PROPOSAL

for:

River City Stadium

Evansville, Indiana

by:

John E. McCullough, Thesis 1986-87

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Ball State University, Muncie, Indiana

May 1987

River City Stadium
Evansville, Indiana
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RIVER CITY STADIUM
EVANSVILLE, INDIANA
INTRODUCTION

The people of Evansville, Indiana see a need for a new stadium proposal. Presently the Roberto Municipal Stadium located on Evansville’s eastside is in need of remodeling, new roof and air conditioning. Something should be done. Evansville is also trying to bring life back to the downtown and riverfront area. Evansville is a growing city with a population of 162,000 people. The city has a chance to grow with large activities taking place along the riverfront. With so many sporting activities why not design a sports stadium on the riverfront for the people of Evansville.

ORGANIZATION

IDEA MADE KNOWN TO PUBLIC

IDEA: STADIUM PROPOSAL

RESEARCH

FEASIBILITY STUDY

DEVELOPMENT

PRELIMINARY PLANNING

FINANCING

FINANCIAL ASSESSMENT

APPROVED

PLANS ACCEPTED

SUCCESSFUL

SITE SELECTION

OK

FAIL

END

OHIO RIVER

HYDROPLANE RACE IN SUMMER TIME!!!

WATER

LAND

SCHEMATIC DESIGN STUDY

RIVER CITY STADIUM
EVANSVILLE, INDIANA
ABOUT STADIUM STRUCTURES

During the last one hundred years all the factors which directly or indirectly influenced stadium type construction have been harmoniously directed towards a new architecture.

Nothing is more absurd or sterile than to try to maintain, artificially, structural schemes and architectural forms of a past which have nothing in common with the present or with the foreseeable future.

On the basis of these considerations, it may be well to ask ourselves what will be the direction of this new stadium.

It is easy to observe that the increasing importance of the structural aspects of the new themes; like long-span bridges, great halls, stadiums, railroads, maritime and air terminals, large factories and large office and storage buildings require a strict adherence to what I like to call "stactical truth" in order to obtain economical and constructionally possible solutions for stadium structures.
It is obvious that a stadium of large dimensions is strictly limited by structural requirements, both in its form and its resisting skeleton. A stadium more than 100 ft. in span has already a limited number of solutions; if the span is over 150 ft. the number of possible solutions decreases; and there may be only one or two solutions left when the span is over 300 or 400 ft. span cannot differ much from the curve of the resultant pressures of the permanent load. Therefore the shape of the stadium will be very near the shape of a parabola.

Every important piece of construction will therefore have a tendency to express, more and more, the structural scheme which determines it. Actually an honest expression of such a scheme will be architecturally eloquent.

Numerous realizations in other technical fields help us in the creation of a new esthetic sentiment which necessarily is deeply felt in architecture. Airplanes, ships, automobiles, and machines cannot help obeying the strictest functional truths and the rigorous laws of statics and dynamics which leave us little room for fantastic creations.
In the eighteenth century a complete freedom of form and of decorative detail allowed the builder of sailing ships and of horse-drawn carriages the creation of beautiful looking vessels and magnificent berlines. These products were in complete esthetic accord with the architecture, the interior decoration and the fashions of the time.

The shapes of our airplanes, our ships and our automobiles are rapidly approaching standard shapes of minimum resistance.

It is foreseeable that both because of the direct influence of the structural problems of large structures and because of the direct influence of other technical and mechanical realizations, and finally because of the ever-increasing influence of economic factors, the entire architecture of the future will be directed towards truth; that is, towards a more truthful style.
This new direction which tomorrow's architecture must inevitably take, unless all the fundamental technical aspects of our new culture should suddenly be revolutionized, will not lead us necessarily to cold and standard architectural expressions. First of all, the structural forms of great works are in themselves rich and beautiful; but moreover, we must create architectural expressions of minor importance which are at the same time functionally and economically correct, free of useless and often vulgar decorations, made interesting by harmonious relations of volumes and surfaces and enriched by color and by the refinement of details.

Then there are entire fields of architecture which always will be free from the cold and purely technical requirements of structuralism. For example, the solution of urban problems in the residential sections of our cities can still be quite free and may express in the serene joy of their green areas the need of romanticism and poetry which, I hope, will still be felt by future generations.
After so many changes due to the varying sensibilities and to the social conditions of humanity in the past, we now see the birth of this new "style of truth" which is imposed by the techniques of mechanics and of large structure stadiums and which will invade all other fields of human activity.

All over the world, new stadiums are being built today which more or less consciously express this style of truth. I believe that in the near future this style will flourish consciously everywhere.
The structure of this book is to re-evaluate the proposal of my River City Stadium project. My proposal is based primarily on my hypotheses statements.

**HYPOTHESES**

1) Waterfront cities have the potential for many activities, yet only a few cities have taken advantage of this. In these cities a spirit of harmony exists between the city and water, but in other areas no harmony exists.

