



VICTOR CENTRAL SCHOOL DISTRICT
**TECHNOLOGY
BUILDING**

MAY 2019

ENGAGE • INSPIRE • IMAGINE



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VICTOR CSD TECHNOLOGY BUILDING



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SECTION 1 INTRODUCTION

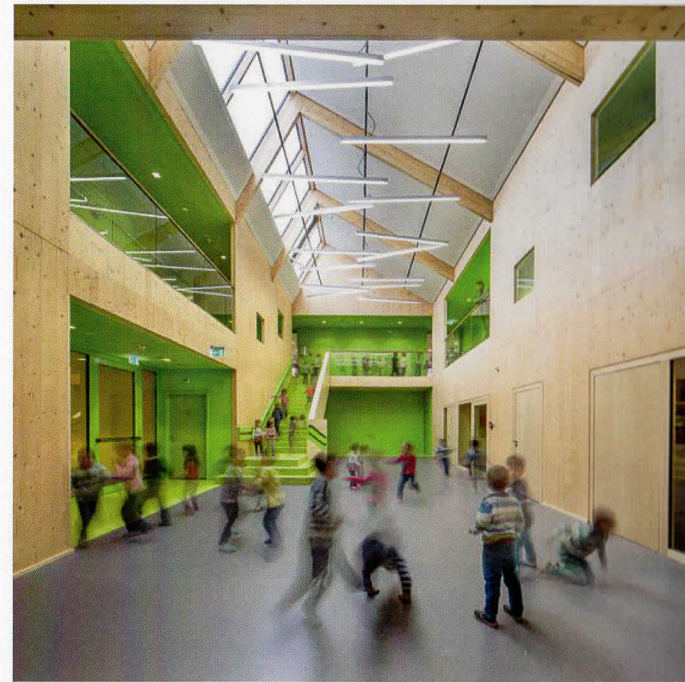
The technological advancements occurring in our world today are quite vast and ever expanding. That is pressing our students and teachers to study and teach cutting edge design, integration and implementation across the board. The enclosed is an exploration in providing collaborative working space around the First Robotics Competitions in a way that respects our resources, excites our minds, and provides a foundation for advanced learning.

Modernized Learning Space
Multi-Function
College Atmosphere
Community-Friendly

SECTION 2 INSPIRATION

MORDERNIZED LEARNING SPACE

Modern learning space is design that inspires collaboration across the ages. For not only is our role in design to inspire the students, but to inspire our teachers and our community to see beyond the now and to seek the future. Opening space to light, providing views to other exploration, and having flexibility to change as needed are inherent in the design. Our buildings can provide the means to open up learning for our entire community, and yet refined, highly legible style, which has been further enhanced by the use of upper case letters. The typeface is Montserrat Bold and has also been chosen to compliment and balance perfectly with the logo symbol.

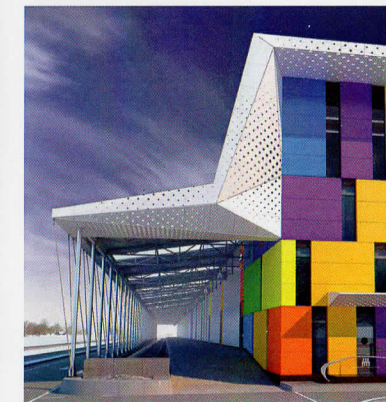


MULTI-FUNCTION + COLLEGE ATMOSPHERE



1. Collaboration happened in a variety of ways, each of us seeking the answer to the question. Some in small groups, some in large groups. Some across the internet, some at a desk top device and some on the glass board hanging on the wall.
2. Bright and colorful spaces that stimulate the senses with mobility of furnishings to flex at our whim.

