

November 30, 2011

**MUSEUM PARK PROJECT  
CITY OF MIAMI  
CONSTRUCTION UPDATE**

# Bicentennial Park

*becoming miami's premier park*

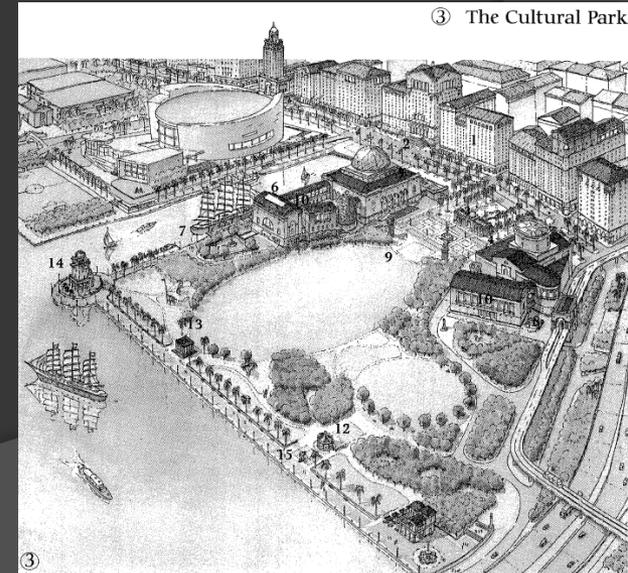
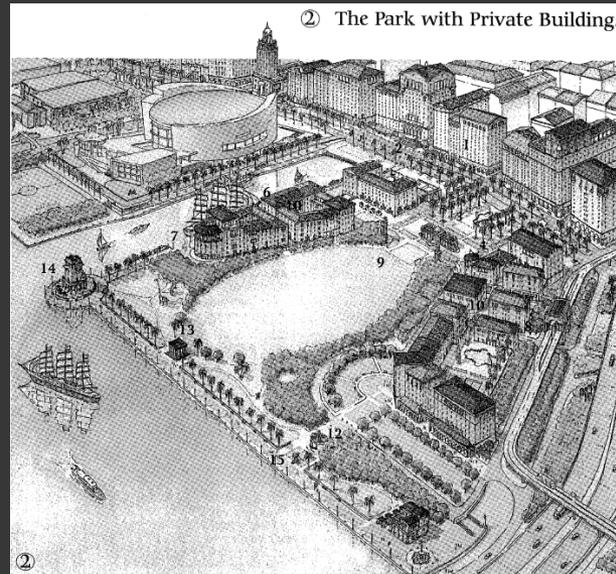
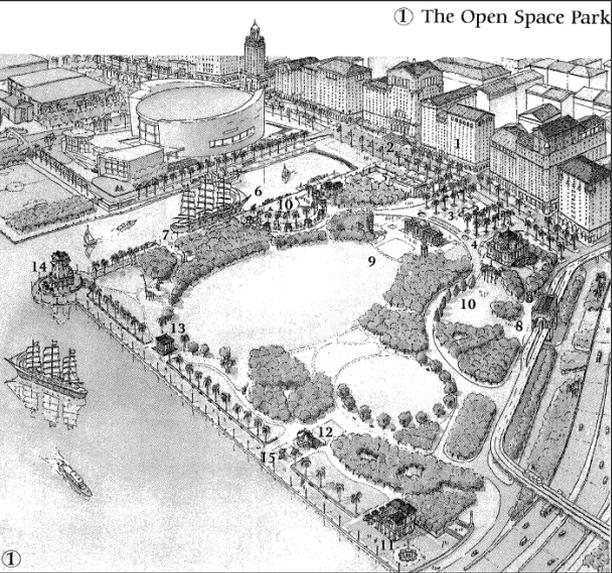


City of Miami  
Map 2001

Dover, Kohl, & Partners

2001

# Three Alternatives



### MUSEUMS AREA

The design represented for the museum buildings and open spaces is for master plan purposes only. It does not represent the actual design of the museums which will be undertaken in the near future. There will be sculpture and science exhibits within the Park. Their location and character will be considered in the future.



