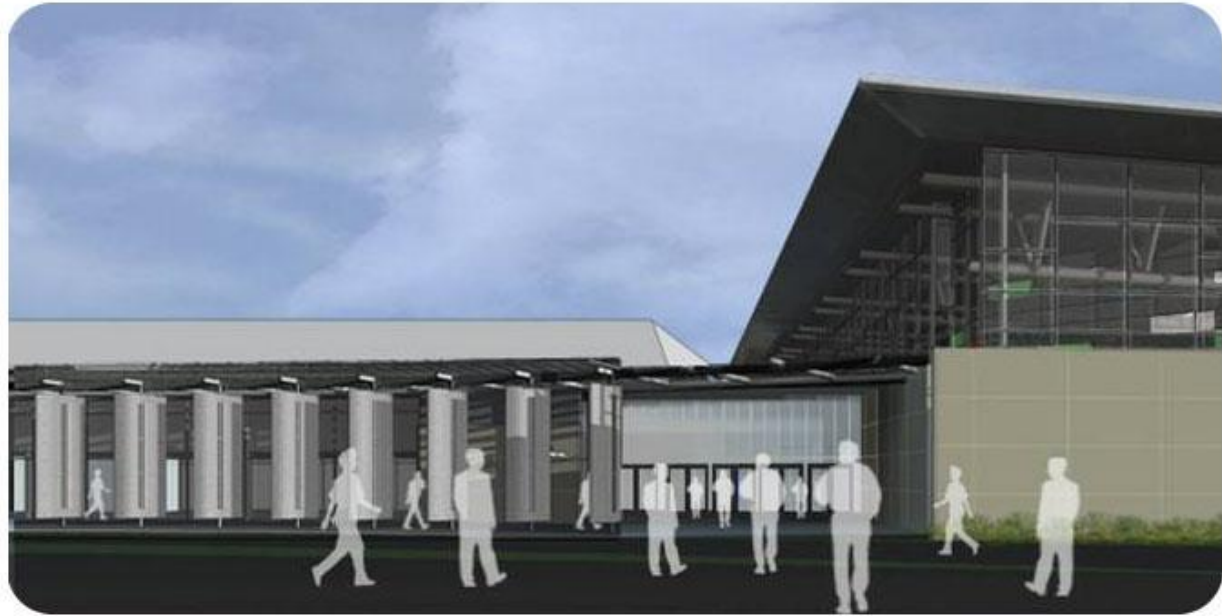


Susquehanna Center Renovations & Expansion



Brad Gaugh
November 29, 2010

Preview

- ▶ Building Background
- ▶ Lighting Spaces
 - Façade
 - Lobby
 - Auxiliary Gymnasium
 - Weight and Fitness Room

Susquehanna Center

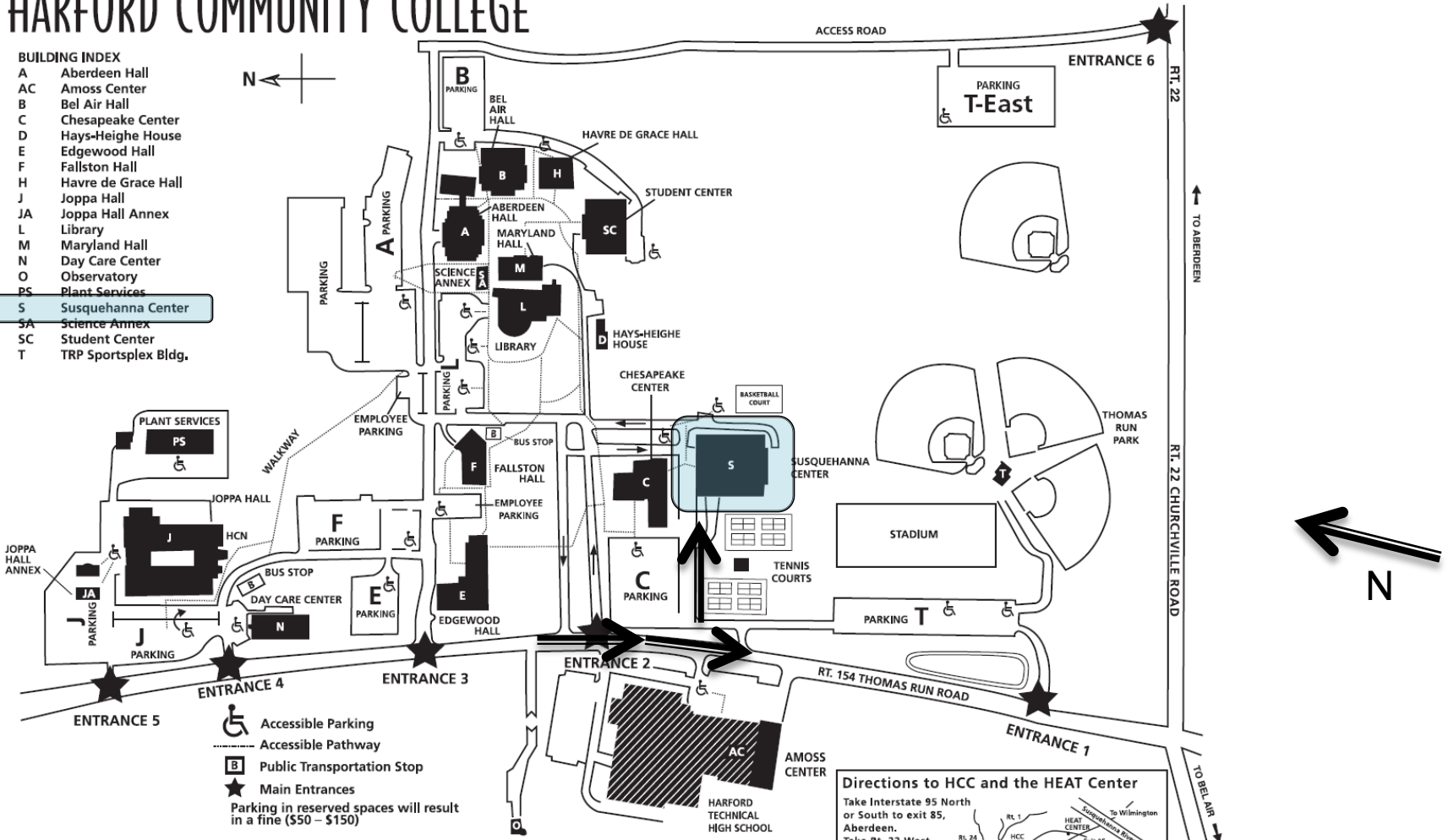
Occupant	Harford Community College Fighting Owls
Building type	Athletic Facility
Usage	Division III NCAA basketball Local Community indoor activities Weight and Fitness Room Swimming Complex

Susquehanna Center

Location	Bel Air, Maryland latitude = 39.56°N, longitude = 76.28°W
Size	110,000 ft ²
Cost	\$28 million
→ Construction Dates	April 2011 – August 2012
Delivery Method	Design–Bid–Build
Architect	Hord Coplan Macht
Lighting Consultants	Dunlop Lighting Design

HARFORD COMMUNITY COLLEGE

- BUILDING INDEX**
- A Aberdeen Hall
 - AC Amoss Center
 - B Bel Air Hall
 - C Chesapeake Center
 - D Hays-Heighe House
 - E Edgewood Hall
 - F Fallston Hall
 - H Havre de Grace Hall
 - J Joppa Hall
 - JA Joppa Hall Annex
 - L Library
 - M Maryland Hall
 - N Day Care Center
 - O Observatory
 - PS Plant Services
 - S **Susquehanna Center**
 - SA Science Annex
 - SC Student Center
 - T TRP Sportsplex Bldg.



Directions to HCC and the HEAT Center

Take Interstate 95 North or South to exit 85, Aberdeen.

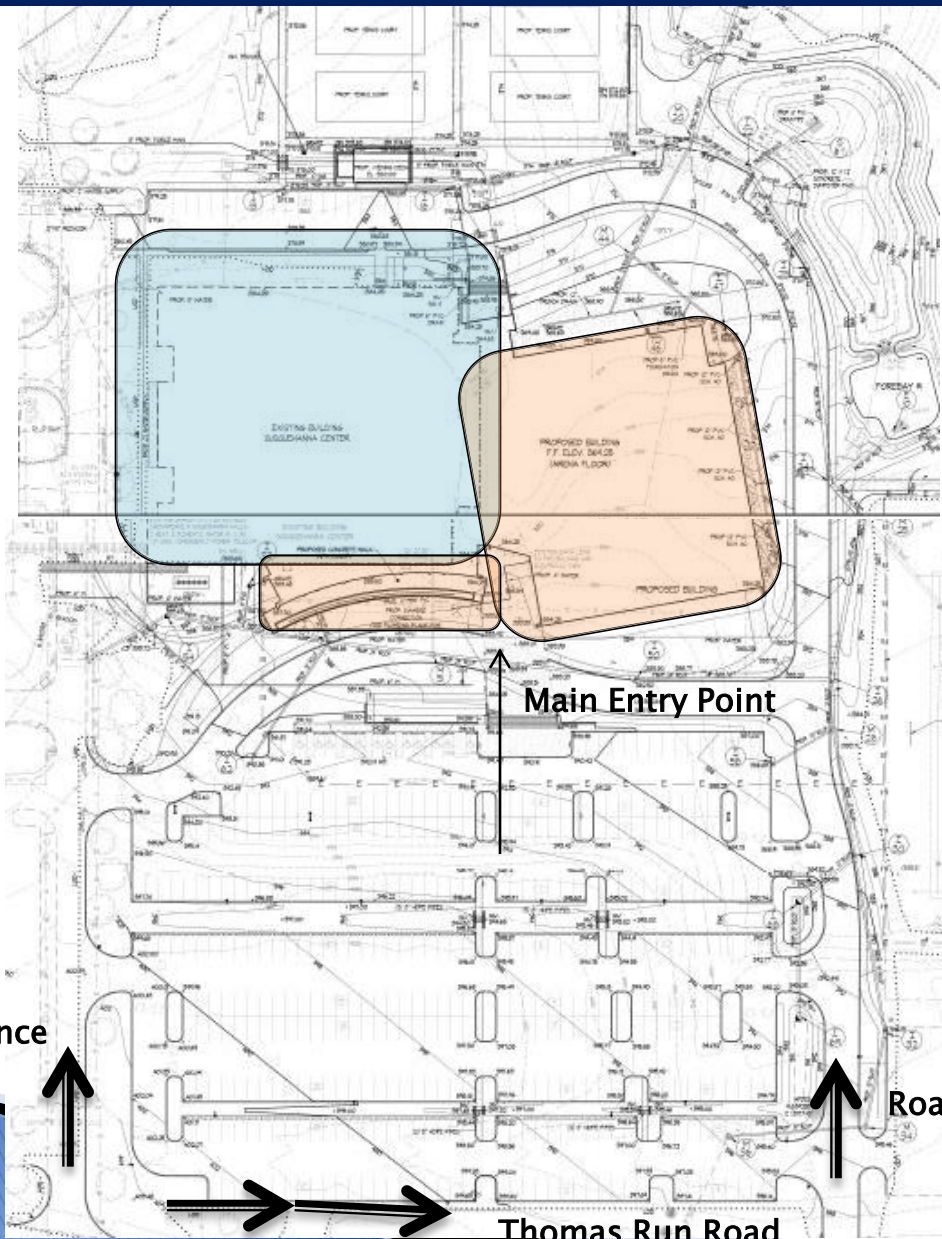
Take Rt. 22 West.

The HEAT Center is on the left 200 yards beyond the interchange.

To proceed to HCC, continue traveling west on Rt. 22 toward Churchville for approximately 6 miles to the traffic light at Thomas Run Road, Turn right on Thomas Run Road. The College campus is on the right.

Harford Community College
 401 Thomas Run Road • Bel Air, MD 21015
 443-412-2000 or 410-836-4000
 www.harford.edu

Higher Education and Conference Center at HEAT
 1201 Technology Drive • Aberdeen, MD 21001-1213
 443-360-9200 • www.heatcentermaryland.com



Existing Building

Addition



Road Entrance

Road Entrance

Thomas Run Road

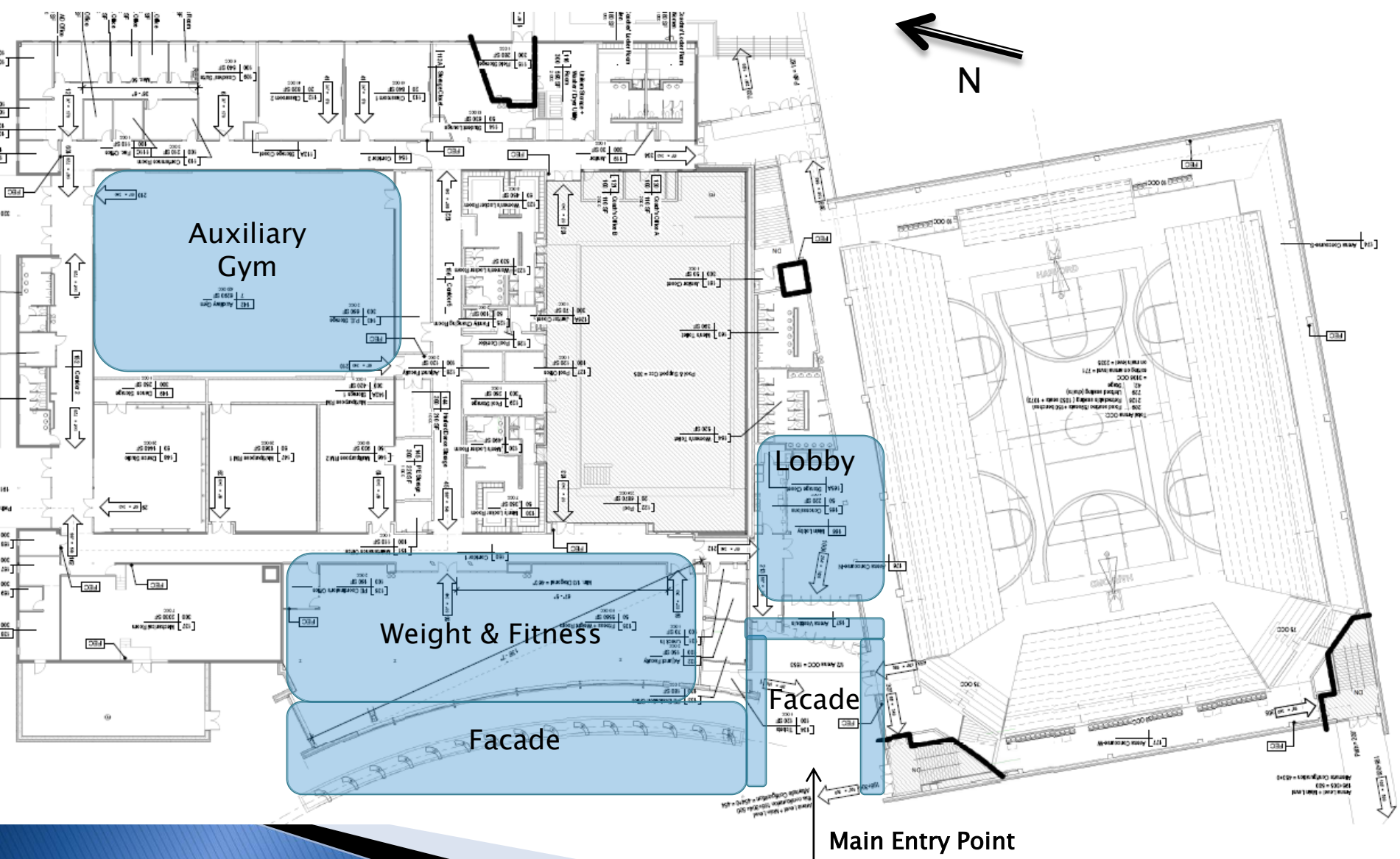
Building Background

Façade

Lobby

Auxiliary Gym

Weight & Fitness

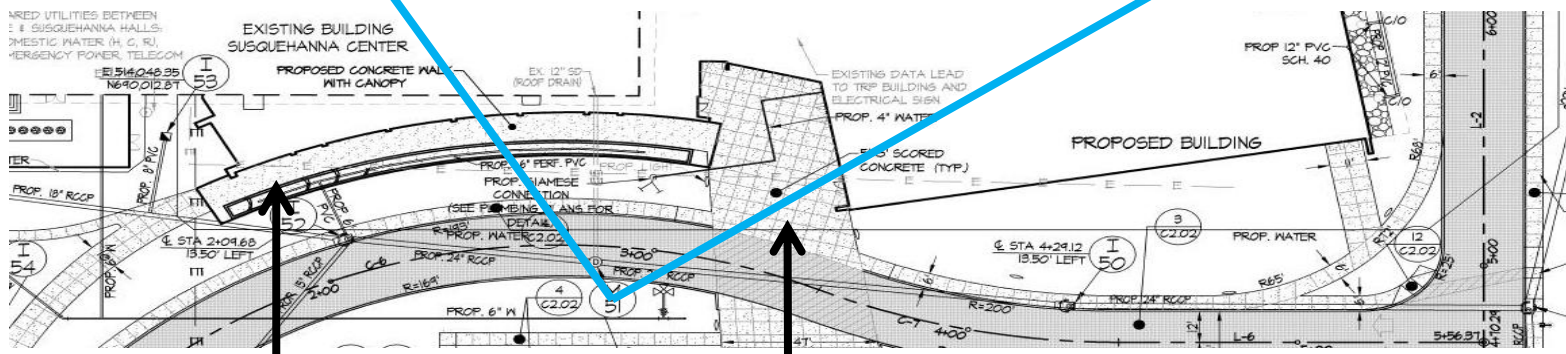
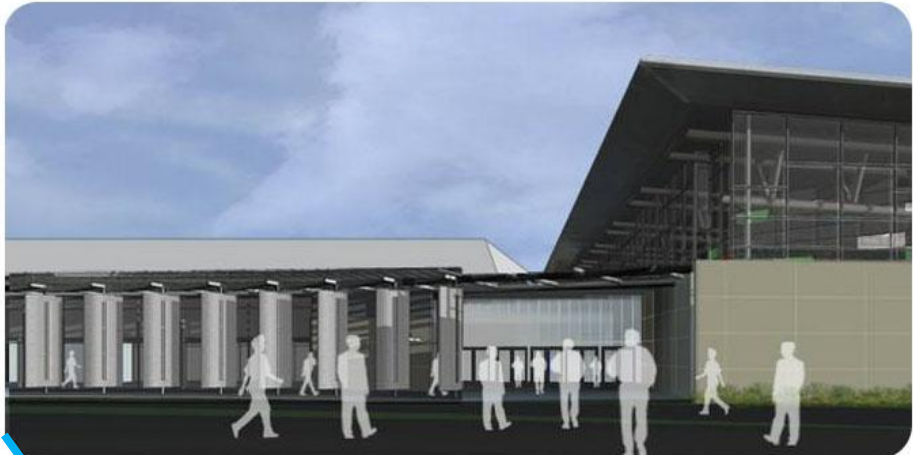


Susquehanna Center

General Lighting Design Concepts

- Emphasize Game Type Atmosphere
(Excitement, Intrigue, Festive, Cheerful)
- Provide Uniformity for Task Oriented Spaces
- Exhibit High Quality Facility

