2016-2017 HS Design Competition: Program

The Challenge: The History of Sin [City] – A Local History Museum.

The AIA HIGH SCHOOL DESIGN COMPETITION with three parts

1. Master Plan – Whole Class or School Participation
2. Individual Architectural/Drafting Design
3. Individual Visual Arts Design – Exploration through Alternate Media

Project Description:

Design a museum to showcase the local history of the city, on a site once occupied by one of the strip’s original resorts: The Riviera Hotel and Casino.

Las Vegas, touted by many as the “Entertainment Capital of the World,” consistently ranks as one of the world’s most visited tourist destinations. Known to periodically shift priority between gaming, entertainment and conventions, Las Vegas always maintains a primary focus on each. In the recent years, Entertainment Corridors have been developed in the metropolitan area—first with The Linq, terminating at the “High Roller” Observation Wheel; and most recently, with The Park, which terminates at MGM’s T-Mobile Arena.

Las Vegas’ constant state of reinvention comes at a cost though, with history often falling victim to the ever-changing landscape. The 2016-17 design challenge is conducted in response to this issue, and tasks students with the design of a Local History Museum on a site vacated by two of Las Vegas’ iconic resorts—The Landmark Hotel, and the Riviera Hotel and Casino. The behemoth site is to be developed into a Cultural Entertainment Pedestrian Corridor on the north end of the strip—pulling in tourists and visitors from Las Vegas Boulevard, with its terminus at the Las Vegas Convention Center.

Students are encouraged to research architects/architectural projects to serve as inspiration for their own design in a way that is appropriate to this challenge. Students are encouraged to borrow their selected
architect or design firm’s aesthetic style, drawing techniques, floor and spatial arrangements and interpret them into their own designs.

Design Guidelines:
- Conduct a cohesive analysis of the surrounding area to determine the context (current and historical) within which you will be designing.
- Create a network of safe and accessible pedestrian paths for the user group, and a viable and functional connection from Las Vegas Boulevard to the Las Vegas Convention Center facilities.
- Design public and semi-private areas that provide opportunities for people to gather and interact.
- Assume existing roads, paths, parking and structures within the property line will be wiped clean. Square footage for new parking, in the form of a parking structure, should be represented on site per Clark County Unified Development Code “Title 30” Requirements.
- Create building elevations that seek to provide visual variety through unique architectural features.
- Create a sequence of entertainment and interest that naturally pulls people into and throughout the site.
- Remember to consider Sustainability in your thinking and design.

Site:

2901 S Las Vegas Boulevard
Las Vegas, Nevada 89109
Riviera Site: 26.35 Acres
Landmark Site (LVCC Gold Lots): 21.04 Acres
Total Site: **47.39 Acres**

Master Plan Requirements:

The 47.39-acre property is a combination of several separate parcels. As a class, develop the site into a Cultural Entertainment Pedestrian Corridor that provides the following:

- Provide a (1) square acre plot of land for the development of the Museum along Las Vegas Boulevard. Plot of land shall be within 400’-0” of Las Vegas Boulevard, and should have access to a site entry to allow for loading/unloading and deliveries.
- Provide 1,000,000 sf total of Convention and Meeting space along the Corridor.
- Provide 300,000 sf total of Retail or Commercial space along the Corridor.
- Provide entertainment features or elements as deemed appropriate throughout the Corridor to naturally pull individuals through the site.
- Calculate (rudimentary) parking requirements per Title 30 (See appendix) and provide the appropriate square footage allowance for a parking structure somewhere on the site.

- Required parking counts may be reduced by 30% per Title 30 Allowances for certain Strip properties. (Calculate the parking requirements and multiply by .7 (70%) to get your new parking requirement).
- **Hint:** Use an allotment of 350 sf per required parking space to determine the required square footage of a parking structure. For example, 100 parking spaces would require a structure of 35,000 sf. This includes parking spaces, columns, travel lanes, etc.
• Parking structure height should not exceed the highest structure on the site.
• Note the square footage, number of levels, and number of spaces in your parking structure on the site plan. Include parking calculations on your site plan.
• DO NOT design or lay out the interior of the parking structure. Square footage allowances will suffice.