2) A river should not be the end of a city's boundaries. Evansville like many other cities with waterfronts should not turn its back on the river. A river is a great resource that many cities do not take full advantage of.

3) Many activities should occur along the river, therefore a strong need for a recreational type sports stadium is appropriate. The stadium design for recreational purposes is the basis for my thesis.

4) Evansville is a growing city with a population of 162,000 people. The city has a chance to grow with a recently finished six lane highway going east and west which improves the circulation of vehicular transportation. The new six lane highway will aid in circulation to and from the proposal of my recreational sports stadium. With this in mind why not build a stadium to improve the use of the river to the city.
I have done extensive research on stadium planning and riverfront development, but still have to access all the pertinent information. During my research I gave out questionnaires to people in the city of Evansville.
QUESTIONNAIRE

Please will you help me by completing this questionnaire. My thesis is designing a stadium for Evansville, Indiana. The location of my site is presently Material Transports sand and gravel yard on the bend of the river-front. Your answers are very important to my observations. Please circle yes or no. Thank you.

1. Do you feel the location for my stadium is adequate.  Yes  No

2. Do you feel Evansville needs a new indoor municipal stadium.  Yes  No

3. Do you feel the need for a stadium to seat more spectators than the existing Evansville, Roberto Municipal Stadium.  Yes  No

4. Do you think this new stadium should contain an indoor pool.  Yes  No

5. Do you feel that the activities that will take place in the proposed River City Stadium relate to the activities that take place on the riverfront.  Yes  No

6. Do you think this stadium will aid in bringing life back to the downtown riverfront area.  Yes  No
QUESTIONNAIRE (cont.)

1. Do you agree that many cities turn their backs on its waterfronts. Yes No

2. Do you think vehicular transportation to and from the stadium will be a problem. Yes No

3. Do you think water transportation by small boats to the stadium is a feasible idea. Yes No

4. Do you think the stadium next to the new six lane highway is a good idea. Yes No

5. Do you think that a new stadium will improve the recreational use of the river to the city. Yes No

6. Do you think this site would be more suitable for other purposes besides a new stadium. Yes No

If yes, why?

Thank you!
Part 1

1. Are you:
   - taking part in an **INDOOR** sporting activity?
   - taking part in an **OUTDOOR** sporting activity?
   - acting as a coach or referee?
   - watching?
   - attending a meeting?
   - bringing or collecting friends/family only?
   - other?

2. If you are taking part in a sporting activity/activities today:
   - archery
   - athletics
   - badminton
   - basketball
   - billiards/snooker
   - bowling
   - cricket
   - dancing/movement/keep fit
   - fencing
   - fitness/york training
   - golf practice
   - gymnastics
   - hockey
   - judo
   - karate
   - netball
   - roller skating
   - rugby practice
   - rowing
   - soccer
   - squash
   - swimming
   - table games
   - tennis
   - trampoline
   - volleyball
   - weight lifting/wrestling
   - yoga
   - other

b) Where did you first take part in this activity/activities?
   - at school
   - at university/college
   - at a youth club
   - at a sports club
   - at an evening class
   - at the Sports Centre
   - in the Services
   - elsewhere
don't know

3. Are you attending today:
   - (i) on a course or in a coaching group?
     - yes
     - no
   - (ii) with a class or a team?
     - yes
     - no
   - (iii) as an individual user?
     - yes
     - no

b) Are you attending:
   - with friends
   - with members of your family
   - with both friends and family
   - alone
   - if you are attending with members of your family, state whether:
   - with your father
   - with your mother
   - with both your father and mother
   - with your husband/wife
   - with your children
   - (please state how many)
   - with your brother or sister
   - (please state how many)
**PART 2**  
**Questionnaire (cont.)**

1. Did you travel to the Sports Centre:  
   - by car or van?  
   - by motorcycle or scooter?  
   - by bicycle?  
   - by bus?  
   - by train?  
   - by car 6 bus or train?  
   - on foot only?  
   
   If by car or motorcycle were you a:  
   - driver?  
   - passenger?  

2. a) Have you come to the Sports Centre:  
   - directly from home?  
   - directly from work?  
   - directly from school or college?  
   - directly from friend's home?  
   - at friend's home?  
   - elsewhere?  

   b) Please give the ABOVE address:  
   - street  
   - town or city  
   - district  

3. How long did it take you to get to the Sports Centre:  
   - less than 7 mins  
   - 7 - 12 mins  
   - 13 - 22 mins  
   - 23 - 32 mins  
   - 33 - 42 mins  
   - 43 - 52 mins  
   - 53 - 62 mins  
   - over 62 mins  

4. a) Will you be going:  
   - straight home?  
   - straight to work?  
   - straight to school or college?  
   - straight to friend's home?  
   - at friend's home?  
   - elsewhere?  