## Cooper Robertson Master Plan

2007

# Current Plan

## 3 Public Meetings

- Simplified design
- More open space
- More native plant material

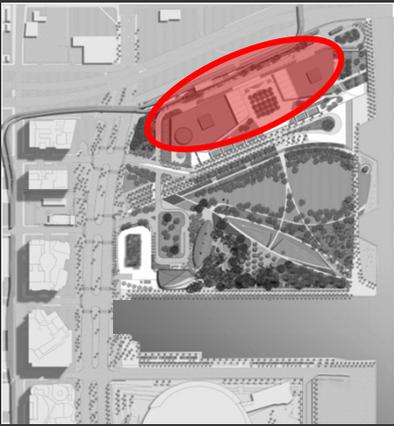


Approved Master Plan

2008

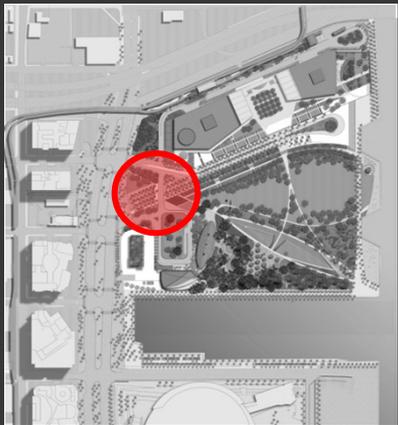
# Park

1. Museums Area
2. Entry Plaza
3. Village
4. Terrace
5. Clearing
6. Grove
7. Baywalk & Slip



## Museums Area





Entry Plaza

*Biscayne Blvd*

*11<sup>th</sup> Street Entry*

*10<sup>th</sup> Street Entry*



Entry fountain at night



Fountain Place, Dallas, Dan Kiley

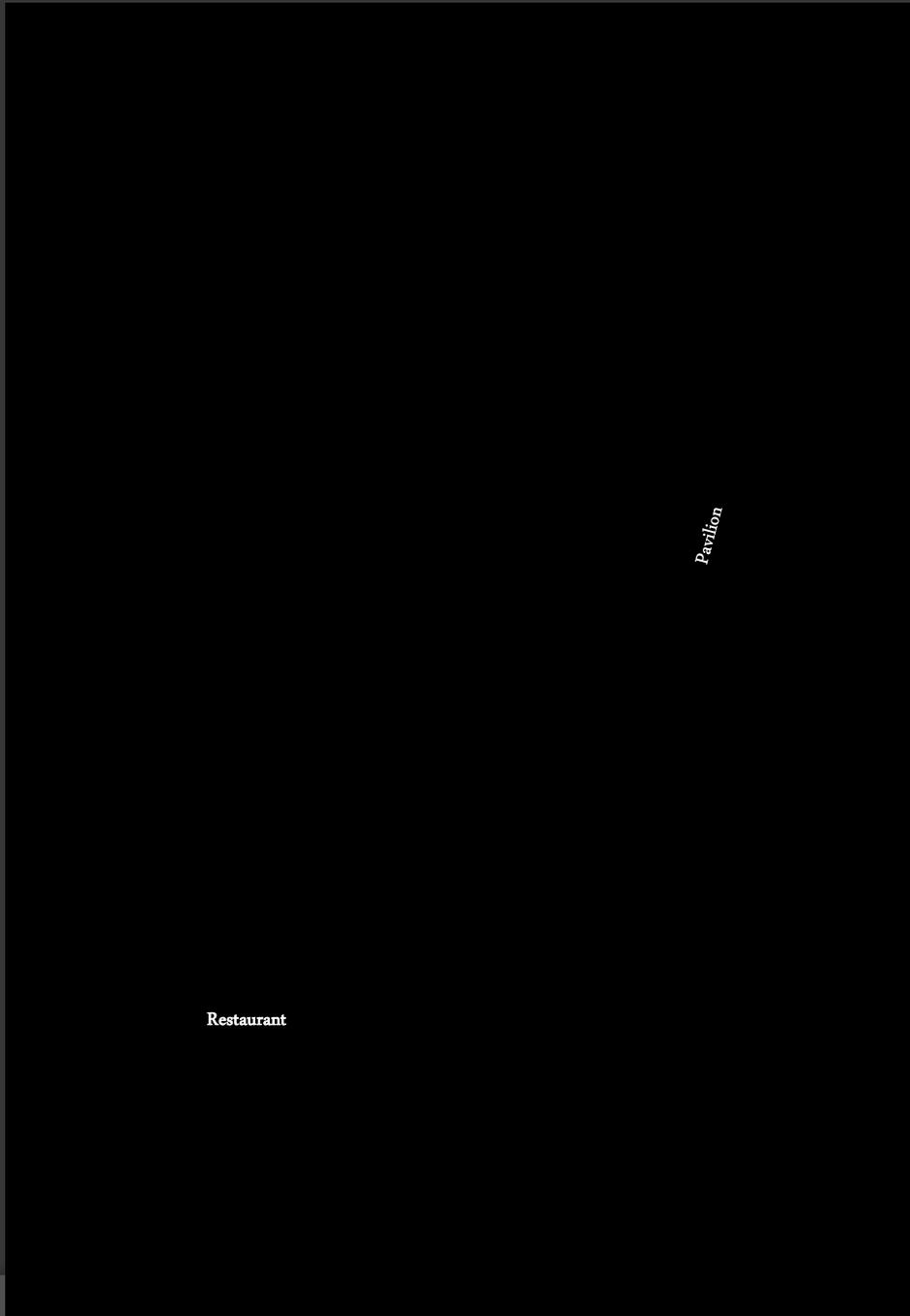


View from Biscayne Boulevard toward Royal Palms and fountain

## Entry Plaza



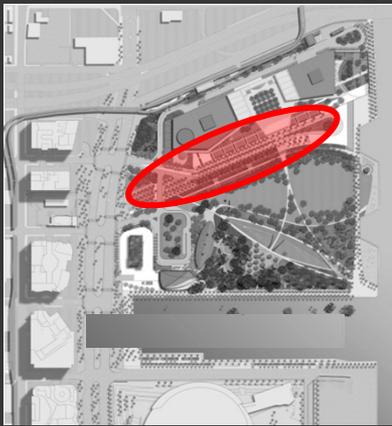
Village



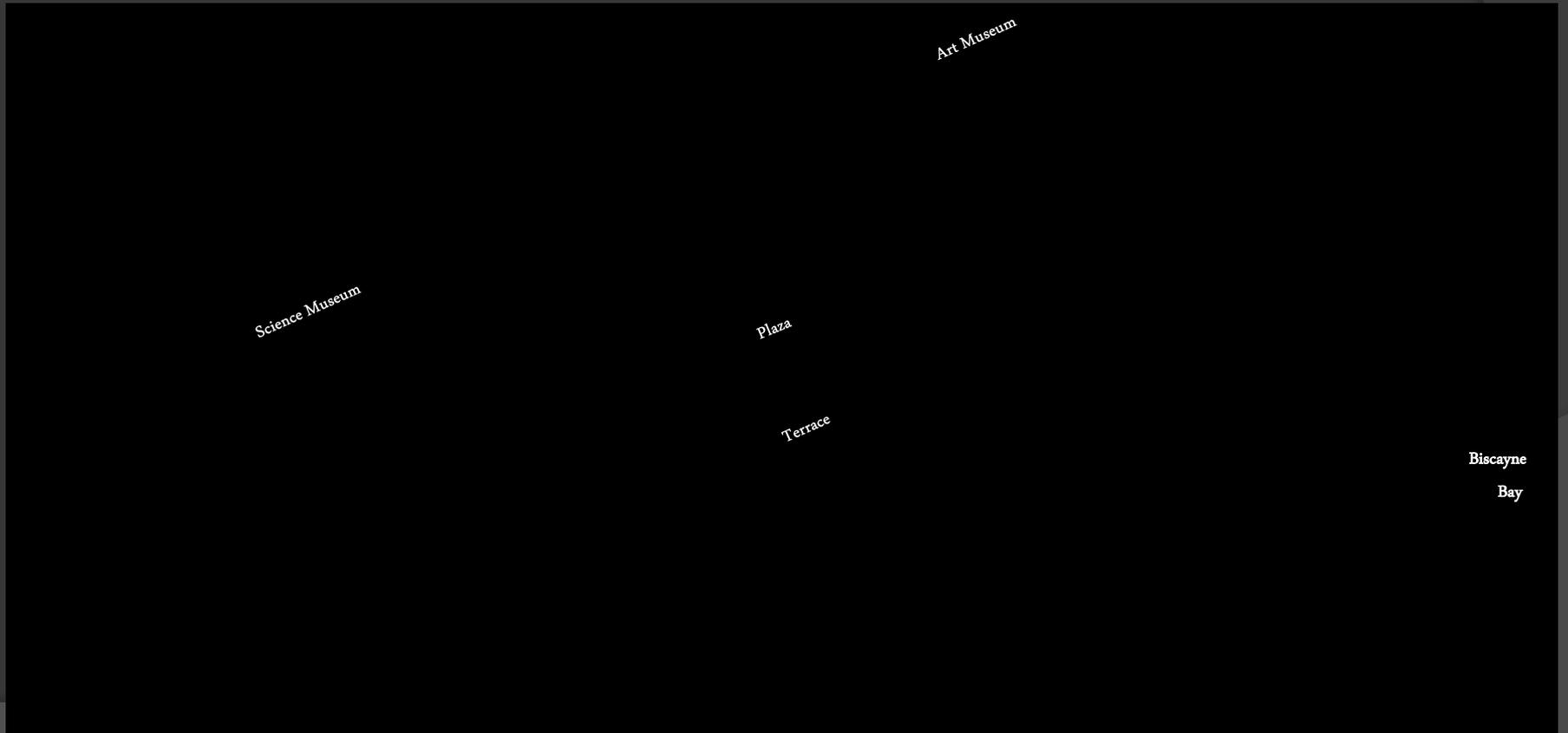
Pavilion

Restaurant

FEC Slip



Terrace





Royal Palms



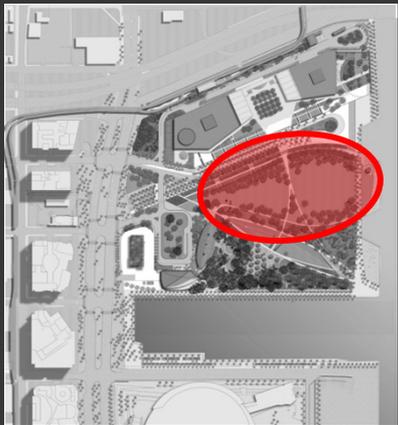
Garden rooms on south side of Terrace

## Terrace Precedents



View toward the Bay, Royal Palms on Terrace

# Terrace



Clearing

Terrace

Biscayne  
Bay

Grove



View toward the Bay



Grove



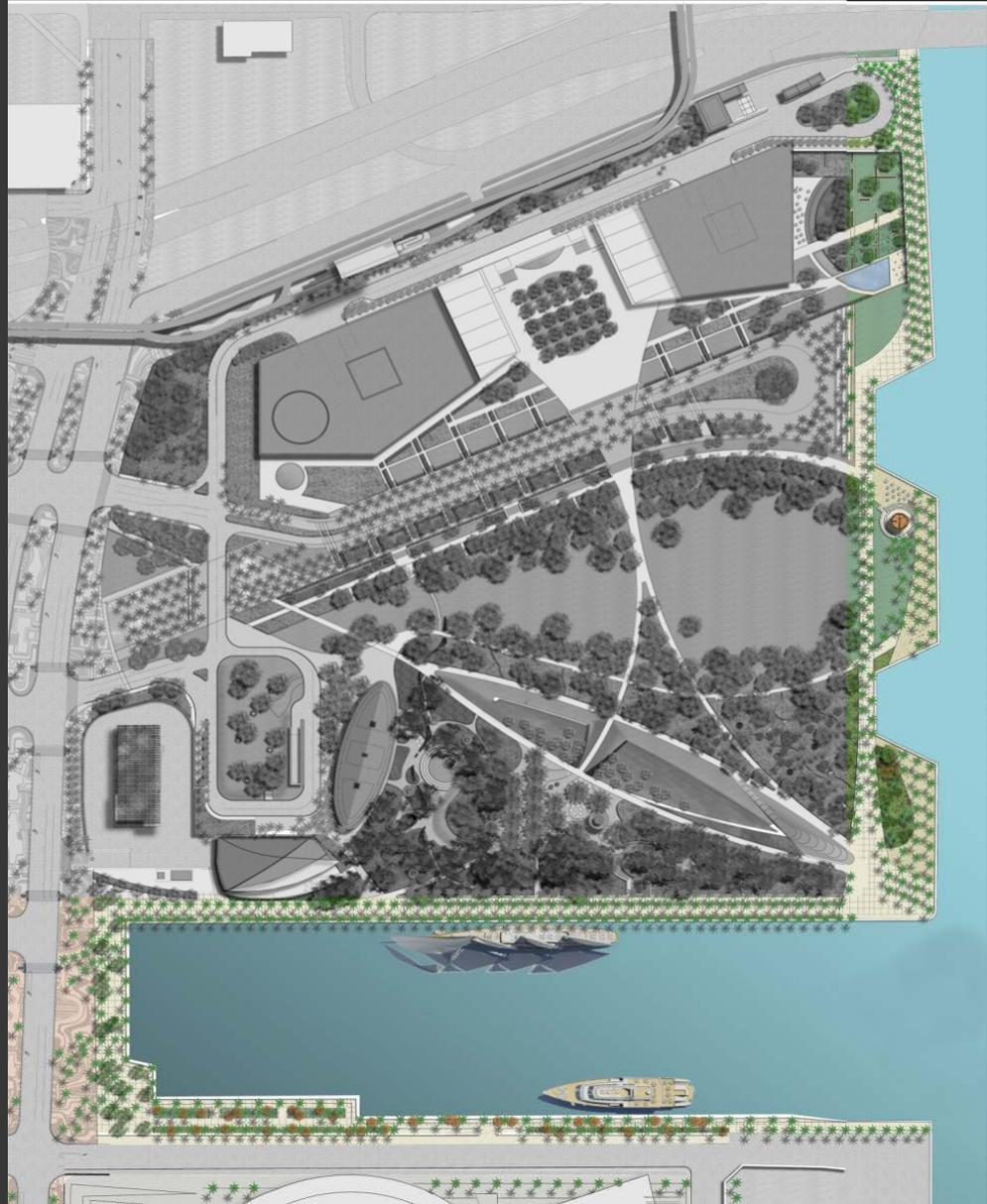


View toward the Mound, Veitchia Palms in foreground

## Grove – Palm Garden



View toward the Pavilion



Baywalk



View toward the Slip: Coconut Palms, Arena, USCG Eagle



\$55-60 million  
(Including garage)

# Phased Approach

# Museum Park

- Terrace
- Bay Walk
- Mooring Bollards
- Open Space Park



\$8 - 9 million

(No garage)



New Sea Wall



New Mooring Facilities

# M!AM!

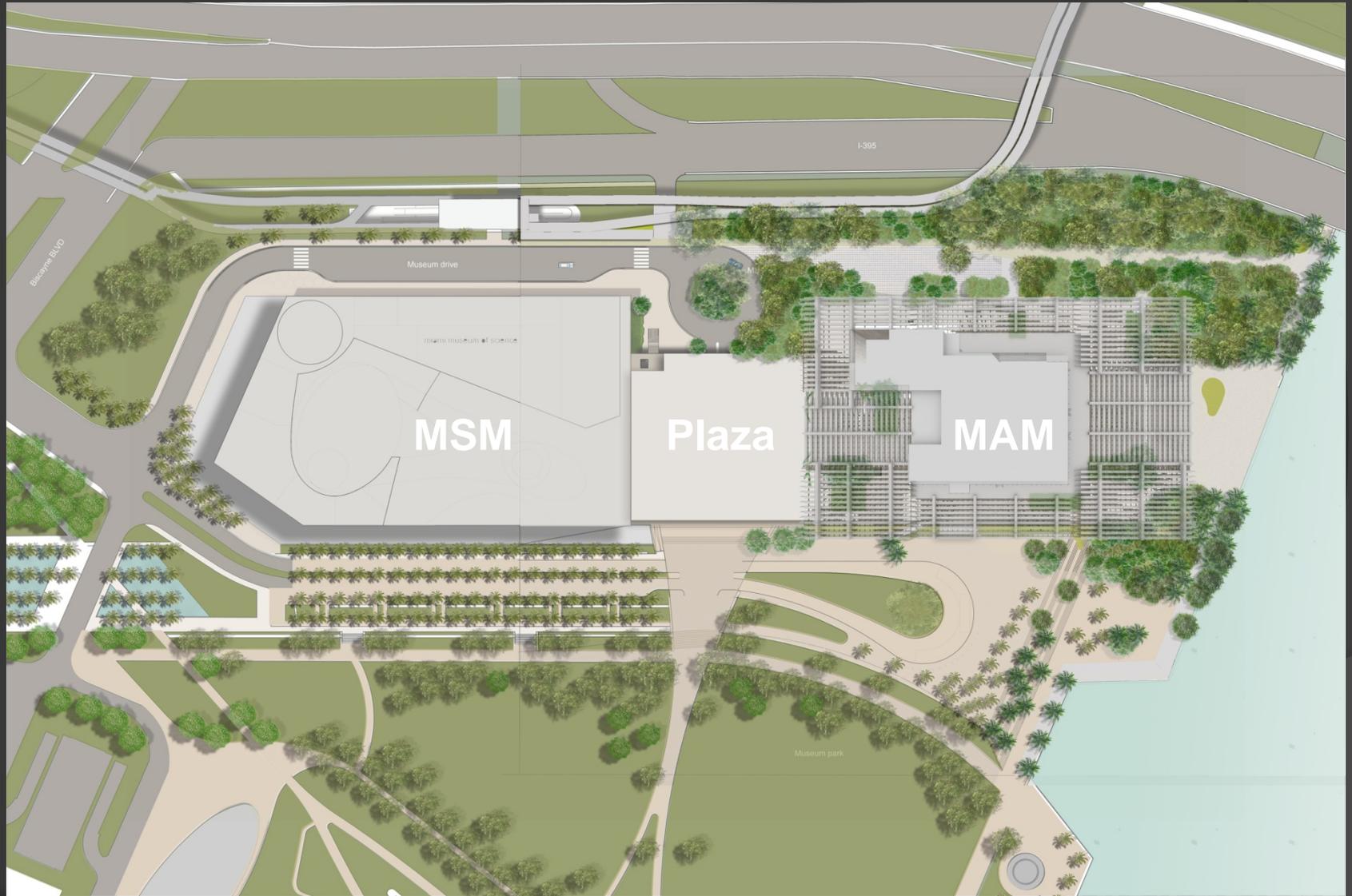
The New  
Miami Art Museum  
in Museum Park



