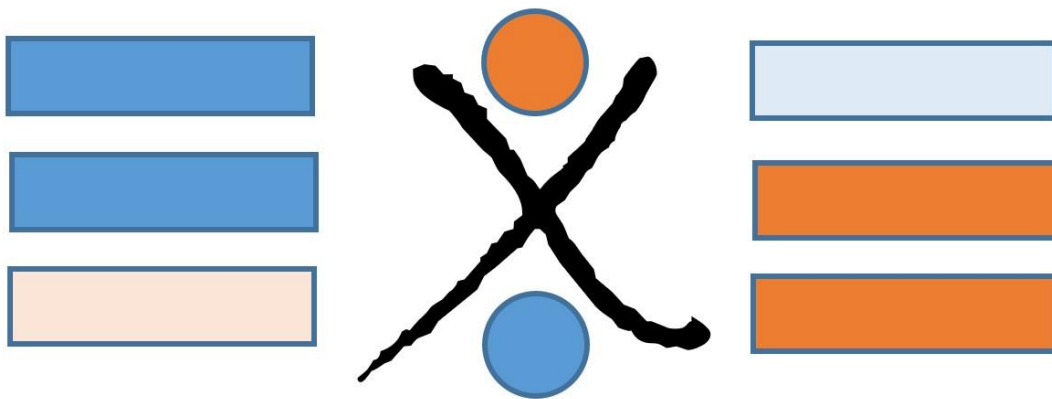
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DESIGN CHALLENGE “Equality Exchange”



There has recently been a lot of discussion in the national media about discrimination and our individual rights. Although Alaska’s issues do not always reach the national stage, Alaska struggles with many of the same issues with regards to discrimination that occur throughout our country. The Alaska Constitution was ratified by the People of Alaska on April 24, 1956 and became Operative with the Formal Proclamation of Statehood on January 3, 1959. Under Article I – Declaration of Rights, the Constitution imbues its citizens with Inherent Rights which states, *“This constitution is dedicated to the principles that all persons have a natural right to life, liberty, the pursuit of happiness, and the enjoyment of the rewards of their own industry; that all persons are equal and entitled to equal rights, opportunities, and protection under the law; and that all persons have corresponding obligations to the people and to the State.”* Additionally, the Alaska Constitution establishes protection of its citizens Civil Rights which states, *“No person is to be denied the enjoyment of any civil or political right because of race, color, creed, sex, or national origin.”*



Equality Exchange

Your design challenge will be to design an Equality Exchange that seeks to provide information, resources, and education to Alaskans about their rights under the Alaska Constitution, while promoting a spirit of equality, cooperation, and exchange of ideas among Alaskans. With this in mind, you are charged with creating a cooperative that will house resources for individuals or groups that will inform them about their rights, educate them about Alaska’s diverse citizenry, provide council on Alaska’s civil rights, and promote equality and fair exchange among the populous.

Your job as the designer will be to take the entirety of the program spaces listed below and organize them into a functional and cohesive space. It will be a place of peaceful, non-judgmental exchange of information, resources, ideas, and viewpoints. The Equality Exchange will not represent a specific group, but rather provide resources to individuals or groups seeking help or information while generally advocating for equality for all. It will not be a place for proliferation of negative rhetoric, stereotypes, hate speech, or used as a rally point for support or protest of a specific group.

This year’s program is about appreciating the diversity of your community and understanding the perspectives of others. Consider the nature of the facility and explore imaginative solutions that are expressive of this building typology. Most importantly have fun and enjoy the design process!

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Design Considerations:

The space shall be welcoming to all and convey a sense of diversity, equality, and community.

Consider how day lighting is used. Consider how the building relates to the natural setting. Consider how the character of the building purpose is expressed. Consider how the building can create an engaging atmosphere.

Individual areas should not deviate from the program by more than about 10%. It is intended that some of the program space may be open and overlapping. The building should have an obvious main entrance with a covered exterior area at the entrance. Other exterior doors should be provided to access outdoor spaces and as needed for egress. Other considerations include:

- Site orientation & relationship to the surrounding context.
- Natural lighting.
- Rain and snowfall.
- Security – Control of entries, lighting, circulation, restroom placement, etc.
- Site development – Pedestrian access, volunteer access, and open space.
- Relationship of high-traffic, high-noise spaces to quiet spaces – Private, semi-private & public.
- Visibility of the building & views from the building.
- Sustainability; such as ways to ventilate or naturally heat and cool the building, as well as other opportunities to reduce, reuse, recycle.
- Circulation inside and outside the building.

General Program Requirements:

The facility is located on a bluff in Anchorage, Alaska, overlooking the Knik Arm with views of Denali. It is near the State Courthouse and other State services. The site fronts on the corner of Third Avenue and K Street and has a significant drop in elevation on the north side, sloping to an existing parking lot. While street parking is provided, the program requires garage parking for four vehicles under the building that will be accessed from the existing parking lot. The main entrance shall be provided from Third Avenue and shall be accessible in accordance with the American with Disabilities Act (ADA).

The building may be multi-level.

Provide an elevator in addition to stairs to access all levels including the parking garage.

Provide roof canopy covers at Entrances.

A small resource gift shop and a meeting space that may be leased out shall be provided as a means to supplement the cost of operating the facility.

The facility will be staffed with volunteers except for one Equality Exchange Director that will manage the facility and one clerical staff member that will provide administrative support to the Director and the resource volunteers.

Office space shall be provided for a minimum of four resource volunteers advocating for the cornerstones of the rights conveyed by the Alaska Constitution that include race, creed, sex, and national origin.

Additionally, provide an office for a resource volunteer for the rights and resources for individuals with disabilities, and an office for a resource volunteer for rights pertaining to sexual orientation or gender identity.

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DETAIL PROGRAM “Equality Exchange”



Outdoor/Site Amenities:

- Assume parking for four cars in a garage below the Main Floor.
- Bicycle rack located near main entry.
- Consider landscaping at street frontage.
- Exterior area adjacent to building with table for four.

Parking Garage (four stalls @ 10’x20’)

800 sf

Spaces/Rooms – provide the following spaces:

Arctic Entry	80 sf
Information/Lobby area/Coffee Counter	120 sf
Public Restrooms - Uni-sex	80 sf
Uni-sex	80 sf
Uni-sex (family w/changing table)	100 sf
Admin Clerical Office with high counter (desk/copier, etc)	200 sf
Resource Volunteer	120 sf
Resource Volunteer	120 sf
Resource Volunteer	120 sf
Resource Volunteer	120 sf
Resource Volunteer	120 sf
Resource Volunteer	120 sf
Resource Volunteer	120 sf
Gift Shop	150 sf
Janitor	60 sf
Storage	40 sf
Mechanical/Electrical Room	100 sf
Manager’s Office	120 sf
Legal Advisor Office	150 sf
Large Meeting Space	300 sf
Resource Library	200 sf
Breakroom with counter, refrigerator, microwave	100 sf
Sitting Loft Area	120 sf
Outdoor Deck	<u>300 sf</u>

Subtotal Second Floor

3,020 sf

Circulation (stairs & elevator, corridors etc.)

350 sf +/-

(Note: Stair and elevator access shall be provided to all levels of the building)

Total Building Area

4,170 sf +/-

The facility needs to comply with the International Building Code, 2012 Edition, and the Federal requirements for accessibility (ADA). Please see attached sheet for accessible design requirements.

For questions or comments, please email me at Richard.Rearick@UICCS.com

Respectfully,

RICHARD REARICK, AIA, NCARB
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