

*Design Houston's First*

**FÚTBOL**  
SOCCER  
**STADIUM**

20th  
Anniversary

*Michael G. Meyers*

Announcing the 2010  
**Student Design & Scholarship Competition**



# 2010 Michael G. Meyers Design Competition

## Soccer Stadium

### background

**Stadium** [*n., pl., stey-dee-uh m*]

1.a sports arena, usually oval or horseshoe-shaped, with tiers of seats for spectators.

2.an ancient Greek course for foot races, typically semicircular, with tiers of seats for spectators.

colosseum, amphitheater, bowl, hippodrome, open-air theater, theater

### houston's soccer stadium

The City of Houston has retained six contiguous blocks in the East Downtown Management District known as EaDo District. This Houston community has recently completed a vision plan in which neighborhood goals for improved pedestrian and landscape areas, residential and commercial development were defined and articulated.

This area east of Hwy 59 and Minute Maid Park expands what might be referred to as Houston's Sports district. With the development of Discovery Green Park and the proposed eastward extension of the Metro Rails it can also be seen as an opportunity to expand the public and civic realm of downtown Houston

This year, the design problem for the MGMDC is to design a soccer stadium for the Houston Dynamo and worthy of the 2022 World Cup. This stadium will not only celebrate Houston on the world, and national stage but will also provide a public space that will contribute daily to the urban life and environmental conscience of Houston.

### project requirements

The design for Stadium Houston 2022:

1. Include a comprehensive, description of your Stadium explaining the concepts behind your design. See essay requirements
2. Develop distinctive outdoor spaces that explore the urban context and experience of the spectator, the urban resident, and the environmentally aware citizen. Your design should contribute to civic/public life on a daily basis by exploring the use of the site beyond the soccer event and season.
3. Develop distinctive interior spaces that show an understanding of the spaces created with-in and around the required program elements
4. Students should explore the use of interesting materials and structural components. Your drawings should clearly illustrate these components

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Houston Chapter



## PROGRAM

### SITE

### ELEMENTS

The following items should be part of your site design and site plan. (Think about Urban Design, Parks, and Plazas. How your site should be approached and the integration of public transportation stops into your design. Think about the designs street, sidewalk, plaza, views and vistas how are they landscaped, and what are the elements that are part of the experience

<b>Soccer Field:</b>	Area designated for playing the game Maximum Length 130 yards = 390 ft Maximum Width 100 yards = 300 ft	
<b>Stadium:</b>	Area designated to permanent seating, the structure and enclosure/skin	22,000 seats
<b>Locate Entry / Exit:</b>	Area designated to entering and exiting	Min, Four (4)
<b>Plaza(s) + Events:</b>	Area outside of stadium structure designated to gathering and other public events (that you should program+define)	
<b>Light Rail, Bus Stop:</b>	Access points of public transportation devoted to the commuter	
<b>North Arrow:</b>	Area on site plan for orienting the site	
<b>Scale:</b>	Area on site plan for understanding the size of the drawing	
<b>Adjacent Streets:</b>	Clearly labeled streets, that can be landscaped	
<b>Adjacent Buildings:</b>	Show and reference nearby buildings	

The site at **2300 TEXAS STREET, HOUSTON TEXAS 77003** is bounded by, **DOWLING STREET** to the east, **HUTCHINS STREET** to the west, **TEXAS STREET** to the north, and **WALKER STREET** to the south. **BASTROP STREET** runs north south while **CAPITOL STREET** runs east west through the center of the site.

**The Site plan is provided in DWG and PDF format.**

## PROGRAM

BUILDING

ELEMENTS

For this project, the area of floor plan that you will be designing in detail will be limited to a segment of the entire stadium. The square foot areas listed below are for just that designated portion. (Note that program elements noted by # may be located within or without the stadium enclosure)

**Design Area:** Two (2) Floor Levels = 10,000 sq.ft of spectator experience

**Includes:**

**Main Entry:** Area devoted to access. 1000sq.ft

**Concourse Space:** Area devoted to gathering and interaction.

**Restrooms:** 500sq.ft (Mens) 500sq.ft (Womens)

**Elevator+ Stairs:** Two(2) Elevators@ 100sqf each per floor  
Two (2) Stairs @ 200 sqf each per floor

**Press Box / VIP:** Area devoted for media personnel and  
VIP area for special guests 750sq.ft

**Concessions:** Area devoted for food / drink purchase . 500sq.ft

**#Restaurant / Café:** Area devoted for full service eating. 1200 sqft

**#Ticket Booth:** Area devoted to info / purchasing event ticket. 400sq.ft

**#Soccer Museum:** Area devoted to history of the sport  
and Gift Store. 500sq.ft

## PROGRAM

ADDITIONAL

EXERCISES

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You must complete one of these exercises.

