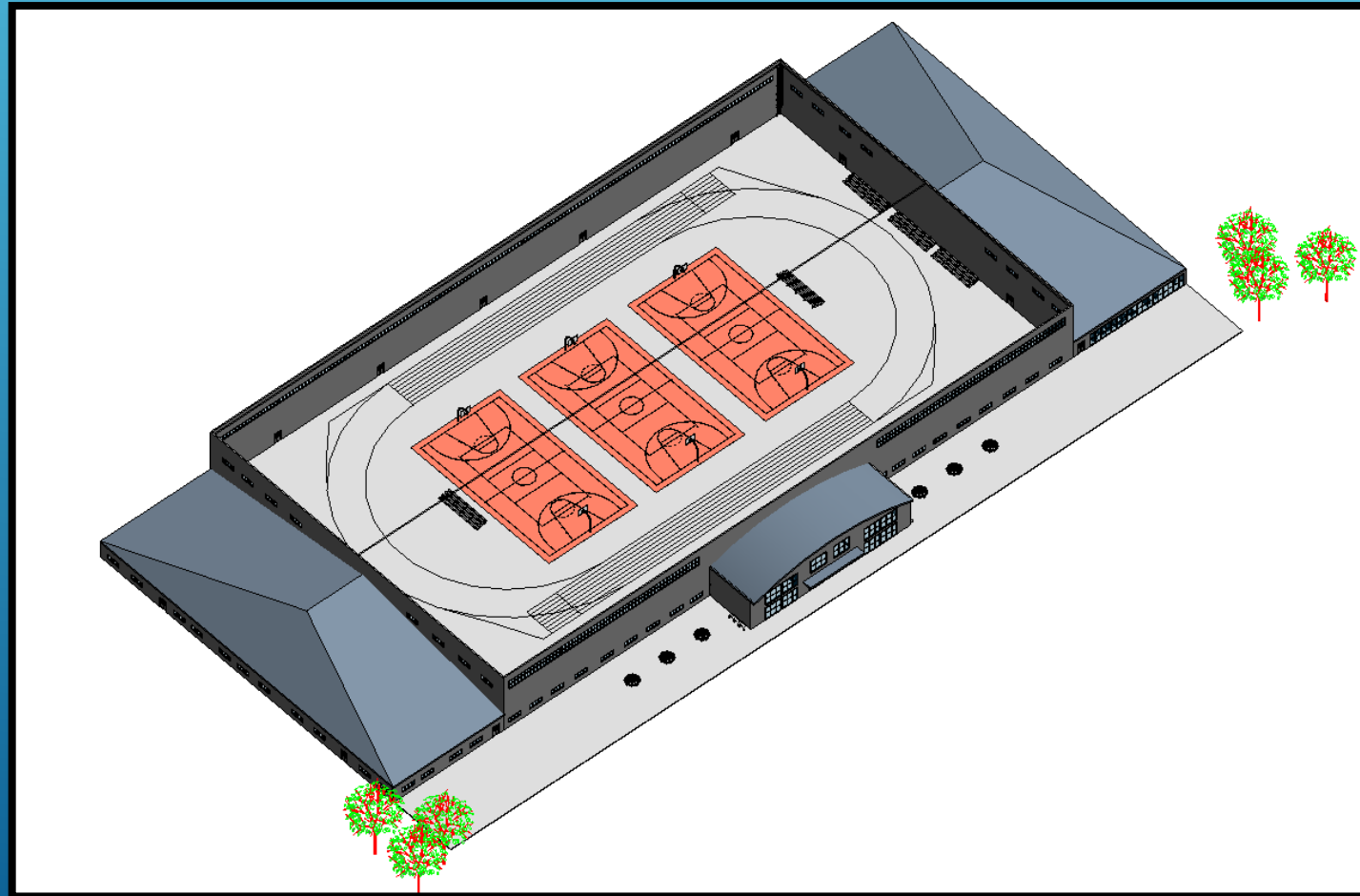



# STUDENT WELLNESS CENTER DESIGN

Presented by: Parke Martin, Zachary Karasek, Ryan Shirk



# PROBLEM STATEMENT