• Create appropriate entry sequences into and throughout the site. Be mindful that this should be a Pedestrian Corridor, but that the buildings and structures on site will require some form of vehicular access. Try to utilize a portion of the existing curb cuts / site entries where possible, but justifiable new entries may also be proposed.

• As a class, a comprehensive design for the entire site should be prepared, with a typical location for the Museum building. However, if a student is compelled to locate their individual building contrary to the location proposed by the class, the student has the option to do so—but must also propose a redesign to the portion of the site that extends from Las Vegas Boulevard to 400'-0” east of Las Vegas Boulevard.

*Hint: Don’t let the scale of the site or the programmatic elements intimidate you. Start with the large moves, and then begin to scale down as necessary.

*Hint: Consider “unique” or “out of the box” Meeting and Convention spaces along the Corridor.

In addition to the mentors that will be periodically visiting the class, we will be engaging special guests to help provide insight into the “look and feel” of the pedestrian corridor.

Examples:
Throughout the world, there are several good examples of this type of development. In Las Vegas alone, there are two good examples that should be analyzed:

• The Linq – Caesars Entertainment
• The Park – MGM Resorts International

Submittal Requirements – Master Plan:

The Master Plan shall show the layout of the entire site. Locate the major elements listed in the ‘Master Plan Requirements’ section of the program. This plan should be designed as a class. The best designed master plan will be awarded the Dale S. Scheideman Award (prize is given to the school).

Master Plan submittals are to consist of 1-2 presentation boards, mounted to foam core (approximately ¼” thick), 20”x30” each board. Program elements should be color coded. Include site analyses and other pertinent information such as concept sketches, perspectives, photographs of schematic models, and research completed to help you develop your site. Include an example of a landscape design for a portion of the site to properly represent the “look and feel” of the site. Provide only the following information located on the lower right hand corner of the board(s):

• Name of High School
• AIA High School Design Contest 2016-2017
**Individual Architectural / Drafting Requirements:**

**Individual Criteria (Museum Building):**

The location of the individual lot shall be determined by each class. In the development of the Museum, students are to provide the following:

- Primary Exhibit Space – 10,500 sf
- Secondary Exhibit Space – 1,000 sf
- Lobby / Rotating Special Exhibit Gallery – 1,750 sf
- Gift Shop – 1,000 sf (700 sf Gift Shop + 300 sf Storage)
- Classroom / Conference Room – 500 sf
- Multipurpose Room / Conference Room / Auditorium – 1,500 sf
- (5) Offices at 150 sf each – 750 sf total
- Open Office Space – 250 sf (Adjacent to Offices)
- Resource Room – 500 sf (Adjacent to Open Office)
- Library – 600 sf (Adjacent to Open Office)
- Café with connection to the outdoor Corridor – 2,000 sf (1,500 sf Interior + 500 sf Exterior)
- Catering Kitchen – 2,000 sf
- Archive Storage – 1,300 sf (Nearby Primary Exhibit Space)
- Archive Storage – 750 sf (Nearby Secondary Exhibit Space)
- (1) Restroom Block (Men – 120 sf + Women – 180 sf + Janitor – 120sf) per level.
  - **Hint:** Students do not need to develop and lay out the Restroom interiors. Simply provide the square footages as listed above.
- BOH (Back of House) Spaces:
  - IT Room – 150 sf
  - Electrical Room – 400 sf
  - Mechanical Room – 500 sf
  - Loading Dock (Ramp and Dock) – 800 sf
- Stairs and Elevators as required.
- Additional spaces as student deems appropriate.
- Museum must include access to open space. Students are to develop the remaining portion of the (1) acre parcel and are to insure adequate and thoughtful integration into the overall site plan.