Designed by Herzog & de Meuron

Scheduled to Open in 2013

# Museum Park Master Plan





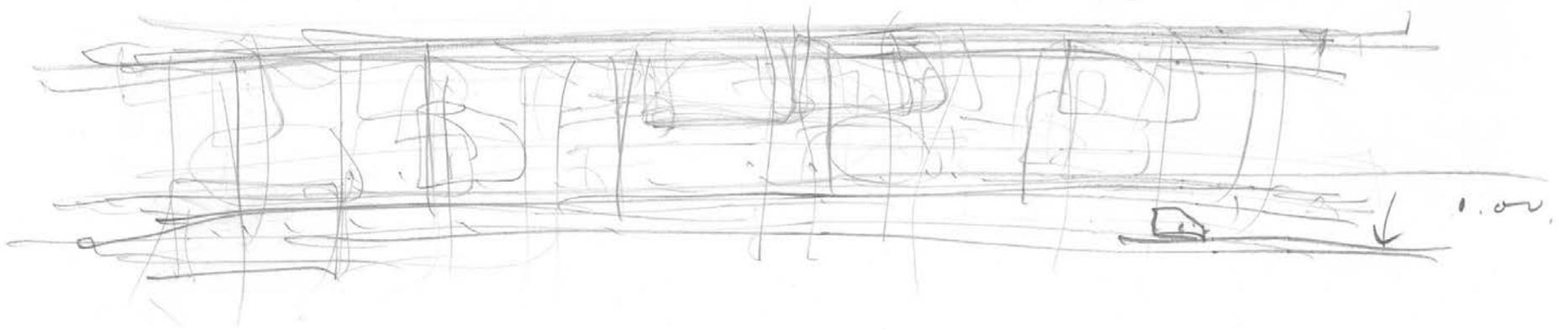
Olympic Stadium Games, Beijing, China, 2007



Tate Modern, London, UK, 2000







Rough sketch of the new building



Building - Bay View



New MAM Construction Site in Museum Park, October 2011



Building Mock-up



The Park



East Portico and Sculpture Garden



Landon / Garrison Terrace



Group Lobby



Teaching Gallery and Auditorium



Auditorium



Level 2 – Overview Gallery



Level 2 – Focus Gallery



Level 3 – Library



Level 3 – Studio Classroom





Photo by Daniel Azoulay



***GIVE TODAY...***

***CHANGE TOMORROW!***

# ESSENCE OF THE MIASci PROGRAM

---

## **WHAT** do we do?

We inspire people of all ages and cultures to enjoy science and technology, in order to better understand ourselves and our world.

## **HOW** do we do it?

Connect people with science, technology and the environment in exciting and engaging ways

## **WHY** do we do it?

To transform lives

To open doors to better opportunities

To shape a sustainable future

**IN SHORT: TO CHANGE TOMORROW**

# OVERALL APPROACH

---

- ⦿ Deliver a world-class experience
- ⦿ Build on the current Museum's track record of excellence
- ⦿ Enhance our offering through partnerships with leading institutions, organizations, companies
- ⦿ Create the most distinctive design of any building in Miami, from every direction
- ⦿ Offer a rare combination of aquarium, planetarium, wildlife, and interactive science exhibits
- ⦿ First-in-the-world design for the Gulf Stream tank
- ⦿ The building itself an energy exhibit, harnessing water, sun, wind and kids' energy to promote sustainability
- ⦿ Open design facing the Bay incorporates Miami's climate and the site's exceptional views

# A WIDE RANGE OF LEARNING OPPORTUNITIES

---

- Iconic objects
- Immersive experiences
- Hands-on science
- Personalized visits
- Live performances
- In-depth learning (classes, workshops, internships)
- Participatory experiences (feedback, taking part in research projects, creating content)
- Wide range of events and programs

# PROJECT PROGRESS

---

- Site secured and remediation complete, access and services about to begin
- MUSP (Major Use Special Permit) approved by City Commission on September 23, 2010
- County FY 2012 budget has \$30m to start construction
- Major naming gift from Patricia and Phillip Frost
- Completing detailed design for building
- Shared plaza design underway
- Schematic design for Living Core exhibition completed
- For themes of Health, Energy, Moving Things, Climate, exhibit prototypes developed
- Ground breaking planned for February 2011

# MUSEUM PARK WITH SISTER MUSEUMS



**SOUTH BEACH**

**KEY BISCAYNE**

**PORT OF  
MIAMI:  
CRUISE SHIPS**

# MUSEUM PARK



Miami Science Museum

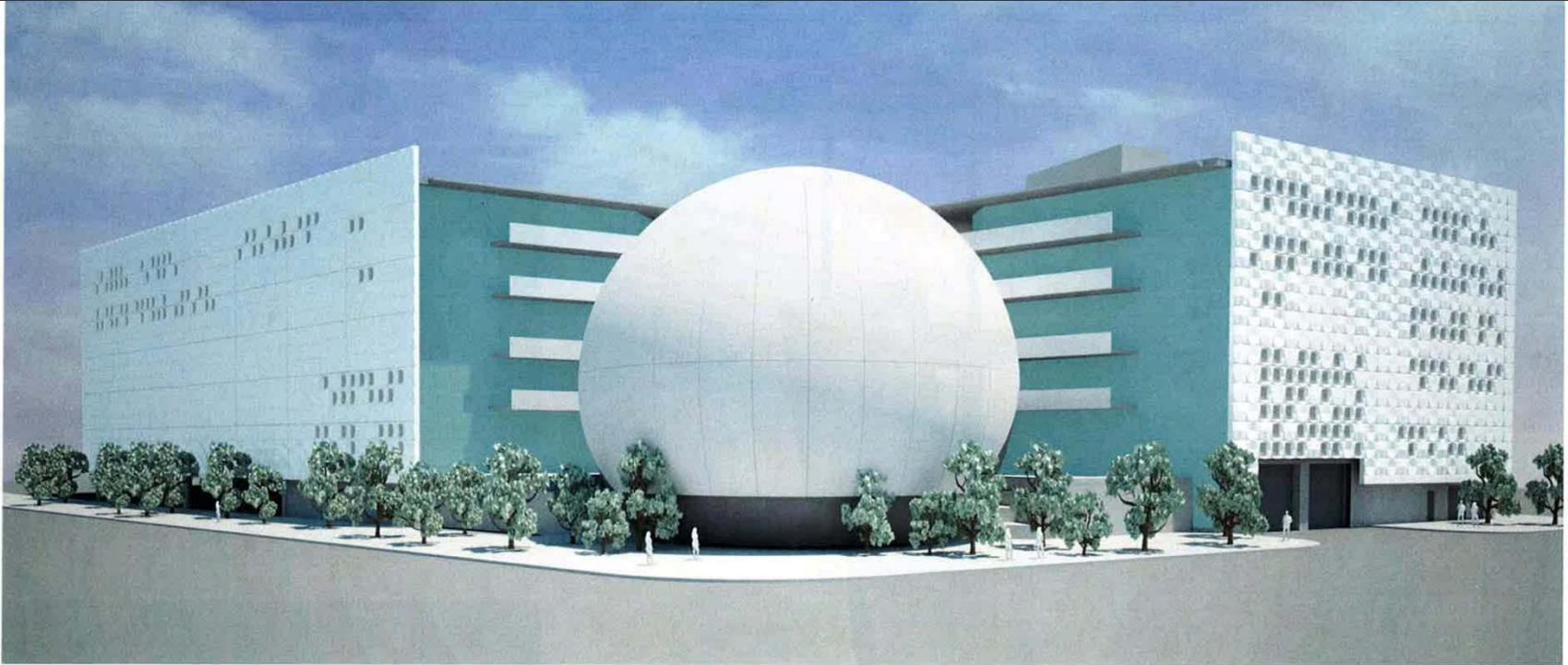
Miami Art Museum

# PARK VIEW FROM BISCAYNE BOULEVARD

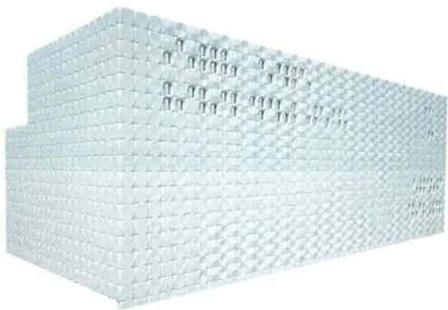


# View From I-395 and Biscayne Boulevard PLANETARIUM DOMINATES THE CROSSROADS





View of North Facade



Material Rendering of North Wing to Show Pattern Texture

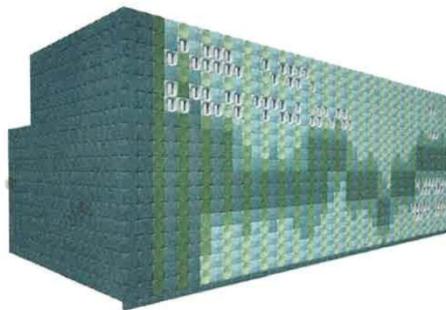
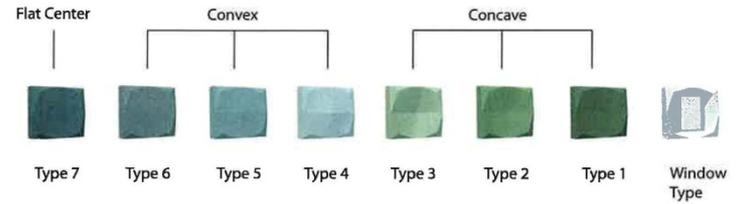