COMMUNITY - FRIENDLY



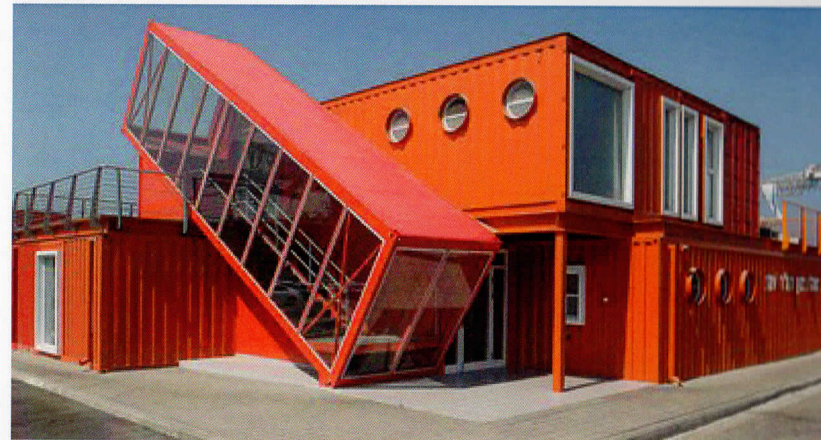
1. Inspiration comes across in all areas of our community. The First inspires group is more than a robotics competition. It is about sharing the strengths of our friends, our families and our communities. It teaches us about learning from the top down and from the bottom up. It teaches us to integrate the knowledge base of our local businesses and let them share in the resources, study and product that we generate.
2. Opening up our labs to the community and providing a space for collaboration to occur at multiple levels is key to the success of this facility. Knowledge is in fact power and it is that power we hope to send forward with not only our students, but our teachers and community.

Introduction
Projects
Advantages
Container Size
Structural Integrity

SECTION 3 BUILD WITH CONTAINERS

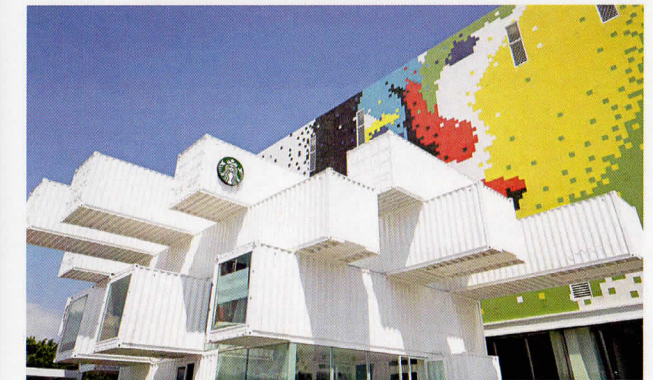
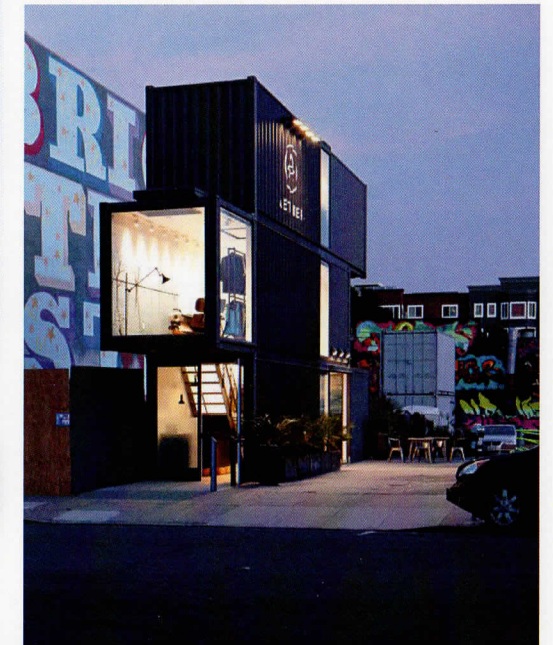
INTRODUCTION

There is growing interest in the use of shipping containers as the basis for habitable structures. These "icons of globalization" are relatively inexpensive, structurally sound and in abundant supply. Although, in raw form, containers are dark windowless boxes (which might place them at odds with some of the tenets of modernist design...) they can be highly customizable modular elements of a larger structure



Victor Central School District Technology Building

SHIPPING CONTAINER PROJECTS



ADVANTAGES OF CONTAINERS

- SUSTAINBLE
- SELF-SUPPORTED
- MODULAR
- EASY CONSTRUCTION
- FLEXIBLE
- PLAYFUL/UNIQUE

Prefab: Many container buildings are available as prefabricated modular elements, making construction time shorter. Some companies advertise delivery within 10 weeks! Most of the building code inspections are done at the factory, which makes things simpler and quicker. If you are designing a custom working space or building, the container gives you a fun prebuilt structure to work with.