   b) Please give this address, if different from question 2b:  
   - street  
   - town or city  
   - district  

**PART 3**

1. What is your age:  
   - under 10  
   - 10 - 14  
   - 15 - 19  
   - 20 - 24  
   - 25 - 29  
   - 30 - 34  
   - 35 - 39  
   - 40 - 44  
   - 45 - 49  
   - 50+  

2. Are you:  
   - male?  
   - female?  

3. Are you:  
   - single?  
   - married?  
   - widowed?  
   - other?  

**PART 4**  
**Questionnaire (cont.)**

1. How many visits have you made to this centre to take part in a SPORTING activity in the last seven days? (Do not count this visit):  
   - 0  
   - 1  
   - 2  
   - 3  
   - 4  
   - 5  
   - 6  
   - 7 or more  

2. If you have not been in the last seven days, have you:  
   - been within the last fortnight?  
   - 3 months?  
   - a year?  
   - not been for over a year?  
   - not been before?  

THANK YOU VERY MUCH FOR YOUR HELP

**RIVER CITY STADIUM**  
**EVANSVILLE, INDIANA**
Most of the people answered in favor of a new stadium on the riverfront near the downtown. The questionnaires show support for the River City Stadium proposal. The format I chose for my research are analyzed and shown for future development. With the gathered information one can see the initial conclusions that are drawn for the design of a new stadium. Many activities take place in a stadium and along a waterfront. The River City Stadium should therefore bring life to the downtown area. Evansville's riverfront has the potential for many activities, yet only a few areas of the river have taken advantage of this. In some areas a spirit of harmony exist between the city and water, but in other areas no harmony exists.
Evansville is a growing city with a population of 162,000 people, a nice riverfront, and many recreational activities. With this in mind why not build a stadium to accommodate recreational sports activities and improve the use of the river to the city.
SITE DATA

My stadium site is located in Evansville, Indiana on the bend of the Ohio River and adjacent to the downtown area. It is easily accessible to SR 62, which is a six lane highway; and Fulton Avenue which is a major street going North & South to Highway 41.

The site is located on the river bank which gives it means of ingress to and from the stadium by means of water transportation.

The stadium facility will be the home stadium of the University of Evansville Aces and will encompass the present Evansville Memorial Transportation Center.

Parking for this new stadium will encompass Ohio Valley Hardware (abandon) and General Waste next to Pigeon Creek.
### Driving Distance And Times From Major Cities

<table>
<thead>
<tr>
<th>City</th>
<th>Distance</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atlanta</td>
<td>400 miles</td>
<td>7½ hrs.</td>
</tr>
<tr>
<td>Chicago</td>
<td>300 miles</td>
<td>5½ hrs.</td>
</tr>
<tr>
<td>Cincinnati</td>
<td>220 miles</td>
<td>4 hrs.</td>
</tr>
<tr>
<td>Columbus</td>
<td>324 miles</td>
<td>6 hrs.</td>
</tr>
<tr>
<td>Dayton</td>
<td>274 miles</td>
<td>5 hrs.</td>
</tr>
<tr>
<td>Huntington, WV</td>
<td>308 miles</td>
<td>5½ hrs.</td>
</tr>
<tr>
<td>Indianapolis</td>
<td>177 miles</td>
<td>3½ hrs.</td>
</tr>
<tr>
<td>Louisville</td>
<td>110 miles</td>
<td>2 hrs.</td>
</tr>
<tr>
<td>Kansas City</td>
<td>423 miles</td>
<td>7½ hrs.</td>
</tr>
<tr>
<td>Memphis</td>
<td>283 miles</td>
<td>6 hrs.</td>
</tr>
<tr>
<td>Milwaukee</td>
<td>364 miles</td>
<td>6½ hrs.</td>
</tr>
<tr>
<td>Nashville</td>
<td>145 miles</td>
<td>2½ hrs.</td>
</tr>
<tr>
<td>Pittsburgh</td>
<td>508 miles</td>
<td>9½ hrs.</td>
</tr>
<tr>
<td>St. Louis</td>
<td>172 miles</td>
<td>3½ hrs.</td>
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<tr>
<td>Washington, DC</td>
<td>720 miles</td>
<td>13½ hrs.</td>
</tr>
<tr>
<td>Winston-Salem</td>
<td>588 miles</td>
<td>10½ hrs.</td>
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### Flying Times From Major Cities