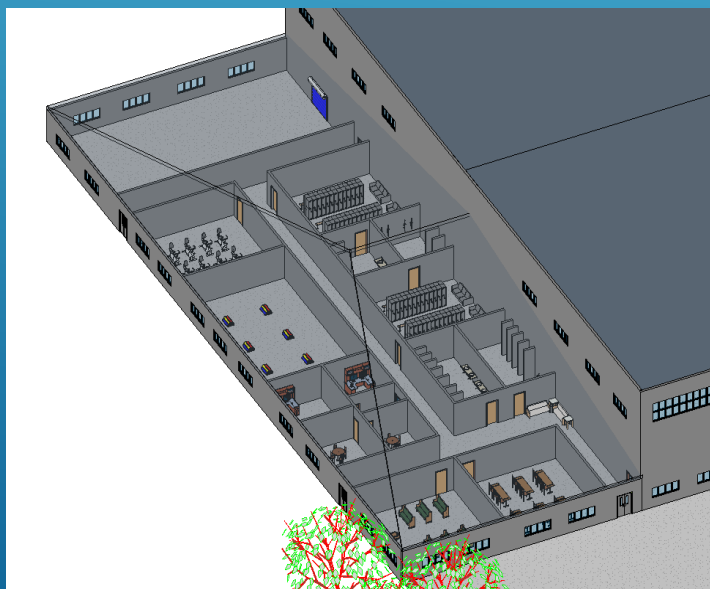
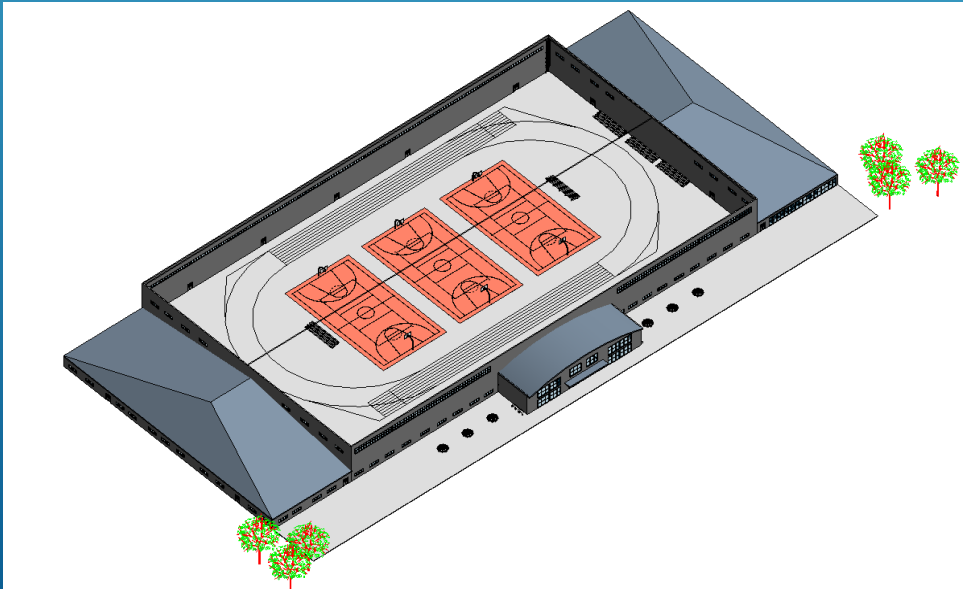
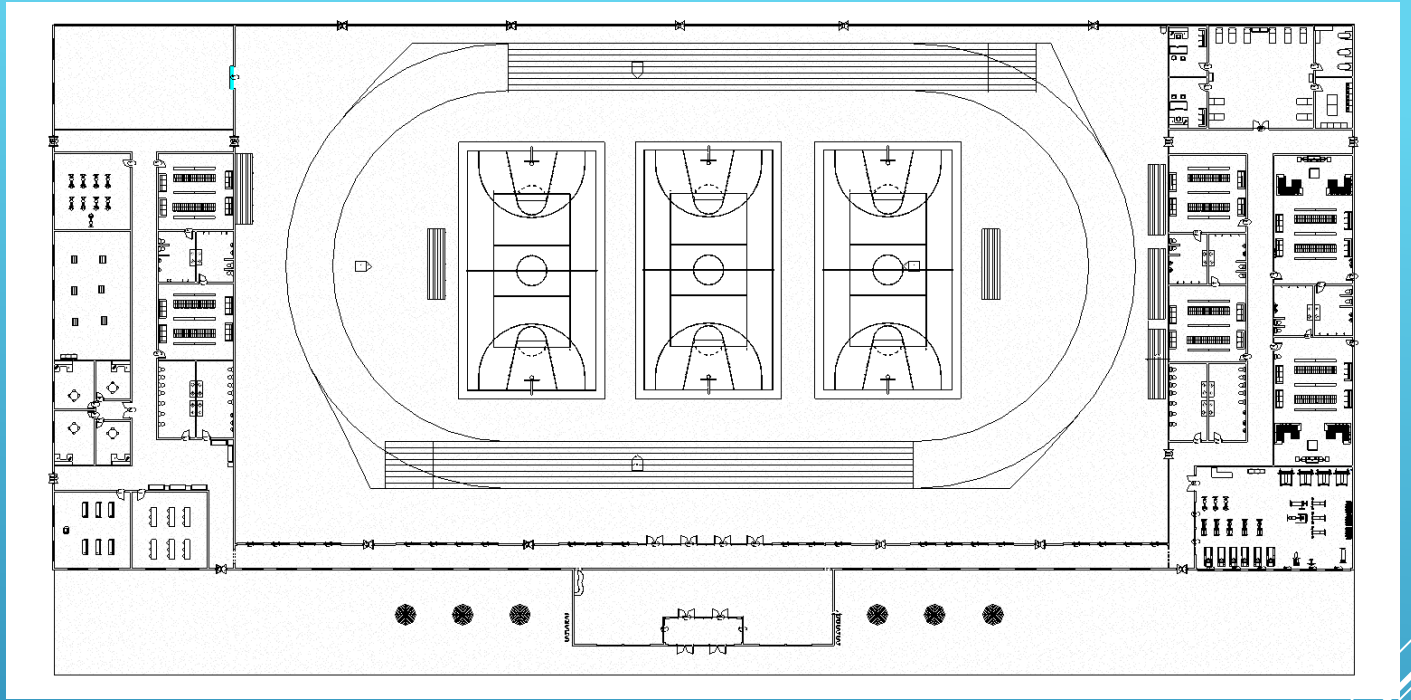
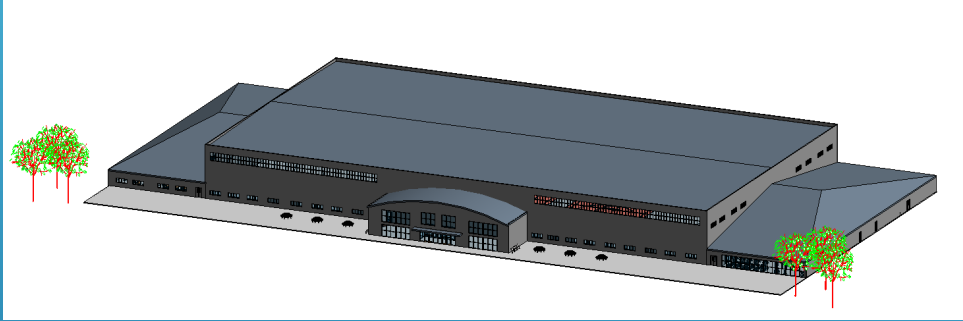
- ▶ Elizabethtown College is looking to expand their wellness facilities. Our project was to propose a design for a new wellness facility that embodied mind, body, and spirit.
- 