Facade Floor Plan

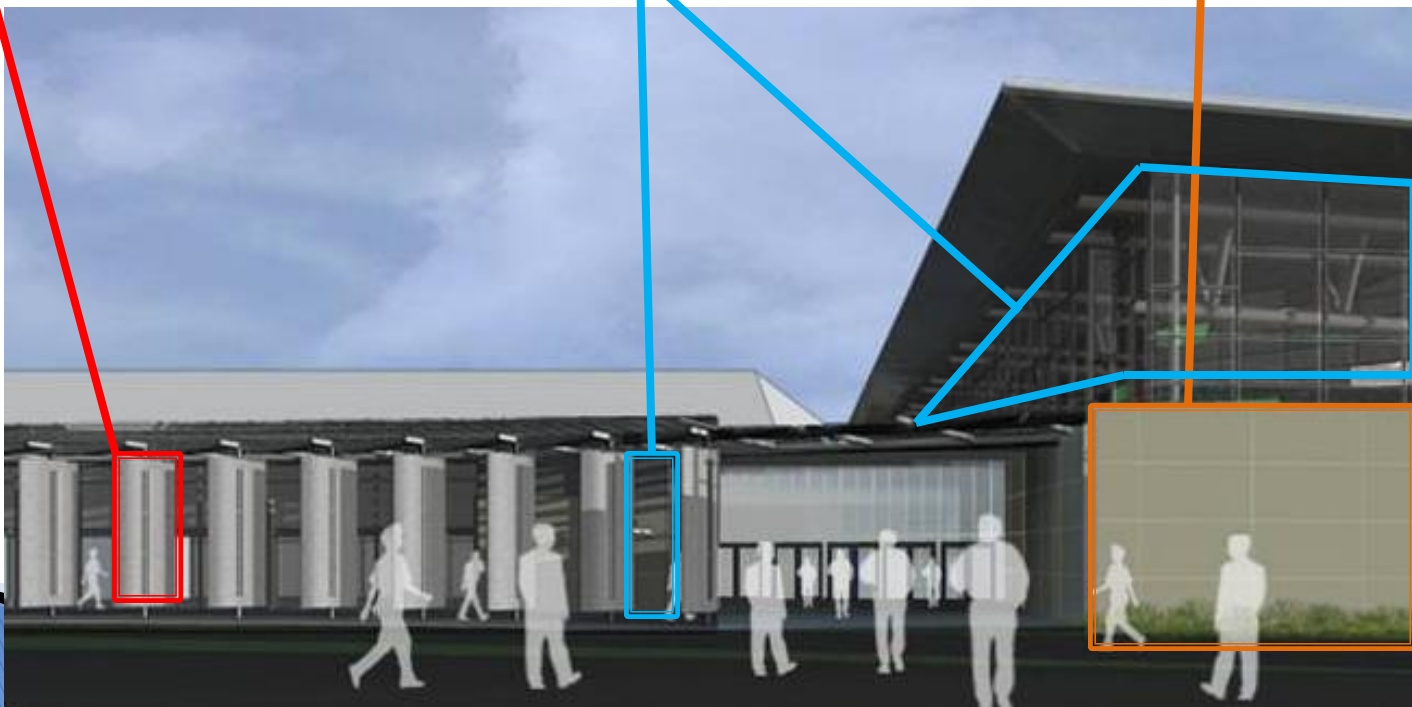


Covered Sidewalk

Main Entry



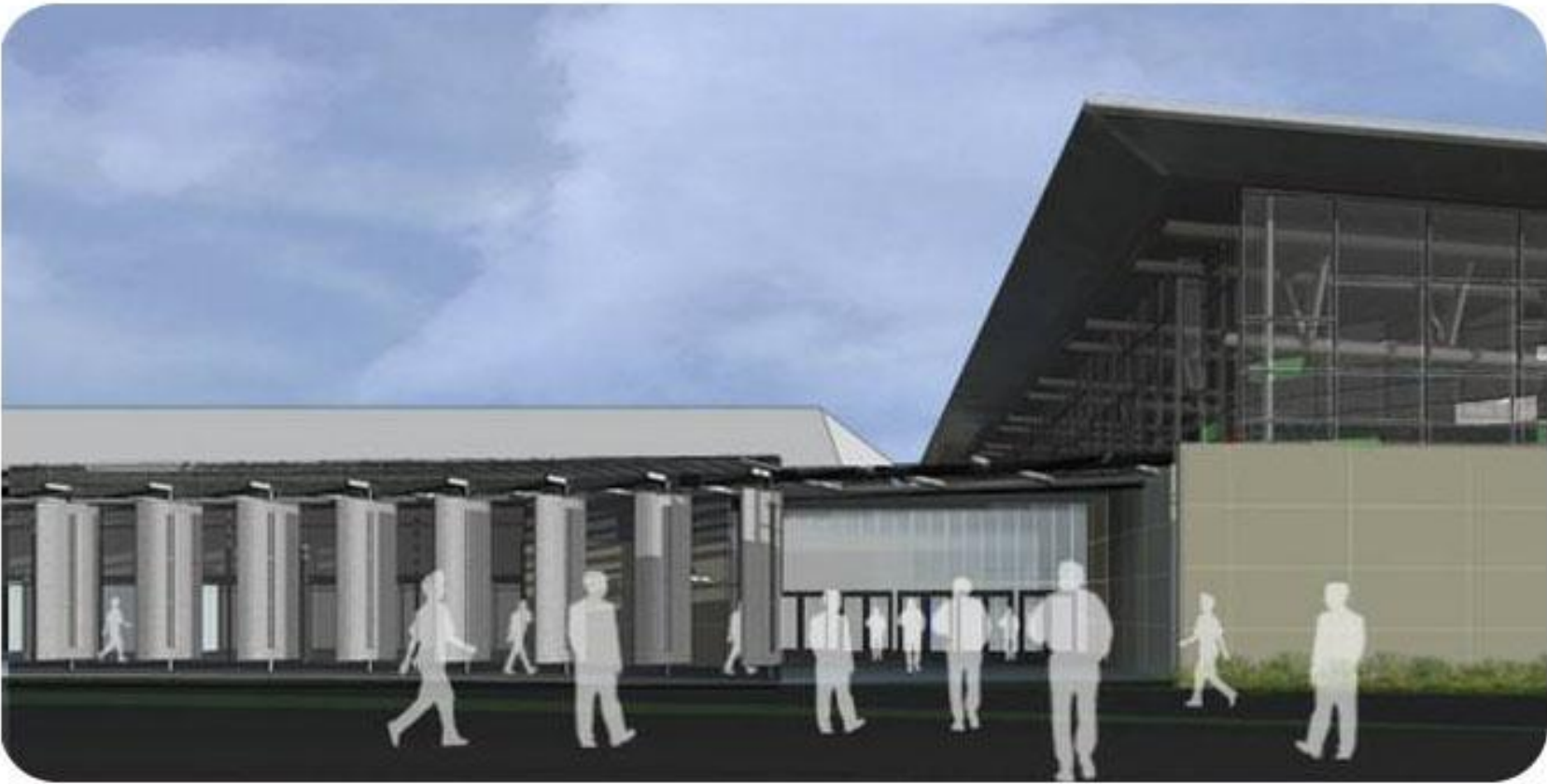
Facade Materials



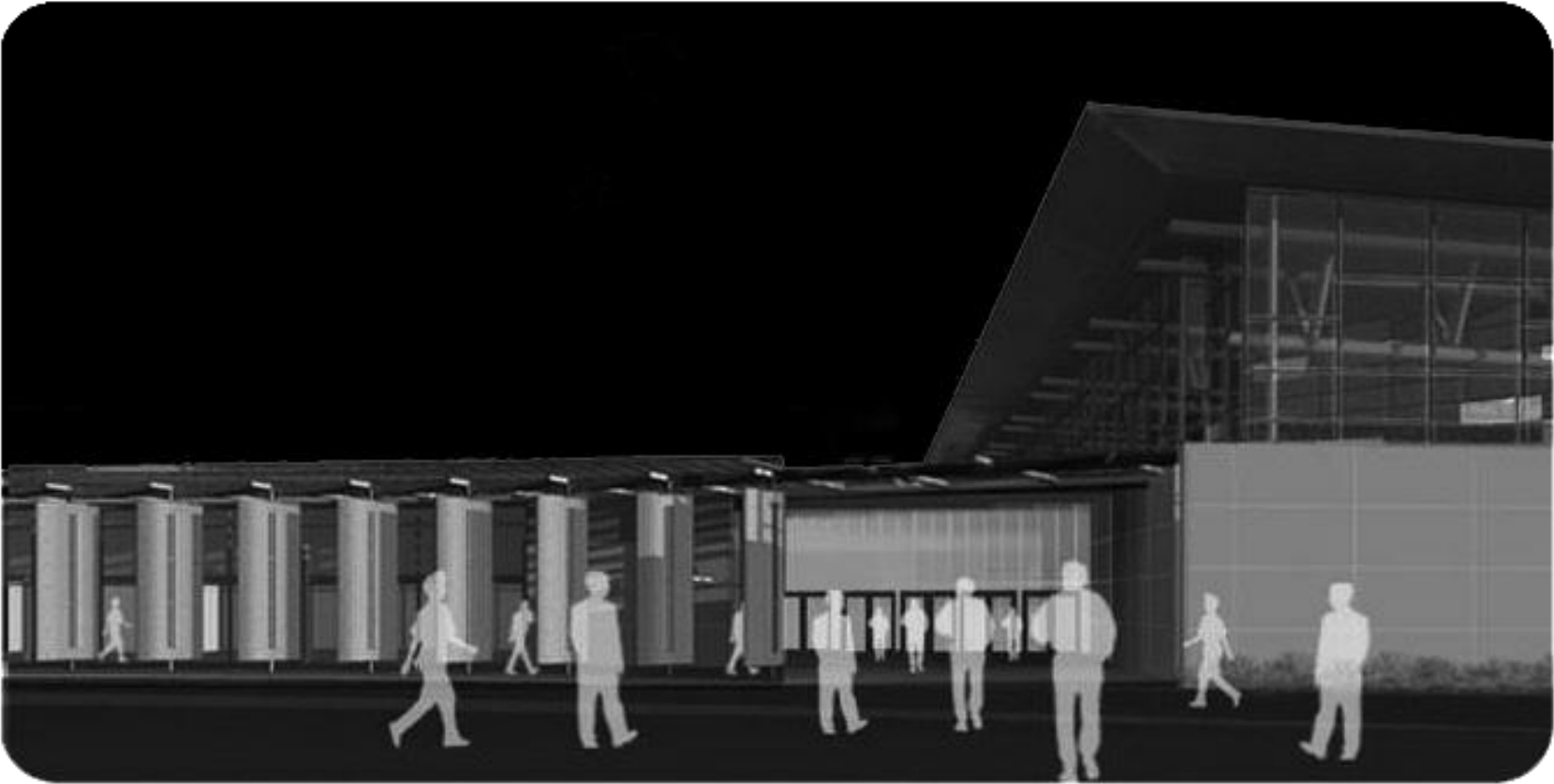
Facade Lighting Design Concepts

Schematic #1 – Intrigue

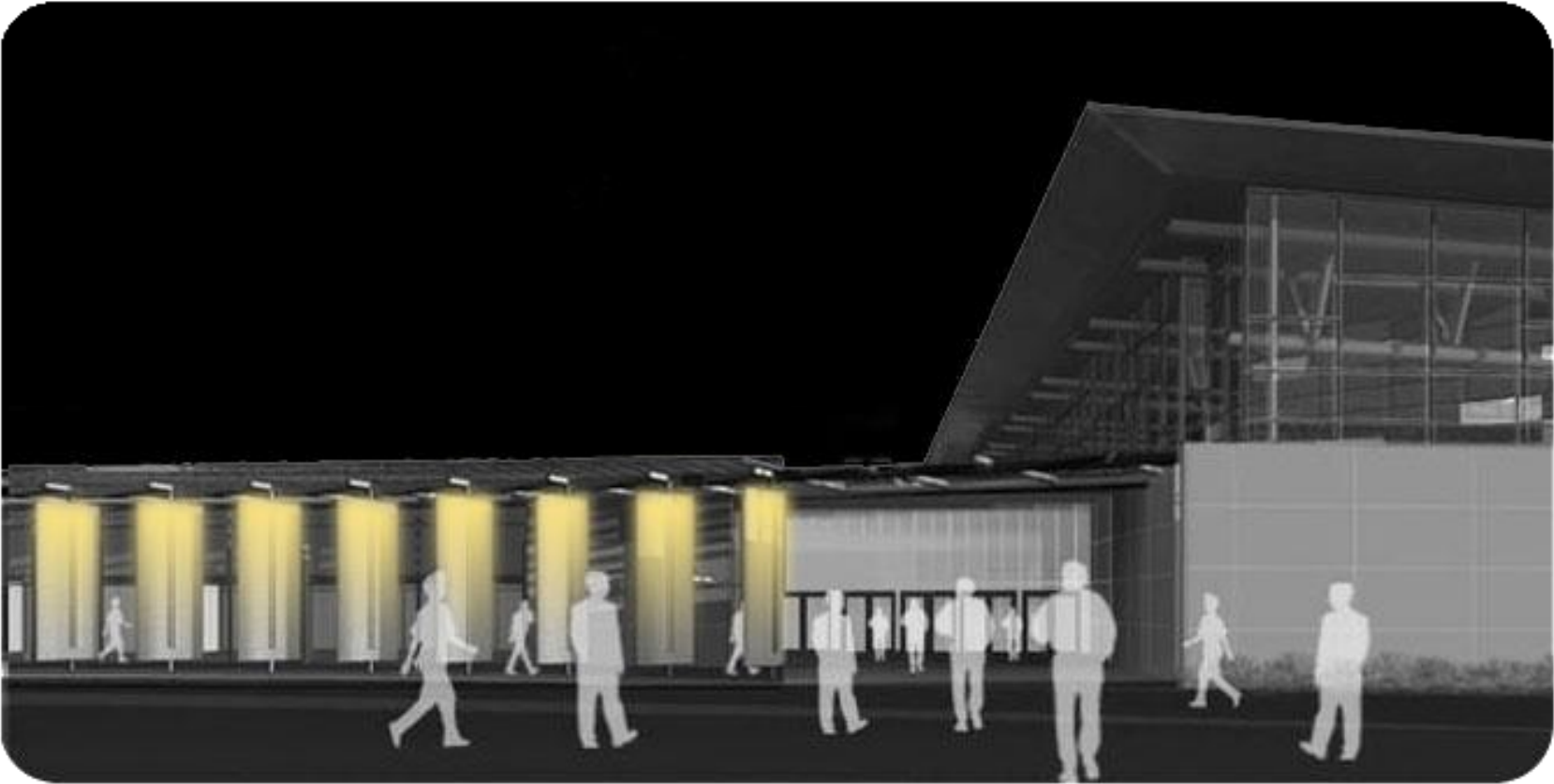
- Create Visual Curiosity
- Develop Points of Interest
- Highlight Travel to Entrance



Schematic Design #1



Schematic Design #1



Schematic Design #1
Highlight Shade



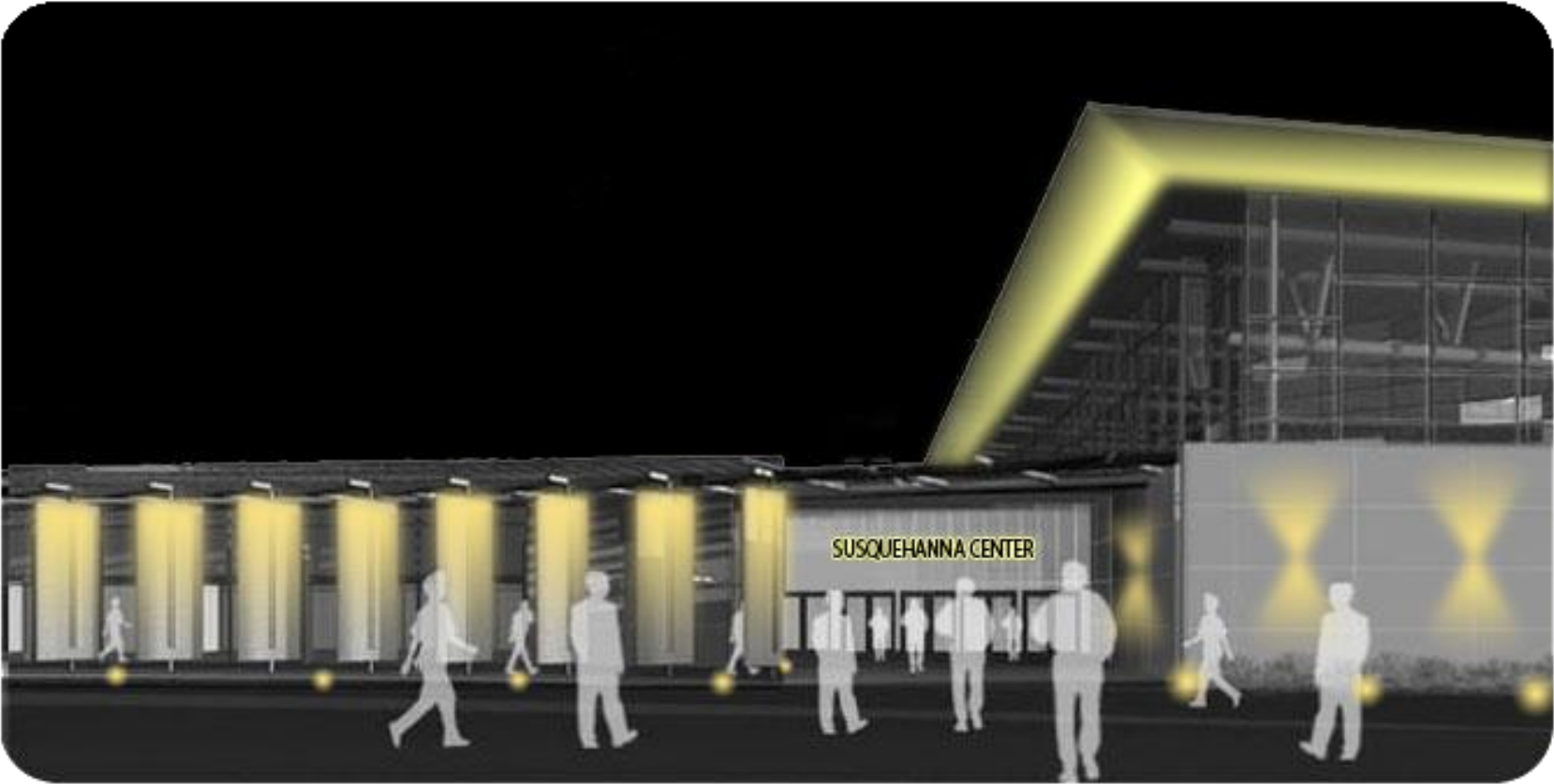
Schematic Design #1
Wall Emphasis



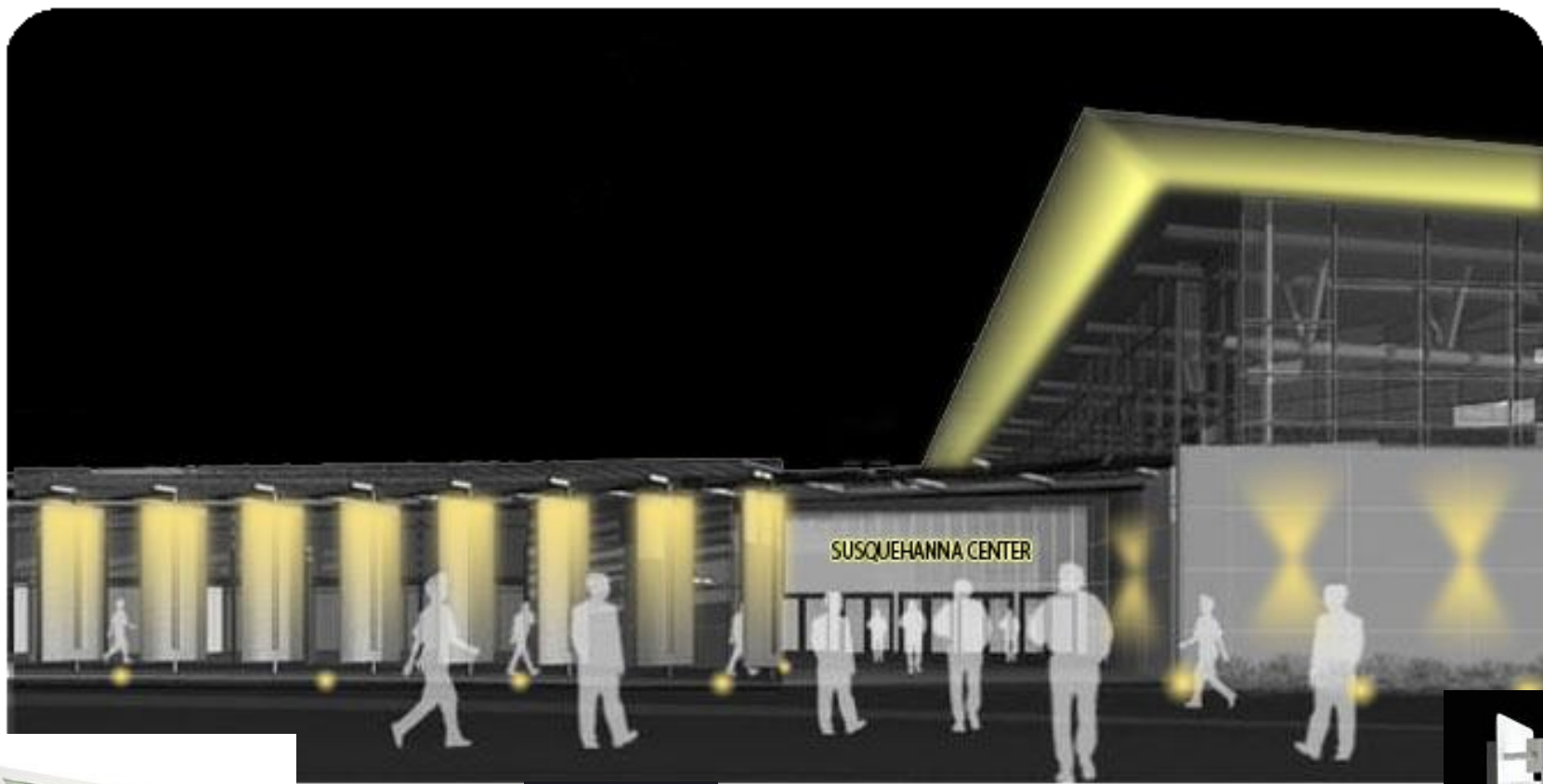
Schematic Design #1
Sidewalk Illumination



Schematic Design #1
Back Lighting of Sign



Schematic Design #1
Visual Curiosity

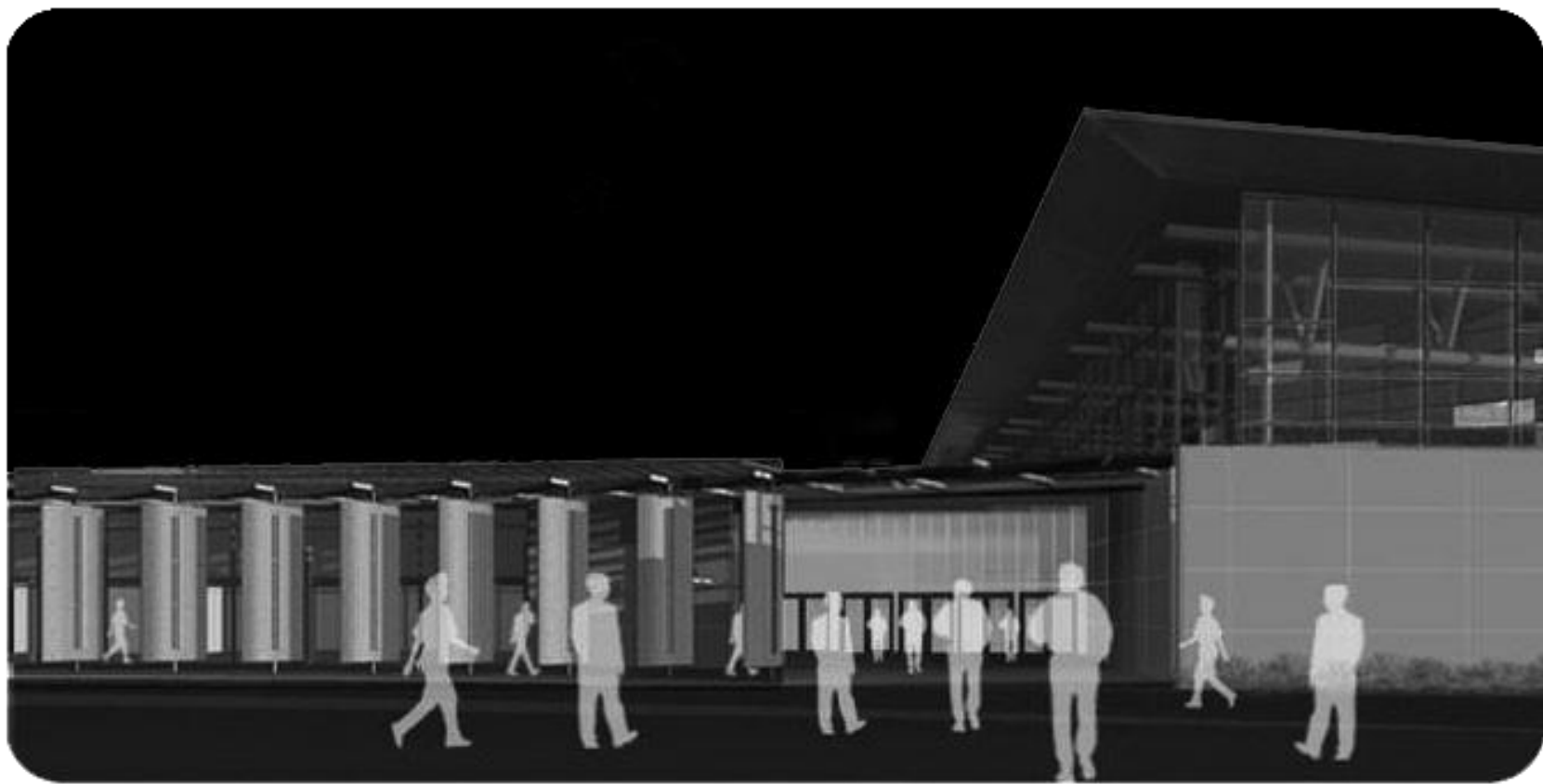


Schematic Design #1
Equipment

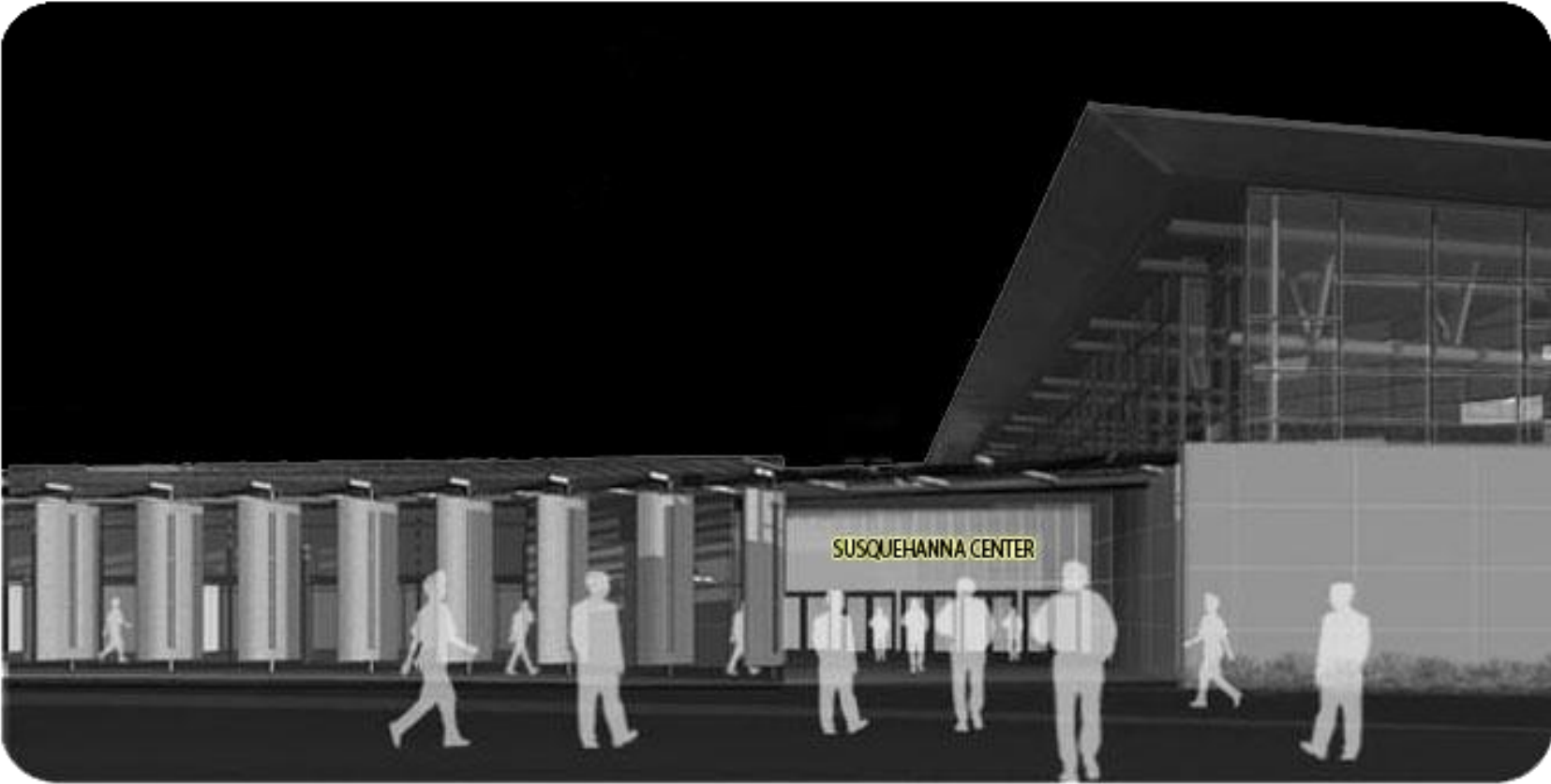
Facade Lighting Design Concepts

Schematic #2 – The Nest

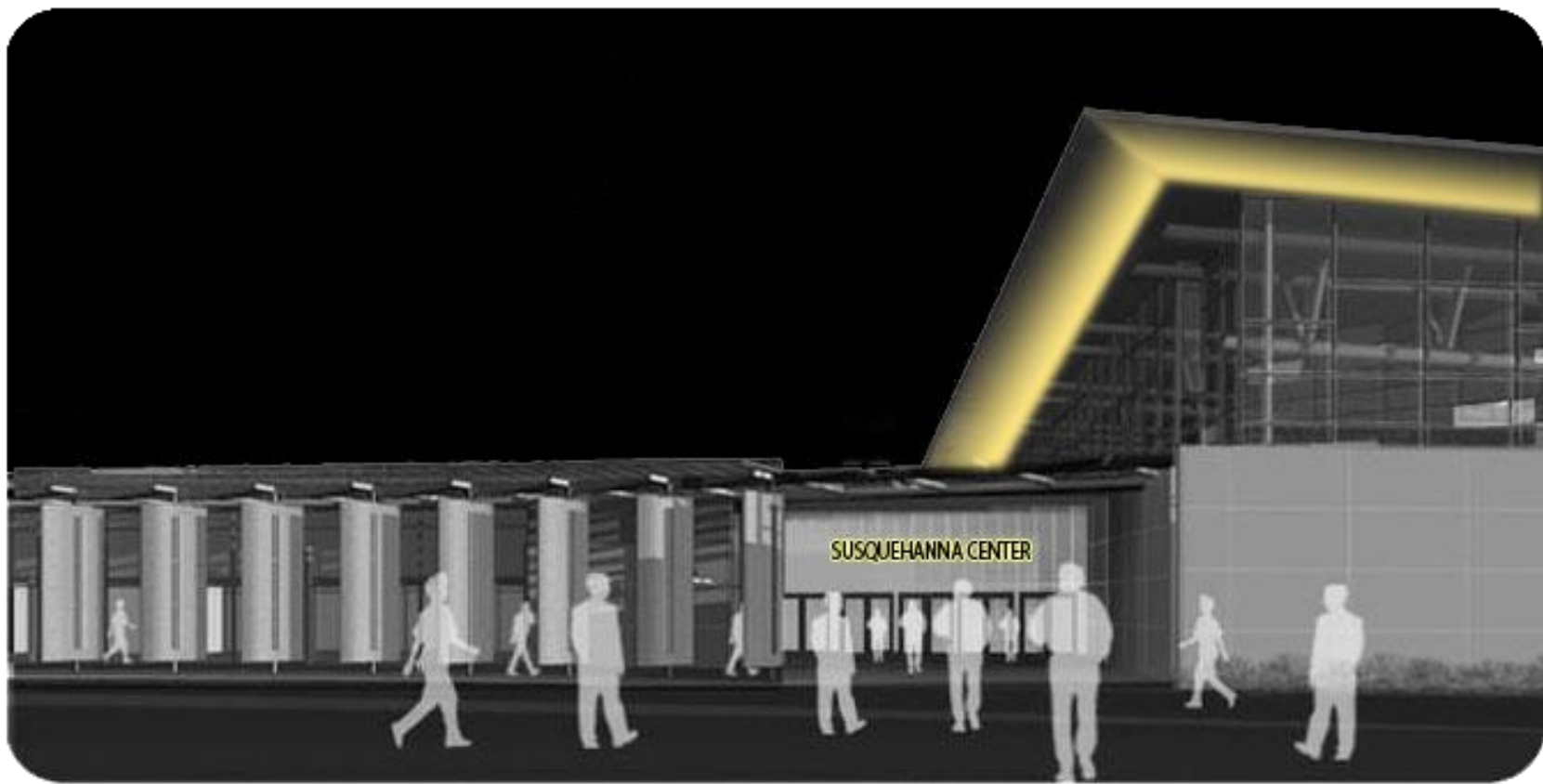
- Floating Roof
- Structure = Twigs of Nest
- Visual Curiosity
- Emphasize Travel to Entrance