Diagram of North Wing to Show Pixel Types



# THE BUILDING IS BIGGEST EXHIBIT

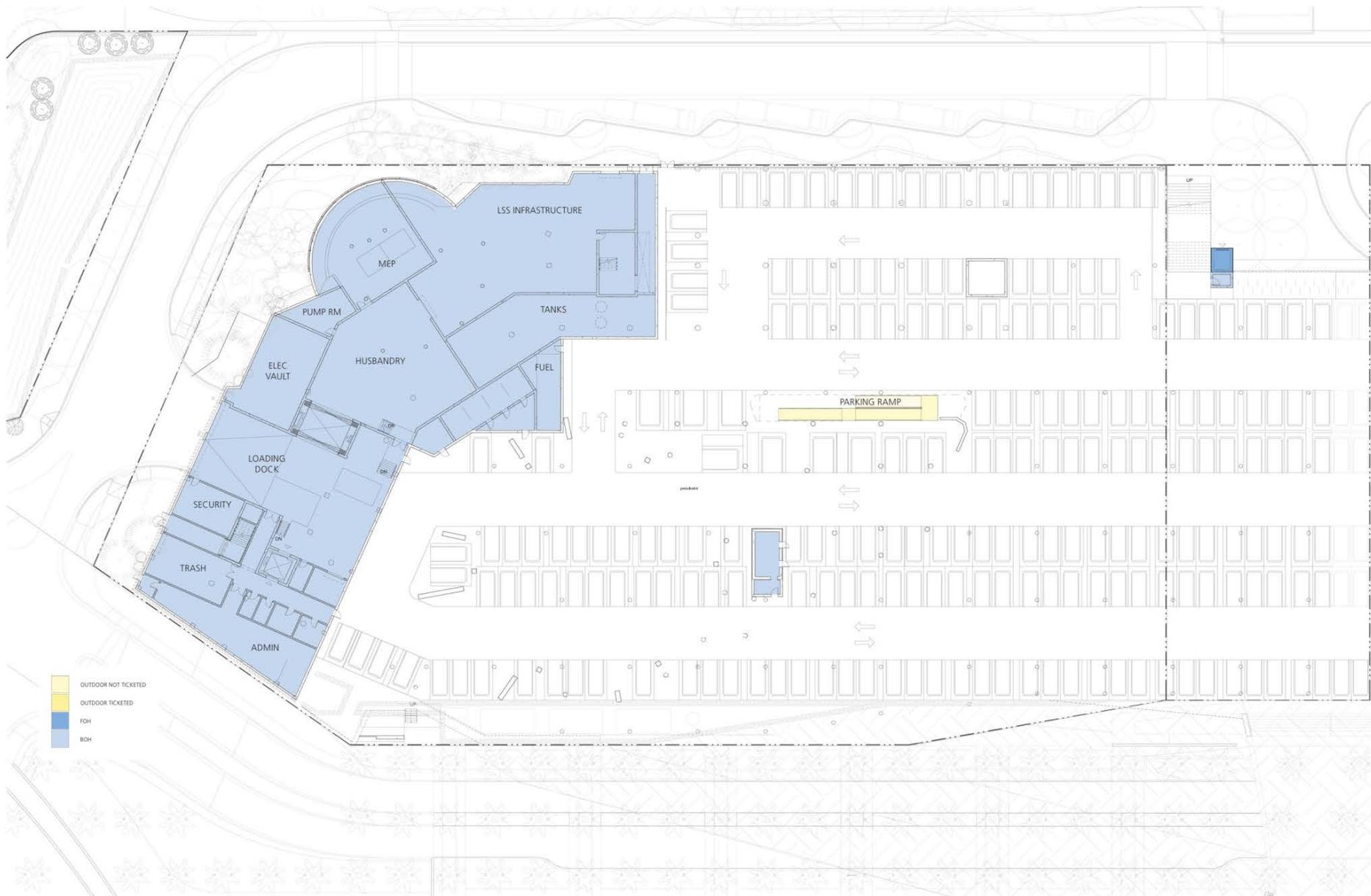
---

- Built on brownfield site, public transportation
- Bike parking, preferred parking for car pools
- Oriented to maximize natural ventilation
- Outside sheltered exhibition spaces
- Recycled materials
- Rainwater collection, retention and reuse
- Green roof
- Photovoltaic cells
- Demonstration wind generator
- Partial grey water reuse
- Monitoring of building use
- Visitors input their energy