Ease of transport and siting:

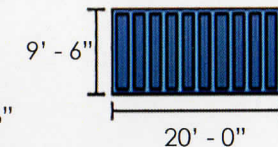
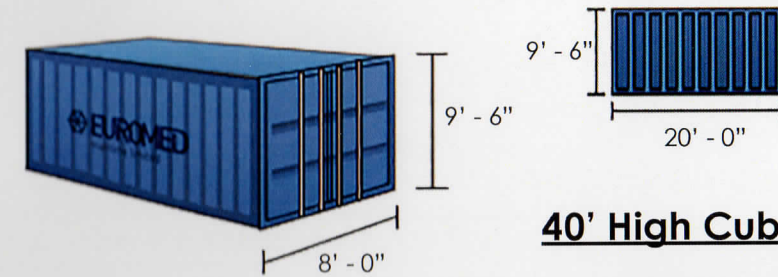
A worldwide system exists for moving containers around, and once they reach your site they are relatively simple to set in place on a prepared foundation. Predictable cost: Most of the work is completed on a factory floor for a fixed price. Delivery to the site, site preparation, foundation, assembly, and utility connections are the only variable costs.

Recycling: The environmental appeal of a container space is the idea that you are re-using a leftover product of the shipping industry to make viable working space



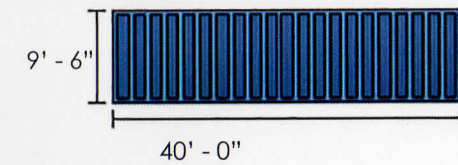
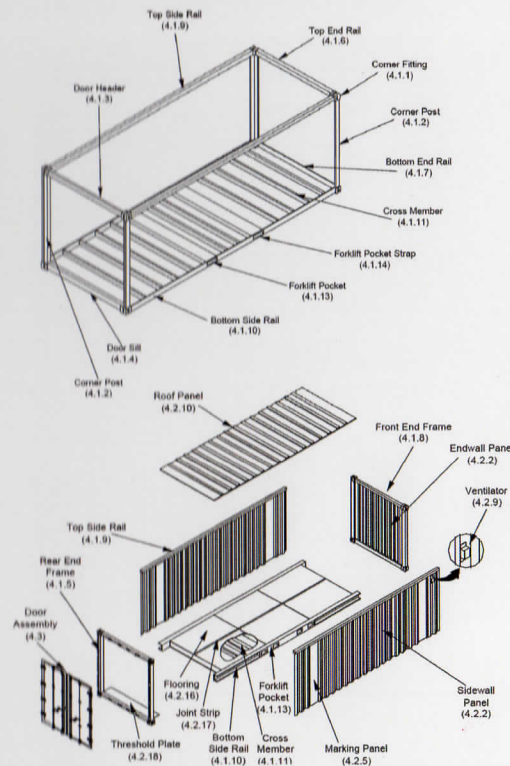
CONTAINER SIZE

20' High Cube Container



Interior Dimension
 L: 19'-3"
 W: 7'-8 1/2"
 H: 8'-10 1/8"
 Door W: 7'-8 1/4"
 Door H: 7'- 5 3/4"
 Capacity: 1,342 Cu.ft

40' High Cube Container



Interior Dimension
 L: 39'-5"
 W: 7'-8 1/2"
 H: 8'-10 1/8"
 Door W: 7'-8 1/4"
 Door H: 7'- 5 3/4"
 Capacity: 2,694 Cu.ft

STRUCTURAL INTEGRITY

Shipping/Cargo containers are built to be very sturdy. A steel frame is welded together, corrugated Corten steel is placed on the outside of the frame providing an exterior that can withstand everything thrown at it. Wood flooring is then treated and bolted down inside. Containers are designed for the corners to bear all loads, which allows them to be very strong and have the ability to be stacked up to sometimes 9 containers high.