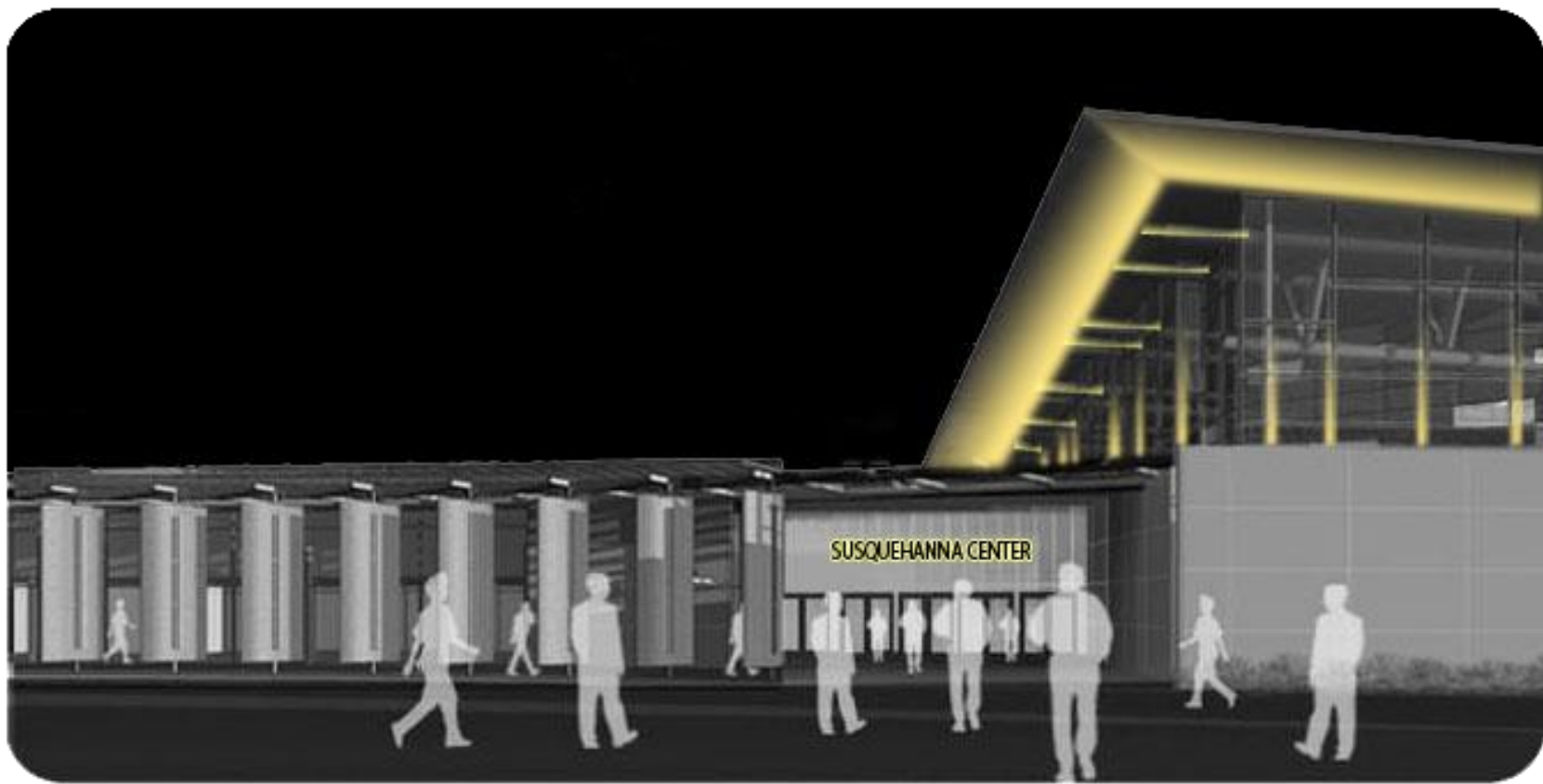
Schematic Design #2



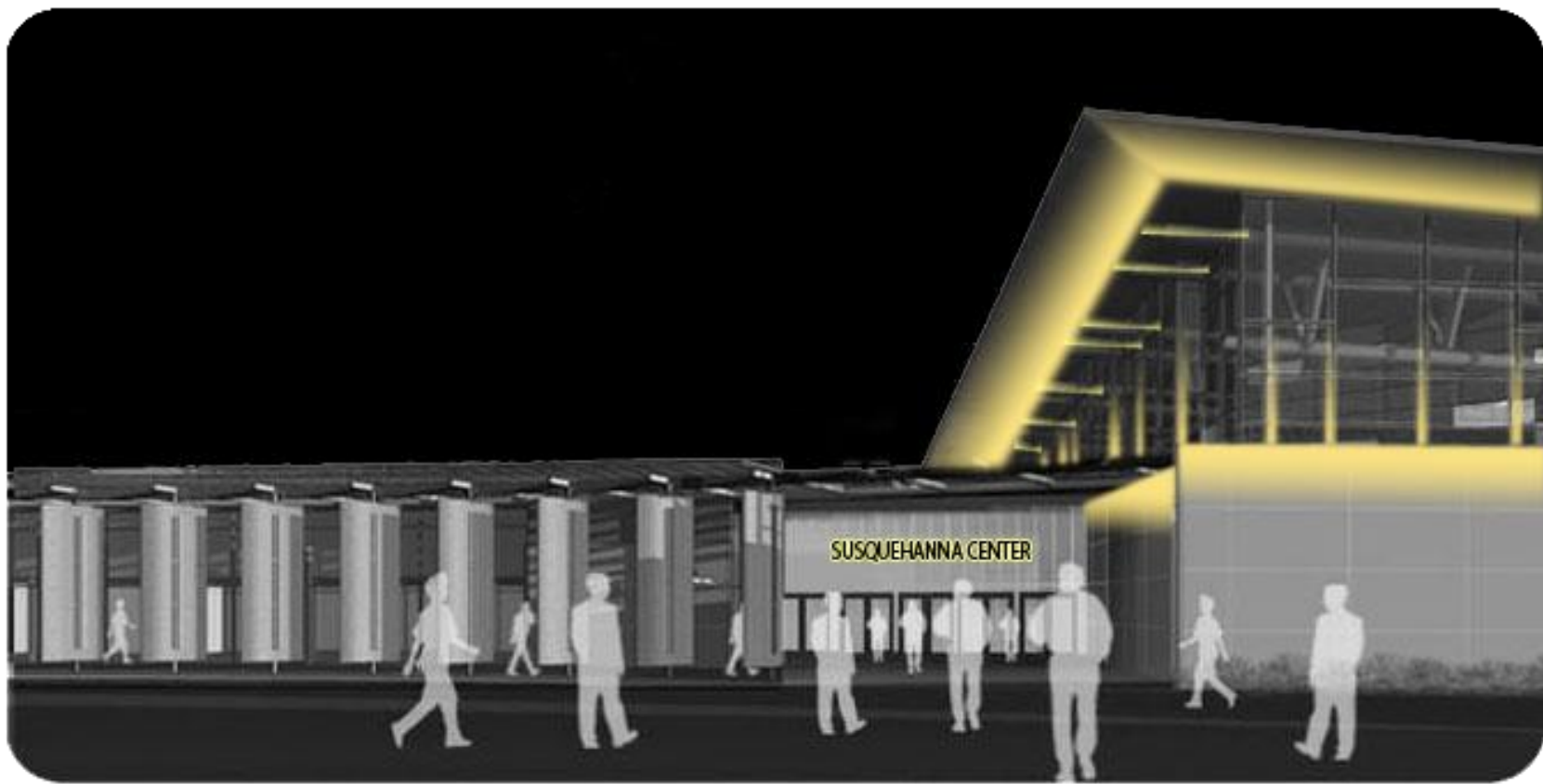
Schematic Design #2
Back Lighting of Sign



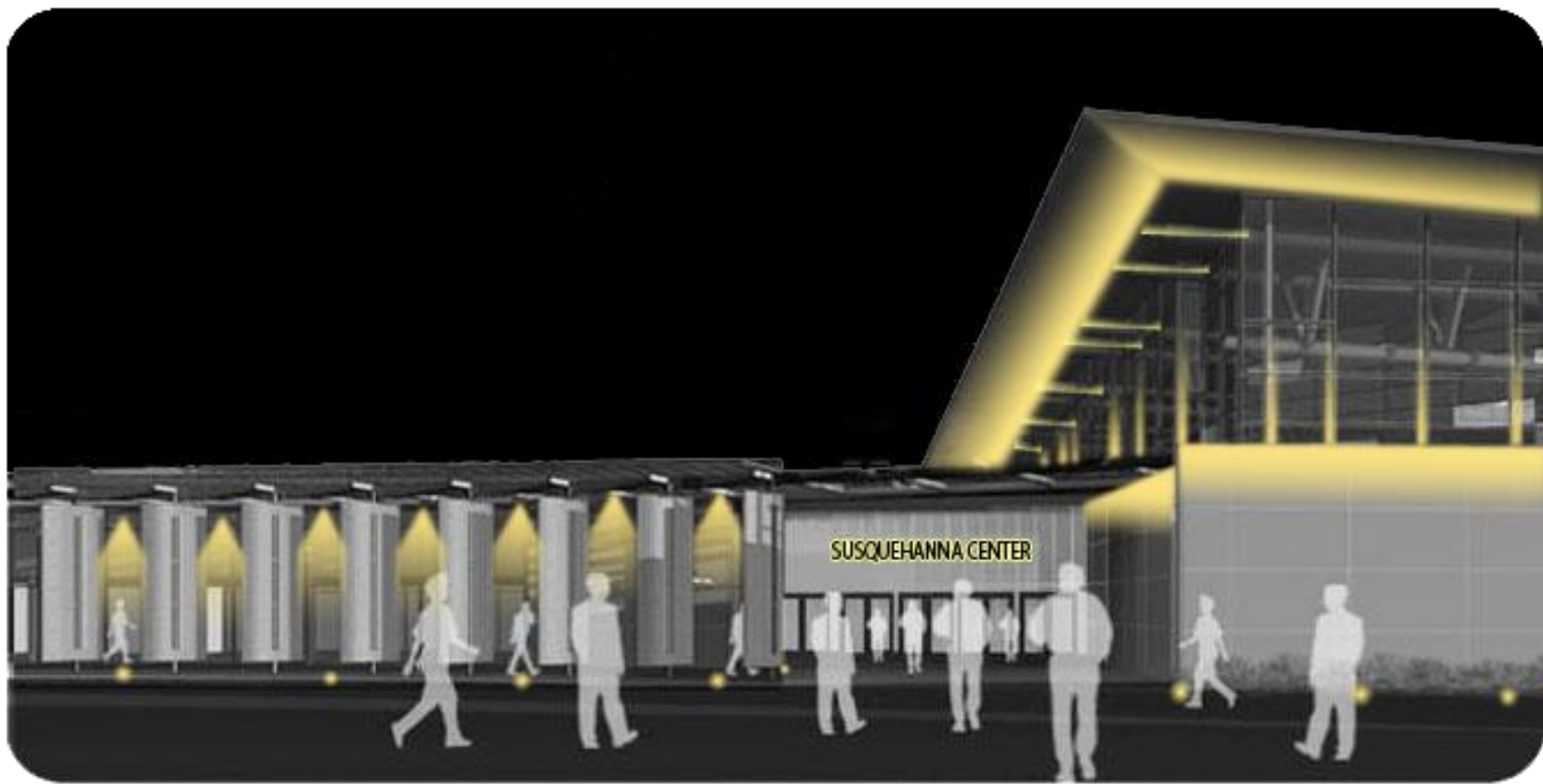
Schematic Design #2
Visual Curiosity Top of Nest



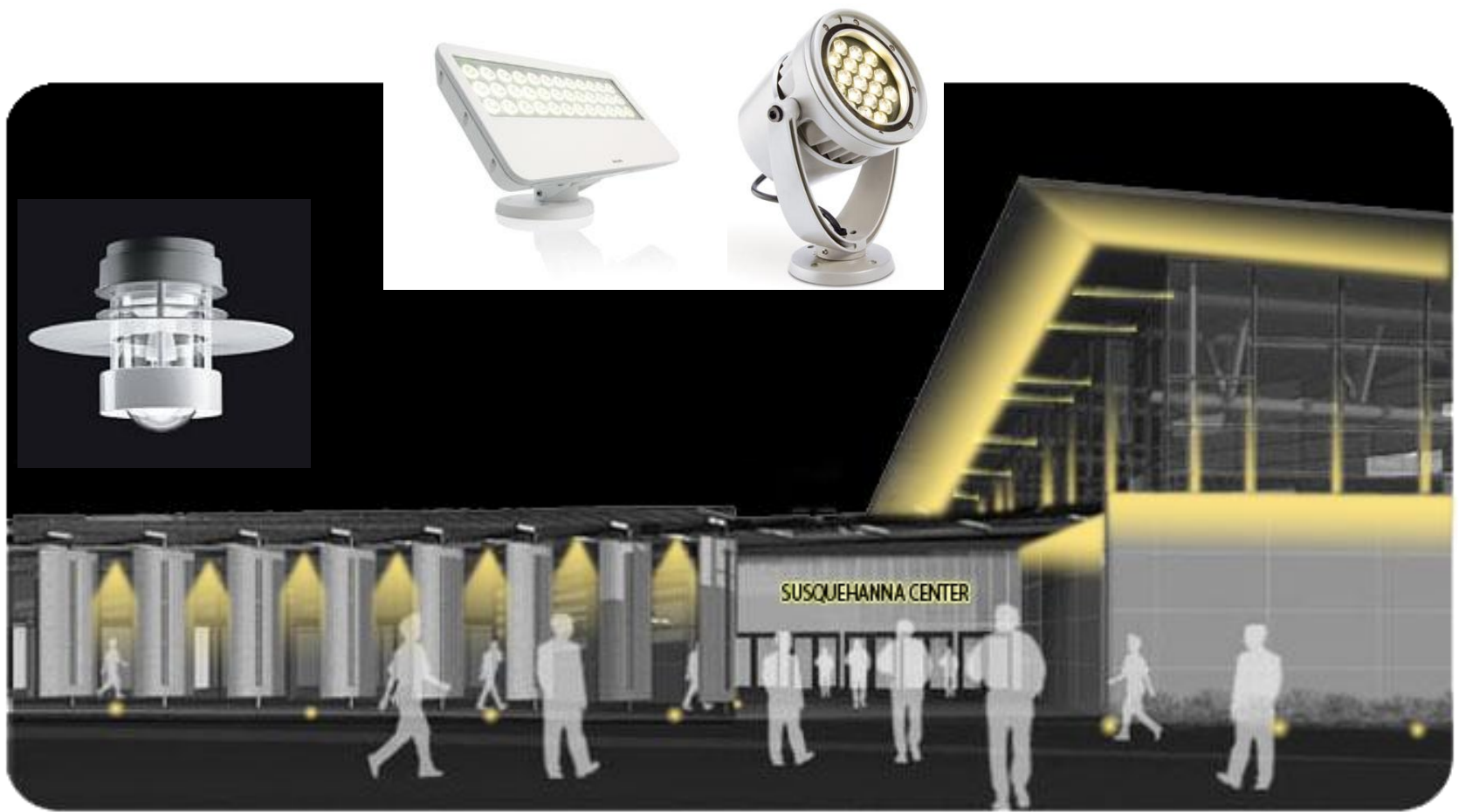
Schematic Design #2
Visual Curiosity Twigs of Nest



Schematic Design #2
Wall Emphasis



Schematic Design #2
Sidewalk Illumination



SUSQUEHANNA CENTER



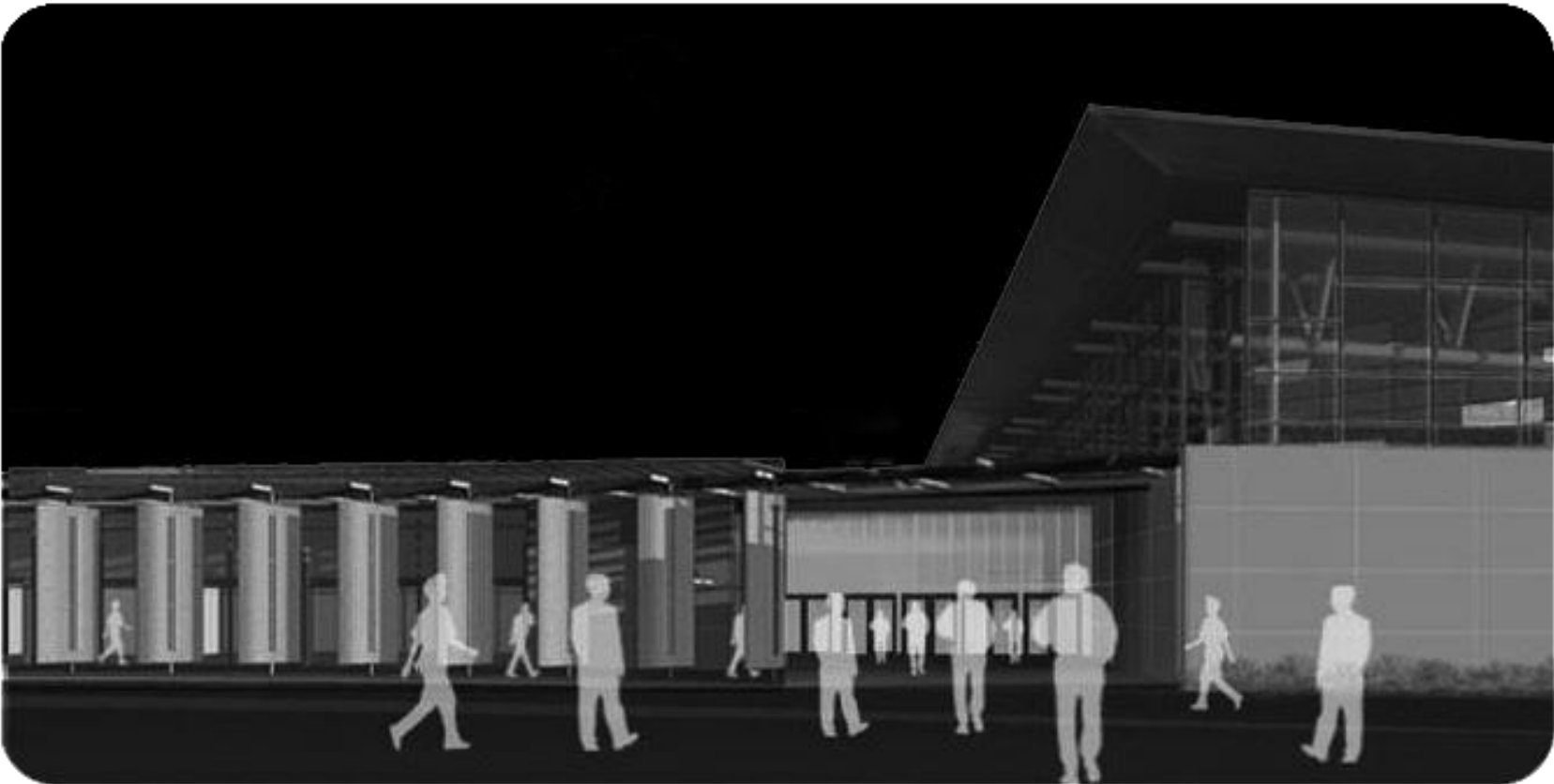
Schematic Design #2
Equipment

Facade Lighting Design Concepts

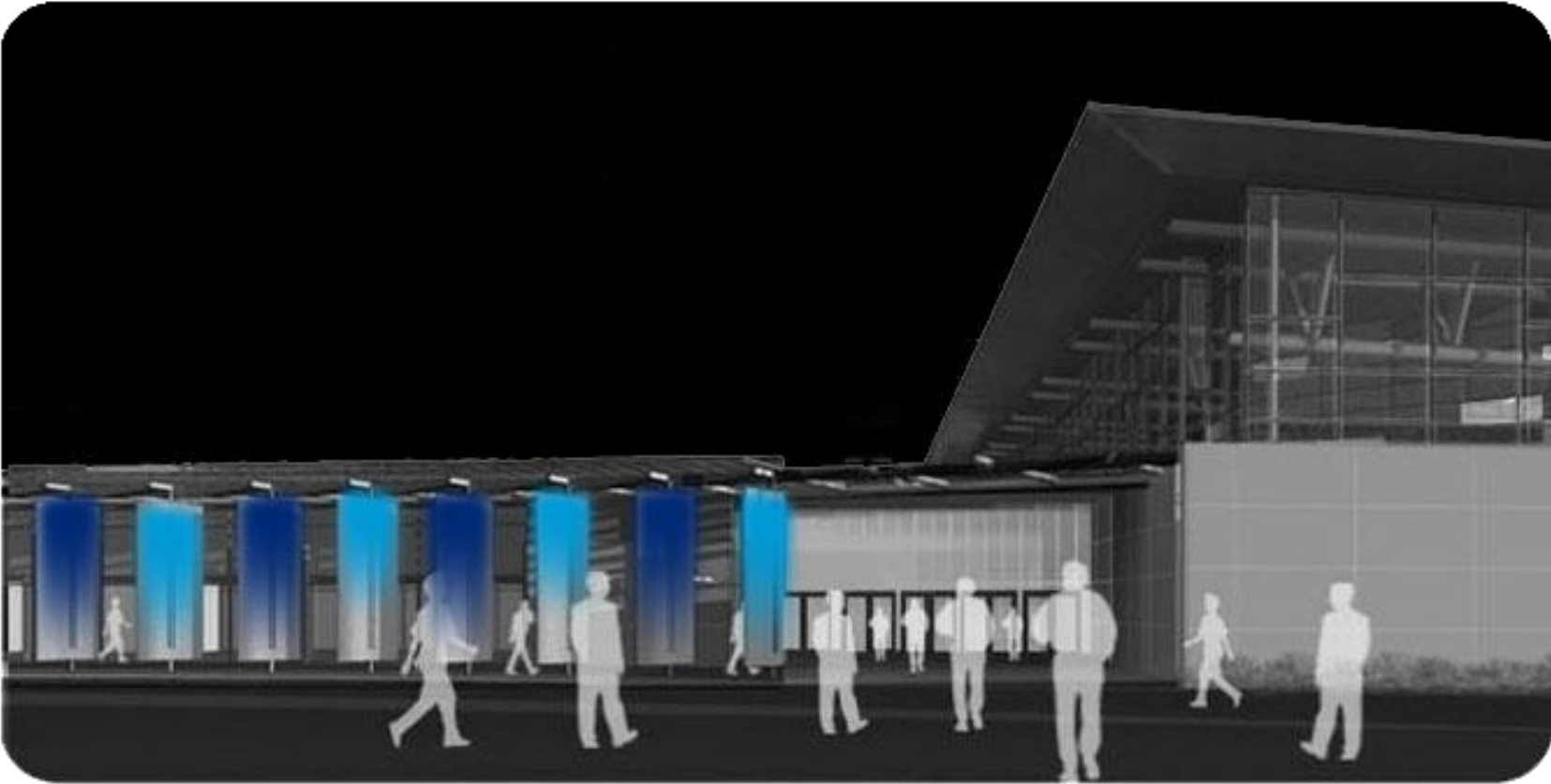
Schematic #3 – Game Day

- Inspiration Bryce Jordan Center Penn State
- Visual Interest Using **Team Colors**
- Create Visual Curiosity
- Highlight Travel to Entrance