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<thead>
<tr>
<th>City</th>
<th>Time</th>
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<tbody>
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<td>Atlanta</td>
<td>2½ hrs.</td>
</tr>
<tr>
<td>Boston</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>Chicago</td>
<td>1 hr.</td>
</tr>
<tr>
<td>Cleveland</td>
<td>2 hrs.</td>
</tr>
<tr>
<td>Dallas</td>
<td>3½ hrs.</td>
</tr>
<tr>
<td>Denver</td>
<td>4½ hrs.</td>
</tr>
<tr>
<td>Detroit</td>
<td>2 hrs.</td>
</tr>
<tr>
<td>Houston</td>
<td>4½ hrs.</td>
</tr>
<tr>
<td>Kansas City</td>
<td>3½ hrs.</td>
</tr>
<tr>
<td>Los Angeles</td>
<td>5½ hrs.</td>
</tr>
<tr>
<td>Memphis</td>
<td>1½ hrs.</td>
</tr>
<tr>
<td>Miami</td>
<td>4 hrs.</td>
</tr>
<tr>
<td>Minneapolis</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>New Orleans</td>
<td>4½ hrs.</td>
</tr>
<tr>
<td>New York</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>Philadelphia</td>
<td>2½ hrs.</td>
</tr>
<tr>
<td>San Francisco</td>
<td>6 hrs.</td>
</tr>
<tr>
<td>Seattle</td>
<td>6 hrs.</td>
</tr>
<tr>
<td>Washington, DC</td>
<td>2½ hrs.</td>
</tr>
</tbody>
</table>
I ask them basic questions about designing a stadium on the river's edge and located closer to the downtown area.
**LOCATION:** *Evansville's River City Stadium proposal and its location to other surrounding large stadium in nearby large cities***

- **North**

**VANDERBURGH COUNTY**

**EVANSVILLE**

**LOCATION:**
*Evansville's River City Stadium proposal and its location to downtown area, city limits and Vanderburgh County.*

* North
OBJECTIVES

The stadium will provide:

* ACTIVITIES
* FUNCTIONS

The stadium will be organized by:

* COACHES
* STAFF
* FACULTY
* WORKERS
* TRAINERS
* MANAGERS
* SECRETARY
* PERSONNEL

The stadium design will consider:

* OUTDOORS
* RIVERFRONT
* LANDSCAPE
* CONTEXT
* RELATIONSHIP OF SPACES
* IMAGE

RIVERCITY STADIUM
EVANSVILLE, INDIANA
BUILDING CRITERIA

FUNCTION: The proposed stadium will be the new home of the Evansville Purple Aces basketball team. Provide seating for spectators to view large athletic events.

ORGANIZATION: The stadium is organized to facilitate the young, old, and physically handicapped.

CIRCULATION: Circulation to and from stadium from highways to parking lots to entrance & corridors are of critical instructional value.

SECURITY/SAFETY: Security and safety are major factors for the staff and faculty.

CODE CONSIDERATION: Building codes should be considered. Zoning ordinances. Restrictions.
PROGRAM DETAILS

Parking:
* Parking for 1500 automobiles and 12 buses.
* Consider pedestrian traffic patterns
* Vehicular traffic patterns & movement
* Location of parking to arena entrance.
* Landscape space relationship
* Drainage & soil erosion conditions
* Gas, water, electric utilities
* Building type study of surrounding nearby stadiums
* Consider location of housing, industry, and business areas

Main Arena Floor:
* Floor area: 175' Diameter + 20,000 sq. ft. total
* Floor load limit: unlimited
* Floor finish: concrete
* Floor adaptability for astro turf, basketball court, ice hockey, field hockey, concert events, etc.
  The floor shall be designed for multi-purpose activities.

Seating Requirements:
* Seating for 10,000 spectators
* 8,000 permanent seats provided
* 1000 folding bleachers in arena floor
* 1000 balcony seating available
* Storage space under seating
* Each seat shall have an obstructive view to all areas of arena floor
* Seating shall have obstructive emergency exits
* Seating views to the river-front activity

Lobby:
* Entrance area of 1500 sq. ft.
* Area adequate for booths
* Booths to provide souvenirs & gifts pertaining to current event

Conference Room:
* 150 sq. ft.
* Access to lobby & kitchenette
* Access to arena floor (secondary)
* Privacy considerations

Game Room:
* 800 sq. ft. req.
* Adjacent to lobby
* Adjacent to main entrance

Lounge:
* 1000 sq. ft. req.
* Adjacent to lobby
* New main entrance (secondary)

Kitchenette:
* 140 sq. ft.
* Utility access to gas & electric
* Adjacent to lounge area
* Adjacent to conference (secondary)

Ticket Booths:
* 50 sq. ft.
  5 & 50 = 250 sq. ft.
* At main entry (front doors)
Manager's Office:
* 120 sq. ft. req.
* near reception area
* adjacent to main lobby area

Secretary/Receptionist:
* 100 sq. ft.
* next to manager's office
* near ticket booth

Record of Events Room:
* 60 sq. ft.
* adjacent to secretary office
* enclosed closet

Locker Rooms:
* 2 major locker rooms, one for each team
* 50 sq. ft. each
* lockers, showers, dressing & toilet facilities
* nearby to laundry room

Private Dressing Rooms:
* 6 provided at 100 sq. ft. each
* Each shall contain shower, toilet, sink, mirror, hanging space, seating and dressing area

Laundry Room:
* 500 sq. ft. minimum
* access to locker areas
* near to private dressing room

Training Room/First Aid:
* 800 sq. ft.
* near locker room area
* adjacent to weightroom
* sauna & whirlpool, etc.