4 Principles
Functional Programming

SECTION 4 PROGRAMMING & ANALYSIS

4 PRINCIPLES - FUNCTION / FORM / ECONOMY/ TIME



FUNCTION

- To provide collaborative space for more than one group
- Allowed to handle large scale play fields tied to First Inspires
- Adaptable to curriculum



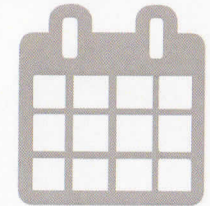
FORM

- College atmosphere
- Community Friendly
- Modular & Robotic Coception
- High Tech Inspired



ECONOMICS

- Reduction in buildout costs
- Reusable building components
- Sustainable sources
- Modular in design and cost
- Easily adaptable to growth
- Transportation of components is built in



TIME

- Modular construction can be built off site and assembled quickly
- Systems are in place to build components
- Installation time is greatly reduced

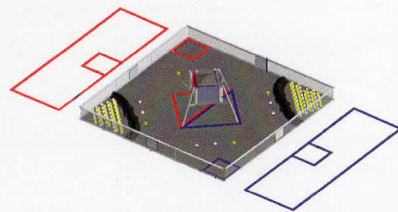
FUNCTIONAL PROGRAMMING

COMPETITION FIELDS

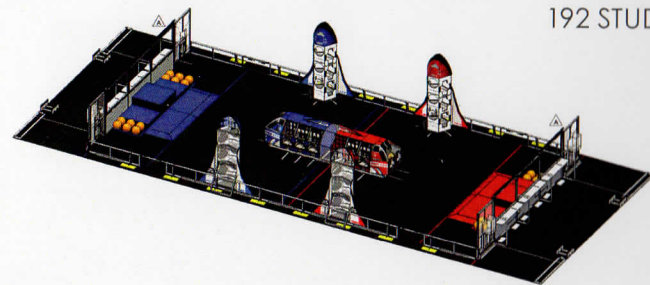
- WORK SHOP
- ASSEMBLY ROOM
- COMPUTER LAB
- LEARNING AREA

			
LEGO LEAGUE JR.	LEGO LEAGUE	TECH CHALLENGE	ROBOTICS COMPETITION
6 TEAM 6 PEOPLE/TEAM 36	6 TEAM 6 PEOPLE/TEAM 36	2 TEAM 24-30 PEOPLE/TEAM 60	1 TEAM 60 PEOPLE/TEAM 60

192 STUDENTS



FTC PLAYING FIELD



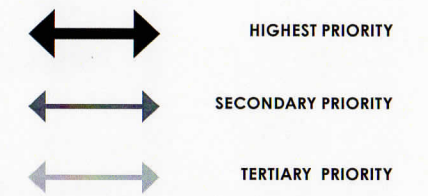
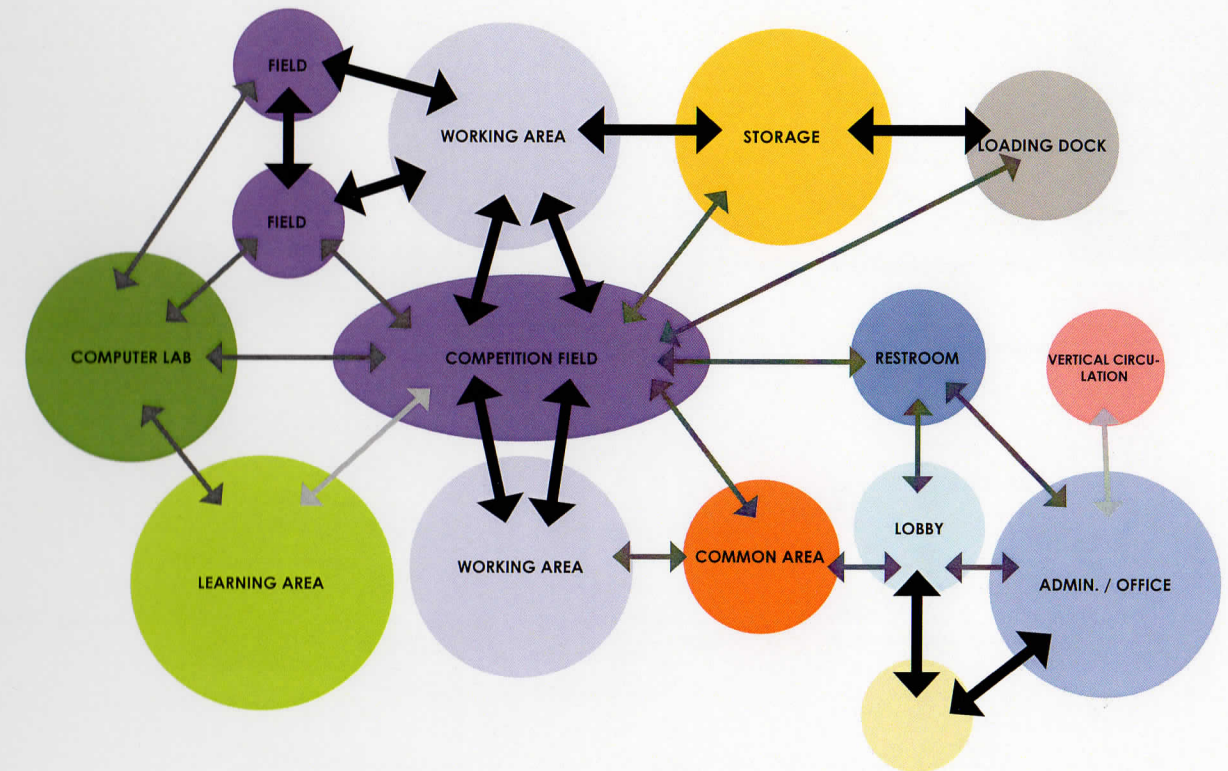
FRC PLAYING FIELD