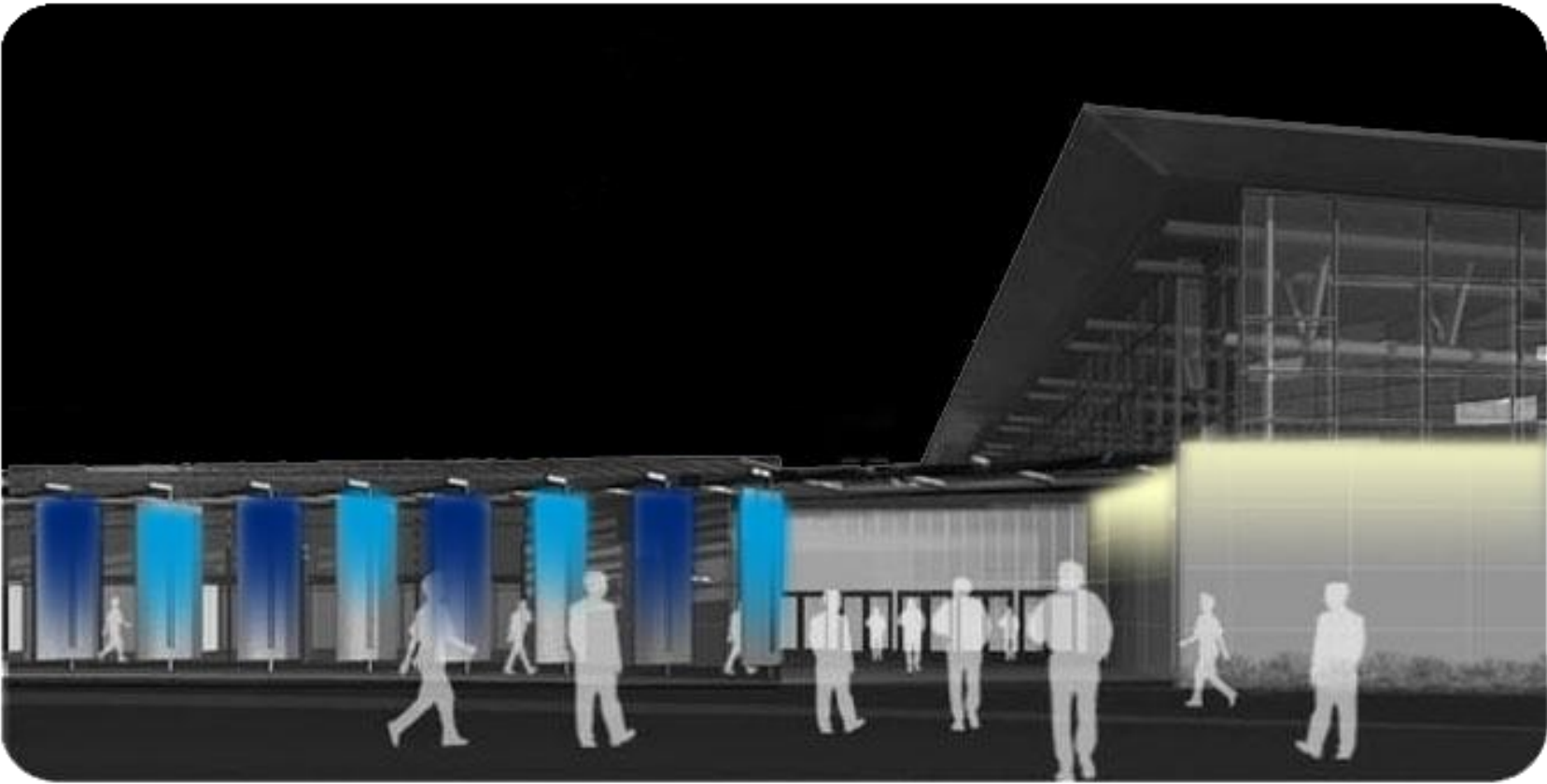




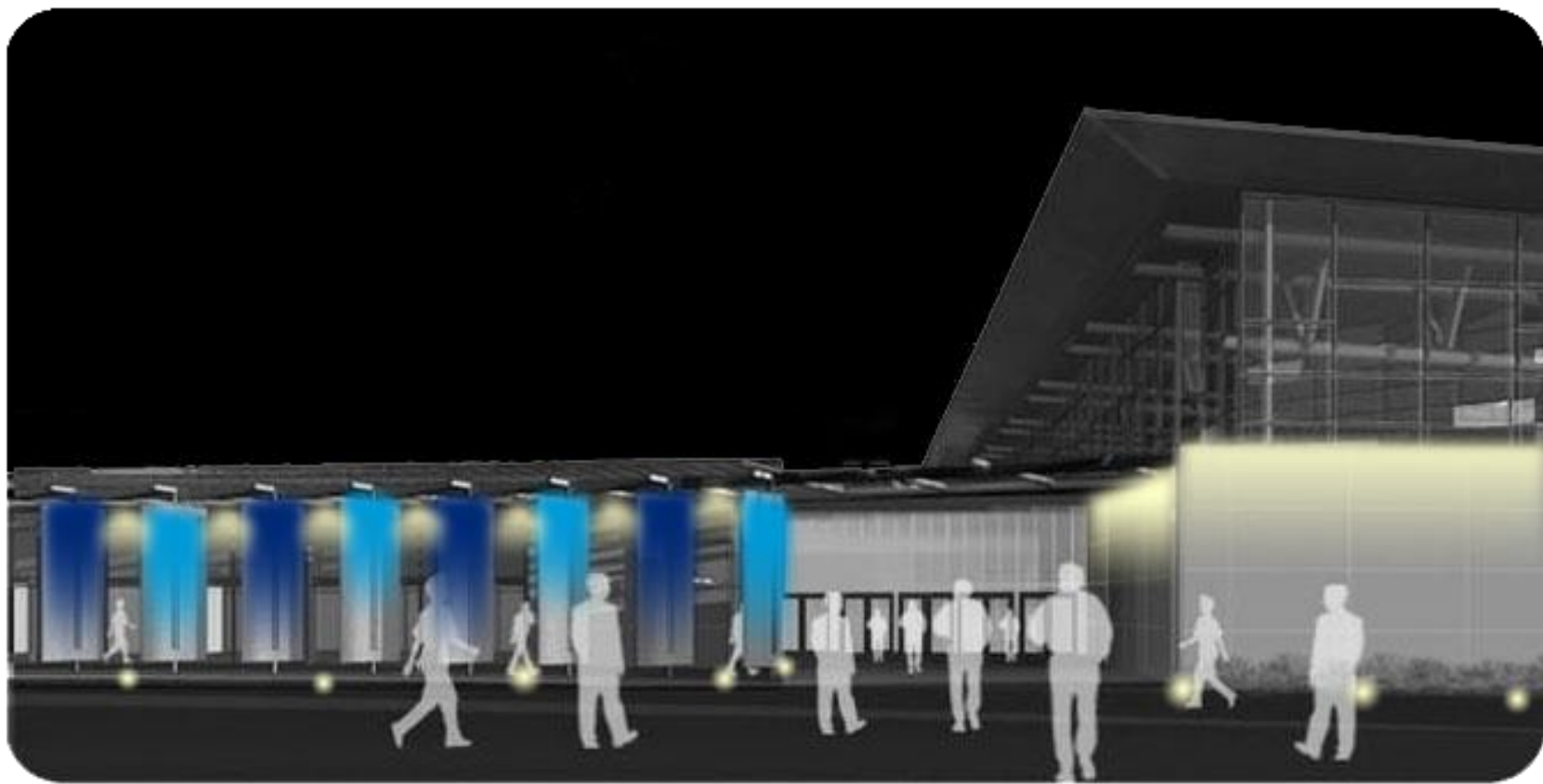
Schematic Design #3



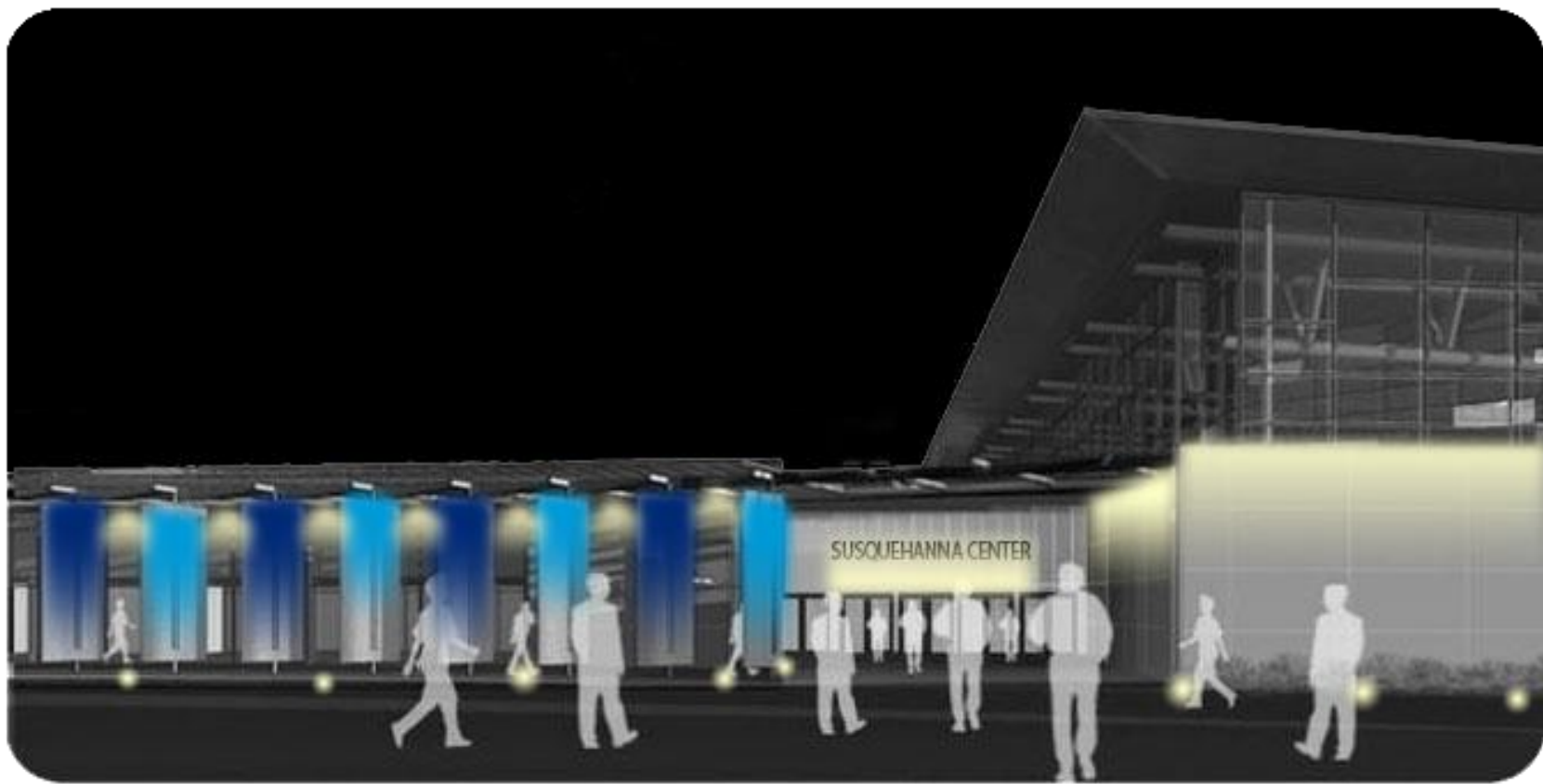
Schematic Design #3
Color Lighting of Shades



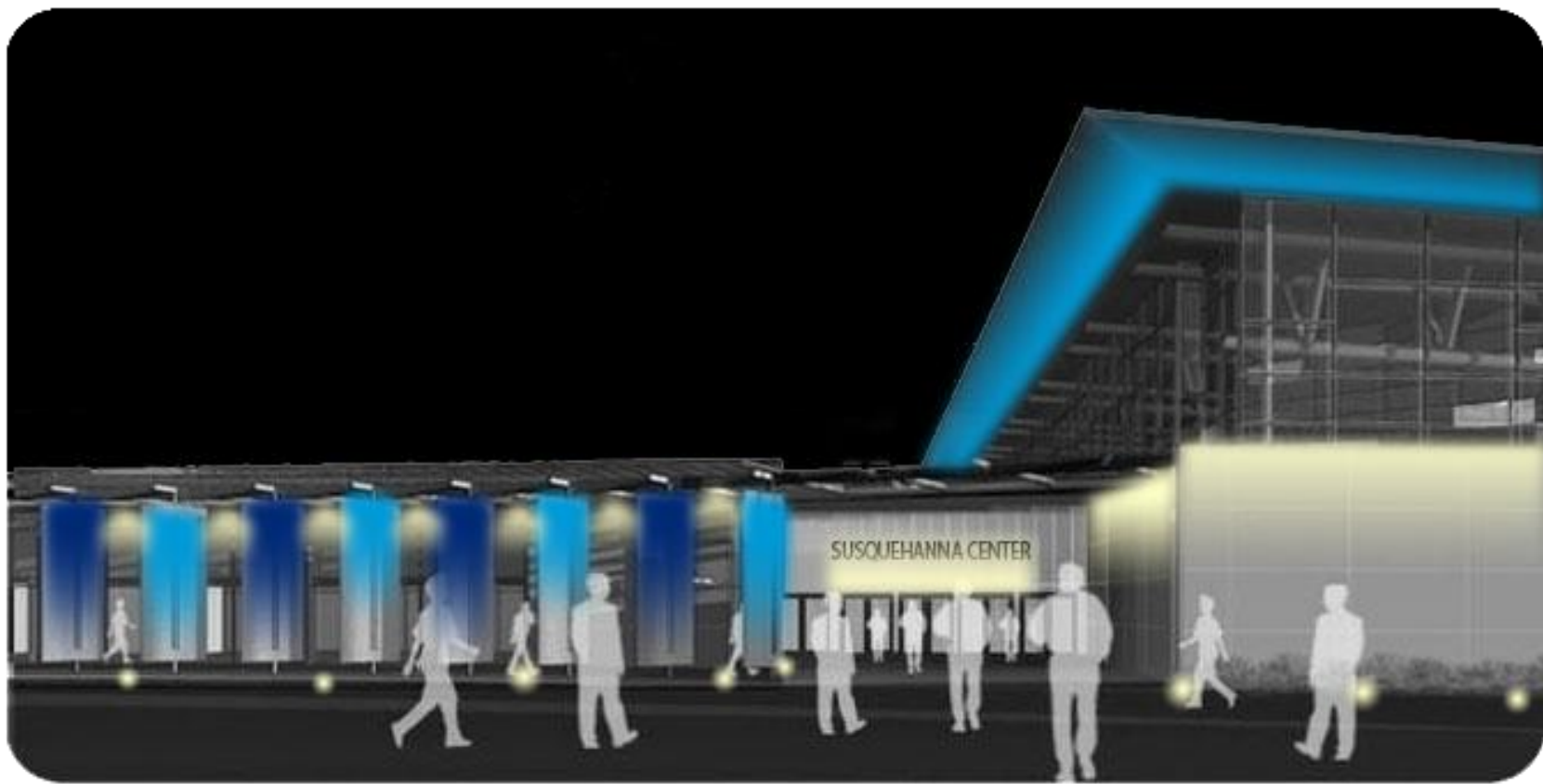
Schematic Design #3
Wall Emphasis



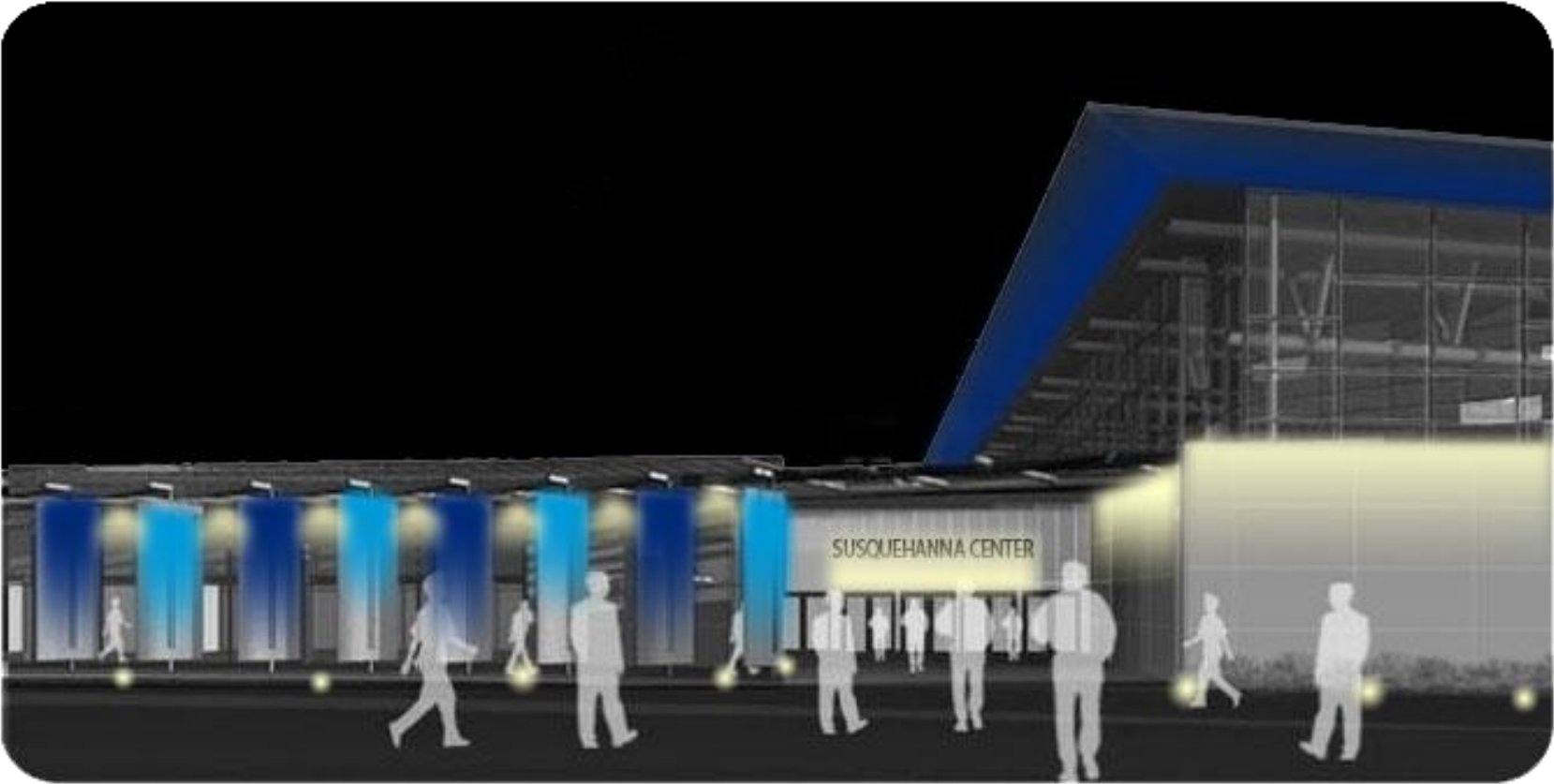
Schematic Design #3
Sidewalk Illumination



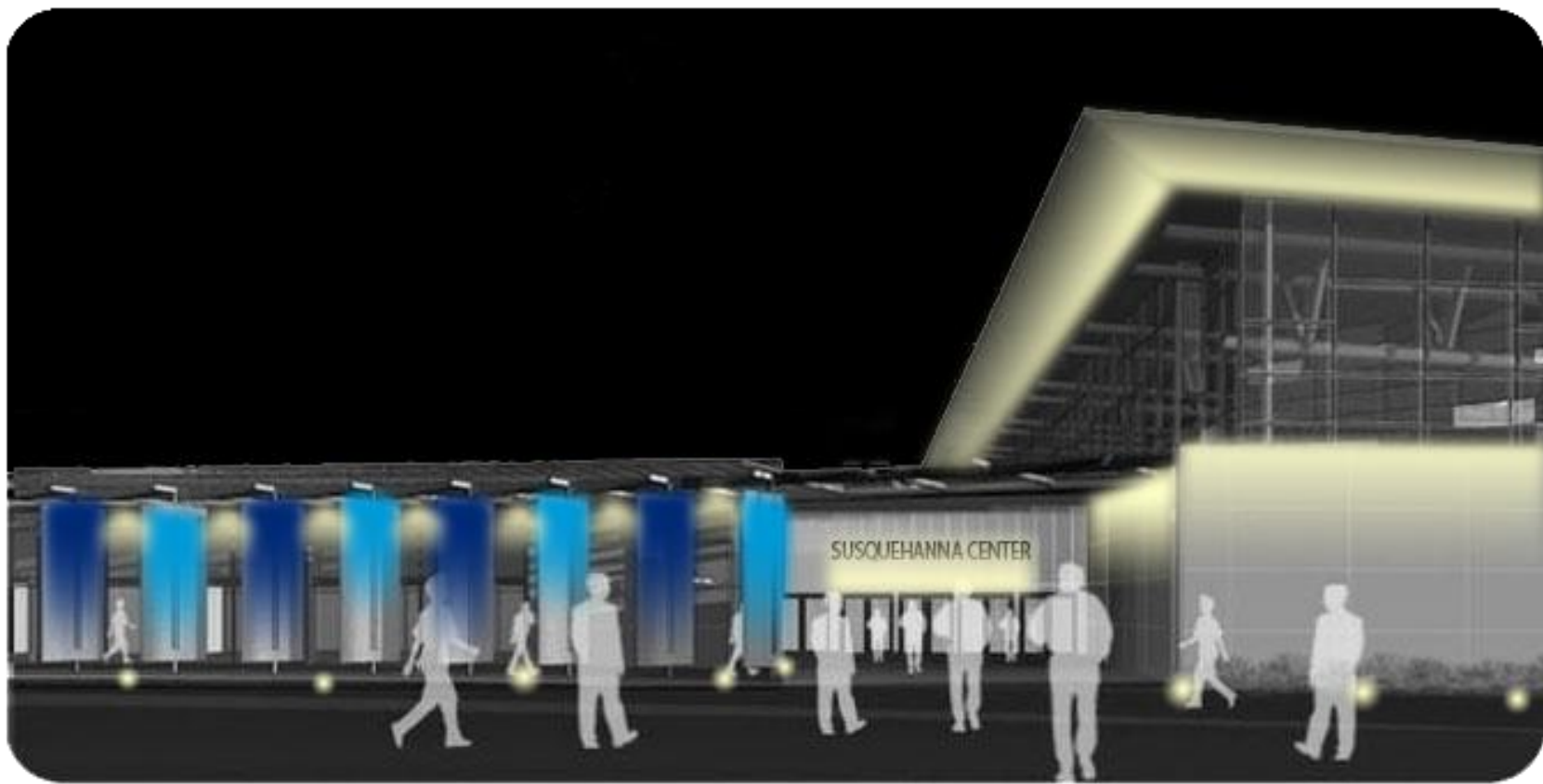
Schematic Design #3
Sign Illumination



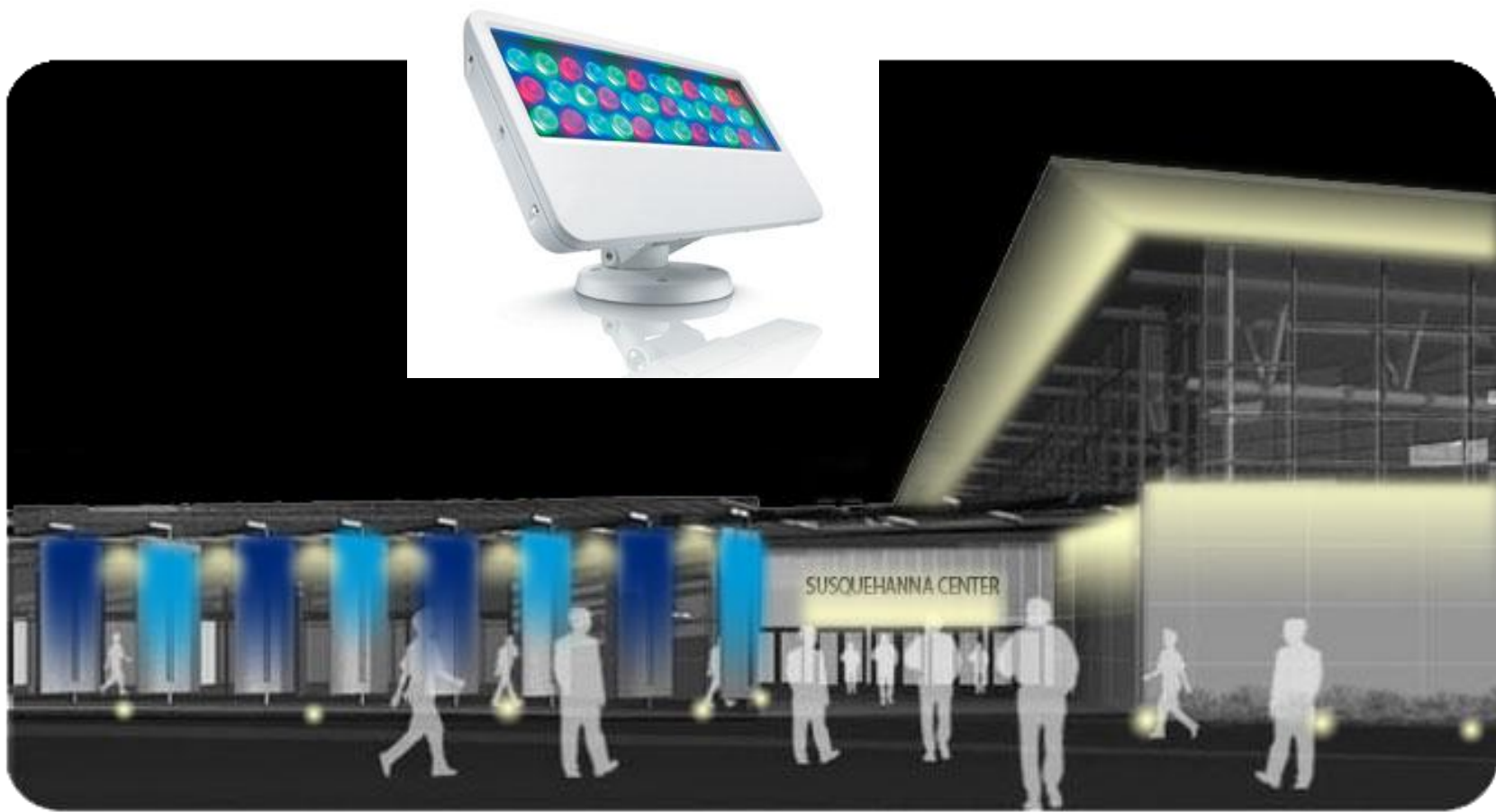
Schematic Design #3
Color Changing Illumination