Weight Room:
* 500 sq. ft.
* adjacent to training room

Private Offices:
* 8 offices @ 100 sq. ft. each
* 800 sq. ft. total
* visibility to arena floor
* leasable to large corporations

Information Center:
* near ticket booths
* near main entrance
* 200 sq. ft. (min.)

Scoreboard have visible access for all players & spectators
Radio announcer needs access to balcony area

Concession:
* 250 sq. ft. each 4 total
* 1000 sq. ft. total
* one @ each corner of stadium
* access to spectator seating
**Vehicular Entrance:**
- Loading dock area for concert events
- 31/6 ft. wide entrance to arena floor
- Covered, drive-in dock

**Staging:**
- Portable staging available
- Dance floor available

**Mechanical Rooms:**
- 15% total area of stadium

**Circulation:**
- 18% of total floor area

**Restrooms:**
- 4 restrooms
- 2 male facilities
- 2 female facilities
- Accommodate 1000 spectators

**Drinking Fountains:**
- Located in corridor areas
- Adjacent to restroom entrances

**Storage:**
- Under seating
- Large door openings
- 5% of total sq. ft. of stadium

**SPACE SUMMARY**

<table>
<thead>
<tr>
<th>SPACE</th>
<th>SQ. FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAIN ARENA FLOOR</td>
<td>20000</td>
</tr>
<tr>
<td>SEATING</td>
<td>35000</td>
</tr>
<tr>
<td>LOBBY</td>
<td>2500</td>
</tr>
<tr>
<td>CONFERENCE ROOM</td>
<td>150</td>
</tr>
<tr>
<td>GAME ROOM</td>
<td>500</td>
</tr>
<tr>
<td>LOUNGE</td>
<td>1000</td>
</tr>
<tr>
<td>KITCHENETTE</td>
<td>140</td>
</tr>
<tr>
<td>TICKET BOOTHS</td>
<td>300</td>
</tr>
<tr>
<td>MANAGER'S OFFICE</td>
<td>120</td>
</tr>
<tr>
<td>SECRETARIAL/RECEPTIONIST</td>
<td>100</td>
</tr>
<tr>
<td>RECORD OF EVENT ROOM</td>
<td>50</td>
</tr>
<tr>
<td>LOCKER ROOMS</td>
<td>1000</td>
</tr>
<tr>
<td>PRIVATE DRESSING ROOMS</td>
<td>400</td>
</tr>
<tr>
<td>LAUNDRY ROOM</td>
<td>500</td>
</tr>
<tr>
<td>TRAINING ROOM/FIRST AID</td>
<td>500</td>
</tr>
<tr>
<td>WEIGHT ROOM</td>
<td>500</td>
</tr>
<tr>
<td>PRIVATE OFFICES</td>
<td>180</td>
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<tr>
<td>INFORMATION CENTER</td>
<td>200</td>
</tr>
<tr>
<td>CONCESSION</td>
<td>100.0</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>64570</strong></td>
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</tbody>
</table>