# SITE LOCATION



	Thompson Gym	Between Soccer and Lacrosse Fields	Behind Soccer Field	Off Campus Location
Workable land	-	+	+	D
New Renovations	-	+	-	A
Space needed	-	+	+	T
Accessibility	+	+	+	U
Aesthetics	-	-	+	M
	1	4	4	

# DESIGN



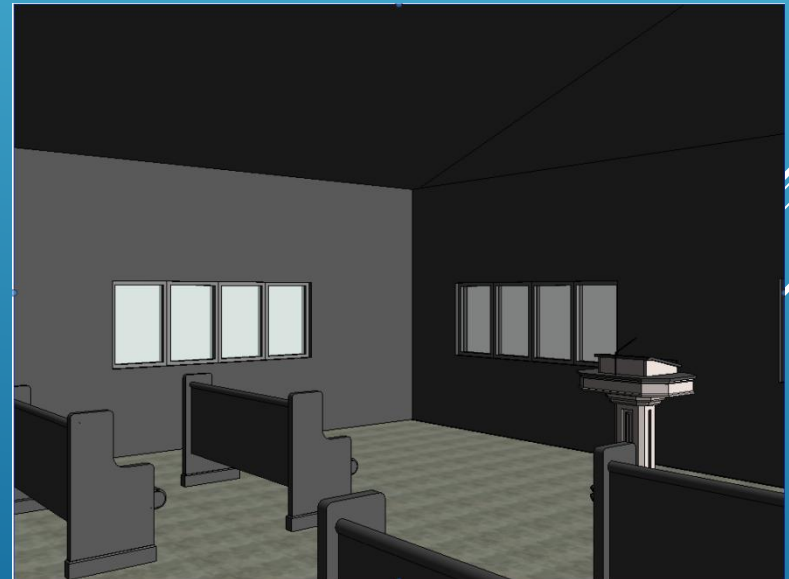
# SPIRIT AND MIND

## ▶ Basic Needs

- ▶ Athletic class rooms
- ▶ Social hub (inviting)
- ▶ Counseling
- ▶ Terrace

## ▶ Want We Provided

- ▶ Athletic class rooms
- ▶ Two lounges
- ▶ 4 separate offices
- ▶ Terrace
- ▶ Yoga room and spin class
- ▶ Prayer Room





# ATHLETIC FACILITIES

## ▶ Basic needs

- ▶ Field House (3 courts)
- ▶ Fitness Center
- ▶ 4-8 Locker Rooms

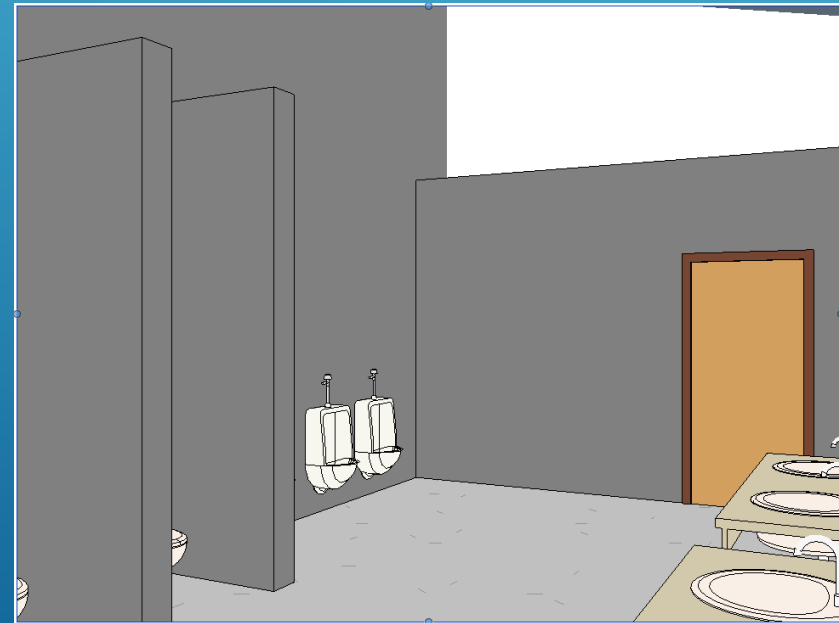
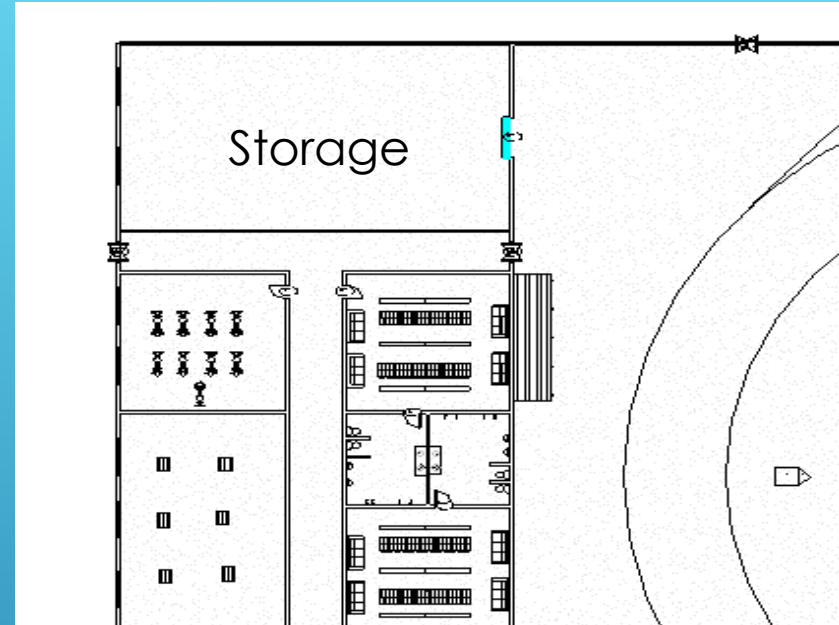
## ▶ Want We Provided