**Hint:**

- Try creating fictional exhibits set to occupy the galleries. Consider what that client would need and request for the spaces that you are designing.
- Consider specific spatial adjacencies and relationships, and how this building can connect to the Corridor. What value does this building offer to the site and the community?
- Students are encouraged to be thinking of ideas, determining concepts, and developing their own project in conjunction with the site development process.
Submittal Requirements - Individual Architectural/Drafting Design

An individual student is to design a Local History Museum on a (1) acre plot of land as located by the class. The cover sheet of the submittal must show either the master plan with the developed space clearly highlighted, or a rendering of the project. Individual student submittals will be judged for: Best of School Award, Merit Award, Honor Award and Honorable Mention. The following drawings are required:

- **Site Plan / Master Plan** – The developed space must be clearly highlighted. This should be the first page of the drawings, or the second page if the student chooses to include a rendering on the cover. If the student chooses an alternate location for his or her building, the redesign of the west end of the site should be clearly shown on this drawing.
- **Floor Plan(s)** – Provide a floor plan for each level. Ensure the student’s site design is clearly illustrated and noted on the ground level floor plan.
- **Interior Elevations** – Student to select at least one room/area that best represents their innovative design, and provide elevations of that space.
- **Building Elevations** – Building elevations capturing the student’s innovative design approach to entry as it relates to the site, and how the user experiences arrival / departure. The building façades should also enhance and create visual variety through its unique architectural features and use of materials.
- **Building Sections** – Building sections (one minimum) showing spatial variation and the hierarchies of the various programmatic elements.
- **Perspective Drawing** – One minimum (Revit, AutoCAD, Hand-Drawn, etc. are all acceptable). Perspective drawings can by of an exterior view or interior view. (Hint: Quality over Quantity. Rather than taking several undeveloped views of a model, consider taking one or two exceptional views with a higher degree of development.)
- **Design Statement** – Write one short paragraph describing what you are trying to achieve in your design and how your concept ties to a selected architect / firm’s ideas (maximum of 150 words).
- **Highly Recommended** – Include a sheet which illustrates any site or building analyses, concept sketches, photographs of schematic models, and research completed to help you develop your site. **HINT**: This sheet has, in past years, been very helpful to judges, as it helps describe the process of your design (which is something that those who continue on to Architecture programs in college will have to do).
- **Optional** – Students may also include additional drawings that help describe / explain their project. These may include additional sketches, details, landscape plan, renderings / perspectives, etc.

*Use spell check and have a mentor, parent, and/or teacher read your design statement!!!

*Be considerate of the layout of sheets, text size, etc. Once complete and prior to submitting, check your project and sheet set one more time to ensure no sheets are missing.
Individual student submittals are to consist of original plots, sized at 18” x 24” or 24” x 36”. All work presented and submitted must be completed by the individual student. Projects may be worked on in class, at home or as determined by the teacher. Bind the sheets along the left edge, either by stapling or coil binding. Do not tape, fold together or paper clip the sheets. Provide only the following information on the title block located on the lower right hand corner of all sheets:

- Student initials (do not include names)
- Student ID number
- Name of High School
- AIA High School Design Contest 2016-2017

Judging Criteria for Individual Architectural/Drafting Design:
Awards will be made based on the merits of your design, the validity of the programming solution, and completeness of drawings. The design statement should inform the judges about your design intent so that they may judge how well you have met your design goals. The top entries will be those whose architectural aesthetics are innovative and enhance the architectural and community based needs of the surrounding area.

Technical Approach
The top entries will be those that accurately graphically represent their design ideas through plans, enlarged drawings, sketches, sections etc. The top entries will meet all the requirements listed under the 'Individual Student Submittal' section of this program and should be graphically represented in a clear and neat manner so that it is easy to read and understand.

Use your mentors. Have them show you the many great examples that are out there to spur imagination. Let them help you develop your designs and drawings throughout the year. Be open-minded to their suggestions and be willing to experiment.
**Individual Visual Arts Design:**

This portion of the competition allows for students to explore and address the design challenge using alternate media.

**Submittal Requirements: Individual Visual Arts Design**

Students may submit work in any/each of three categories:

1. **Drawing Media:** examples include pencil, pen, paint, pastel, chalk, watercolor, etc.

