

Christenbury Gymnasium



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Portfolio 1

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LEED BUILDING CREDITS

- LEED stands for Leadership in Energy and Environmental Design
- LEED is an internationally recognized green building rating system
- LEED is the most widely used third party verification for green building in the world. The design uses strategies that help to improve energy and water saving, co2 emissions reduction, and improve the other all indoor environmental quality.
- LEED was developed by the US Green Building Council and is used for buildings, communities, and home projects
 - This framework creates healthy, cost efficient and saving
- LEED uses a point system approach to score green building design and construction. The more points the higher the certification level; Certified, Silver, Gold, and Platinum.



2.4 million +

square feet is LEED certified every day with more than 94,000 projects using LEED.



Flexible

LEED works for all building types anywhere. LEED is in over 165 countries and territories.



Sustainable

LEED buildings save energy, water, resources, generate less waste and support human health.



Value

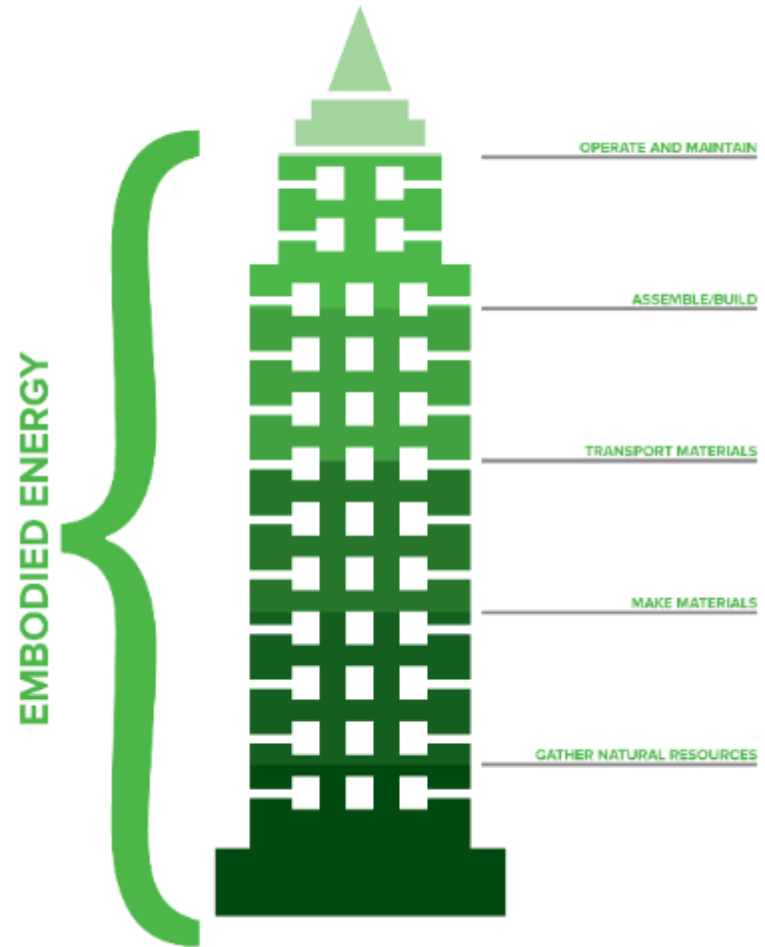
LEED buildings attract tenants, cost less to operate and boost employee productivity and retention.

EMBODIED ENERGY

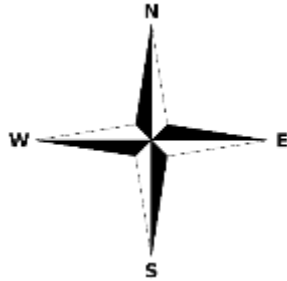
Embodied energy is any and all the energy from any and all processes performed whilst building, from the mining and processing of natural resources to manufacturing, transport and product delivery.

Embodied energy does not include the building material, which would always be considered in a life cycle approach. Embodied energy is known as the “upstream or front-end component of the life cycle impact of a home or building,”

“large amounts of thermal mass, high in embodied energy, can significantly reduce heating and cooling needs in well designed and insulated passive solar houses” (YourHome).



CHRISTENBURY GYM



FUNDAMENTAL 5 2



HISTORIC PHOTOS



Christenbury Gym is in a prime location and is easily accessible from all sides. The bus picks up and drop off is directly in front of the gym.

The East side of the building will be receiving the most amount of sunlight during the morning and day and the south side will receive sunlight in the afternoon hours. The building located on the right of Christenbury shades the right side of the building cooling it off.

CLIENT PROFILE

The clients for this project are those who have attended East Carolina University in the past and have experienced first-hand the many uses of the Christenbury building. They are enthusiastic about keeping and revamping the building to the point where it still maintains its historic memories and values yet holds a new purpose that can be used by the masses.



CONCEPT STATEMENT

Christenbury Gym, a building full of sentimental meaning for many, is a reminder of joyful college days and many school dances. The memories and history the gym holds are a starting point for the revamp of the building.