- ▶ 3 courts and 200 m track
- ▶ Weight Room
- ▶ 6 Locker Rooms
- ▶ Training Room



# FACILITY MANAGEMENT

- ▶ 4 public bathrooms
- ▶ 6 private bathrooms  
(one for each locker room)
- ▶ 2800 square feet of storage





# LEED v4 for BD+C: New Construction and Major Renovation Project Checklist

Y	?	N			
0	0	0	Credit	Integrative Process	1
<b>0 0 0 Location and Transportation 16</b>					
X			Credit	LEED for Neighborhood Development Location	16
			Credit	Sensitive Land Protection	1
			Credit	High Priority Site	2
			Credit	Surrounding Density and Diverse Uses	5
			Credit	Access to Quality Transit	5
✓			Credit	Bicycle Facilities	1
			Credit	Reduced Parking Footprint	1
			Credit	Green Vehicles	1
<b>0 0 0 Sustainable Sites 10</b>					
Y			Prereq	Construction Activity Pollution Prevention	Required
			Credit	Site Assessment	1
			Credit	Site Development - Protect or Restore Habitat	2
			Credit	Open Space	1
✓			Credit	Rainwater Management	3
			Credit	Heat Island Reduction	2
✓			Credit	Light Pollution Reduction	1
<b>0 0 0 Water Efficiency 11</b>					
Y			Prereq	Outdoor Water Use Reduction	Required
Y			Prereq	Indoor Water Use Reduction	Required
Y			Prereq	Building-Level Water Metering	Required
			Credit	Outdoor Water Use Reduction	2
✓			Credit	Indoor Water Use Reduction	6
			Credit	Cooling Tower Water Use	2
			Credit	Water Metering	1
<b>0 0 0 Energy and Atmosphere 33</b>					
Y			Prereq	Fundamental Commissioning and Verification	Required
Y			Prereq	Minimum Energy Performance	Required
Y			Prereq	Building-Level Energy Metering	Required
Y			Prereq	Fundamental Refrigerant Management	Required
			Credit	Enhanced Commissioning	5
✓			Credit	Optimize Energy Performance	18
			Credit	Advanced Energy Metering	1
			Credit	Demand Response	2
✓			Credit	Renewable Energy Production	3
			Credit	Enhanced Refrigerant Management	1
			Credit	Green Power and Carbon Offsets	2