   ![Drawing example 1](http://en.wikipedia.org/wiki/Architectural_drawing#mediaviewer/File:Y-blokken_som_plassvegg.jpg)

   ![Drawing example 2](http://en.wikipedia.org/wiki/Architectural_drawing#mediaviewer/File:Campus-SKOLKOVO.jpg)

2. **Electronic Media:** examples digital photography (and photo editing), graphic art software (ex. Adobe Illustrator), 3D computer graphics/modeling.

   ![Electronic Media example 1](http://en.wikipedia.org/wiki/Architectural_drawing#mediaviewer/File:Campus-SKOLKOVO.jpg)

3. **Sculpture/Model Media:** examples include cardboard, museum board, foam core, wood, etc.

   ![Sculpture/Model example 1](http://en.wikipedia.org/wiki/Architectural_model)

Each category submission requires an artist statement, which must:

- Include a title for the work
- Explain the architectural intentions of the envisioned design,
- Evaluate the work’s response to influences inherent in the subject,
- Justify the application of the given media, techniques, and processes in the work.

The artist statement shall be part of the presentation and must be permanently affixed or integrated into/onto the artwork. An additional copy of the statement shall be included with the entry form. The statement for this option of conceptual submittal is not limited to 150 words.
Flat media may be no larger than 20"x30", and it must be mounted to foam core board (approx. ¼" thick). Three-dimensional work may not exceed 2'-0" ft³, and it must not weigh more than 20 lbs.

*Please Note:* Duplication and placing of Revit views taken from a student’s “Individual Architectural/Drafting Design” submission on a presentation board will not be accepted. Visual Arts submissions in Electronic Media require a higher level of finish (entourage, post production, allure) to graphically convey the design.

**Judging Criteria for Individual Visual Arts:**
Works will be evaluated on technical, practical, and theoretical merits – on a scale of 1 to 10 – with ten being the highest value. Evaluation will include the following:

- The work demonstrates a creative use of media and explanation thereof.
- The work demonstrates technical skill in the application(s) of media.
- The work demonstrates a thoughtful approach to envisioning how architectural spaces can enhance community.
- The work demonstrates an understanding of real-world factors that influence design decisions.
- The work demonstrates an ability to communicate abstractions of what is there and what could be… the signifier and the signified…
ALL SUBMISSIONS Due Dates

Entries must be accompanied by the competition entry form and a disk with PDF versions of the work.

Due Dates:
2017 April 7 Submit Participation Form (faxed or delivered)
2017 April 7 Submit Projects to:
   Attn: Ryan Sisti
   Gensler
   3883 Howard Hughes Parkway, Suite 650
   Las Vegas, NV 89169  p.702.893.2800
2017 April 10 Judging
2017 April 19 Awards Ceremony - 5:30PM
   Architecture Studies Library
   UNLV School of Architecture
   Brussels Street, UNLV Campus
   Las Vegas, NV

AIA Las Vegas Awards Ceremony

Award recipients from each of the three competition areas will be announced at the AIA Las Vegas Awards Ceremony being held on Wednesday, April 19th at 5:30PM in the Architecture Studies Library of the UNLV School of Architecture, located on Brussels Street on the UNLV Campus. Students, their parents and friends, instructors and all interested persons are invited to attend.

The event will begin with a reception at 5:30PM, and all student work will be on display. The program will begin at 6:30PM. Awards and cash prizes will be given in the following categories:

   Best of School
   Honorable Mention
   Merit Award
   Honor Award
   Individual Visual Arts Award

Be creative. Have fun.
2016-2017 HS Design Competition: Participation Form

Please print legibly or type all information

Student Name: __________________________________________________________

Student ID Number: ______________________________________________________

School: _________________________________________________________________

Instructors Name: _________________________________________________________

I will be attending the awards program on April 19, 2017:

_______ Yes ______ No

_______ People will be attending the awards program. Students are allowed to bring (2) additional guests to the reception for a maximum of (3) attendees.

I plan on attending UNLV in 2017-2018:

_______ Yes ______ No ______ Other College or University

I have included a disk with PDF versions of the work

_______ Yes

Design Statement: Additional sheets may be added to the design statement **(150 word maximum)**.