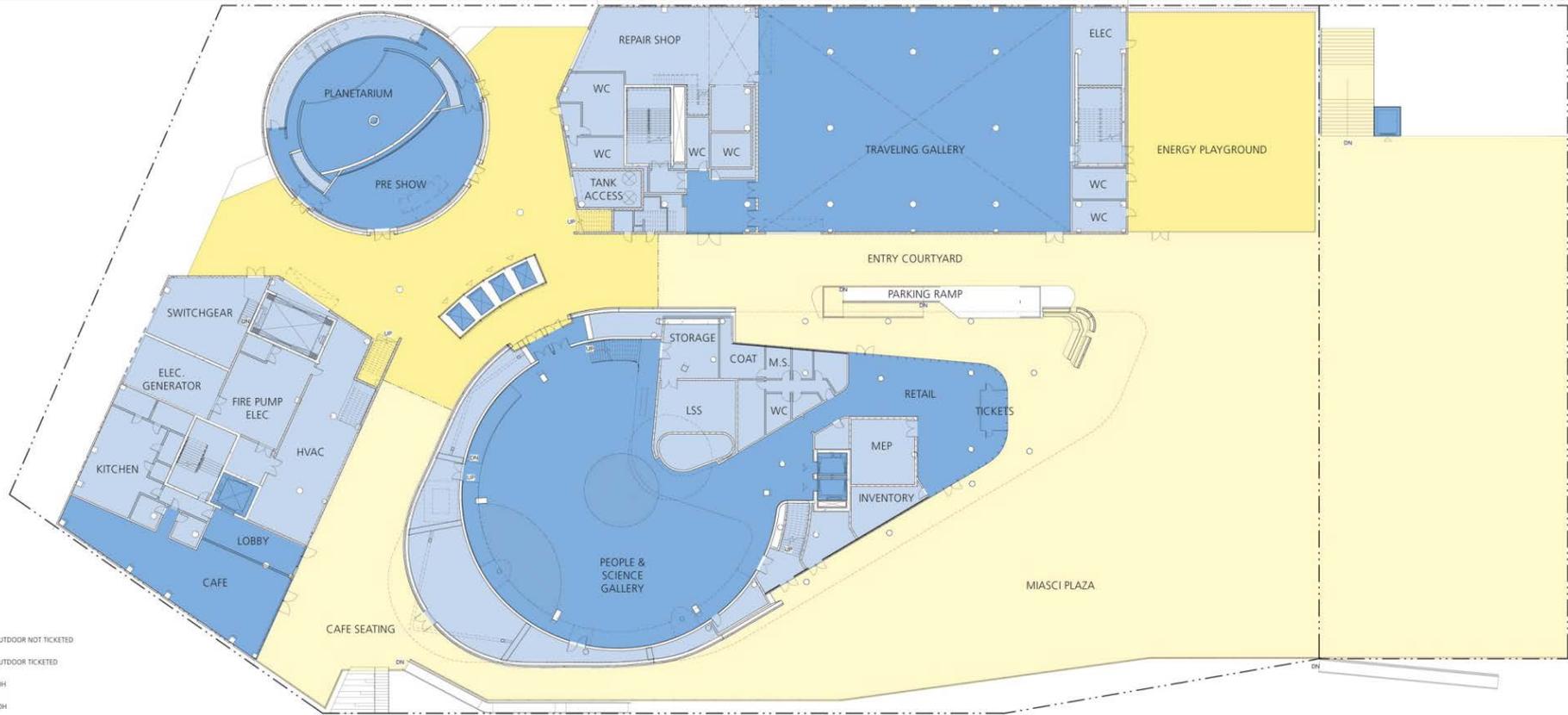
# BUILDING FOOTPRINT



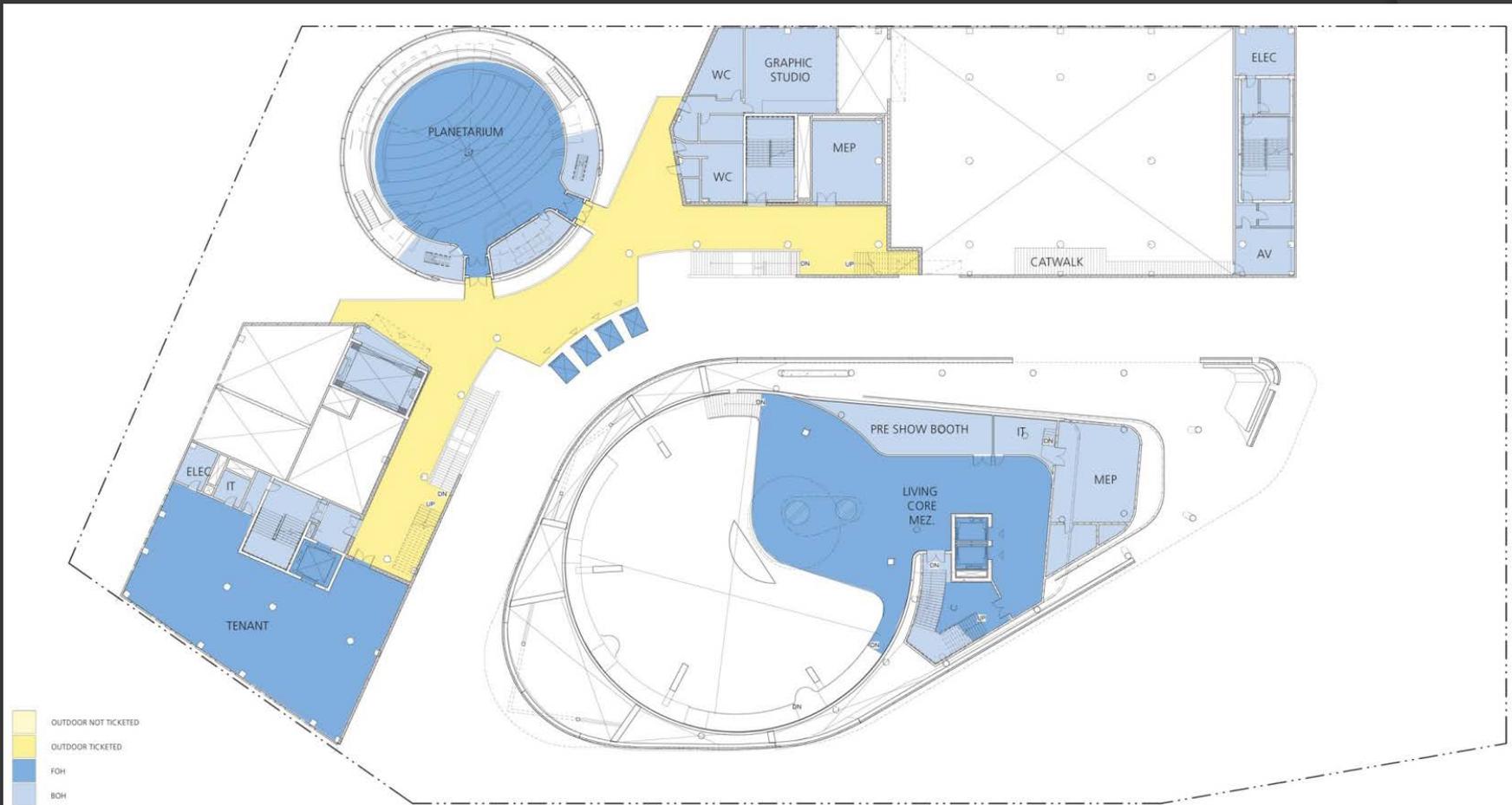
# ACCESS AND PARKING



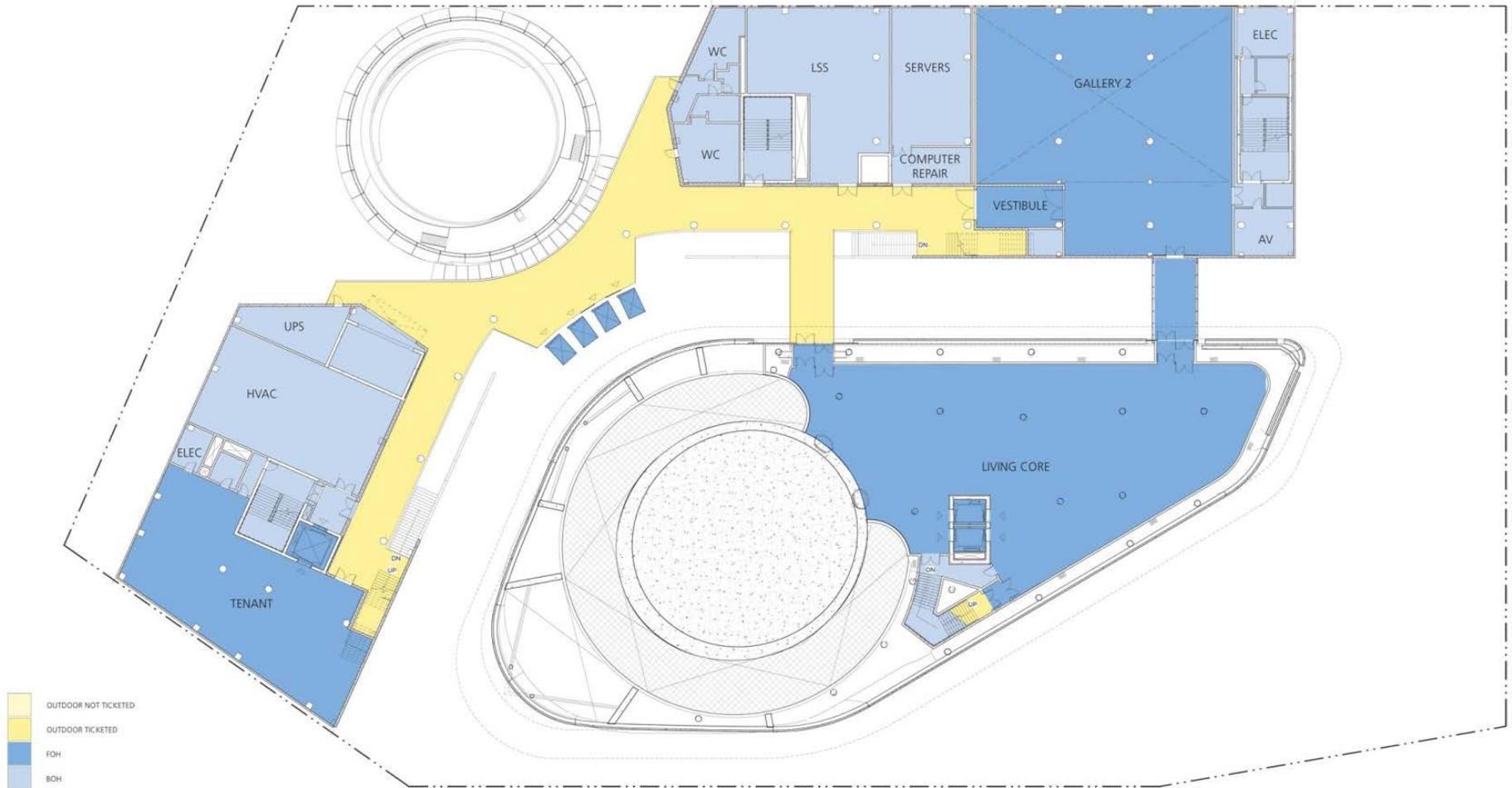
# ATRIUM, ACCESS TO PLANETARIUM AND PEOPLE AND SCIENCE GALLERY



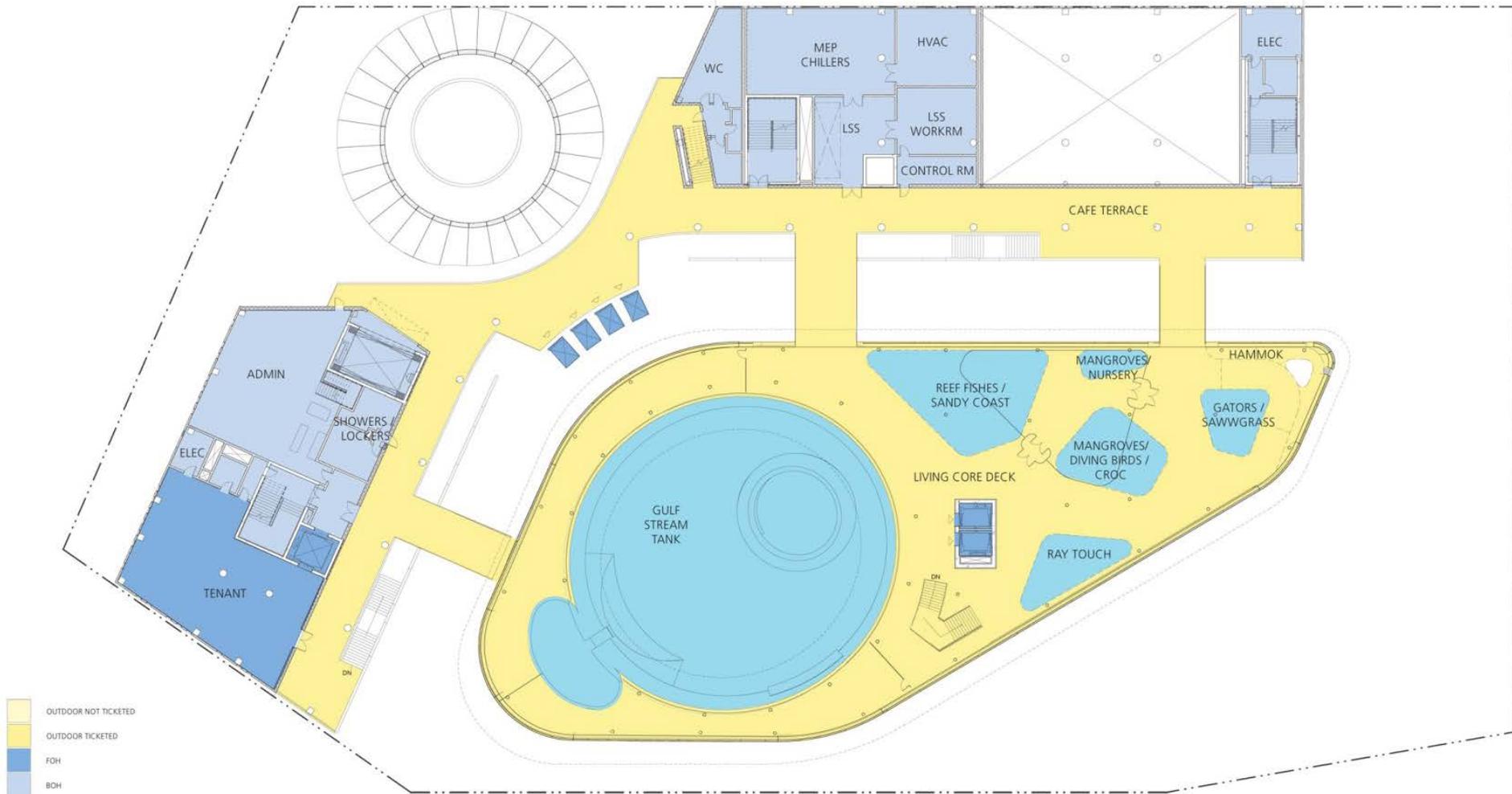
# MEZZANINE AND PLANETARIUM EXIT



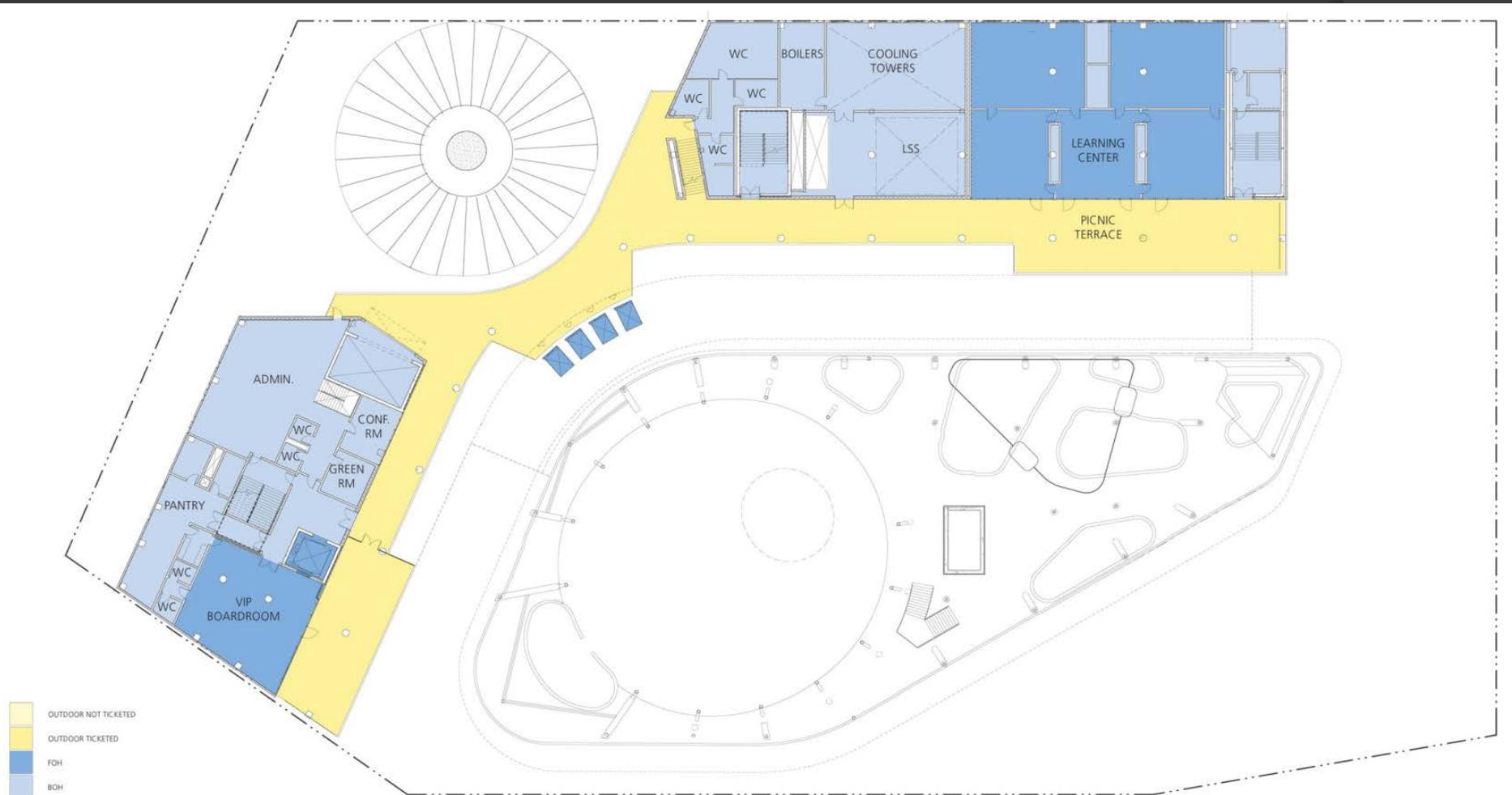
# MAIN GALLERY FLOOR



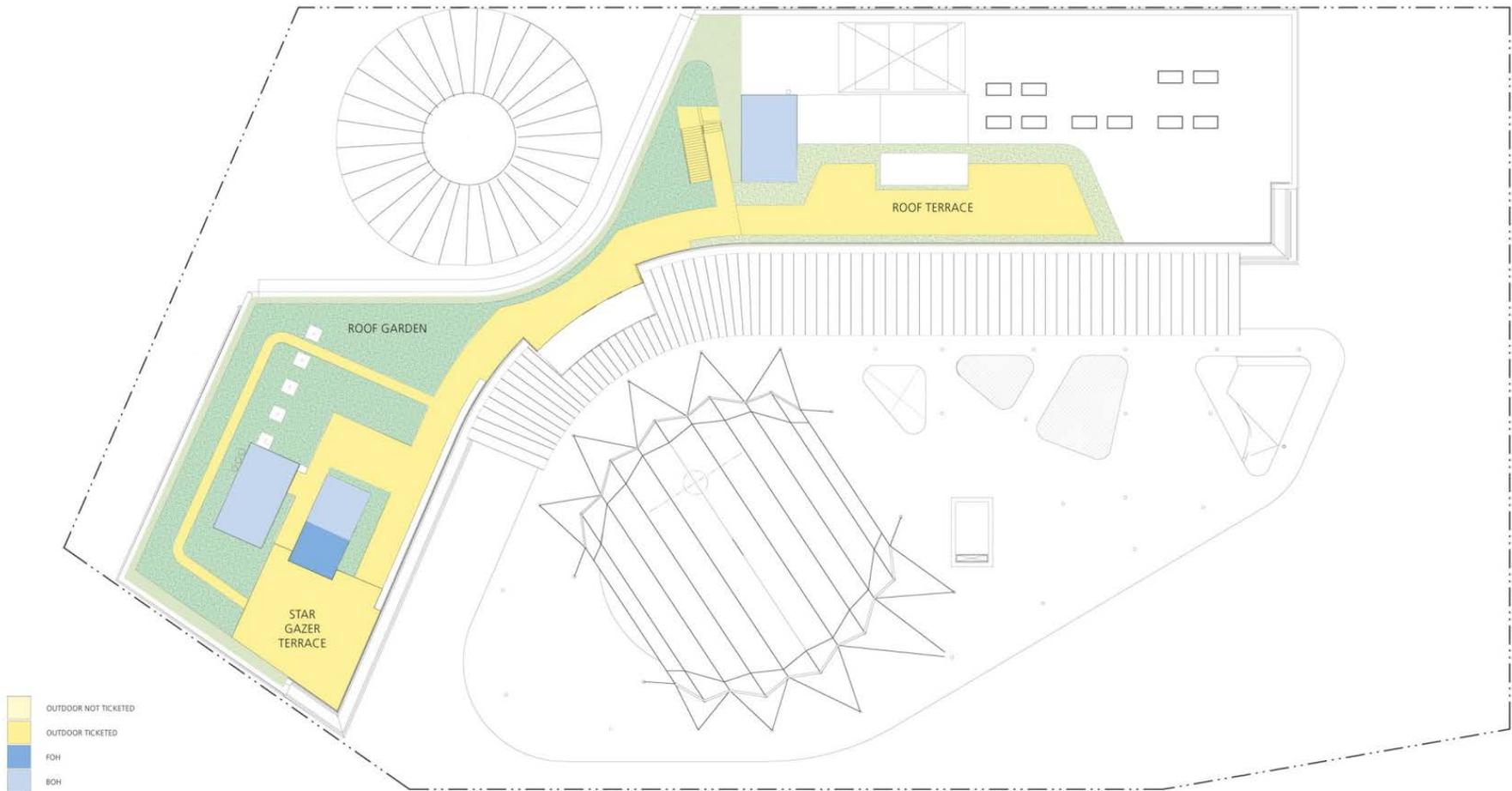
# LIVING CORE VISTA



# LEARNING CENTER AND VIP SUITE



# GREEN ROOF AND ENERGY TRAIL



# CREATE AN INSPIRING AND MEMORABLE EXPERIENCE

---

- Relate to the waterfront location with content focus on the South Florida climate and environment
- Provide both indoor and outdoor experiences, physical activity links to science exploration
- Build on existing strengths in education, planetarium, wildlife
- Expand themes into health, space science, communications
- Create a digital environment, accessible before, during and after
- Personalized and enjoyable learning
- Programs offer combine leisure, learning and training opportunities
- Host a wide range of events, meetings and festivals