**SPACE**

**SQ. FT.**

**STORAGE**

**5%**

**CIRCULATION**

**18%**

**MECHANICAL**

**15%**
CONCEPTUAL EVOLUTION
### Suggested Indoor Surface Materials

<table>
<thead>
<tr>
<th>Rooms</th>
<th>Floors</th>
<th>Lower Walls</th>
<th>Upper Walls</th>
<th>Ceilings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apparatus Storage rooms</td>
<td>2 1 2 1</td>
<td>2 1 2 1 C</td>
<td>2 1 C 1</td>
<td>C 1 C 1</td>
</tr>
<tr>
<td>Club Room</td>
<td>2 1 2 1</td>
<td>2 1 2 1 C</td>
<td>2 1 C 1</td>
<td>C 1 C 1</td>
</tr>
<tr>
<td>Corrective Room</td>
<td>2 1 2 1</td>
<td>2 1 2 1 C</td>
<td>2 1 C 1</td>
<td>C 1 C 1</td>
</tr>
<tr>
<td>Custodial Room</td>
<td>1 2</td>
<td>2 1 2 1 C</td>
<td>2 1 C 1</td>
<td>C 1 C 1</td>
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<tr>
<td>Custodial Supplies</td>
<td>1 2</td>
<td>2 1 2 1 C</td>
<td>2 1 C 1</td>
<td>C 1 C 1</td>
</tr>
<tr>
<td>Drying Room (Equip.)</td>
<td>1 2 2 1 2 1 1</td>
<td>1 1</td>
<td>2 1 C 1</td>
<td>C 1 C 1</td>
</tr>
<tr>
<td>Gymnasium</td>
<td>1 1 2 1</td>
<td>2 1 2 1 C</td>
<td>2 1 C 1</td>
<td>C 1 C 1</td>
</tr>
<tr>
<td>Health Service</td>
<td>1 1 2 1</td>
<td>2 1 2 1 C</td>
<td>2 1 C 1</td>
<td>C 1 C 1</td>
</tr>
<tr>
<td>Laundry Room</td>
<td>1 1 2 1</td>
<td>2 1 2 1 C</td>
<td>2 1 C 1</td>
<td>C 1 C 1</td>
</tr>
<tr>
<td>Locker Rooms</td>
<td>1 1 2 1</td>
<td>2 1 2 1 C</td>
<td>2 1 C 1</td>
<td>C 1 C 1</td>
</tr>
<tr>
<td>Office Suite</td>
<td>2 1 2 1</td>
<td>2 1 2 1 C</td>
<td>2 1 C 1</td>
<td>C 1 C 1</td>
</tr>
<tr>
<td>Recreation Room</td>
<td>2 1 2 1</td>
<td>2 1 2 1 C</td>
<td>2 1 C 1</td>
<td>C 1 C 1</td>
</tr>
<tr>
<td>Shower Rooms§</td>
<td>3 1 2 1</td>
<td>2 1 2 1 C</td>
<td>2 1 C 1</td>
<td>C 1 C 1</td>
</tr>
<tr>
<td>Special Activity</td>
<td>2 1 2 1</td>
<td>2 1 2 1 C</td>
<td>2 1 C 1</td>
<td>C 1 C 1</td>
</tr>
<tr>
<td>Team Room</td>
<td>3 1 2 1</td>
<td>2 1 2 1 C</td>
<td>2 1 C 1</td>
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</tr>
<tr>
<td>Toilet Rooms</td>
<td>3 1 2 1</td>
<td>2 1 2 1 C</td>
<td>2 1 C 1</td>
<td>C 1 C 1</td>
</tr>
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</tr>
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<td>6s, 8e</td>
<td></td>
</tr>
<tr>
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<td></td>
</tr>
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</tr>
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<td>3s, 6e</td>
<td>12 x 52</td>
</tr>
<tr>
<td>instructional</td>
<td>3 x 30</td>
<td>2s, 6e</td>
<td>9 x 42</td>
</tr>
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<td>Rifle (one pt.)</td>
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</tr>
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<tr>
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</tr>
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</tr>
<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>Competitive and adult</td>
<td>30 x 60</td>
<td>6s, 6e</td>
<td>42 x 72</td>
</tr>
<tr>
<td>Junior High</td>
<td>30 x 50</td>
<td>6s, 6e</td>
<td>42 x 62</td>
</tr>
<tr>
<td>Wrestling (competitive)</td>
<td>24 x 24</td>
<td>5s, 5e</td>
<td>36 x 36</td>
</tr>
</tbody>
</table>

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## Suggested Indoor Surface Materials

<table>
<thead>
<tr>
<th>Rooms</th>
<th>Floors</th>
<th>Lower Walls</th>
<th>Upper Walls</th>
<th>Ceilings</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Asphalt, Rubber, or Linoleum tile</td>
<td>Concrete, Abrasive &amp; non-absorbent</td>
<td>Terrazzo, Abrasive</td>
<td>Tile, Ceramic</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Apparatus Storage rooms</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Club Room</td>
<td>2</td>
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<td>2</td>
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<tr>
<td>Corrective Room</td>
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<td>1</td>
</tr>
<tr>
<td>Custodial Room</td>
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<td>2</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Custodial Supplies</td>
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<td>2</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Drying Room (Equip.)</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Equipment Drying</td>
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<td>2</td>
<td>2</td>
<td>1</td>
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<td>Gymnasium</td>
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<td>2</td>
<td>2</td>
<td>1</td>
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<td>Health Service</td>
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<td>2</td>
<td>1</td>
</tr>
<tr>
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<td>2</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
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<td>1</td>
<td>2</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Office Suite</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
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<tr>
<td>Recreation Room</td>
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<td>1</td>
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<td>Shower Rooms</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>2</td>
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<tr>
<td>Special Activity</td>
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<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Team Room</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Toilet Rooms</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Towel Room</td>
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<td>1</td>
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<tr>
<td>Toweling Drying Room</td>
<td>3</td>
<td>2</td>
<td>1</td>
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<td></td>
</tr>
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<td>Jr. High instructional</td>
<td>42 x 74</td>
<td>6s, 8e</td>
<td>62 x 100</td>
</tr>
<tr>
<td>Jr. High interscholastic</td>
<td>50 x 84</td>
<td>6s, 8e</td>
<td>57 x 90</td>
</tr>
<tr>
<td>Sr. High interscholastic</td>
<td>50 x 84</td>
<td>6s, 8e</td>
<td>62 x 100</td>
</tr>
<tr>
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</tr>
<tr>
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<td>50 x 94</td>
<td>6s, 8e</td>
<td>62 x 110</td>
</tr>
<tr>
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<td>3s, 9e</td>
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</tr>
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<tr>
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<td></td>
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*Safety space at the side of an area is indicated by a number followed by "e" for end and "s" for side.
View to Riverfront as important as view to event.