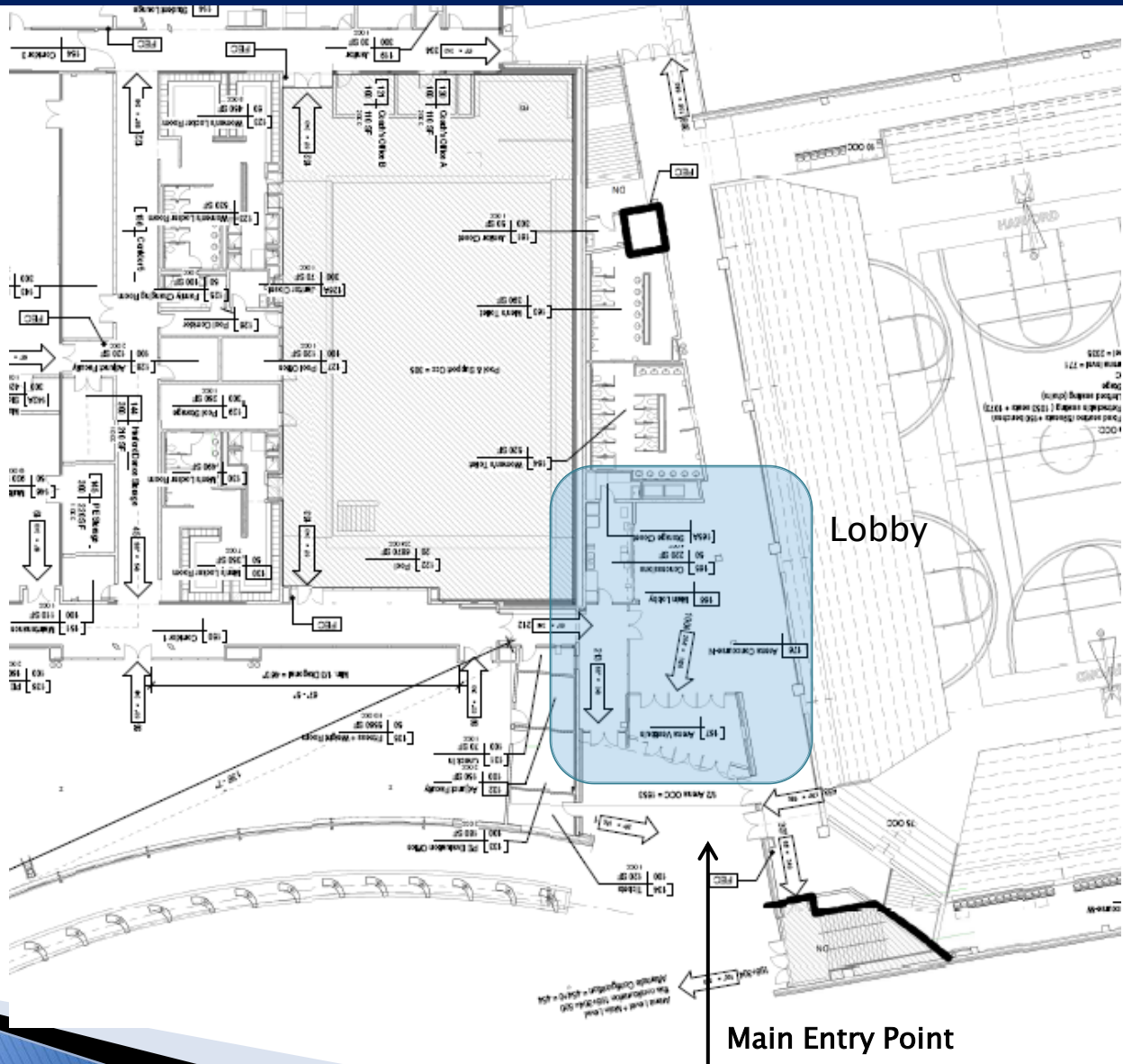
Schematic Design #3
Color Changing Illumination



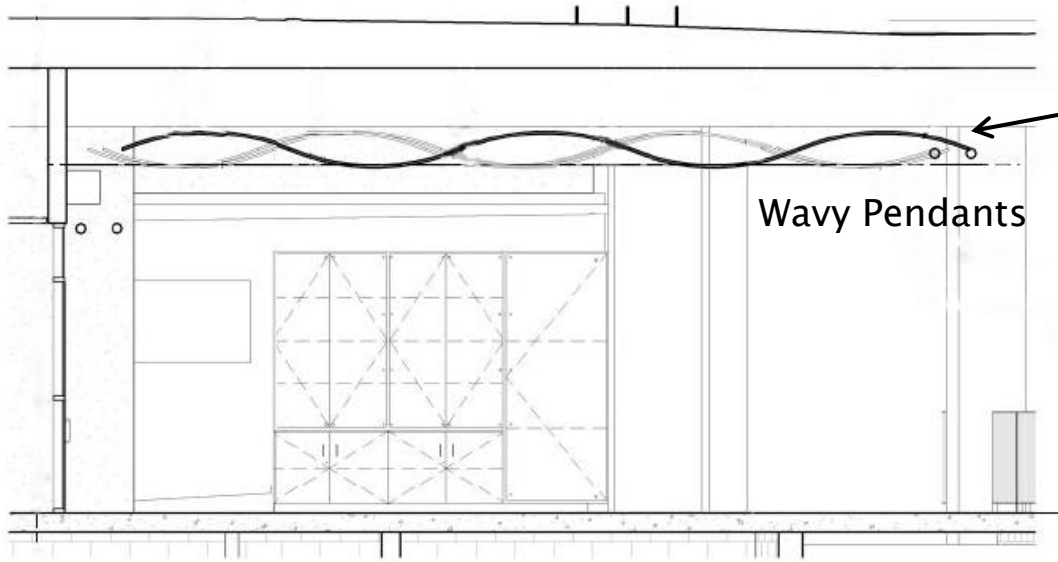
Schematic Design #3
Color Changing Illumination



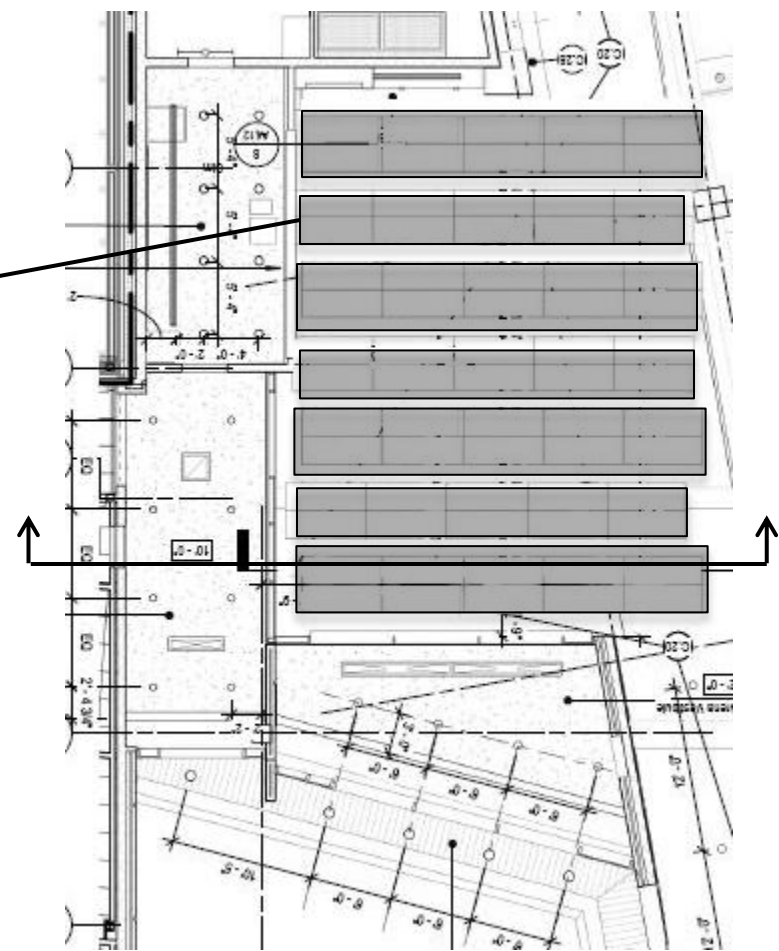
Schematic Design #3
Equipment



Lobby Floor Plan

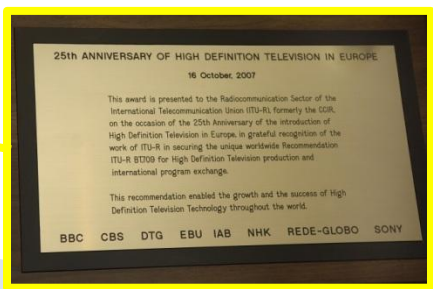
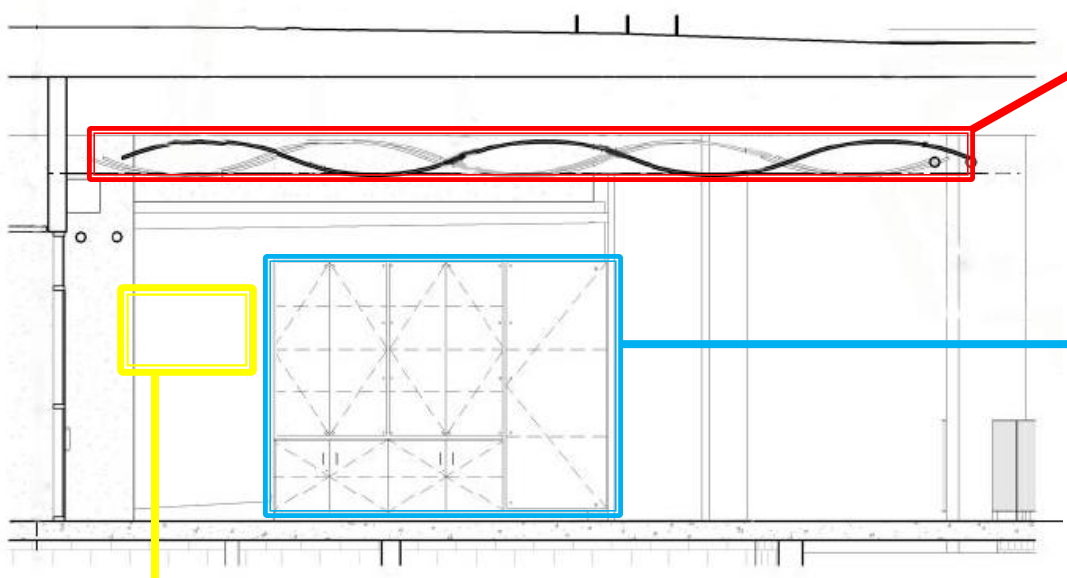


Wavy Pendants



- Pendants alternate in the Light Blue and Navy Blue colors

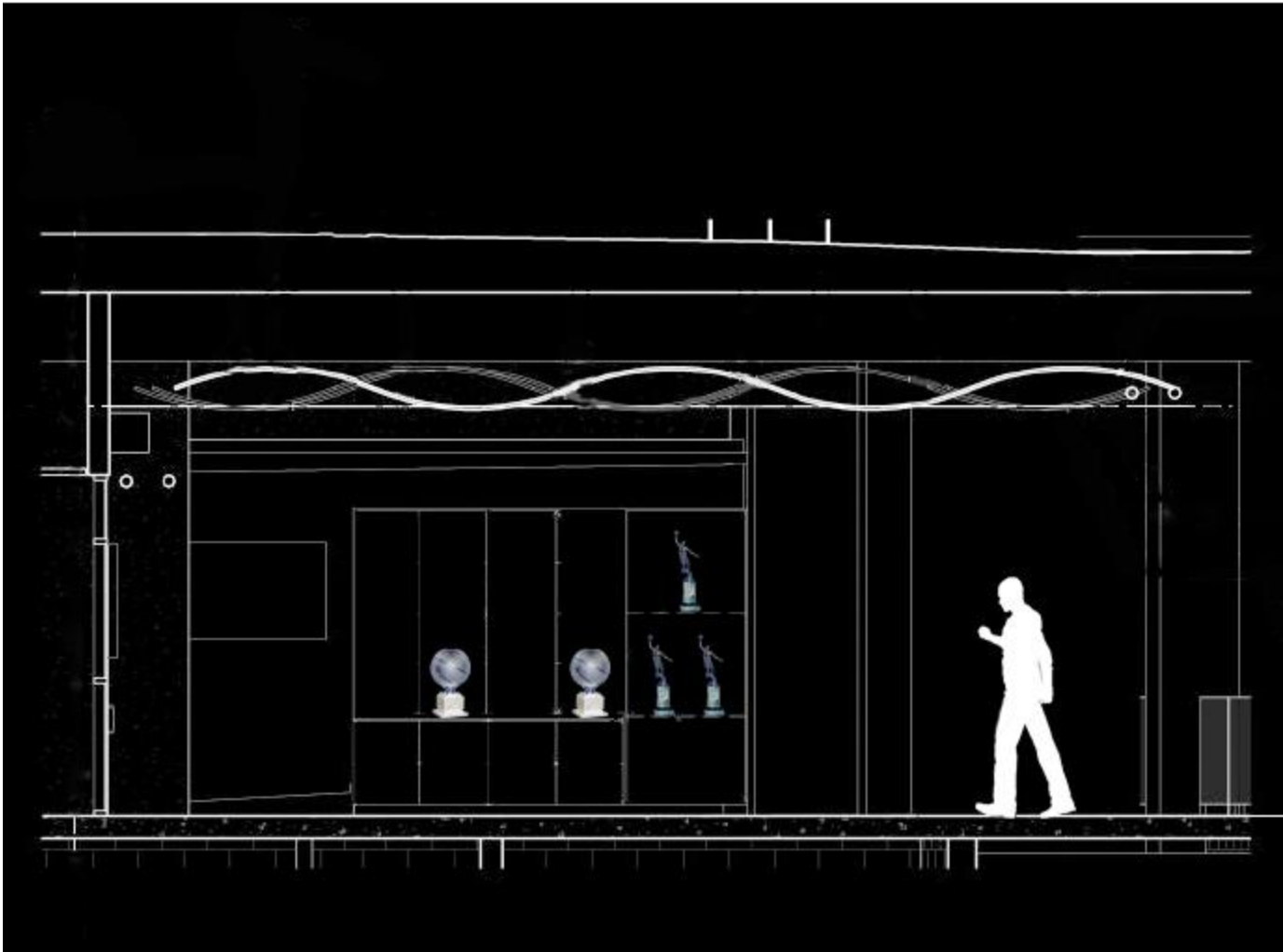
Lobby Materials



Lobby Lighting Design Concepts

Lighting to an Impression – Festive

- Provide bright non-uniform Lighting Mode
- Place emphasis on Points of Interest
- Utilize Movement of Light – Sparkle or Pulsate



Lobby Schematic Design

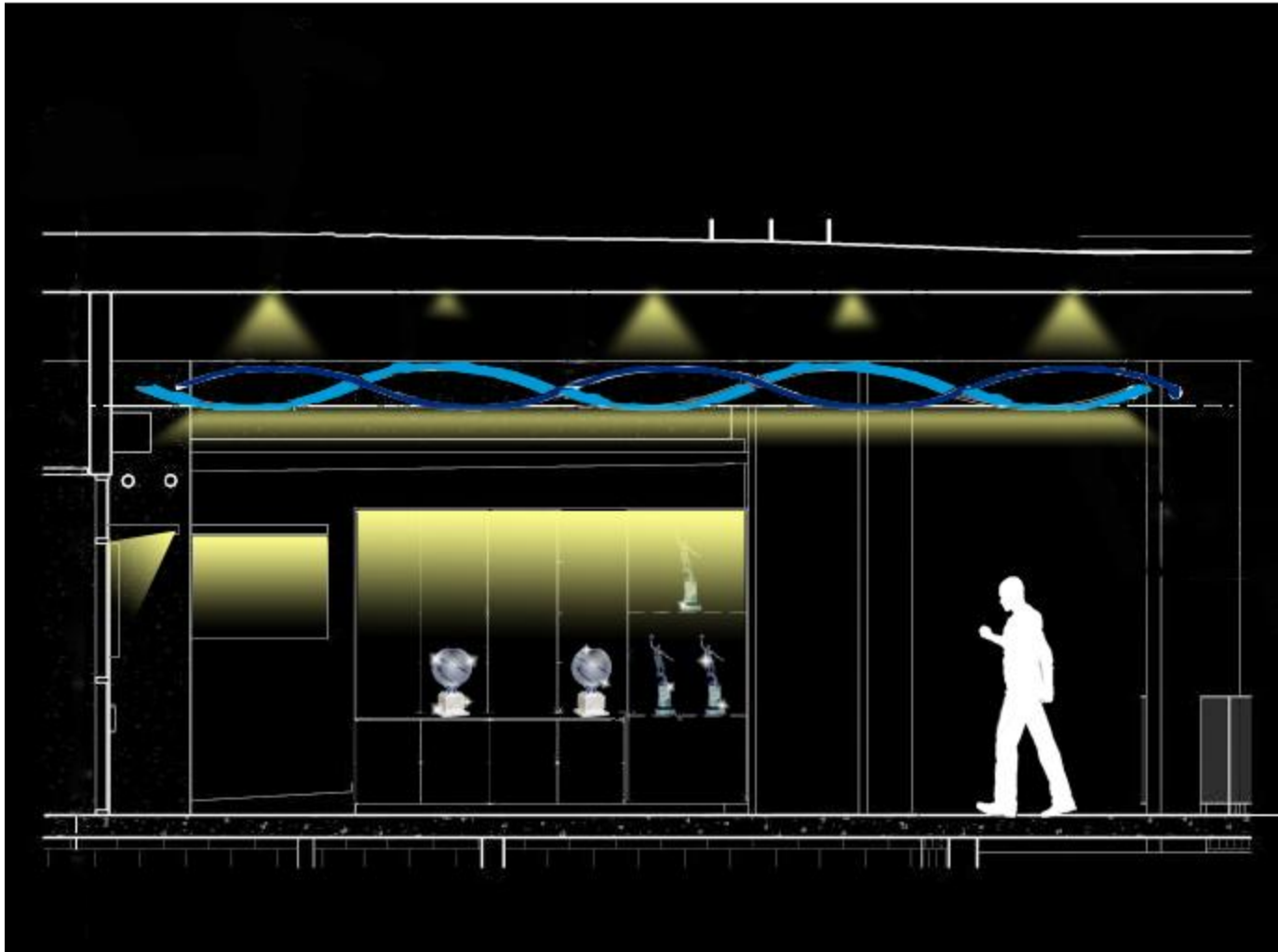
Lobby Schematic Design



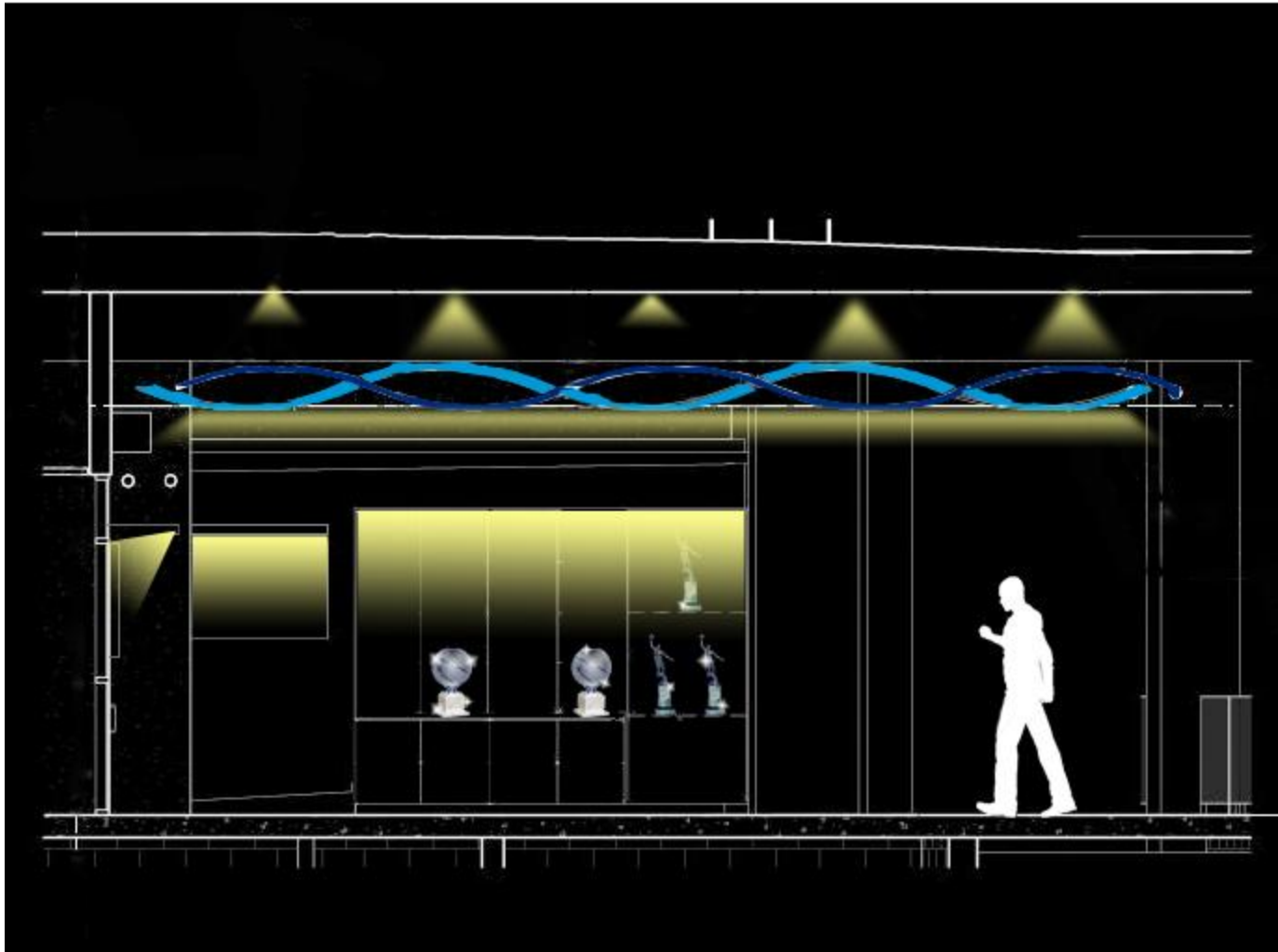
Lobby Schematic Design
Display Case



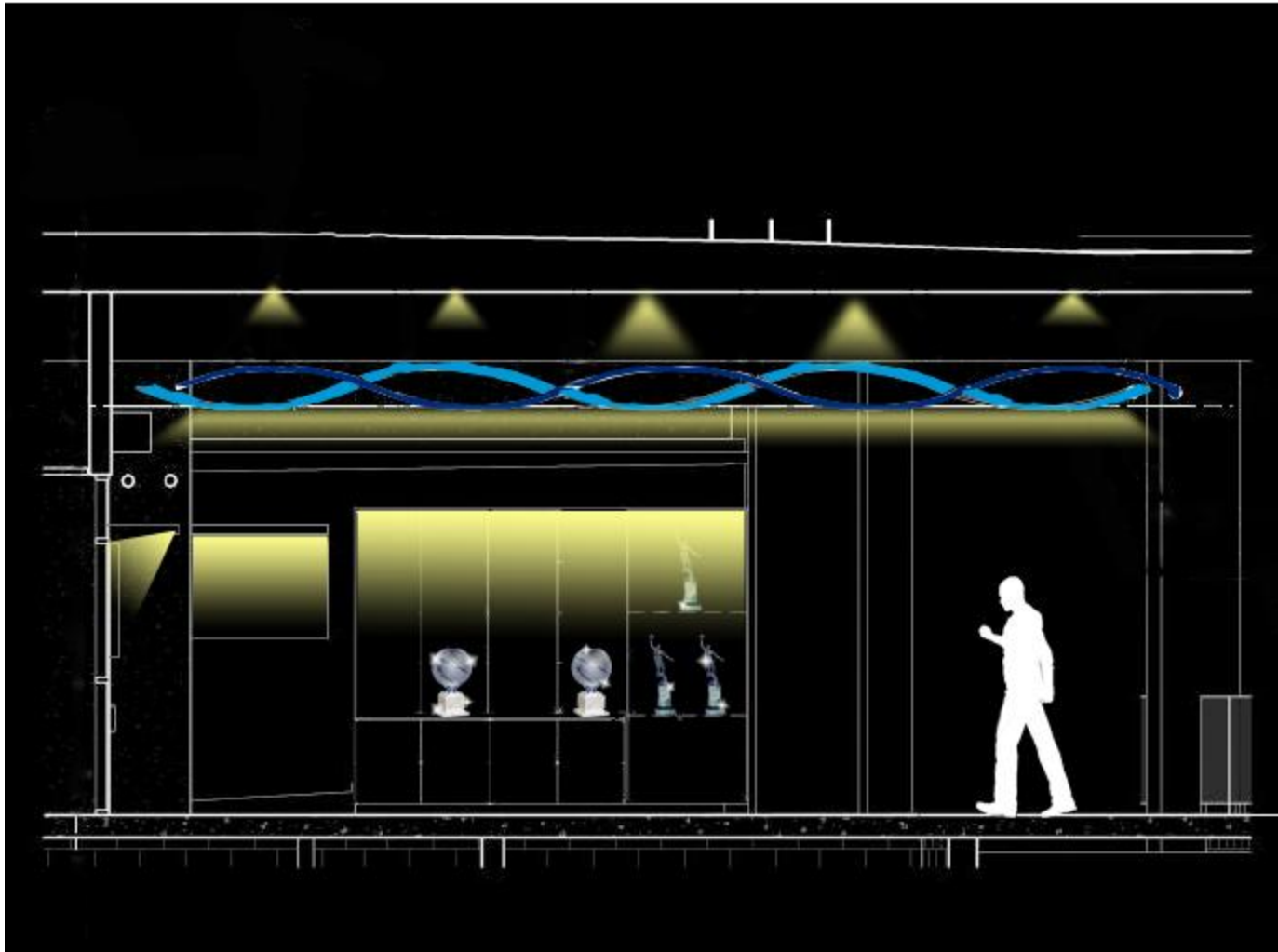
Lobby Schematic Design
Honorary Plaque



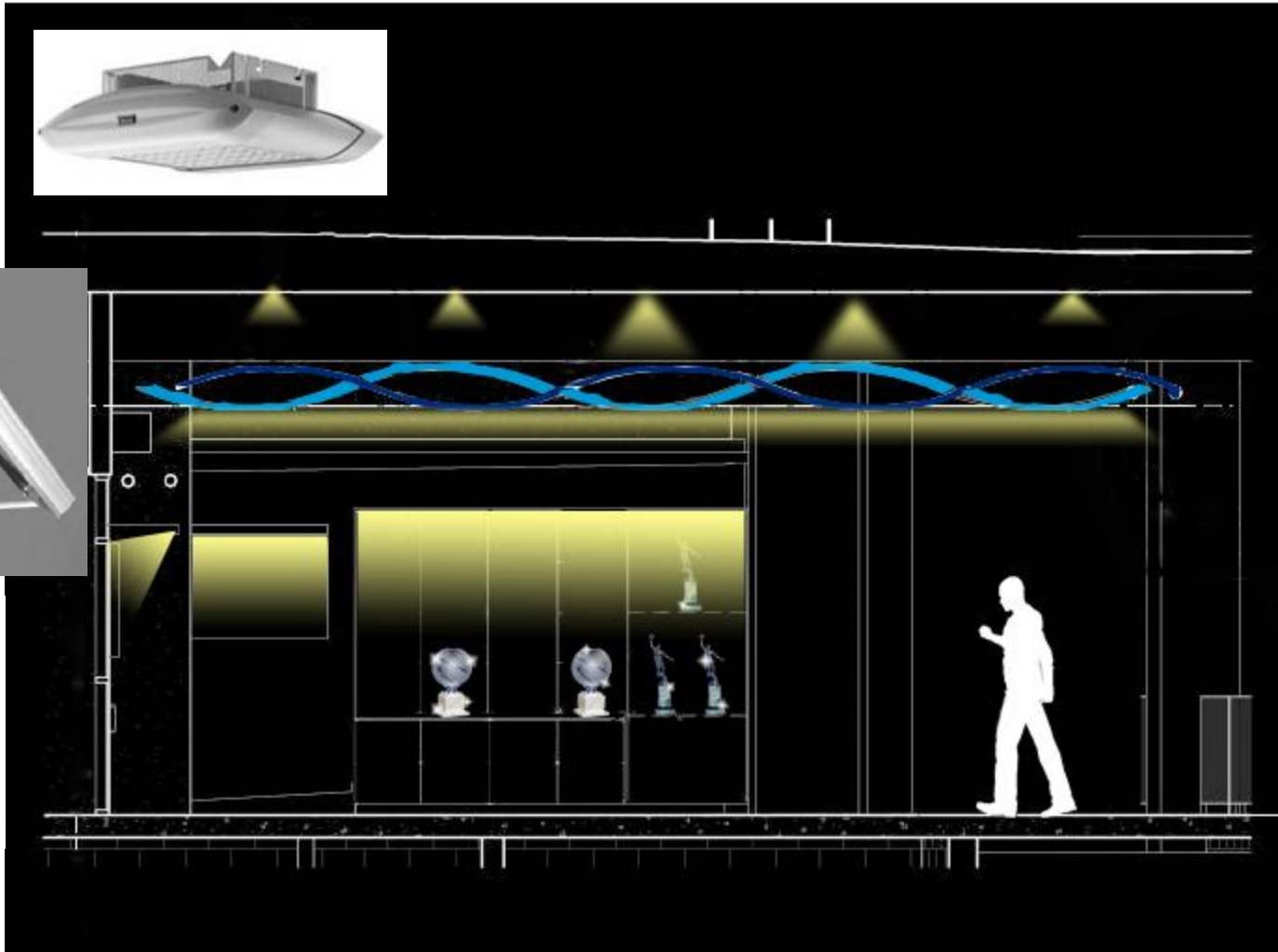
Lobby Schematic Design
Random Slow Pulsating Fixture