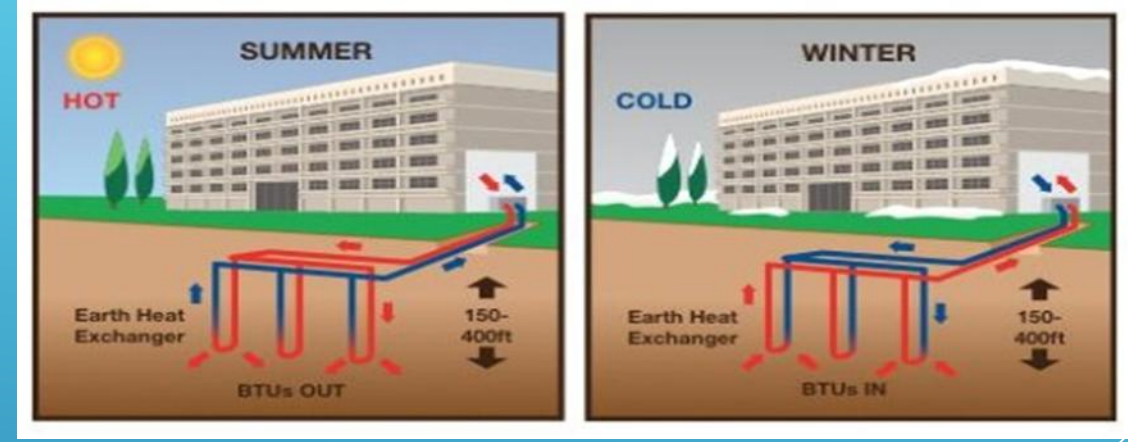
0	0	0	<b>Materials and Resources</b>		<b>13</b>
Y			Prereq	Storage and Collection of Recyclables	Required
Y			Prereq	Construction and Demolition Waste Management Planning	Required
			Credit	Building Life-Cycle Impact Reduction	5
			Credit	Building Product Disclosure and Optimization - Environmental Product Declarations	2
			Credit	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
			Credit	Building Product Disclosure and Optimization - Material Ingredients	2
✓			Credit	Construction and Demolition Waste Management	2
<b>0 0 0 Indoor Environmental Quality 16</b>					
Y			Prereq	Minimum Indoor Air Quality Performance	Required
Y			Prereq	Environmental Tobacco Smoke Control	Required
			Credit	Enhanced Indoor Air Quality Strategies	2
✓			Credit	Low-Emitting Materials	3
			Credit	Construction Indoor Air Quality Management Plan	1
			Credit	Indoor Air Quality Assessment	2
			Credit	Thermal Comfort	1
✓			Credit	Interior Lighting	2
✓			Credit	Daylight	3
			Credit	Quality Views	1
✓			Credit	Acoustic Performance	1
<b>0 0 0 Innovation 6</b>					
			Credit	Innovation	5
			Credit	LEED Accredited Professional	1
<b>0 0 0 Regional Priority 4</b>					
			Credit	Regional Priority: Specific Credit	1
			Credit	Regional Priority: Specific Credit	1
			Credit	Regional Priority: Specific Credit	1
			Credit	Regional Priority: Specific Credit	1

**0 0 0 TOTALS** Possible Points: **110**  
 Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110

43



# SUSTAINABLE FEATURES



	Green Roof	Blue Sheet Metal	Solar Roof	Shingles
<b>Aesthetics</b>	+	+	+	D
<b>Sustainability</b>	+	-	+	A
<b>Cost of Material</b>	+	+	-	T
<b>Cost of Installment</b>	-	+	-	U
<b>Life-span</b>	+	+	+	M
	4	4	3	

## Green Roof:

This will allow use to collect and use rainwater for the buildings plumbing  
 This will also provide insulation for the main room in the building

## Solar Shingles:

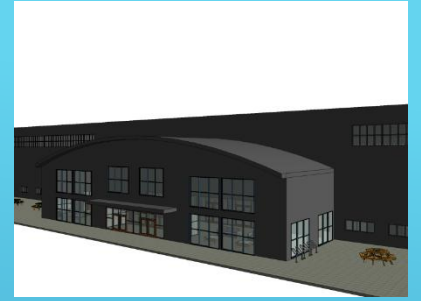
This will help with providing energy for the building along with providing aesthetics

## Geothermal heat:

Takes advantage of the earth's constant core temperature, using it to heat and cool the building..

# WHAT THIS WOULD DO FOR THE COLLEGE

- ▶ Student Health
  - ▶ College can provide more E-fit events with larger space
  - ▶ Entices more students to use facilities that will be provided in the building
  - ▶ Gives students a space to come to reflex and work on their mental health
  - ▶ Gives students a space to reflex on their own religion in a non-judgmental space
- ▶ Student Academics
  - ▶ Provide room which could be used to possible add new majors along the line of sports
  - ▶ Bring more students to the college
- ▶ Outside usage
  - ▶ Bring money to college when facilities are not being used by the students, staff, or athletics
- ▶ Sustainability
  - ▶ Environmental focus of the college can be shown



# CONCLUSION

- ▶ With the conclusion of this project we have achieved a new field house for the Elizabethtown College campus that is not only functional, but sustainable, As well as tying together the mind, body, and spirit of the college campus.