VIEWS: SIGHT LINES AND FOCAL POINTS

DIAGRAM A

DIAGRAM B
LOCKER ROOMS

Function: Provide privacy for athletes. Serve as area for events.

Image: Clean, neat.

Primary users: Athletes; spectators; visiting opponents.

Activities: Dressing, changing, showers, towel storage, toilets, facilities.

Time of use: Before and after events.

Furniture/equipment: Lockers, benches, restroom facilities, mirrors, soap dispensers, showers, towel bars, sinks.

Thermal: Provide comfort for athletes; consider moisture, humidity; ventilation; no air drafts.

Acoustic: Provide privacy.

Lighting: Provide adequate illumination; avoid electrical hazards.

Views: No direct views.

Adjacent spaces: Arena floor; Laundry Room.

Primary considerations: Accessibility; relationship to adjacent spaces; comfort.

Area: 2,000 sq. ft. (2,000 sq. ft.)
PRIVATE DRESSING ROOMS

function: Serve performer for large concert events; Serve the event.

image: Clean, neat and nice

primary users: Rock stars; very important performers

activities: Drying, brushing; dressing; grooming; waiting; using toilet facilities

time of use: Before and after events

furniture/equipment: Restroom facilities, mirrors, shower, soap dispensers, towel bars, sink, shelving

thermal: Provide comfort for athletes; consider moisture, humidity, ventilation

acoustic: Provide privacy from spectators

lighting: Provide sufficient lighting and make-up lighting on mirrors

views: Not applicable

adjacent spaces: Arena floor, vehicle entrance

primary considerations: Accessibility, privacy

area: 60' x 100' = 600 sq. ft.
LOCKER ROOM PROTOTYPES:

LOCKER ROOMS LOCATED ON COURT LEVEL OF STADIUM.
<table>
<thead>
<tr>
<th>ADAPTATION</th>
<th>SIZE OF LOCKERS AND BATTERY ARRANGEMENT</th>
<th>ARRANGEMENT OF LOCKERS</th>
<th>OVERALL HEIGHT WITH 8' BASE</th>
<th>AREA REQUIRED INCLUDES 4&quot; FOR VENTILATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>6 STORAGE 9&quot; x 12&quot; x 24&quot;&lt;br&gt;1 DRESSING 12&quot; x 12&quot; x 48&quot;</td>
<td>A, B</td>
<td>60&quot;</td>
<td>A [152 SQ. FT.</td>
</tr>
<tr>
<td>B</td>
<td>6 STORAGE 9&quot; x 12&quot; x 24&quot;&lt;br&gt;1 DRESSING 12&quot; x 12&quot; x 36&quot;</td>
<td>A, B</td>
<td>68&quot;</td>
<td>B [115 SQ. FT.</td>
</tr>
<tr>
<td></td>
<td>6 STORAGE 12&quot; x 12&quot; x 12&quot;&lt;br&gt;1 DRESSING 12&quot; x 12&quot; x 48&quot;</td>
<td></td>
<td>56&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8 STORAGE 12&quot; x 12&quot; x 12&quot;&lt;br&gt;2 DRESSING 12&quot; x 12&quot; x 36&quot;</td>
<td></td>
<td>80&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8 STORAGE 9&quot; x 12&quot; x 24&quot;&lt;br&gt;1 DRESSING 12&quot; x 12&quot; x 48&quot;</td>
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Handicapped Planning is a must consideration. As an integral part of my entry and egress stadium events. One should consider traffic flow patterns, vehicular/pedestrian conflicts. Main reason for handicapped ramps over traffic flow. Handicapped parking close to ramps for wheelchair accessibility. Handicap Design.

All public restrooms, drinking fountains, concession stands, and other public spaces such as spectator seating shall consider wheelchair accessibility. In designing stadiums for the municipal use all aspects of design should correlate for the adherence of easy exit. Fire codes as well is a primary issue for stadiums.
HOW TO ENTER STADIUM.

CIRCULATION STUDY

Stadium: Locating Circulation in Floor Plan.