COMMUNITY & ADMINISTRATION SIDE

BUSINESS OFFICE	4 PEOPLE
CONFERENCE ROOM	10 PEOPLE
COMMON AREA	10 PEOPLE
PUBLIC LEARNING AREA	20 PEOPLE

TOTAL 236 OCCUPANTS

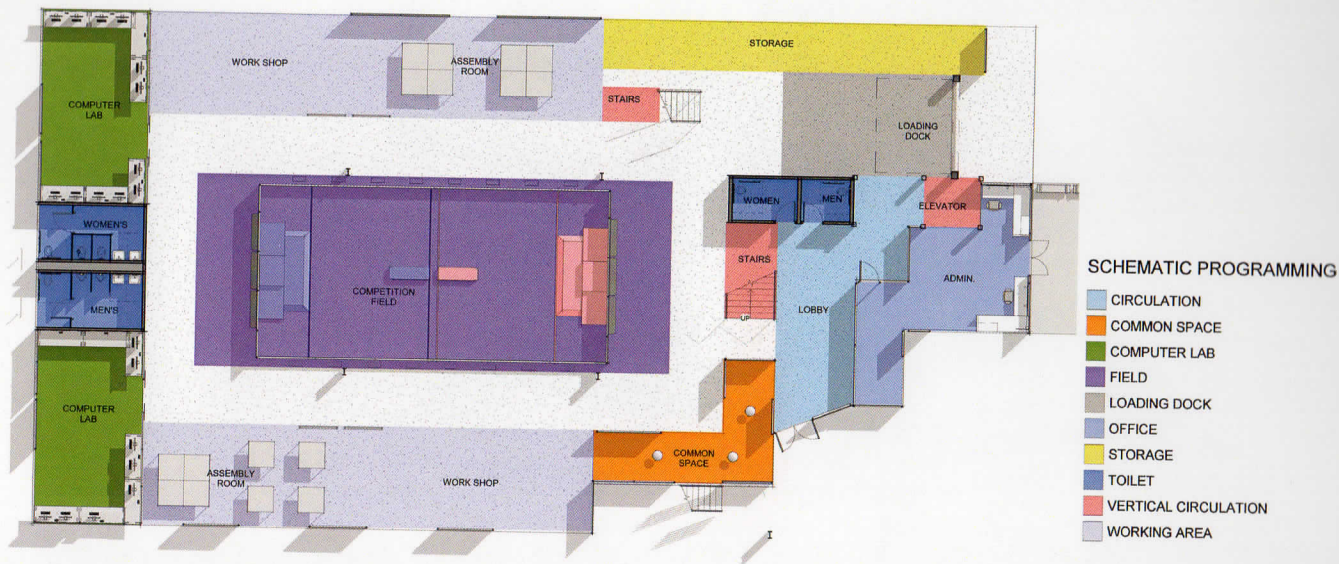
SPACE PROGRAMMING/ BUBBLE DIAGRAM



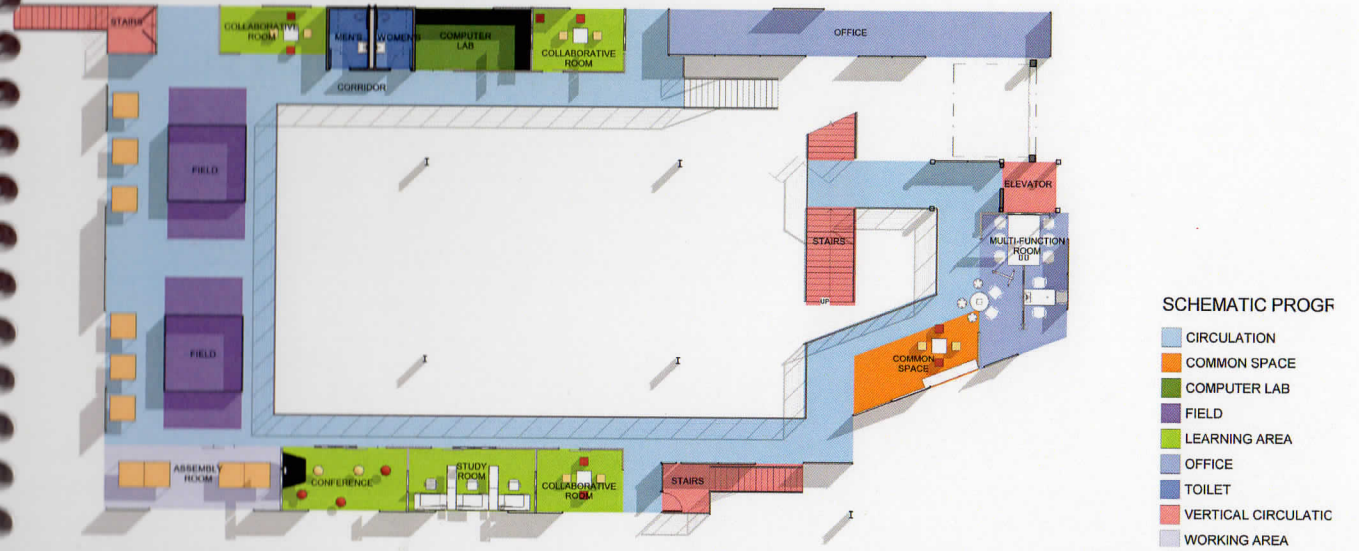
First Floor Plan
Second Floor Plan
Third Floor Plan
Section