Lobby Schematic Design
Random Slow Pulsating Fixture



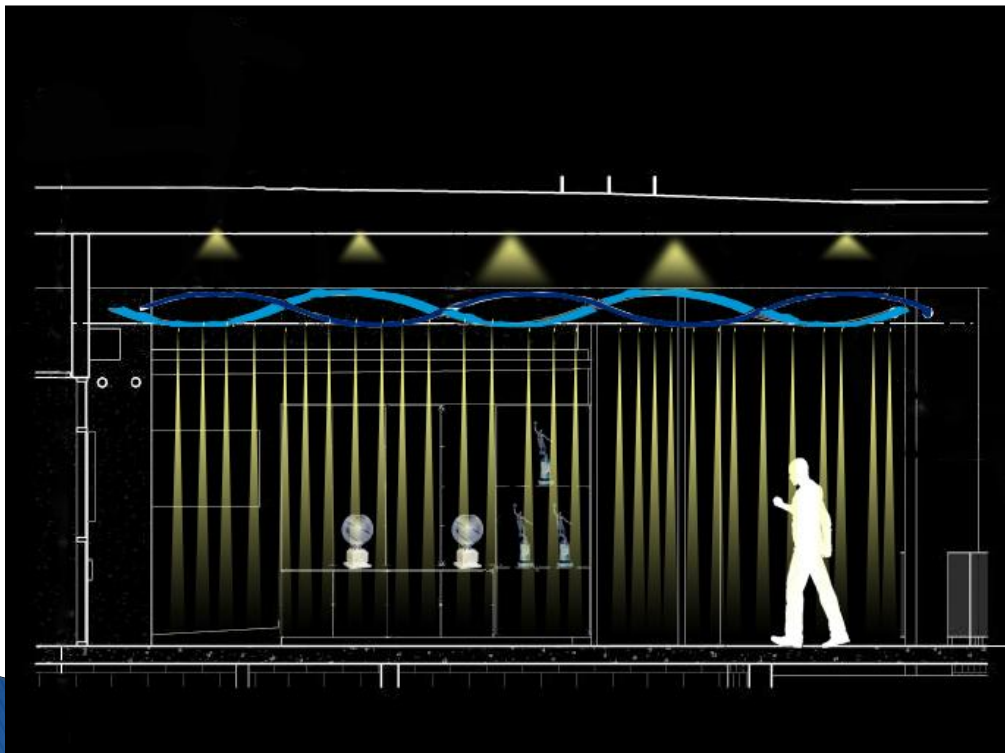
Lobby Schematic Design
Random Slow Pulsating Fixture



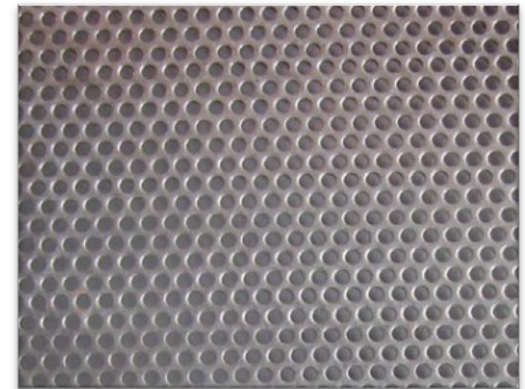
Lobby Schematic Design
Equipment

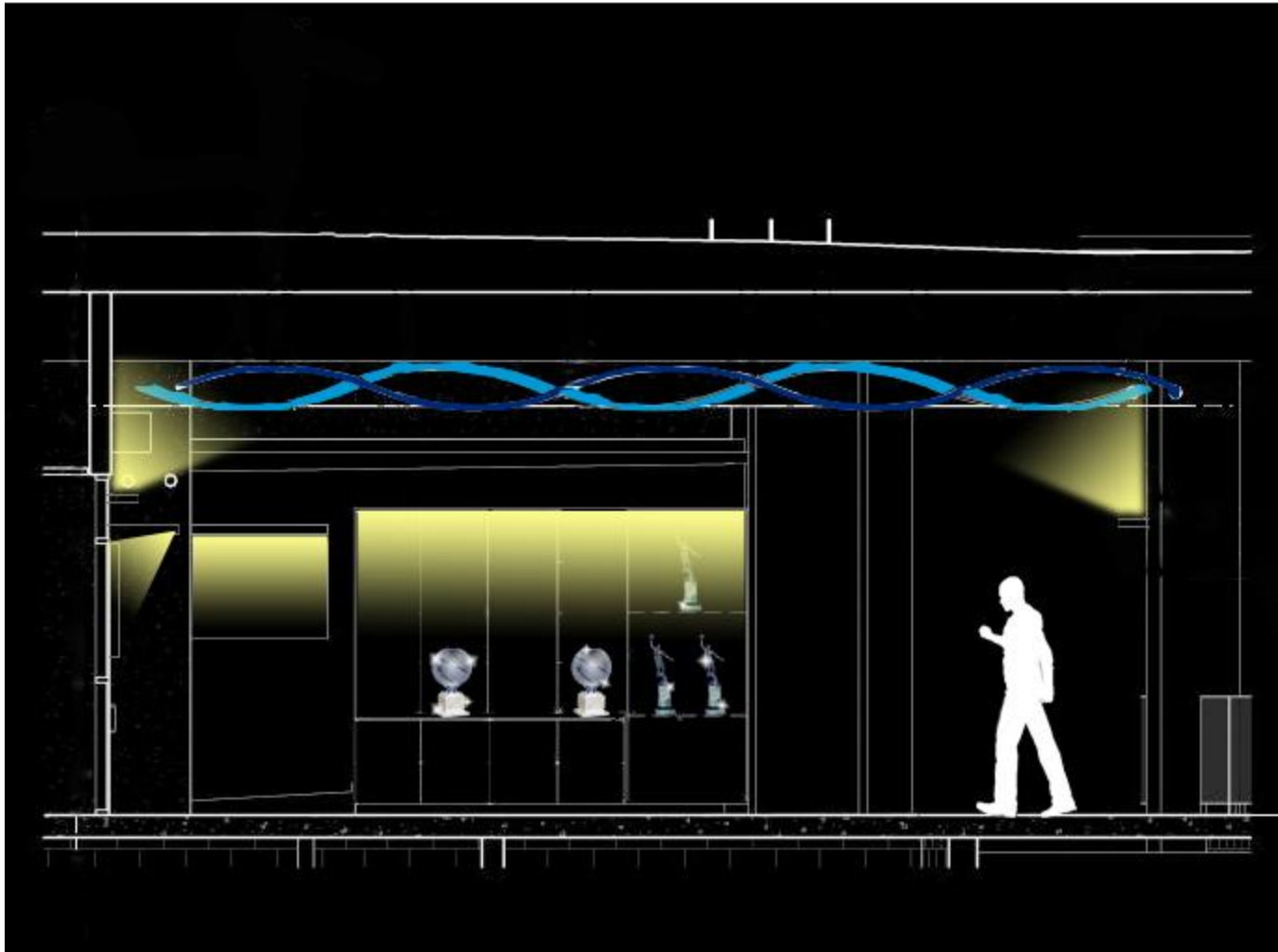
Lobby Lighting Design Issues

Light interaction with Perforated Aluminum

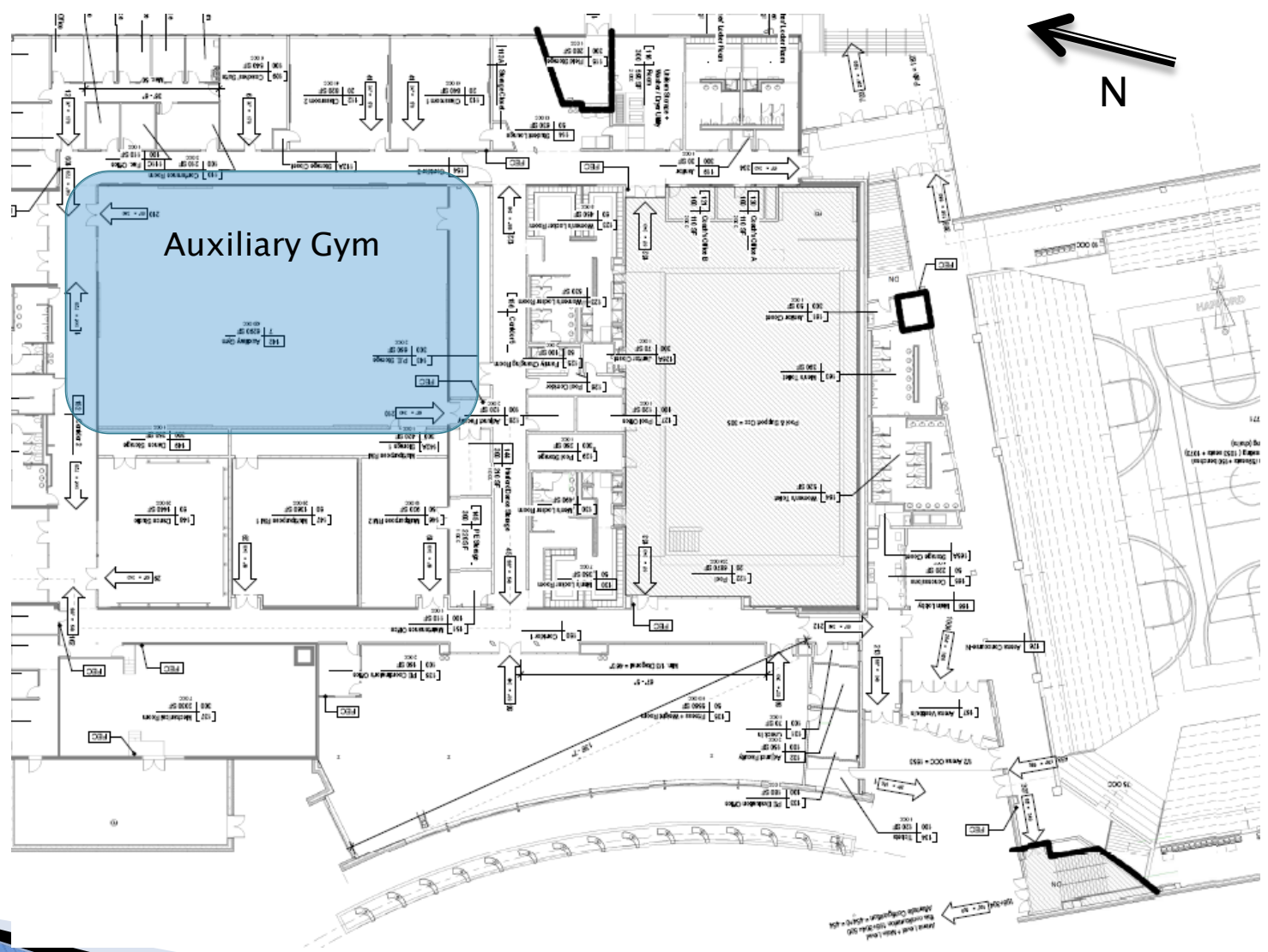


- Stream Lines of Light

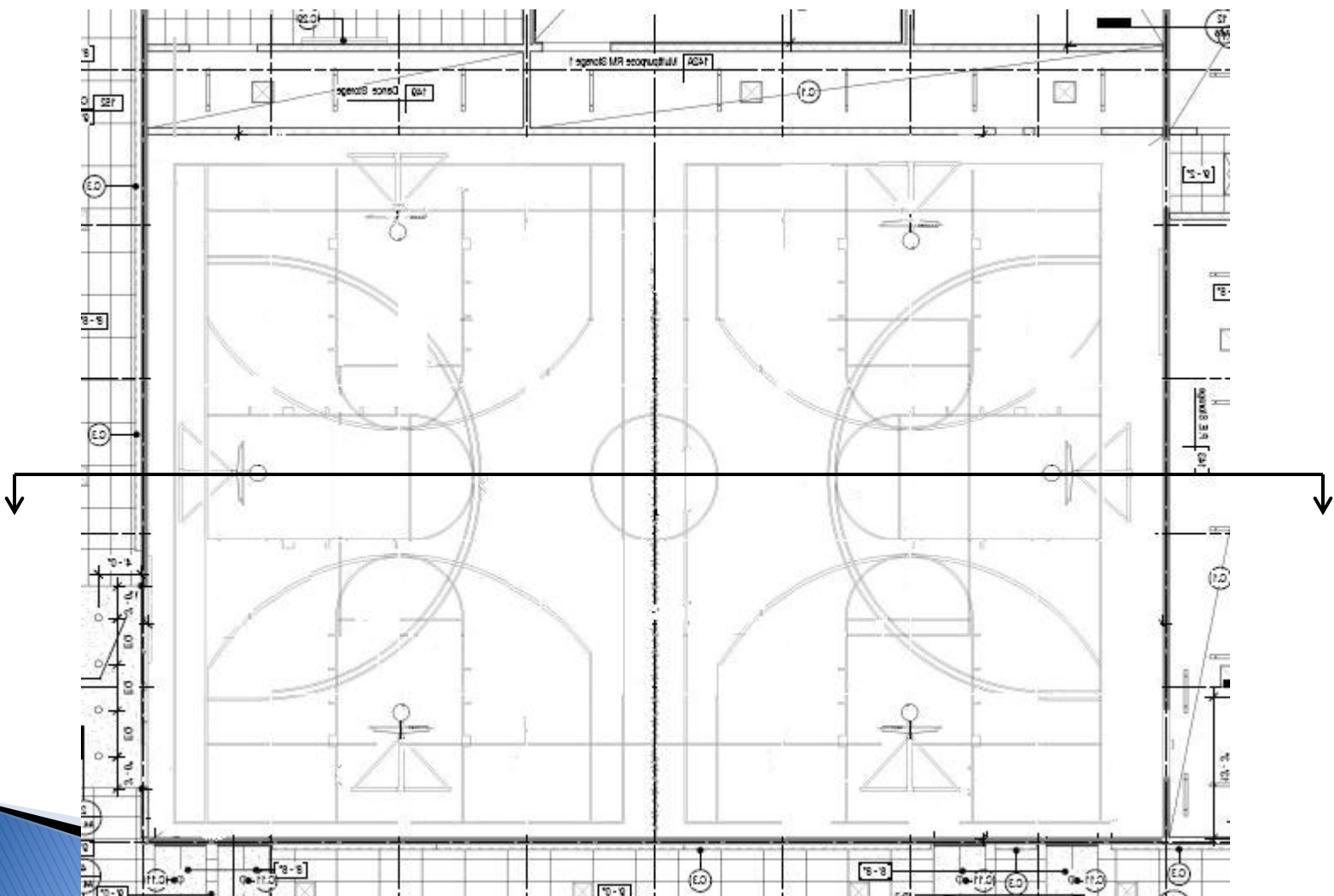




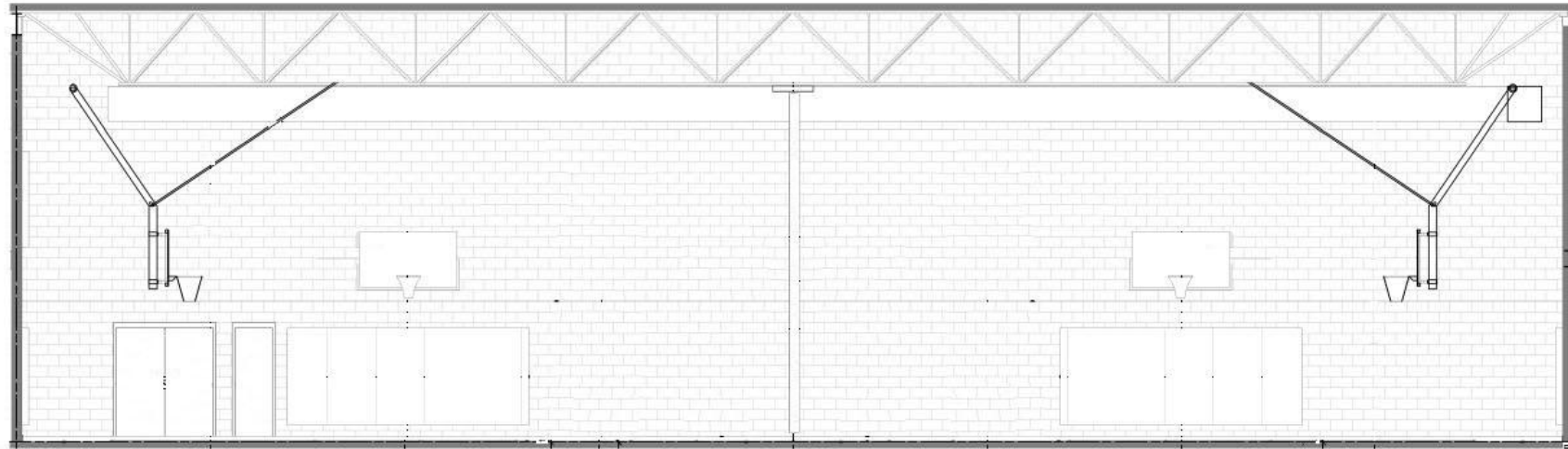
Lobby Schematic Design
Alternate Solution Wall Mounted



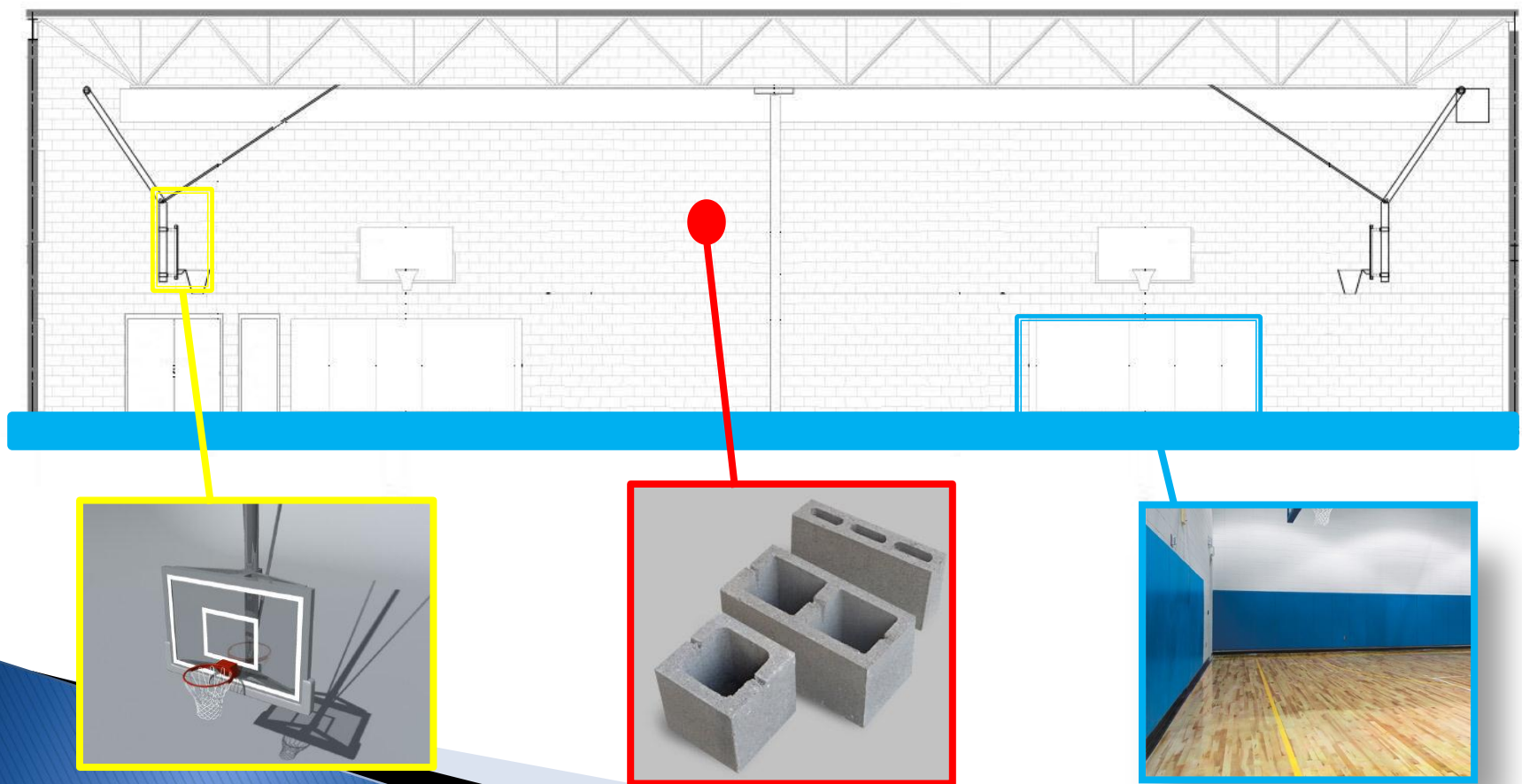
Auxiliary Gymnasium Floor Plan



Auxiliary Gymnasium Section



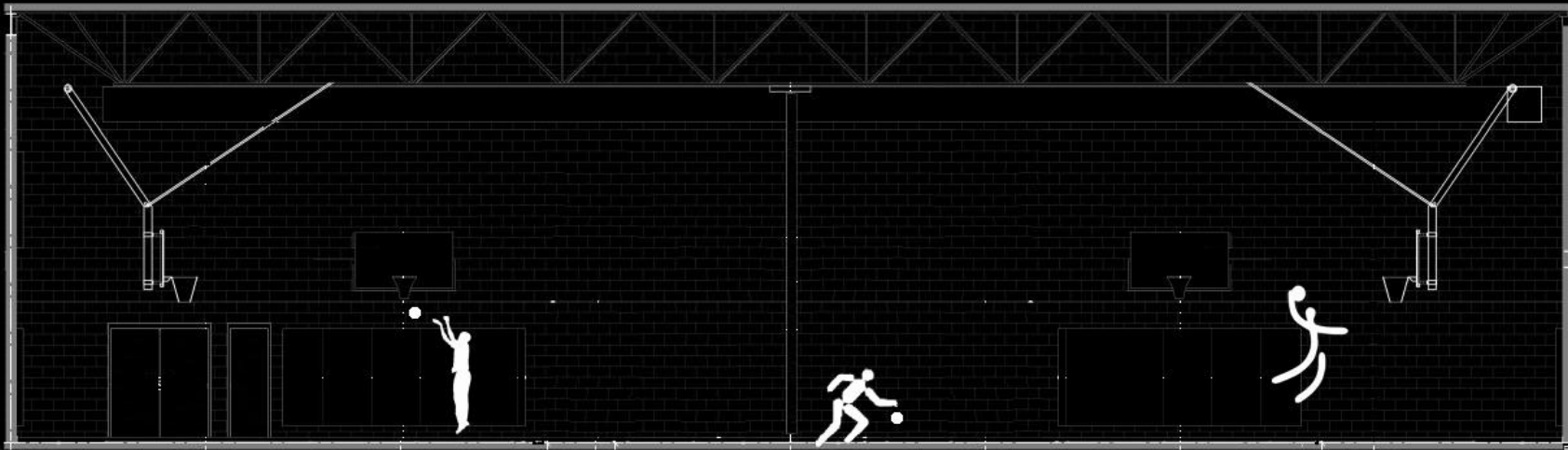
Auxiliary Gymnasium Materials



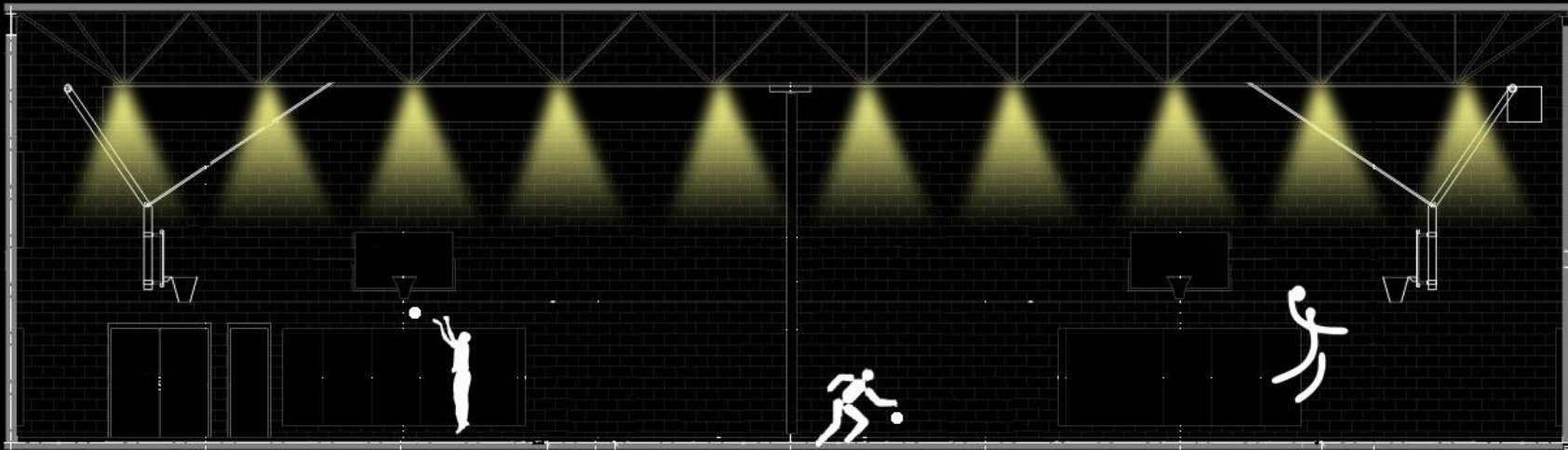
Auxiliary Gymnasium Lighting Design Concepts