RIVER CITY STADIUM
EVANSVILLE, INDIANA
RIVER CITY STADIUM
EVANSVILLE, INDIANA
EXTERIOR PERSPECTIVE
DETAILS

TYPICAL SEATING

TYPICAL CEILING DETAIL
BUILDING
TYPE
STUDY

RIVER CITY STADIUM
EVANSVILLE, INDIANA
Robarts Municipal Stadium

Robarts Stadium offers the convention and event planner a multitude of options. Located on Evansville's east side, the arena is minutes from major hotels, shopping, and dining.

The site of many concerts, huge entertainment events, rodeos and large exhibits, the facility can accommodate 11,896 people in permanent seats and up to 1,050 floor seats for a maximum capacity of 12,716. Maximum building capacity is 13,000 people. This versatile building site has 44,000 square feet of exhibit space accommodating 190 booths.

Robarts Stadium also has five dressing rooms with private bathrooms, portable staging, special lighting, and an independent auxiliary power generator. With acres of parking available, Robarts Stadium can easily accommodate up to 3,000 cars.

Specifications

- **Floor Area:** 44,000 sq. ft.
- **Roof Area:** Unlimited
- **Water:** 8 gals in most areas
- **Electricity:** Up to 440 volt service, auxiliary power generator
- **Lighting:** Covered, drive-in dock, public address system
- **Dressing Rooms:** 5 with private bathrooms
- **Stage:** Portable staging available, dance floor available
- **Parking:** Available, 3,000 cars

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**Rivercity Stadium**

**Evansville, Indiana**
Open space seating on riverfront development will be a primary gathering area for bringing life to the waterfront. Park benches and lots of open green space give the aesthetic value needed for this area. This will be first choice seats. Many people gather in this area for the unlimited hydroplane races and the July 4th fireworks show, many events take place on the Evansville riverfront.
An open green space is made available to allow for sporting events which are too large to fit in the floor space provided inside the stadium. This green space is conveniently located near the river bank and adjacent to the restaurant. This space provide for fun and activity.
Football: Regular, Six-Man, Soccer, Rugby; Lacrosse and Handball

FOOTBALL
National Football League (NFL)
National Collegiate Athletic Association (NCAA) = Football Rules

SIX-MAN FOOTBALL

TEAM HANDBALL FIELD

SOCCER
American Soccer League
North American Soccer League
NCAA = Soccer Rules

RIVER CITY STADIUM
EVANSVILLE, INDIANA
CHECK LIST FOR DESIGNING RIVER CITY STADIUM.

1. The stadium has been planned to meet the total requirements of the program as well as the special needs of those who are to be served.

2. The area and facilities planned make possible the programs that serve the interest and needs of all the people.

3. All interested persons and organizations concerned with the stadium have had an opportunity to share in its planning.

4. The stadium will fulfill the maximum demands of the program. The program has not been curtailed to fit the stadium.

5. The stadium has been functionally planned to meet the present and anticipated needs of specific programs, situations, and publics.

6. Future additions are included in present plans to permit economy of construction.

7. Storage areas for indoor and outdoor equipment are of adequate size. They are adjacent to the arena.

8. All passageways are free of obstruction; fixtures are recessed.

9. Facilities for health services and the first-aid and emergency-isolation rooms are suitably interrelated.

10. Locker rooms are arranged for ease of supervision.
11. Special needs of the physically handicapped are met, including a ramp into the building at a major entrance.

12. All dead space is used.

13. The storage rooms are accessible to the play area.

14. Workrooms, conference rooms, and staff and administrative offices are interrelated.

15. Shower and dressing facilities are provided for professional staff members and are conveniently located.

16. This stadium is a part of a well-integrated master plan.

17. Dressing space between locker rows is adjusted to the size and age of students.

18. Drinking fountains are conveniently placed in locker room areas or immediately adjacent thereto.

19. A well-defined program for laundering and cleaning towels, uniforms, and equipment is included in the plan.

20. Noncorrosive metal is used in dressing, drying, and shower areas except for enameled lockers.

21. Basement rooms, undesirable for dressing, drying, and showering, are not planned for those purposes.

22. Spectator seating (permanent) in areas that are basically instructional is kept at a minimum. Roll away bleachers are used primarily. Balcony seating is considered as a possibility.
23. The space under the stairs is used for storage.

24. Staff dressing facilities are provided. These facilities may also serve game officials.

25. Space and area relationships are important. They have been carefully considered.

26. In the planning, consideration has been given to the need for adequate recreational areas and facilities, both near and distant from the homes of people.

27. Plans recognize the primary function of recreation as being enrichment of learning through creative self-expression, self-enhancement, and the achievement of self-potential.

28. Adequate locker and dressing spaces are provided.

29. The design of dressing, drying, and shower areas reduces foot traffic to a minimum and establishes clean, dry aisles for bare feet.

30. Toilet facilities are adequate in number. They are located to serve all groups for which provisions are made.

31. Toilets used by large groups have circulating (in and out) entrances and exits.

32. A keying design suited to administrative and instructional needs is planned.
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