SECTION 6 SPACE DESIGN

FIRST FLOOR PLAN



SECOND FLOOR PLAN



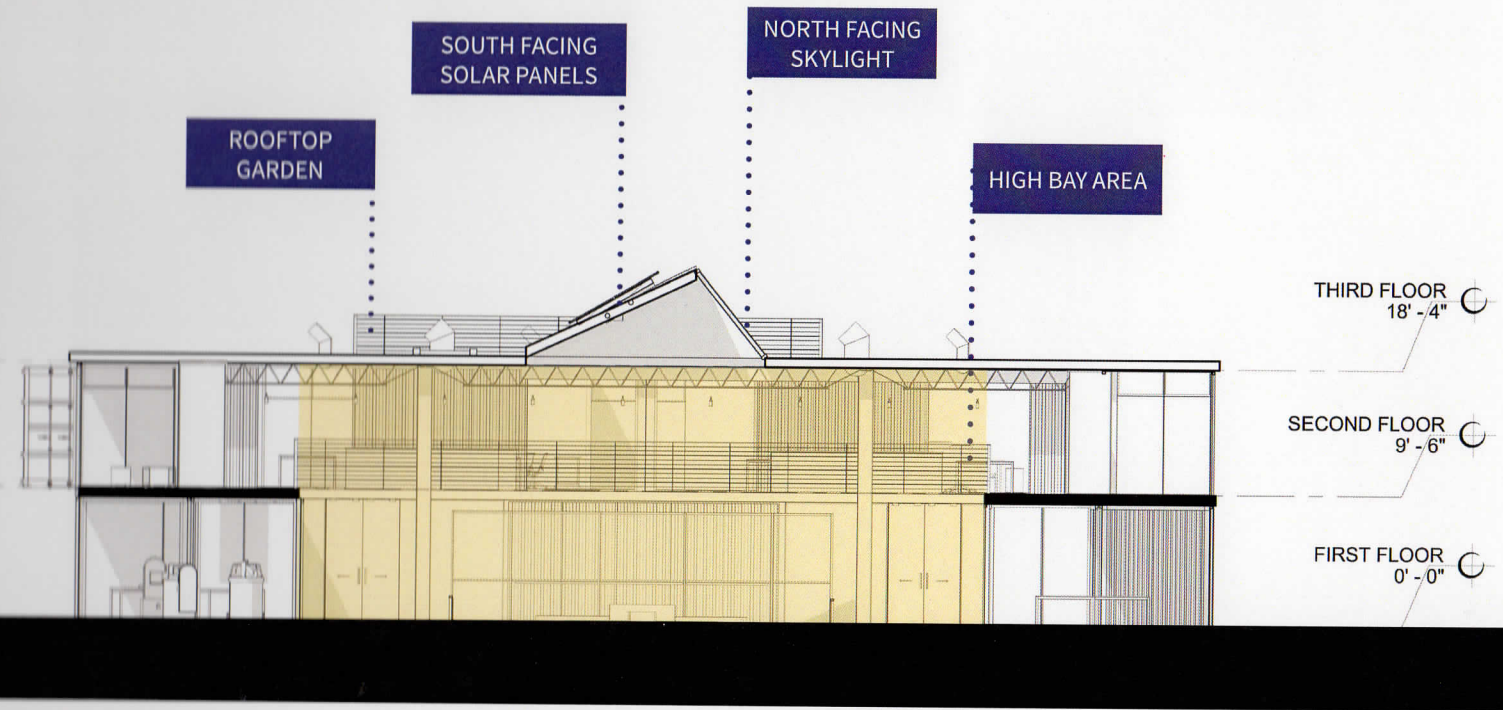
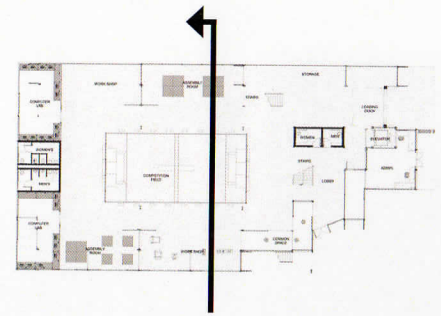
THIRD FLOOR PLAN



SCHEMATIC PROGRAMMING

- LEARNING AREA
- ROOFTOP GARDEN
- VERTICAL CIRCULATION

SECTION



Exterior
 Competition Fileds
 Office/Common Areas
 Computer Lab & Leaning Area
 Loading Dock & Storage
 Rooftop Garden
 Outdoor Learning Space