# OUTSIDE: ENCOURAGE PHYSICAL ACTIVITY AS KEY TO EXPLORING PHYSICS AND WELLBEING



# INSIDE

## ENCOUNTERING REAL SCIENCE, WITH FRIENDS AND FAMILY



# ATRIUM

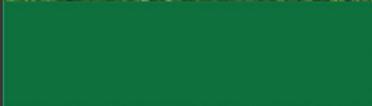


# View of Bay across the Living Core FLORIDA HABITATS & AQUARIA





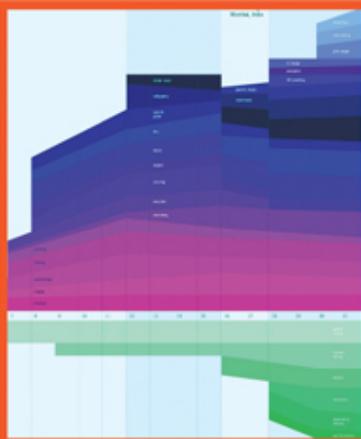
*the vista*  
*la vista*

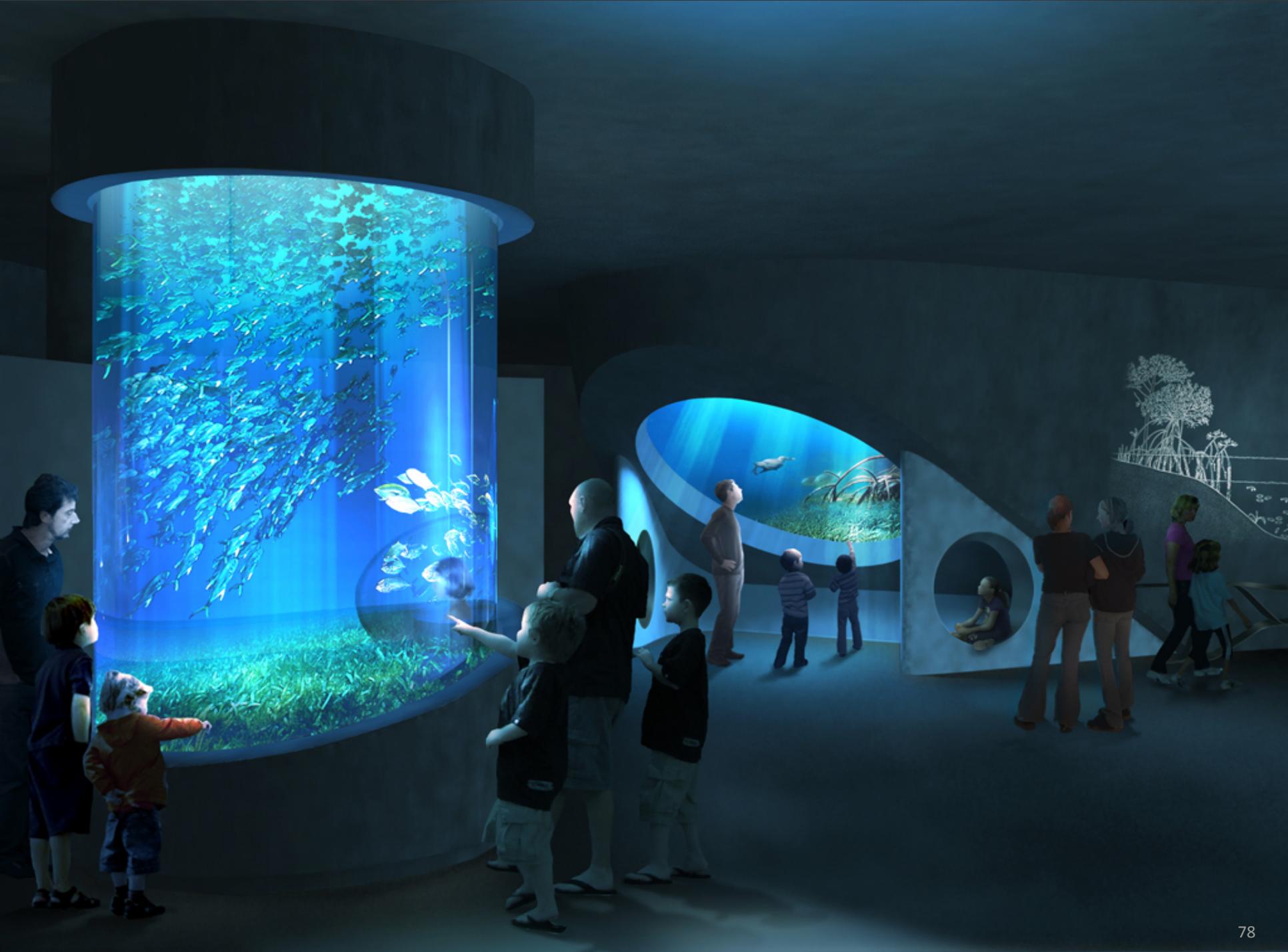








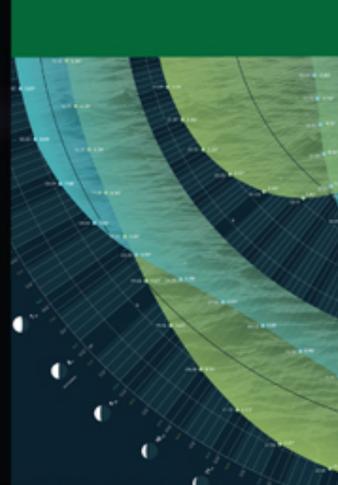


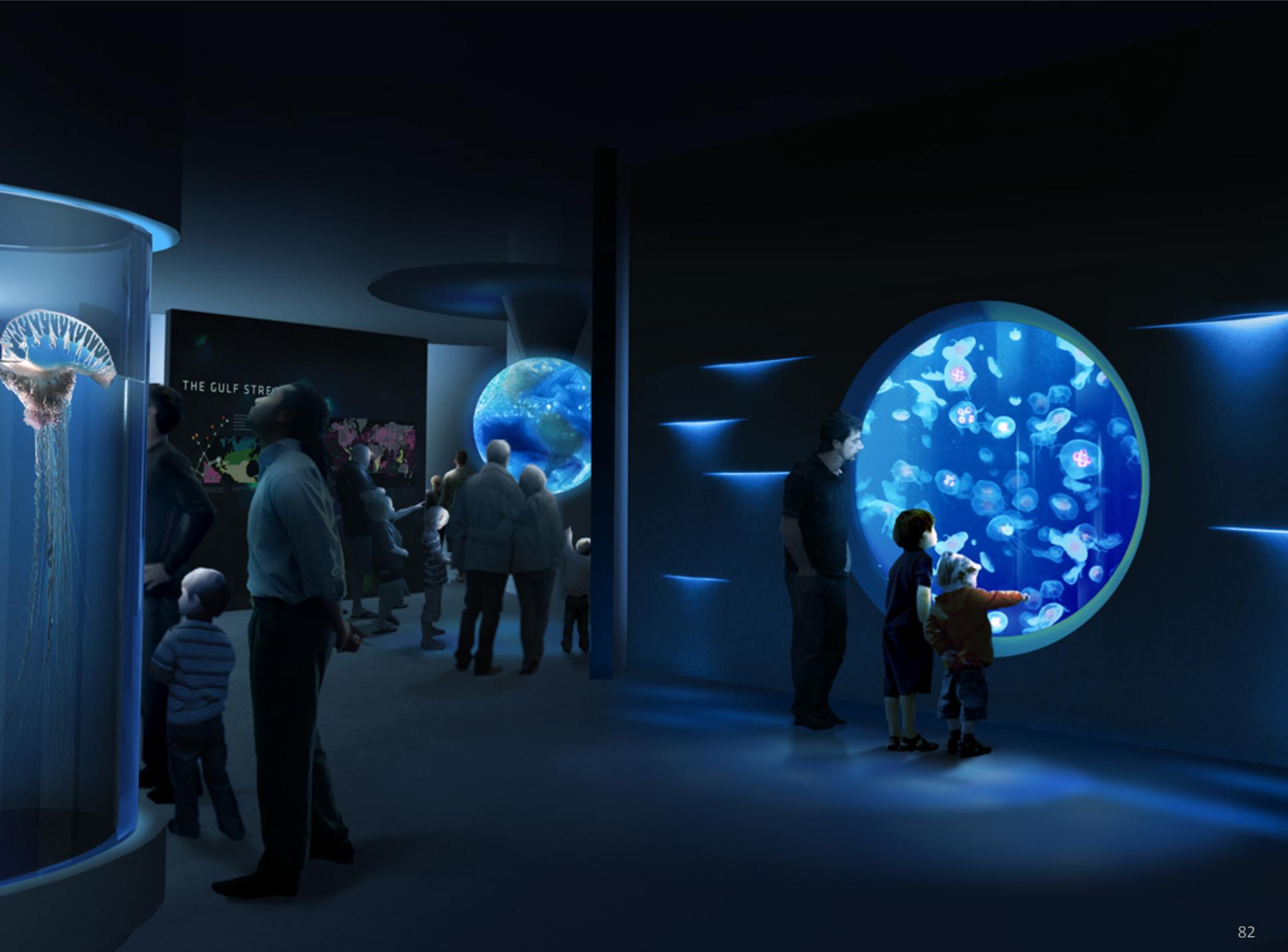




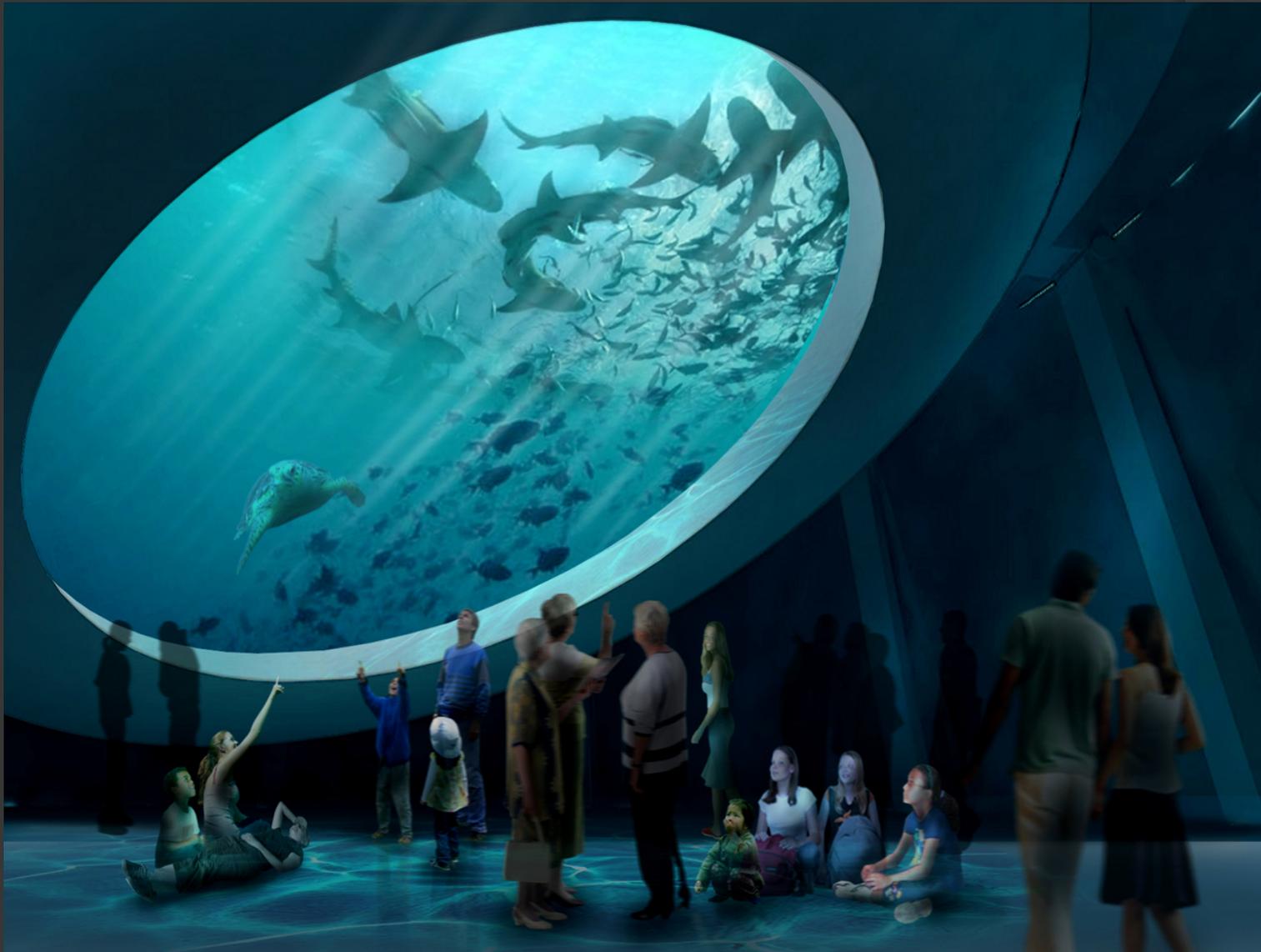


# THE DEEP LO HONDO





# GULFSTREAM AQUARIUM



GRIMSHAW

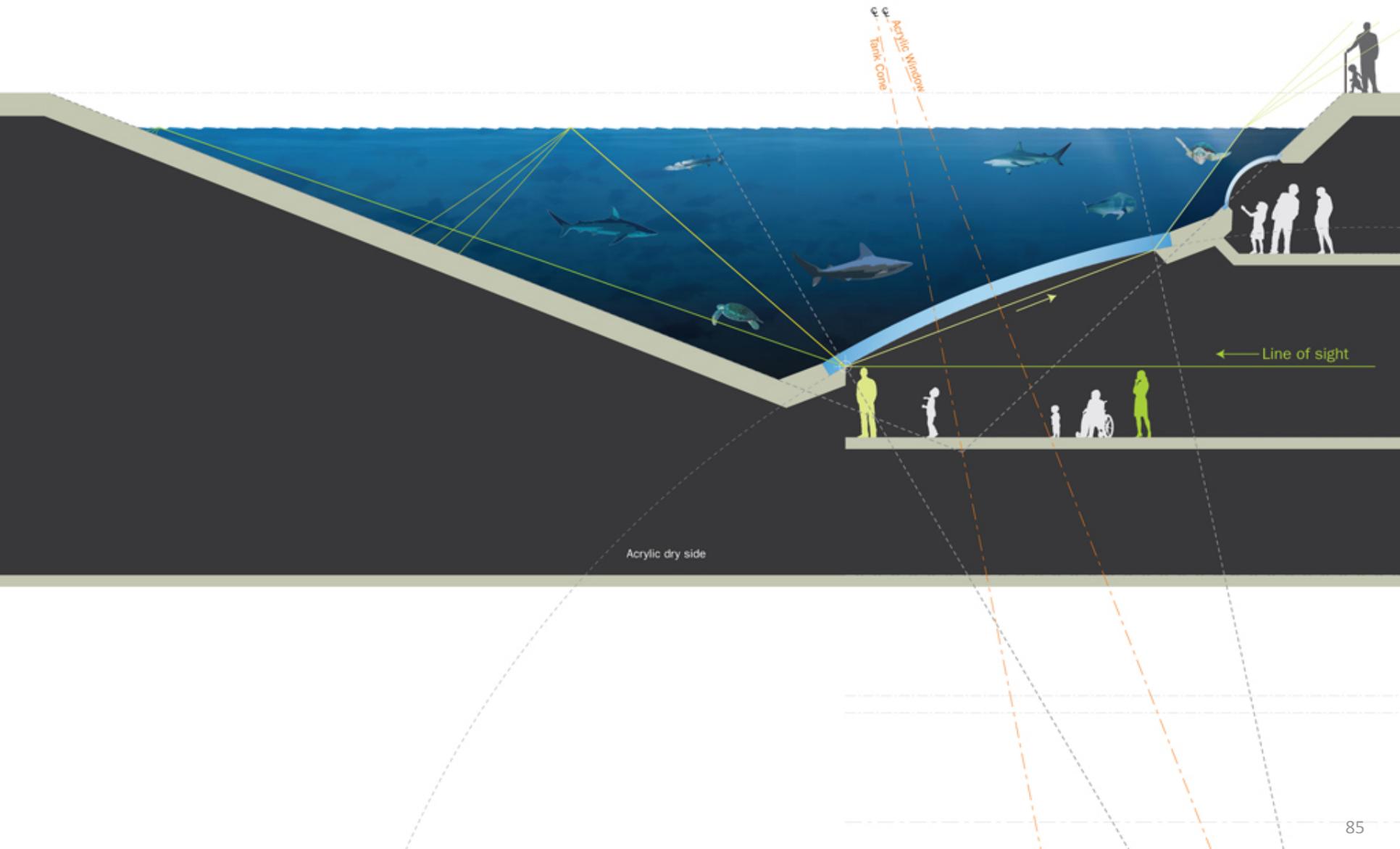
RODRIGUEZ AND QUIROGA

ARQUITECTONICAGEO

MIAMI SCIENCE MUSEUM

VIEW FROM MUSEUM PARK  
SEPTEMBER 23, 2010





# PEOPLE AND SCIENCE: APPROACH

---

A major gallery, connecting people to science and technology:

- Focus on benefits of science and technology to our lives
- A rich multimedia and interactive immersive environment with scenarios to explore
- A personalized approach for each visitor
- A starting point to encourage physical activity throughout the building, including health trail and energy playground
- A social experience in a entertaining, relaxing and educational environment, enhanced through social media
- Changing and updating exhibits, events and programs
- A major events space at night

# PERSONALIZED EXPERIENCE



# MONITORING HEALTH



# VIRTUAL RESTAURANT



# VIRTUAL RESTAURANT



# GRIMSHAW ARCHITECTS, LONDON AND NEW YORK

- ◉ Design Architects
- ◉ Winners of prestigious international prizes:  
2008 Transport and World Architect of the Year  
2007 Lubetkin Prize, Southern Cross Station, Melbourne
- ◉ Consultants Arup, Atelier Ten



Experimental Media and Performing Arts Center, Troy, NY