INSPIRATION IMAGES



Modern twist

Original windows and doors

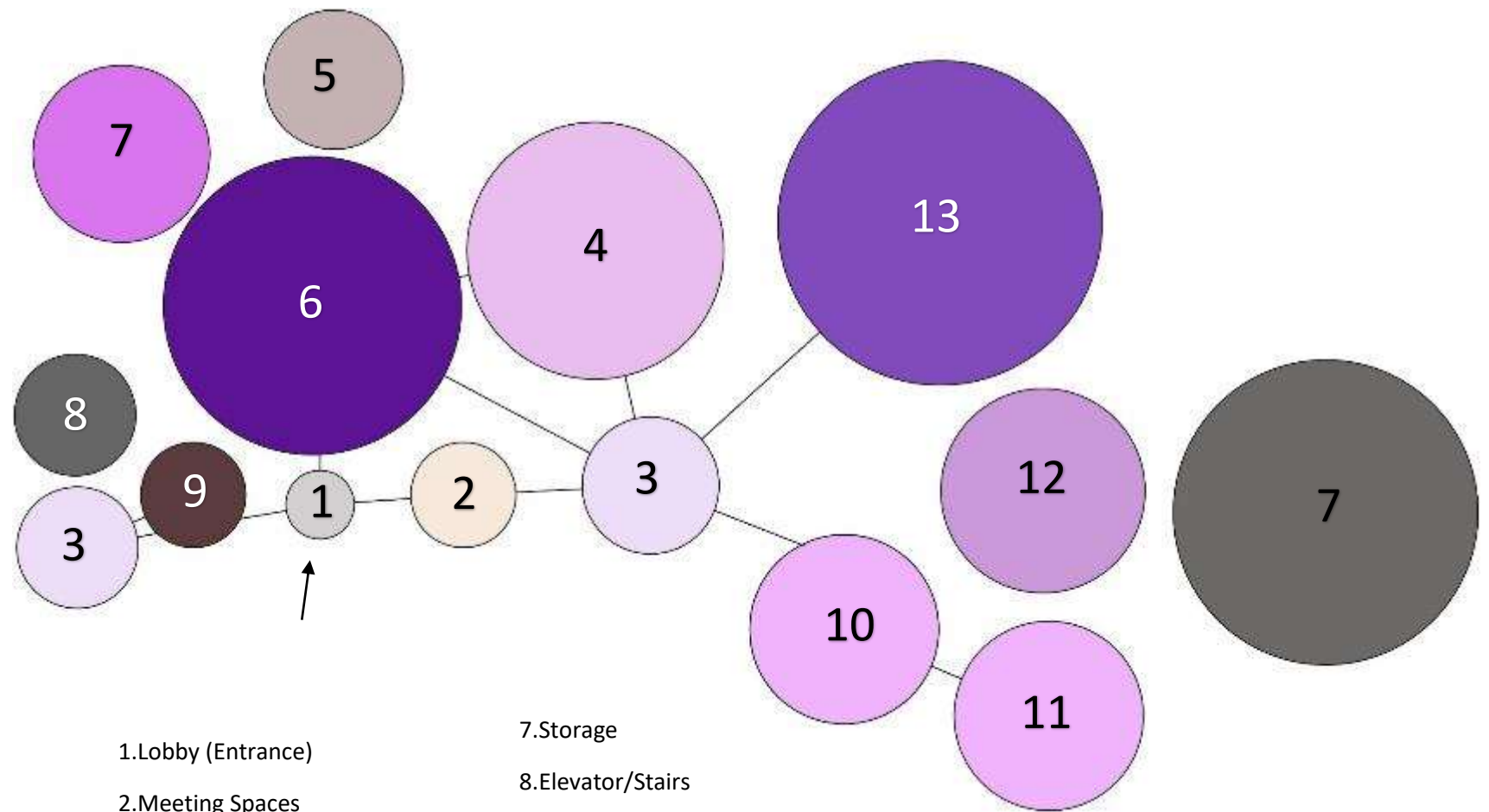


PROGRAM

Adaptive reuse as Alumni/Visitor Center.

Existing Space	Level	Existing Space Sq Ft	New Space	New Space Sq Ft	Occupancy	Maximum Occupancy	# of Egress
Gymnasium	Second	12,000	Event/Exhibition Space	12,000	A-3	2,400	4
Bleachers	Second	2,479	Storage in back corner	953	A-5, S-2	4	1
Pool	Second	5,436	Banquet Hall	5,436	A-2	1,087	4
Stairs (right)	Second	240	Stairs	240			
Stairs (left)	Second	240	Elevator Right of Stairs	218			
Offices (right)	Second	952	Meeting Area	700	B	7	2
Offices (left)	Second	945	Café	945	A-2	4 in kitchen	1
Lobby	Second	371	Lobby	371	B	53	2
Men's Toilet	Second	196	Men/Women's Restrooms	448			
Women's Toilet	Second	225	Individual Restrooms within Café	225			
Mechanical Room	Second	300	Mechanical Room	300			
Storage	Second	407	Elevator	242			
Laboratory	First	936	Conference Rooms			9	
Classrooms	First	1,224	Conference Rooms	2,416	B	12	2
Front Office	First	256	Conference Rooms			2	
Pool Mechanical	First	5,829	Storage	5,829	S-1	20	2
Combined Offices	First	2,135	Split into Offices	7,637	B	21	2
Gymnastics	First	5,502	Split into Offices			55	2
Lounge/Dressing Room/Supply Rooms	First	5,671	Larger Lounge with Break Room/Study Rooms/Supply Rooms/Lockerrooms	5,671	A-1/A-2/B/S	56	2
Computer Lab	First	438	Restrooms	438			
Mechanical Room(2)	First	600	Mechanical Room(2)	300			