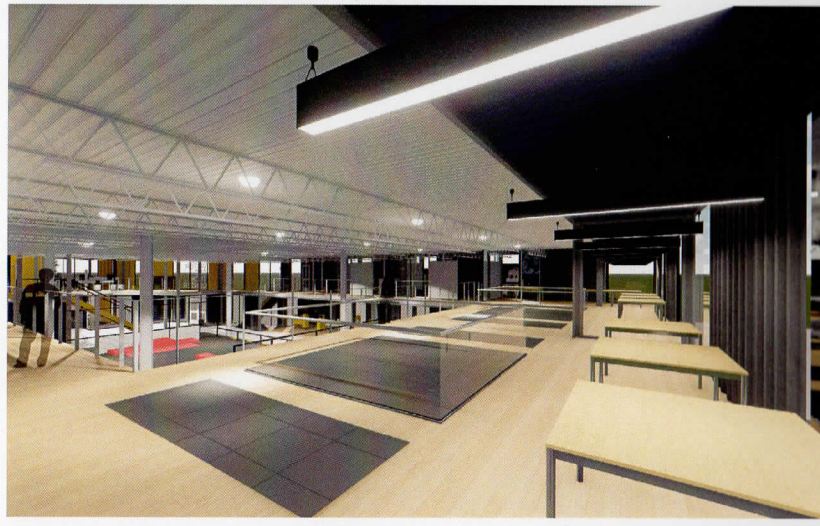
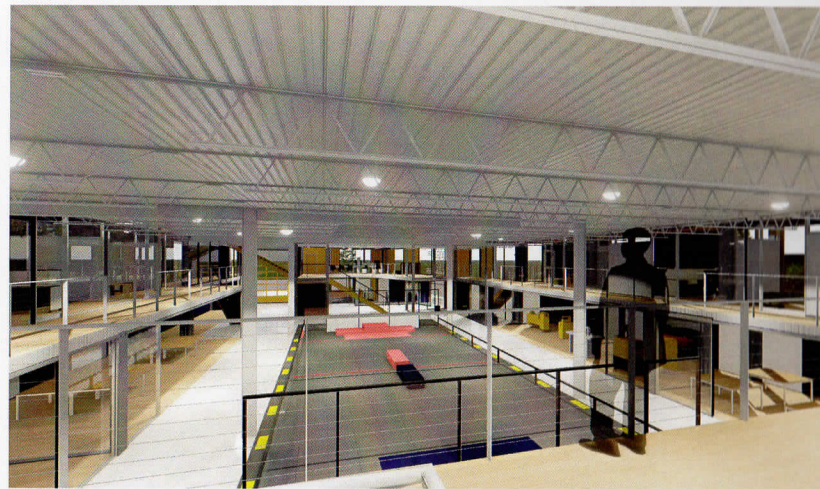
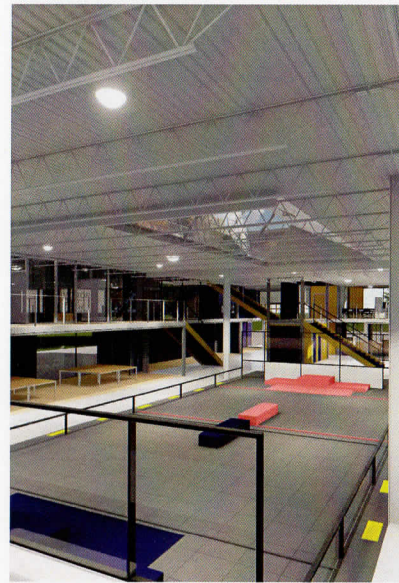
SECTION 7 FUTURE



EXTERIOR



COMPETITION FIELDS



OFFICES / COMMON AREAS



COMPUTER LAB & LEARNING AREA



LOADING DOCK & STORAGE



ROOFTOP GARDEN



OUTDOOR LEARNING SPACE



SECTION 8 ABOUT SEI



OUR STORY

In 2006, six dedicated design professionals got together with one goal in mind: deliver quality architectural projects to their clients with a specific focus on design, value, Owner satisfaction and creativity. One of the cornerstones of the firm was to assign two Owner level Principals to each client and develop a relationship of a "trusted advisor" with the ultimate goal of retaining a "client for life" synergy between owner and architect.

It is with this philosophy that the six original Principals started SEI (sei, the word for "6" in Italian) by leaving

a large design firm to start a venture on their own. Starting with one client, SEI has grown slowly and steadily over the last 13 years. At first the projects were small and staff were slowly added in late 2006 and 2007. By 2018, the firm has grown from one client to over 65, and staff growth has developed from six to 51, all focused on providing inspirational design for our clients.

DESIGN APPROACH

We help our clients and their organizations create an environment that not only will suit their needs but has room to grow. We are frequently approached to design schools, and large spaces for public use that are in transition. We plan for the now and help our clients plan and envision the future taking into consideration their budgets, growth, and changing educational climate.

Our clients select us because they know we will not only create the building they will use but a total experience including the interior areas and the outside landscaping so it all works together with the location they have available.

We bring solutions with our designs.



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SCAN TO VIEW OUR WEBSITE