The Eden Project, Cornwall, UK



Southern Cross Station, Melbourne, Australia

# THINC DESIGN, NEW YORK

- Design Architects for the Living Core
- Recently acclaimed for design of *Water Planet* exhibit at California Academy of Sciences



*You! The Experience*, Museum of Science and Industry



*Water Planet*, California Academy of Science

# RODRIGUEZ AND QUIROGA, MIAMI

- Executive Architects
- The practice covers public and private sector clients
- Versatility of the firm exemplified by diverse projects



Florida Grand Opera Anderson Center



Miami International Airport Terminal

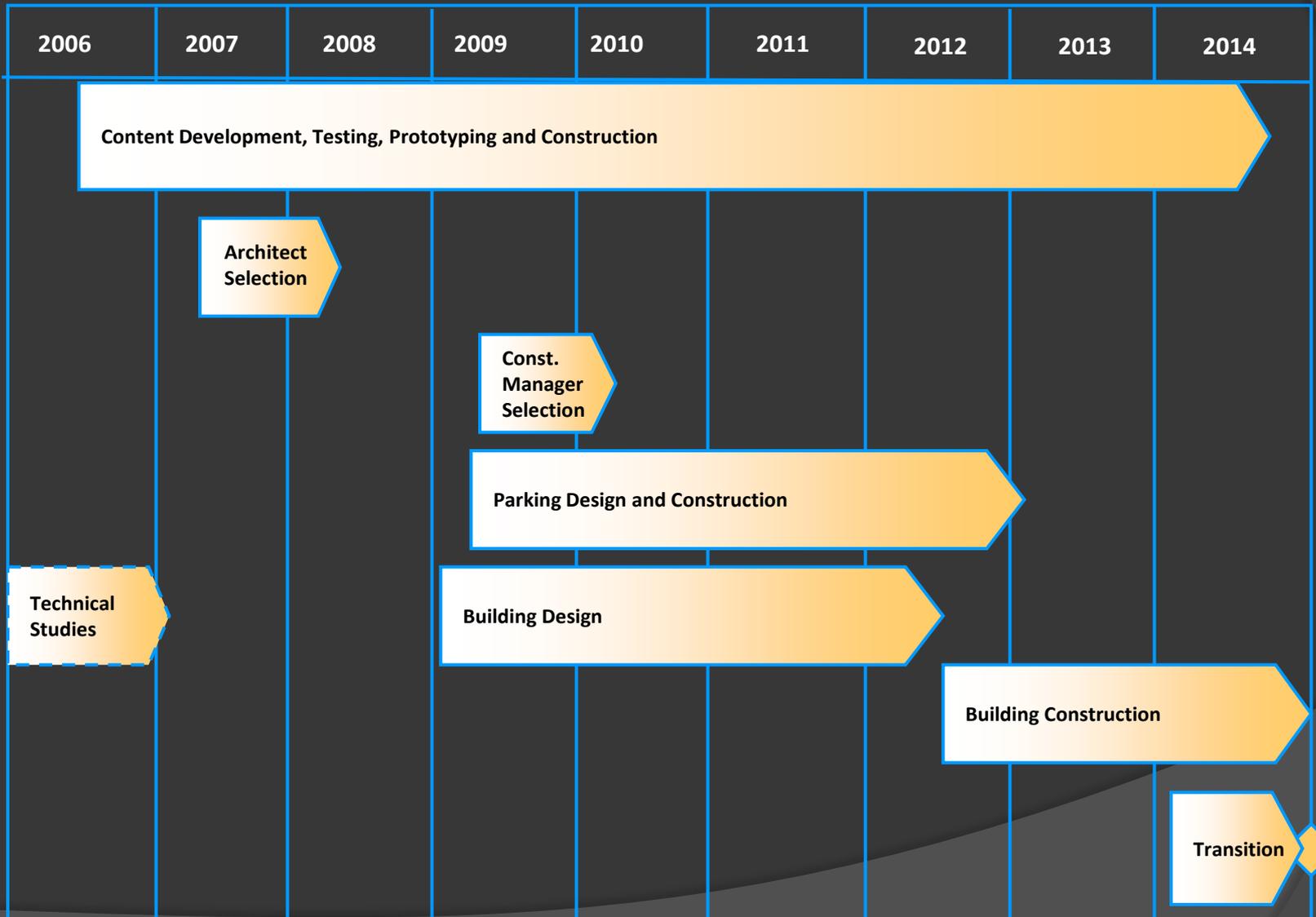


Miami Dade College Homestead Campus

# SITE OCTOBER 2010



# TIMELINE



***GIVE TODAY...***

***CHANGE TOMORROW!***



# *METROMOVER BICENTENNIAL PARK STATION REHABILITATION*

With the construction of a new Miami Art Museum and Miami Museum of Science adjacent to MDT's Bicentennial Park Metromover Station, this station is being rehabilitated and will reopen for service in January 2013.

# *METROMOVER BICENTENNIAL PARK STATION REHABILITATION*

- This is a Design-Build project.
- The total contract amount is \$1,822,200 of which \$1,300,000 were funded by the American Recovery and Reinvestment Act (ARRA).
- The Notice To Proceed was issued to Carivon Construction Company on October 13, 2011.
- The station will be open for revenue service in March 2013.

# *METROMOVER BICENTENNIAL PARK STATION REHABILITATION*

The work to reopen this Station includes:

- *rehabilitation of the elevator and escalators*
- *replacement lighting*
- *repair of the communication system*
- *new floor tiles*
- *repair of exterior wall cracks*
- *painting*
- *landscaping*