Lighting For an Task

- Provide adequate Illuminance
- Supply sufficient Uniformity at Task Plane
- Bring Daylight into space
- Integrate between Electric Light and Daylight

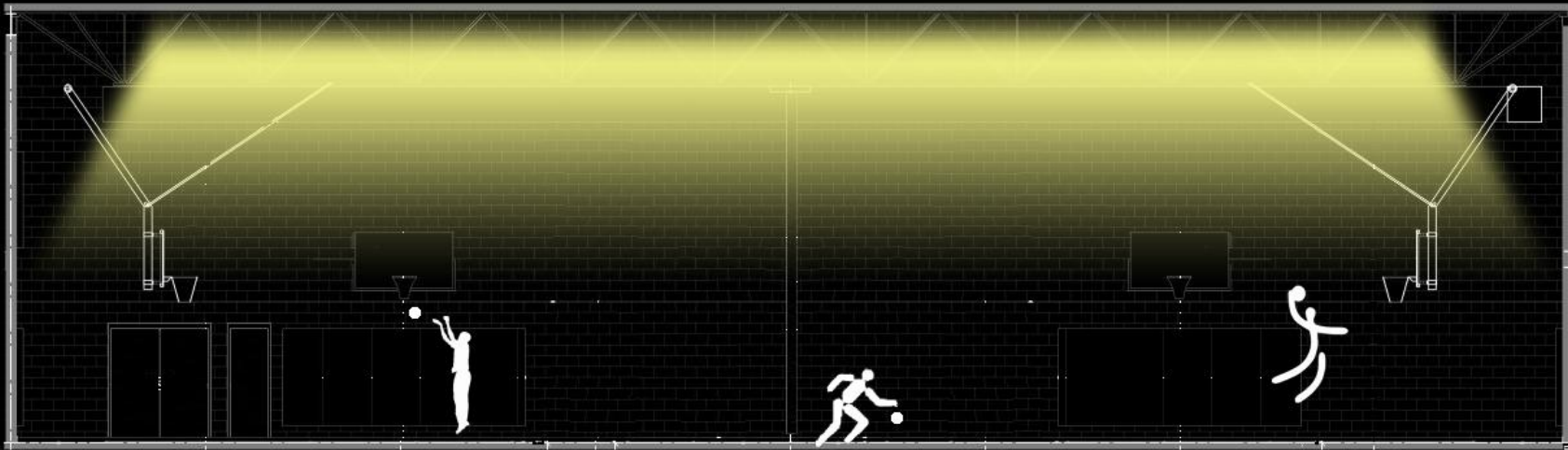


Auxiliary Gym Schematic Design



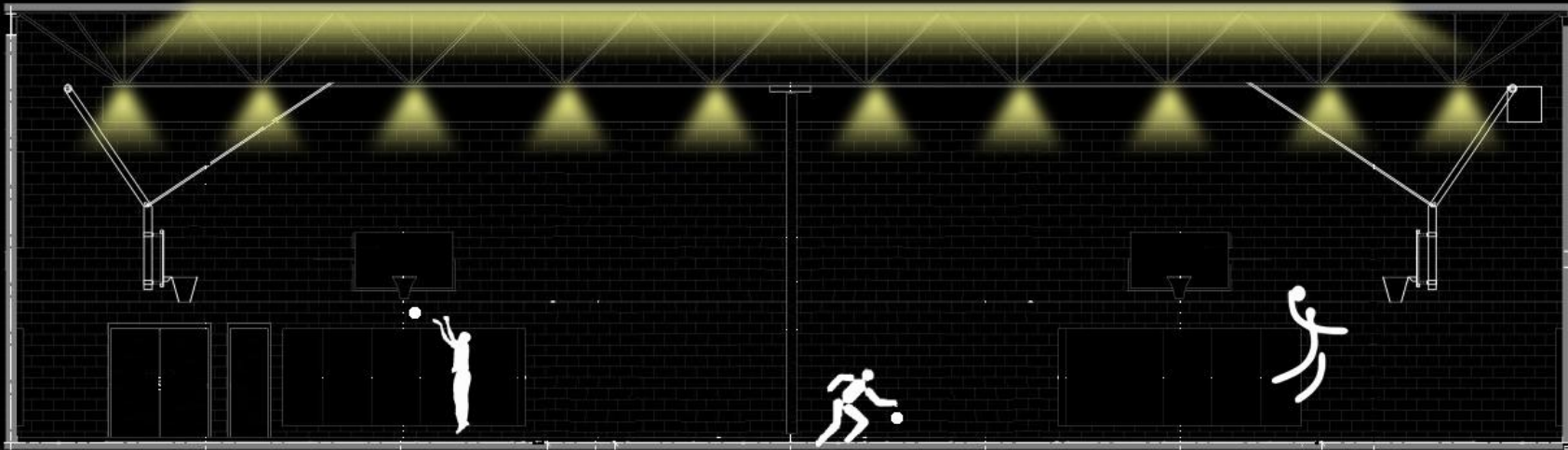
Auxiliary Gym Schematic Design

Electrical Lighting

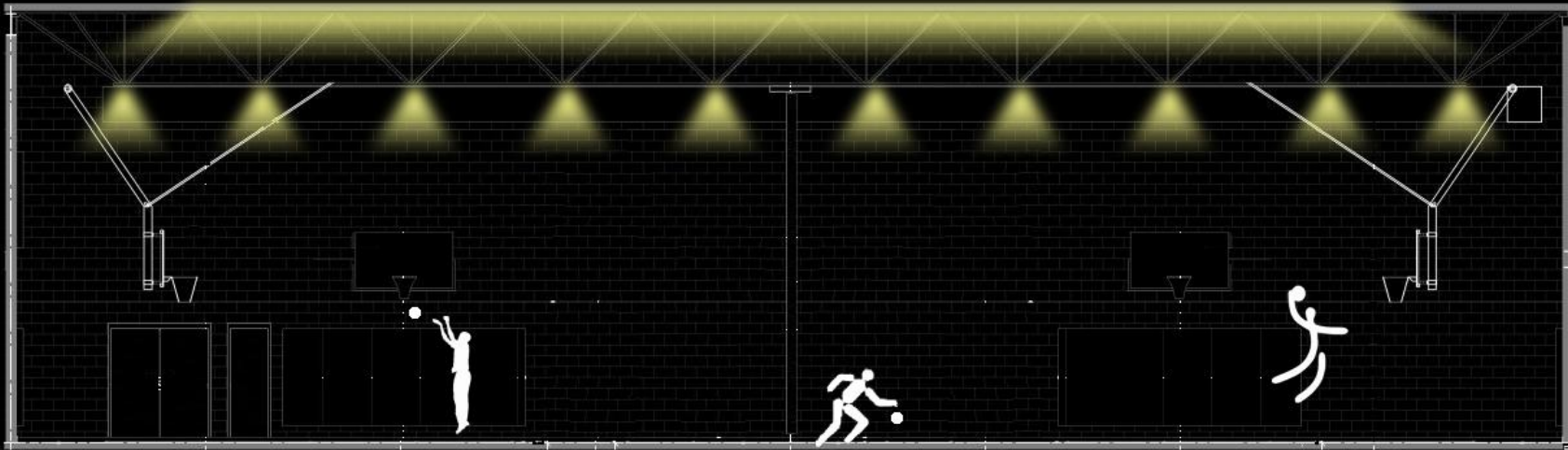


Auxiliary Gym Schematic Design

Daylighting with Skylights

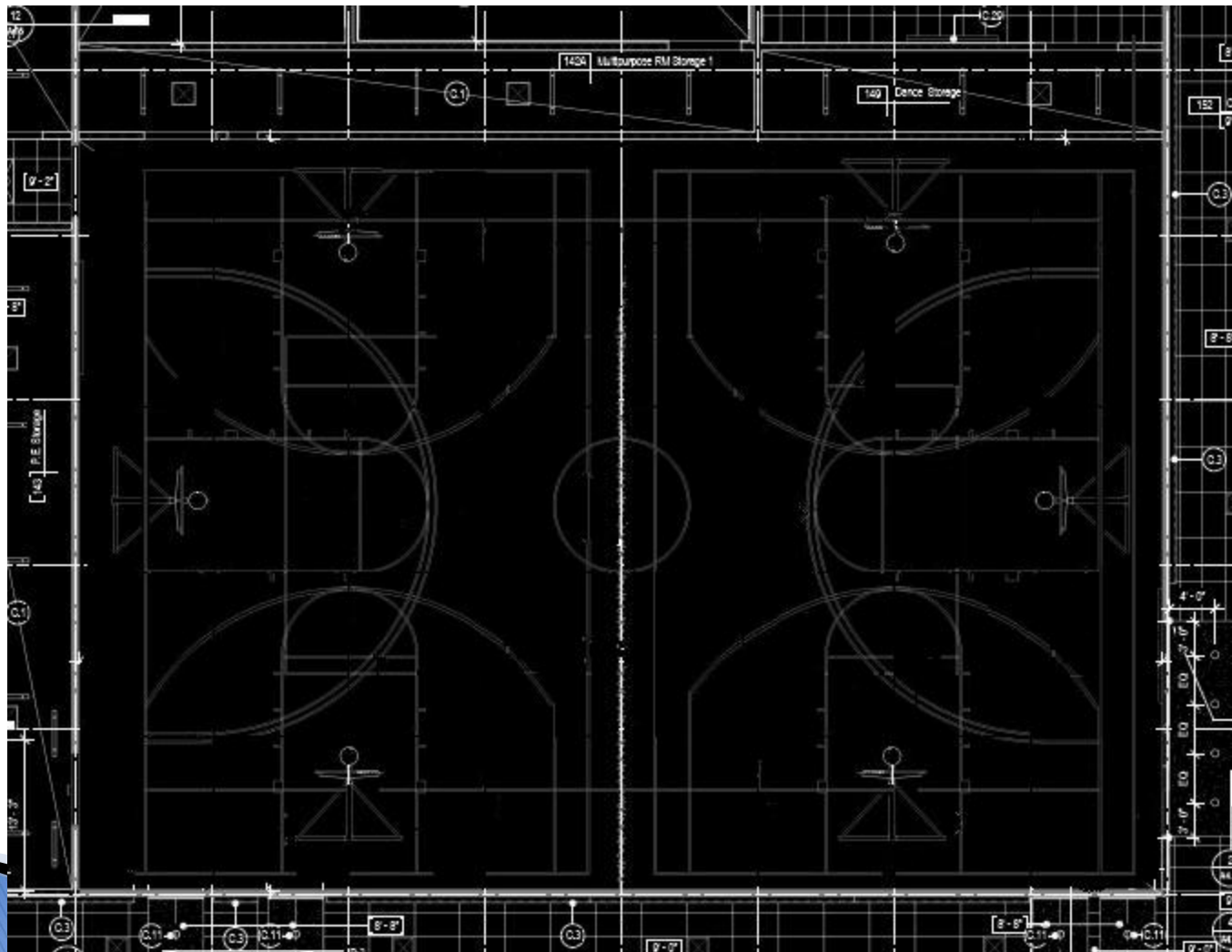


Auxiliary Gym Schematic Design
Integration between Electric Light and Daylight

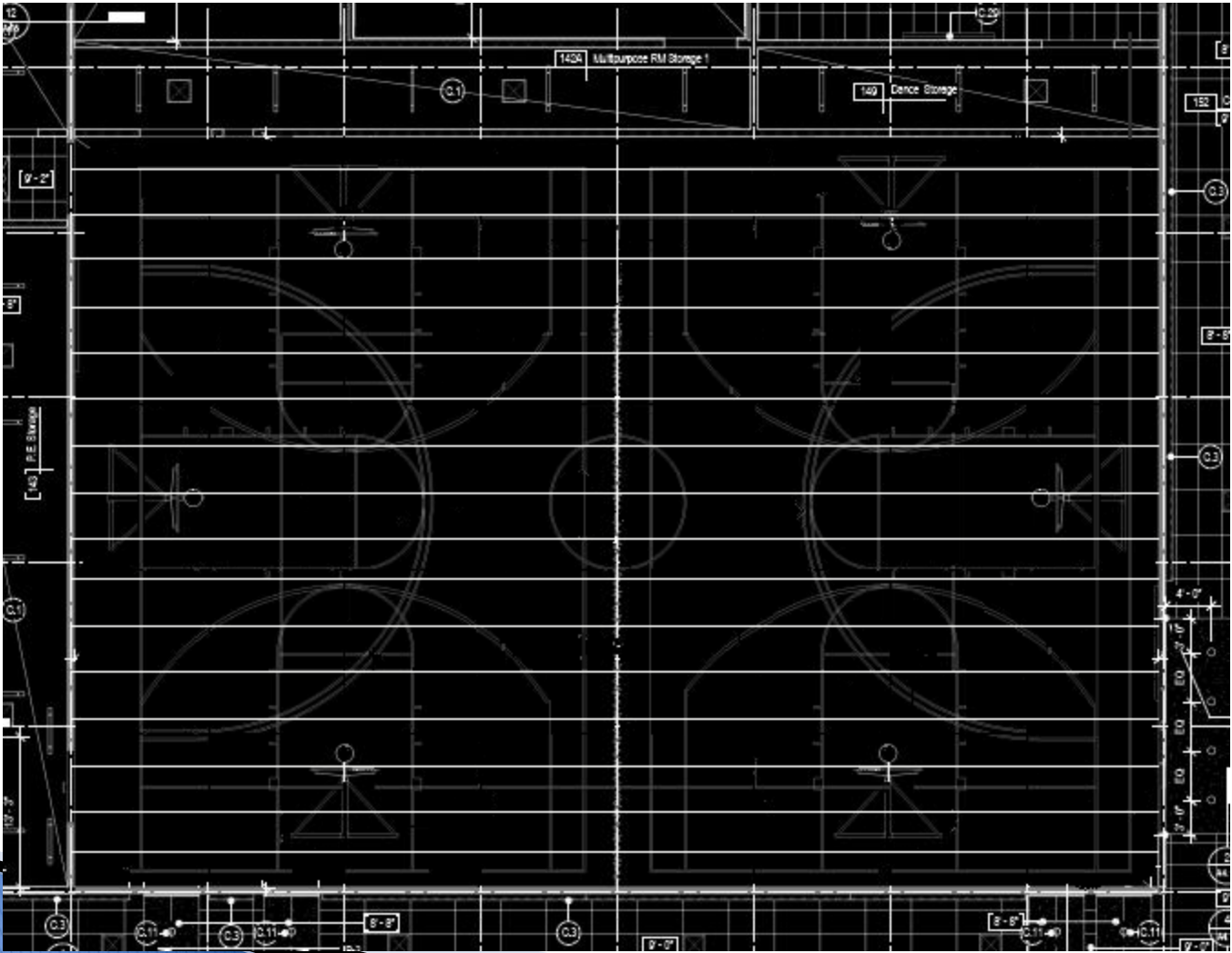


Auxiliary Gym Schematic Design
Equipment

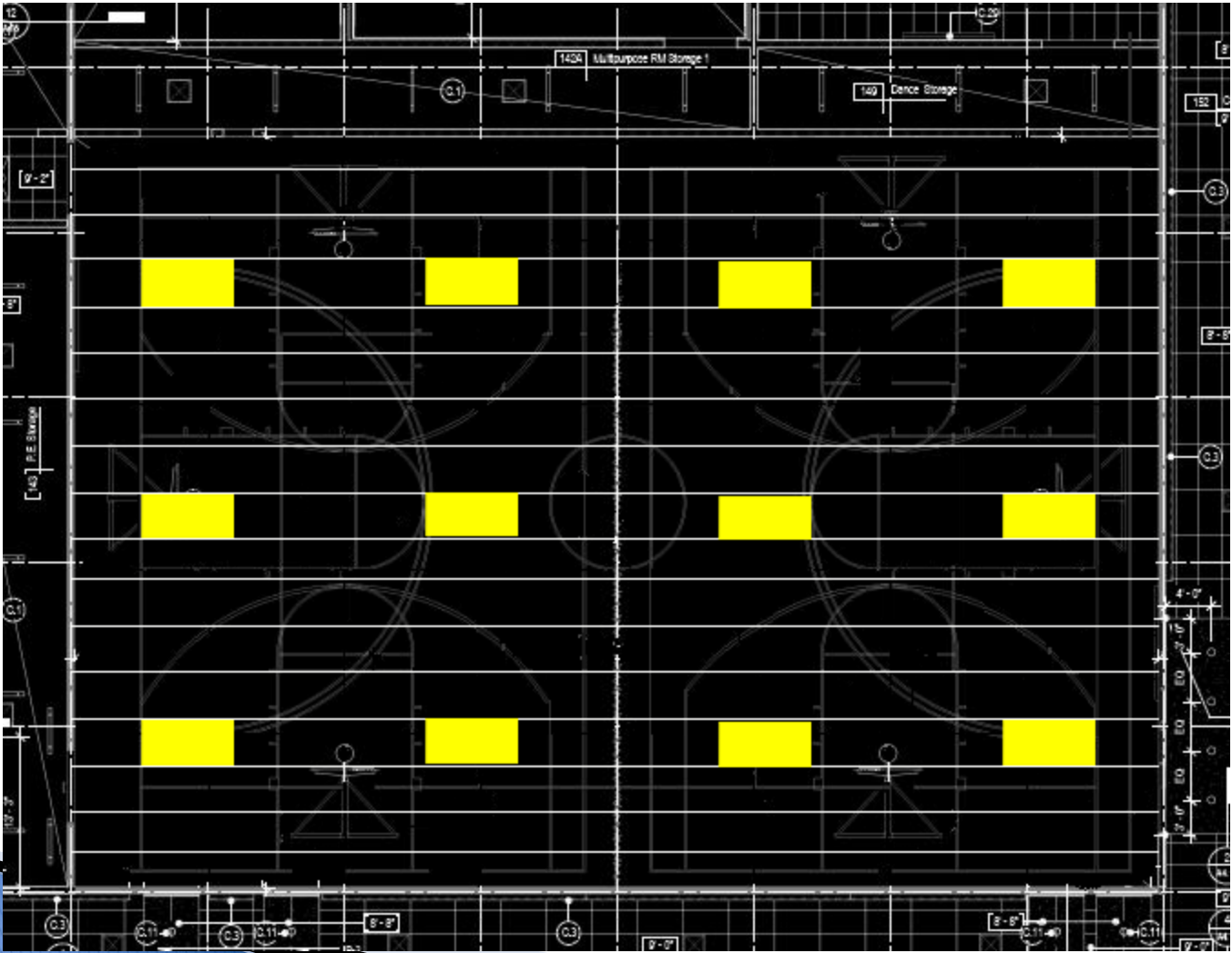
Auxiliary Gymnasium Skylight Design



Auxiliary Gymnasium Skylight Design

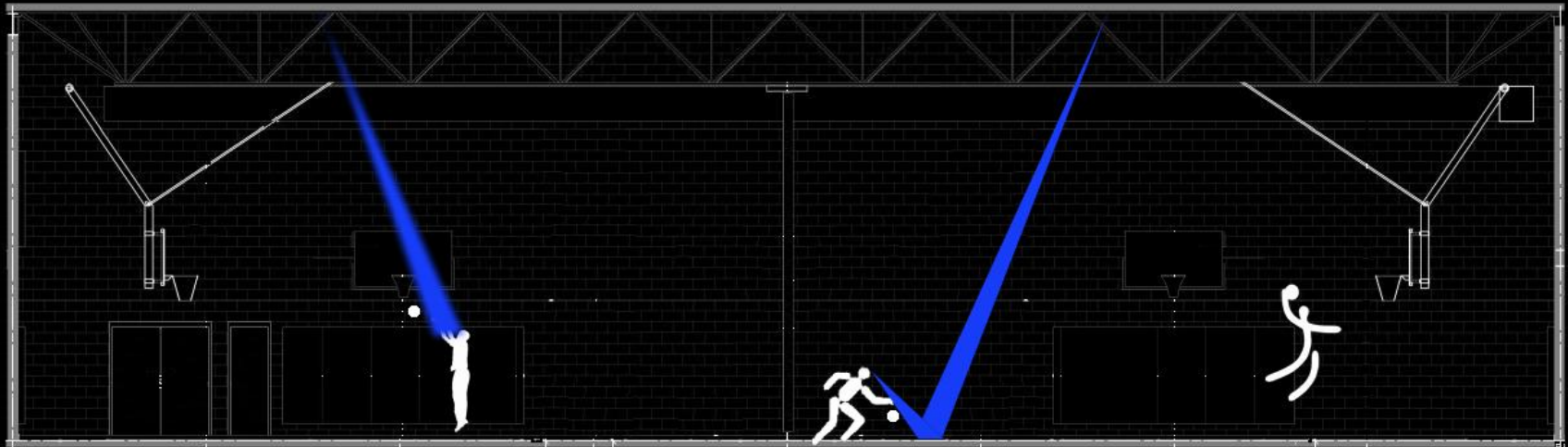


Auxiliary Gymnasium Skylight Design



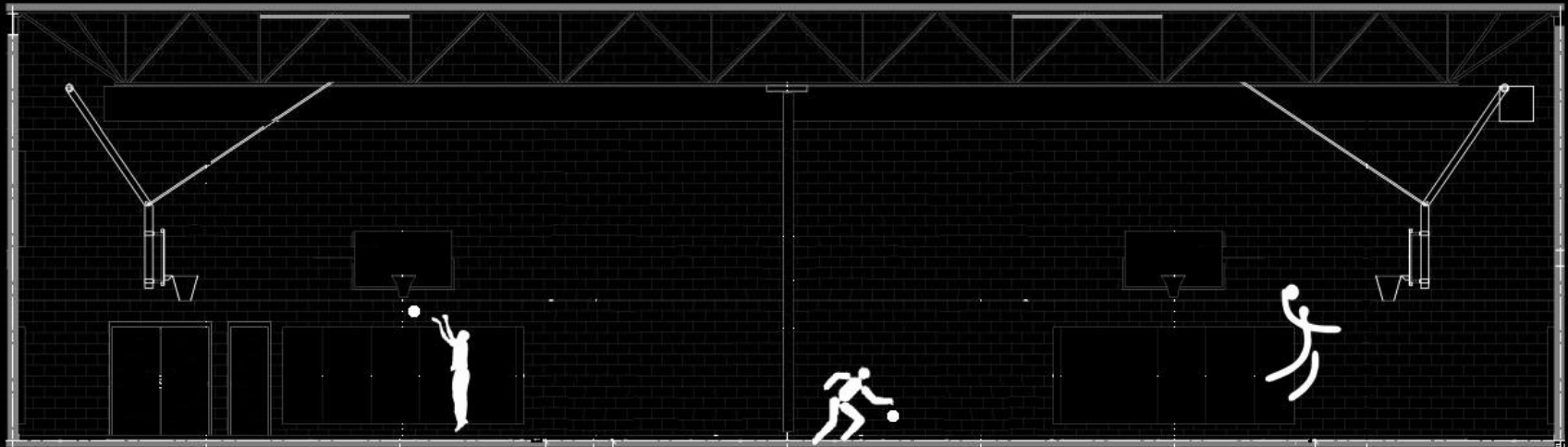
Auxiliary Gymnasium Lighting Design Issues