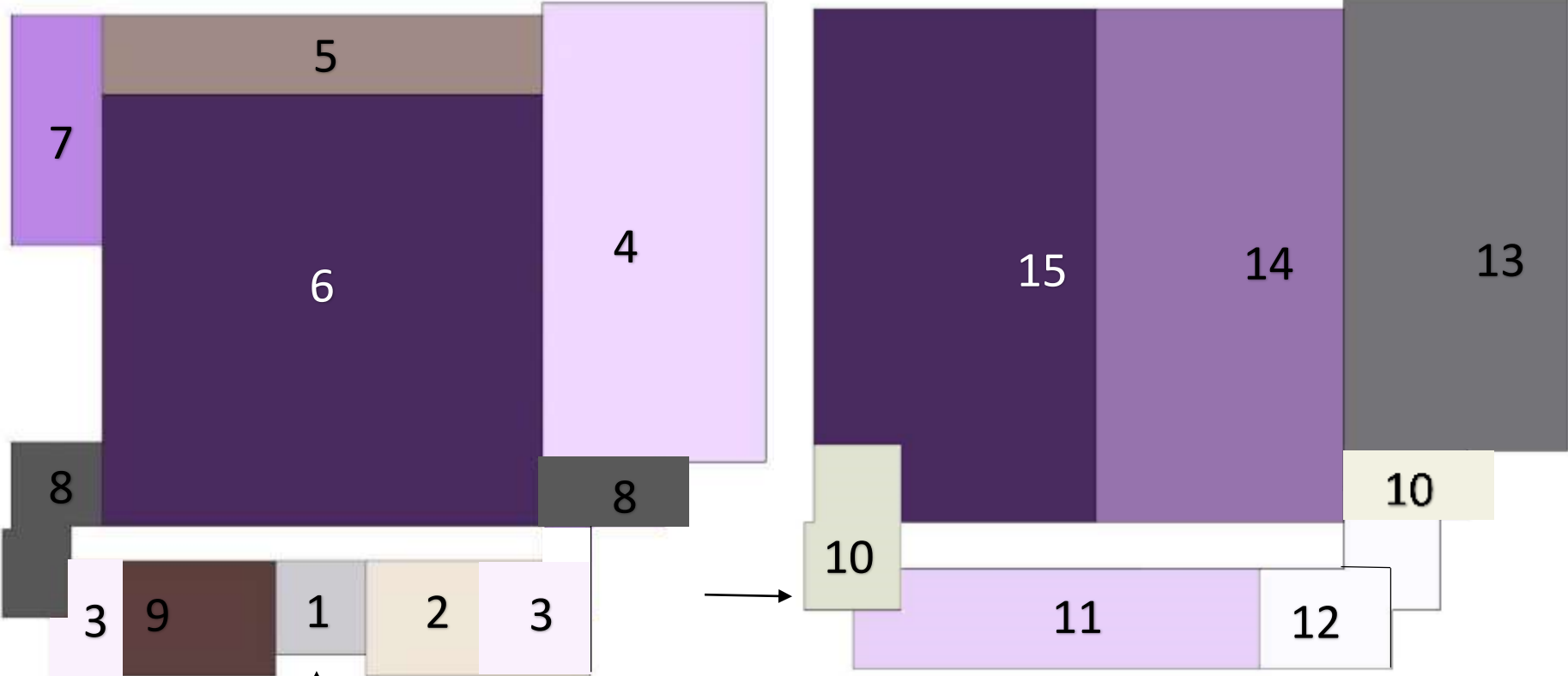
BUBBLE DIAGRAM



- 1.Lobby (Entrance)
- 2.Meeting Spaces
- 3.Restrooms
- 4.Banquet Hall
- 5.Exhibition Space
- 6.Visitor/ Alumni Welcome Center

- 7.Storage
- 8.Elevator/Stairs
- 9.Café
- 10.Conference Room A
- 11.Conference Room B
- 12.Lounge
- 13.Employee Office Spaces

BLOCKING DIAGRAM



- 1. Lobby (Entrance)
- 2. Meeting Spaces
- 3. Restrooms
- 4. Banquet Hall
- 5. Exhibition Space
- 6. Visitor/ Alumni Welcome Center
- 7. Storage
- 8. Elevator/Stairs
- 9. Café

- 10. Elevator/Stairs (Entrance)
- 11. Conference Rooms
- 12. Restrooms
- 13. Storage
- 14. Lounge
- 15. Employee Office Space