Your project solution should integrate and accomplish at least one of these sustainable strategies. Clearly describe, diagram and illustrate the components and resulting advantages.

1. Conserve energy, generate energy.
2. Conserve water, store water, reuse water
3. Utilize passive solar and wind strategies
4. Utilize materials that are salvaged, reused, recycled or recyclable, in an innovative way with in the design of your project.

### **closing statement**

This year's project emphasizes the importance of urban spaces and urban design. How your stadium contributes to the urban fabric of the city is important. Also important is the way your solution explores sustainable design and strategies. Your solutions will be evaluated for the merit of the idea, strength of concepts and the quality of the presentation. A clear and concise description, augmented by a **clear visual explanation should be your goal**.

## ***Presentation Requirements***

**essay** (should be firmly affixed to the front of one board)

Your descriptive essay should include some detail to explain your design. Please limit your essay to one 8 ½ x 11 sheet @ 12 point Arial font, approx. 500 words

Suggestions of what to include in your essay:

- Describe your sustainable strategies and how spectators and community will benefit, and enjoy them.
- Describe how the surrounding context influences the design of your stadium.
- Describe the fan or visitor experience at your stadium and its surroundings
- What makes your stadium unique, what will make your stadium worthy of the 2022 World Cup.
- Discuss the construction of the stadium. What are the structural components? What are the materials?

## **drawings**

The following **minimum** requirements should be mounted on two 24" x 36" or 30" x 42" **foam core** (do not submit more than two boards): (*Winning entries will be exhibited @ the Architecture Center Houston, therefore to facilitate display, boards **must be foam core**, and must not exceed the allowable sizes*)

- 1" = 100' scale **site plan**, showing outdoor features and site improvements and the roof of the stadium.
- 1/8" = 1'-0" scale **floor plan** of portion of stadium designed showing walls, doors, windows, countertops, plumbing fixtures, room names, and other descriptive information that defines the space.
- 1/8" = 1'-0" scale **exterior building elevation(s)** showing entry façade, roof heights, building materials, windows, and other descriptive information. (100 feet of linear elevation, Overall Height should not exceed 80'-0").
- 1/8" or 1/4" = 1'-0" **building section** of showing cut through seating, spaces and how they are connected or divided walls, exterior wall material, and some plaza.
- Any **hand sketches** that document your design process.

## **model**

You can choose between a site model or a sectional model

**Site model @ 1:50** scale showing to the extents of the six blocks, the stadium, and all site elements

**Section Model @ 1/8"=1'-0"** showing 100'-0 x 50'-0"x the height of your project, showing all elements that make up this portion of your stadium.

**\*\*Models are optional for individual participants, but all are encouraged to experiment with models to help answer questions about their designs.**

## **deadline for submissions**

Entries are due by 5:00 pm on Friday, **23 April 2010** at the AIA Houston offices

## **awards**

The 20th Anniversary MGMC reception and awards presentation will be held on Friday, **30 April 2010** at ArCH (ARCHITECTURE CENTER HOUSTON) **315 Capitol Street, Suite 120, Houston, Texas 77002** [phone 713-520-0155].. Winning entries will be displayed in an exhibition for two weeks at this venue.

Design is a creative process, and this is an ideas competition. Engineering calculations are not required for mechanical, electrical, or structural systems. All participants will receive a certificate of recognition from the American Institute of Architects. There will be a balanced evaluation by jurors from architectural, academic, and other relevant fields of expertise. Awards include college scholarships and scholarships to the UofH Architectural Summer Discovery Program. While the quality of presentation is important, any contestant of any ability may receive an award based on the strength of a concept or inventiveness of an idea.

### **Affix a label on the back of all boards and models with the following:**

Individual or Group Entry – Student Name(s) – School Name –  
Teacher Name -- Contact Phone Number

## Sustainable design strategies

### Site



Preserve green space or return developed land to more natural  
Be aware of drainage, minimize potential erosion  
Be smart about transportation  
Be aware of extent of impermeable surfaces, eg; roads and paving  
Be aware of the affect of your site on adjacent properties

### Water



Be smart about how much, and how you use and or reuse water.  
Think about ways to conserve water.  
Use native and adaptive plants, and minimize use of potable water.  
Adopt water technologies that reduce amount of water used.

### Energy



Be smart about how much, and what type of energy is used.  
Think about ways to conserve energy.

### Materials



Consider the impact of products used in the construction of the Building;  
this would include materials with recycled content, salvaged, rapidly renewable  
and local materials.

### Indoor Environment



We spend the majority of our time indoors and we should optimize the quality of that environment.  
Think about ways to bring lots of daylight into the building  
Think about the types of materials you use inside the building and how they could affect the health of the occupants