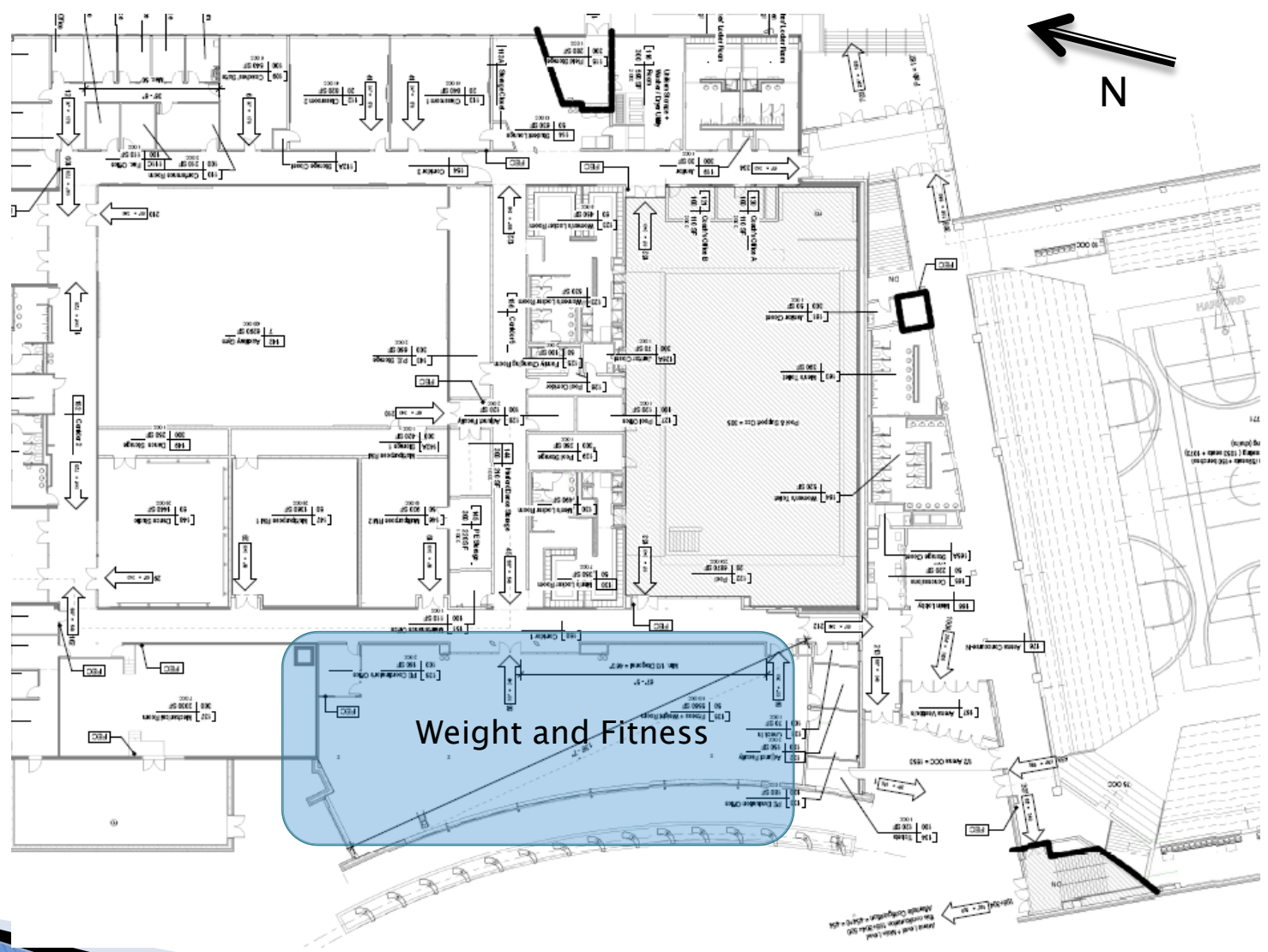
Direct and Reflected Glare from Skylights



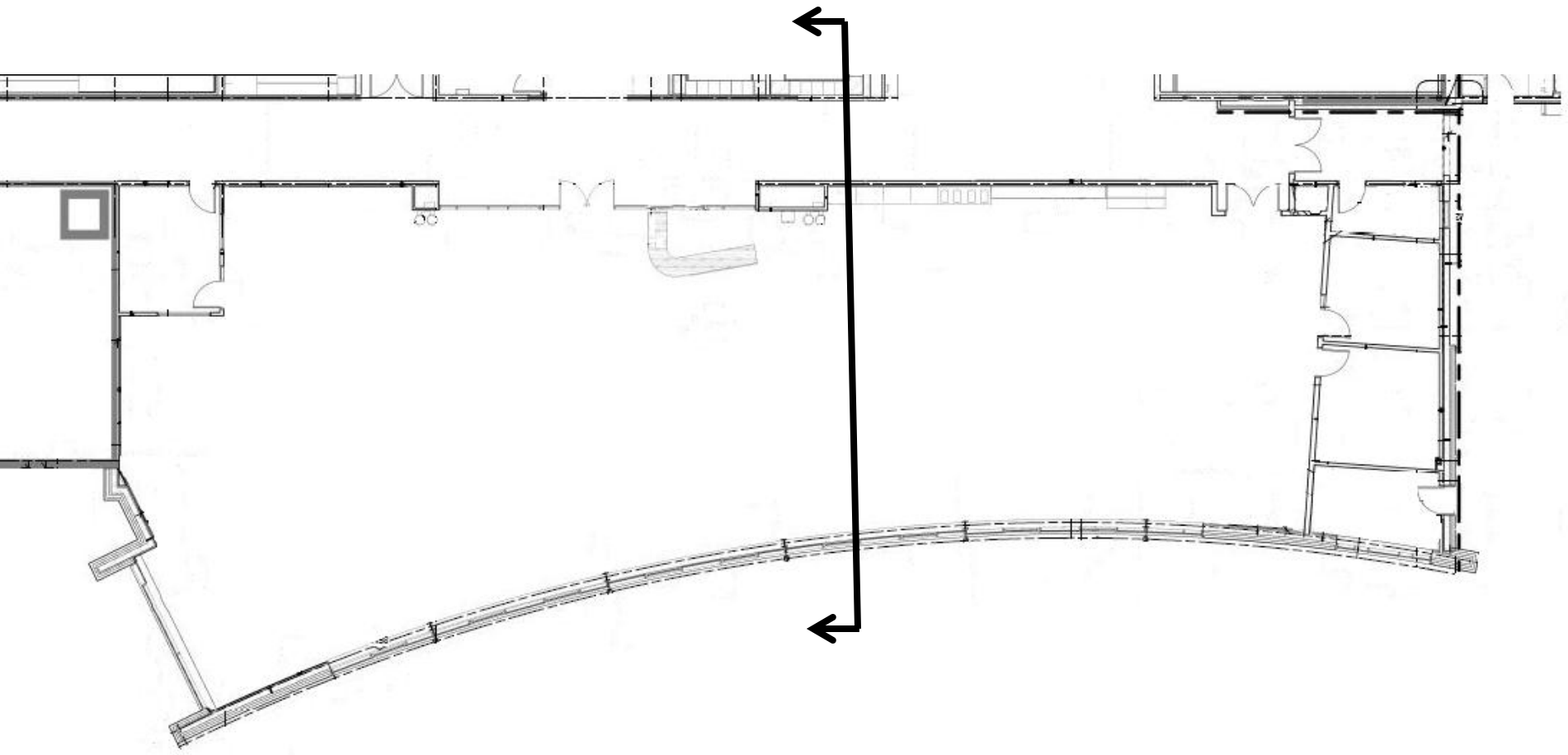
Auxiliary Gymnasium Lighting Design Issues

Direct and Reflected Glare from Skylights – Solution Electronic Shade Devices

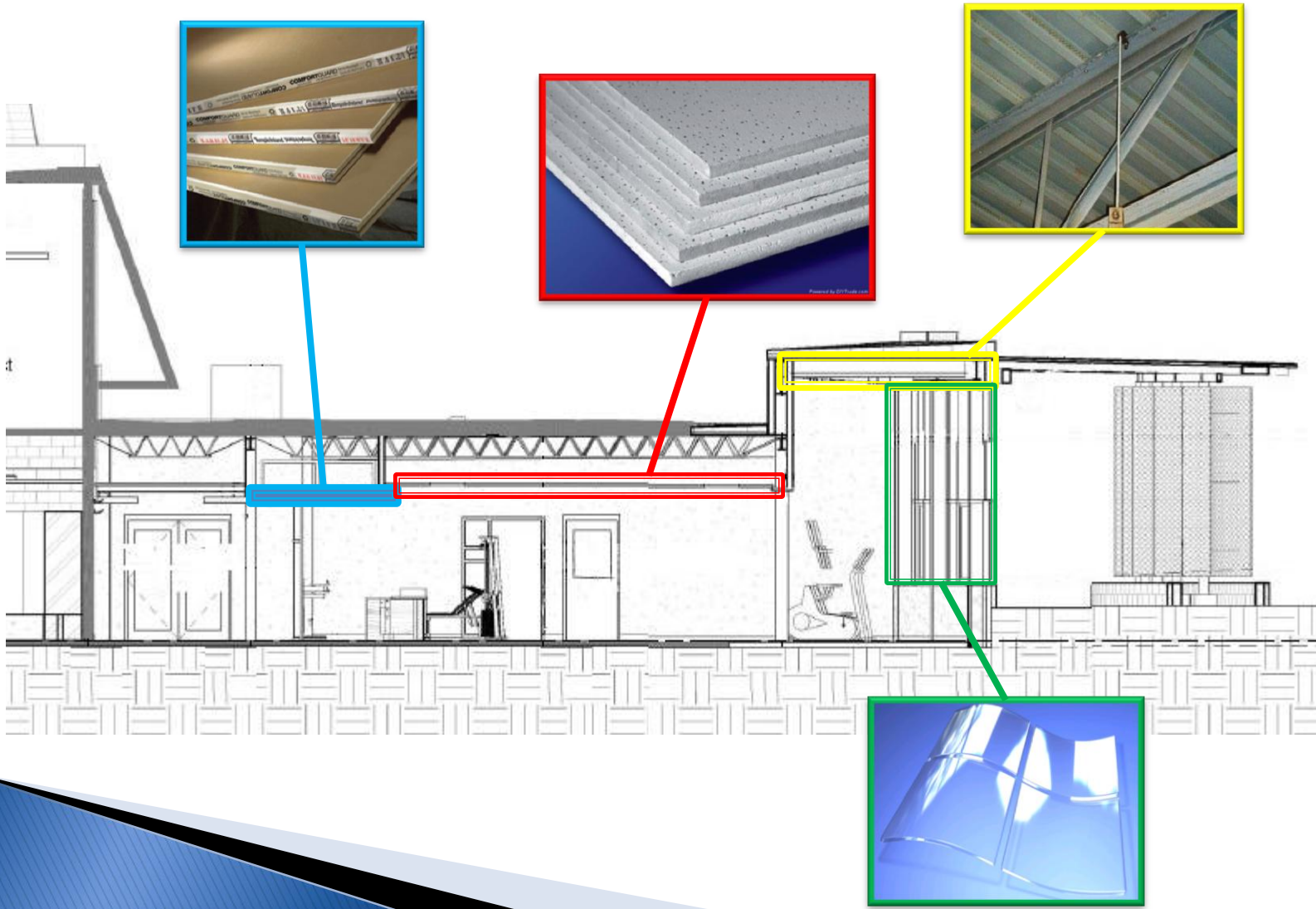




Weight & Fitness Floor Plan



Weight & Fitness Section and Materials



Weight & Fitness Lighting Design Concepts

Lighting For an Task

- Provide adequate Illuminance
- Supply sufficient Uniformity at Task Plane
- Bring Daylight into space
- Integrate between Electric Light and Daylight



Weight & Fitness Schematic Design



Weight & Fitness Schematic Design
Lower Ceiling Down Lighting



Weight & Fitness Schematic Design
Indirect Lighting in High Exposed Ceiling



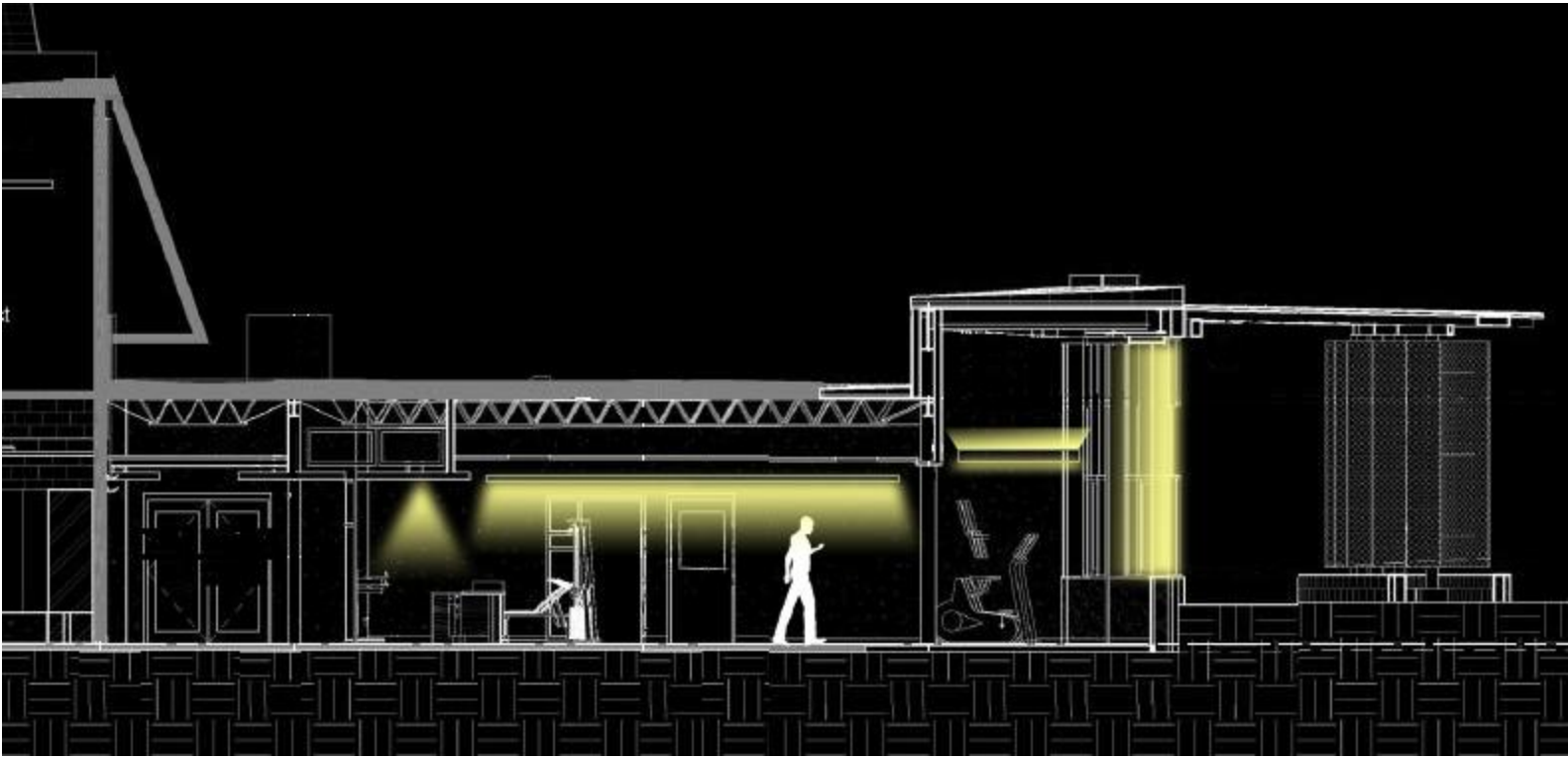
Weight & Fitness Schematic Design
Direct Daylight from North Facade



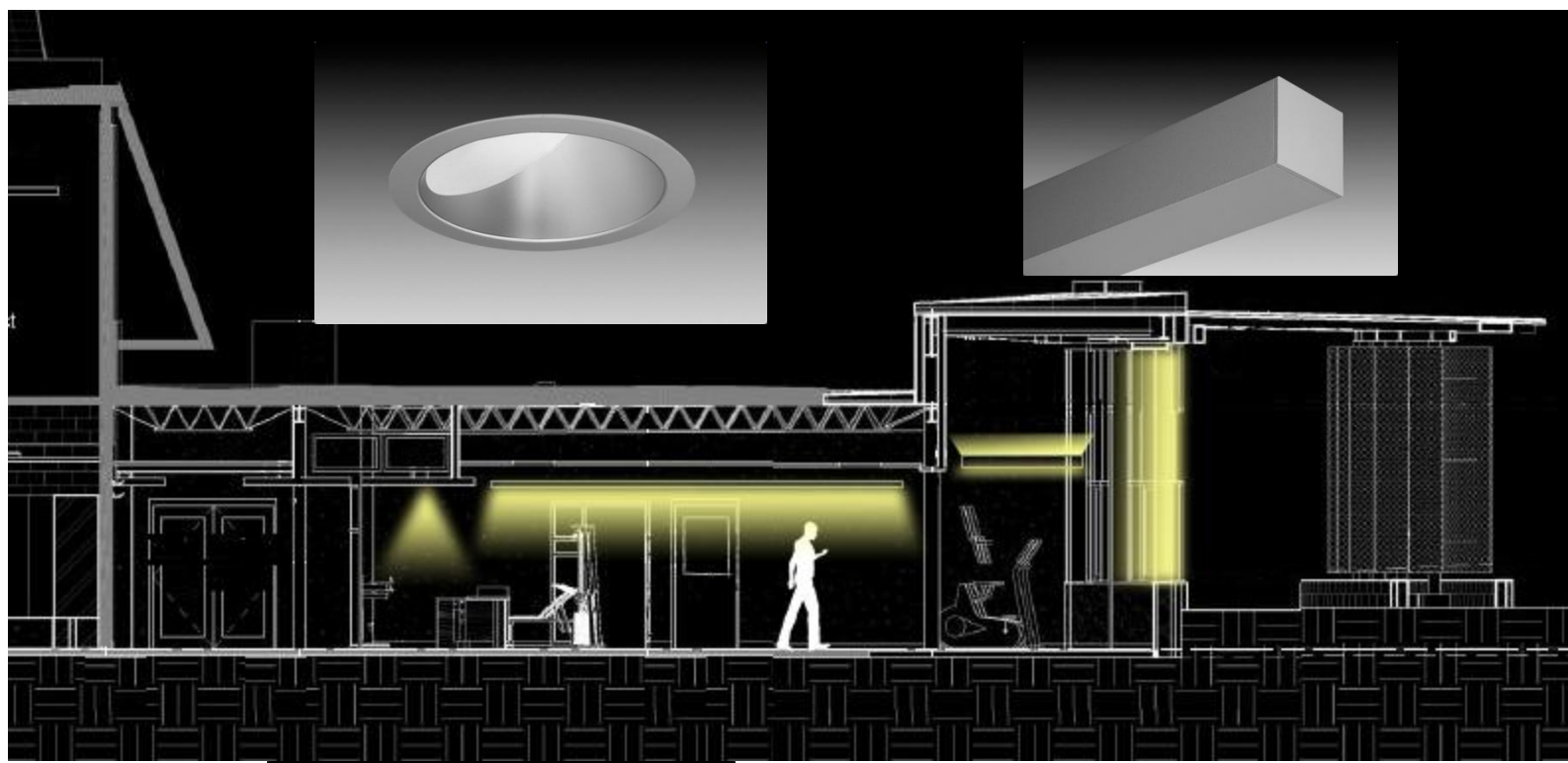
Weight & Fitness Schematic Design
Integration between Electric Light and Daylight



Weight & Fitness Schematic Design
Mid-Ceiling Down Lighting



Weight & Fitness Schematic Design
Mid-Ceiling Down Lighting

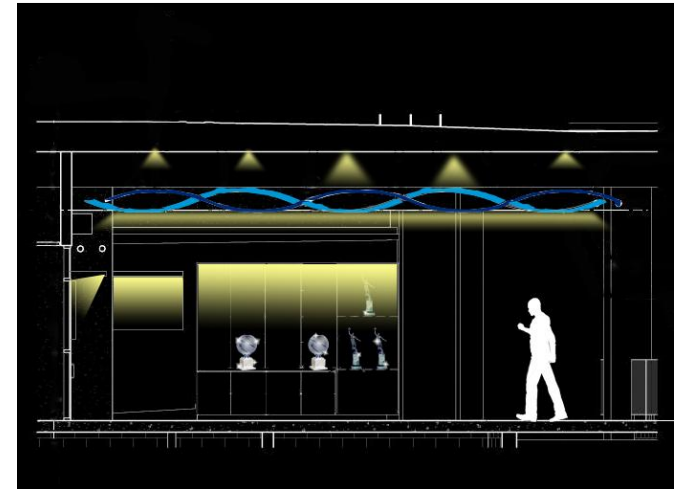
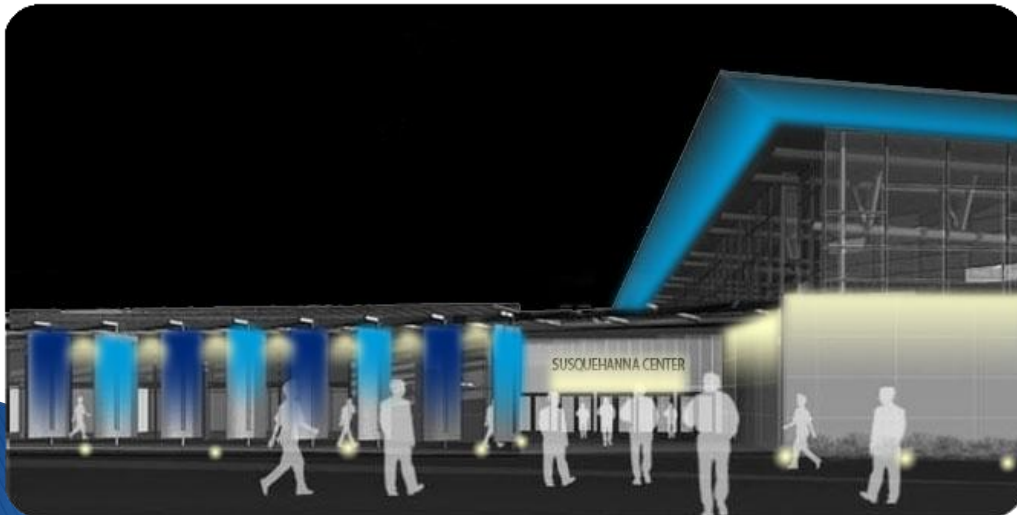


Weight & Fitness Schematic Design Equipment

Connecting the DOTS . . .

General Lighting Design Concepts

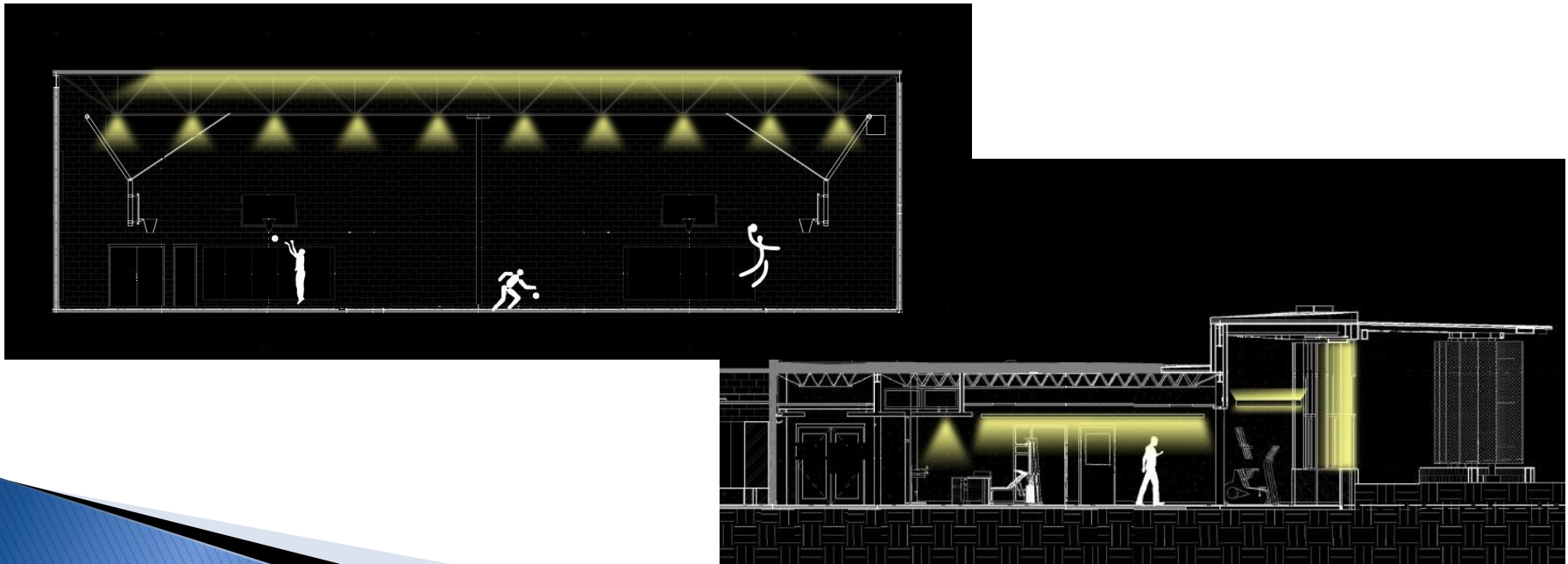
- Emphasize Game Type Atmosphere
(Excitement, Intrigue, Festive, Cheerful)
- Exhibit High Quality Facility



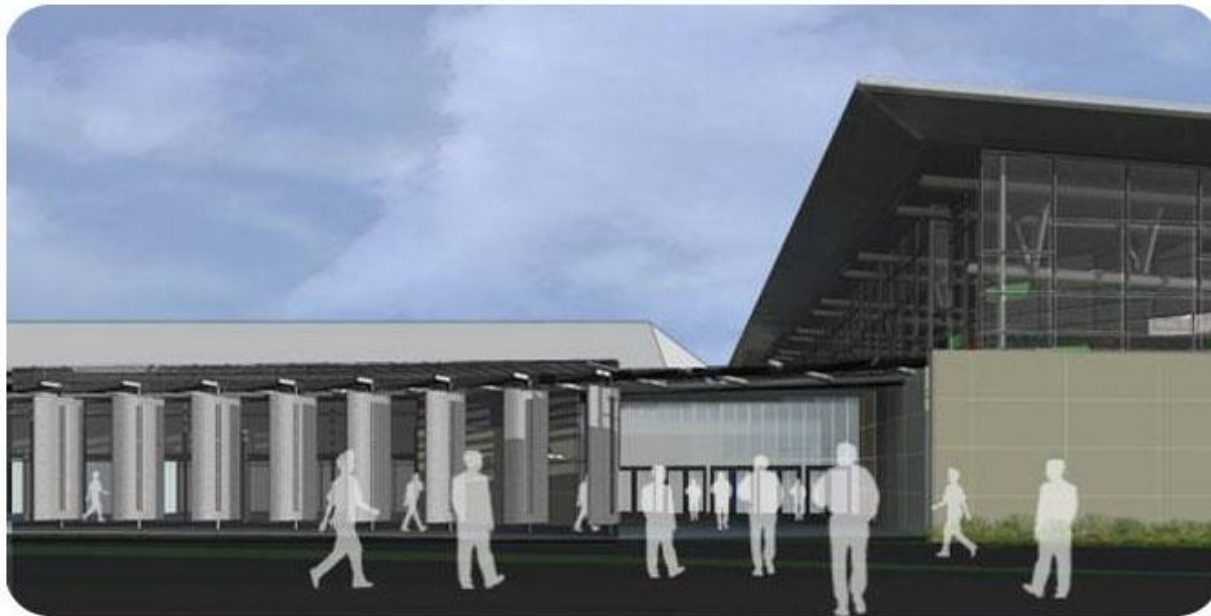
Connecting the DOTS . . .

General Lighting Design Concepts

- Provide Uniformity for Task Oriented Spaces



Questions?



Brad Gaugh
November 29, 2010