

Music Buildings

THE PRACTICE OF BNIM

bnim

ABOUT BNIM

BNIM is an innovative leader in designing high performance environments. BNIM's instrumental development of the USGBC, LEED, and the Living Building concept, combined with projects, methods, and research, shaped the direction of the sustainable movement. Through this involvement, the firm has redefined design excellence to elevate human experience together with aesthetics and building performance. In practice, this multifaceted approach to design excellence has yielded national acclaim, including the AIA National Architecture Firm Award, and consistent design recognition nationally and internationally. BNIM is **Building Positive**, a notion that describes how our practice leverages its collective capacity for design thinking to solve issues at every scale in a way that is focused on building the positive attributes of community and the built environment. Through an integrated process of collaborative discovery, BNIM creates transformative, living designs that lead to vital and healthy organizations and communities.

Music Buildings

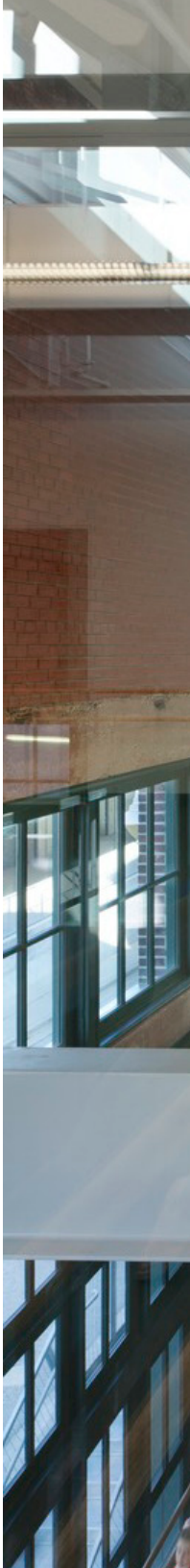
THE PRACTICE OF BNIM

The Arts Enrich Human Vitality

Arts education and engagement are key to the development of a culturally rich and diverse society. Many have explored and proven the significant role that the arts play in human development. In her study, Judith Burton with Columbia University demonstrated that subjects such as mathematics, science, and language require complex cognitive and creative processes that are typical of learning in the arts¹. A separate study showed that music training and performance provide a strong base for characteristics attributed to success in many areas of individual growth, including communication, enthusiasm, style, and presentation². Furthermore, yet another study found that association with the arts improves motor skills and emotional balance³.

This is a small sampling of research that shows a strong connection between the arts and mental, physical, and emotional development, yet funding for the arts is typically the first to be cut from school, local, and federal budgets. Many arts projects—museums, performance halls, and theaters—are subject to lengthy fundraising efforts and largely dependent upon private donations. Although the arts offer tangible benefits to cities that cultivate thriving creative communities, it is often a small contingency of dedicated patrons who perpetuate the arts' vitality.

The physical environment plays a significant role in the success of programs for observing, teaching, and learning the arts. Beyond creating space for specific and evolving needs, facilities can enhance the success of these programs through improved human health, productivity, and other measurable metrics by adhering to certain tenets of a design approach that focuses on human vitality. At BNIM, we refer to this as human purposed design.





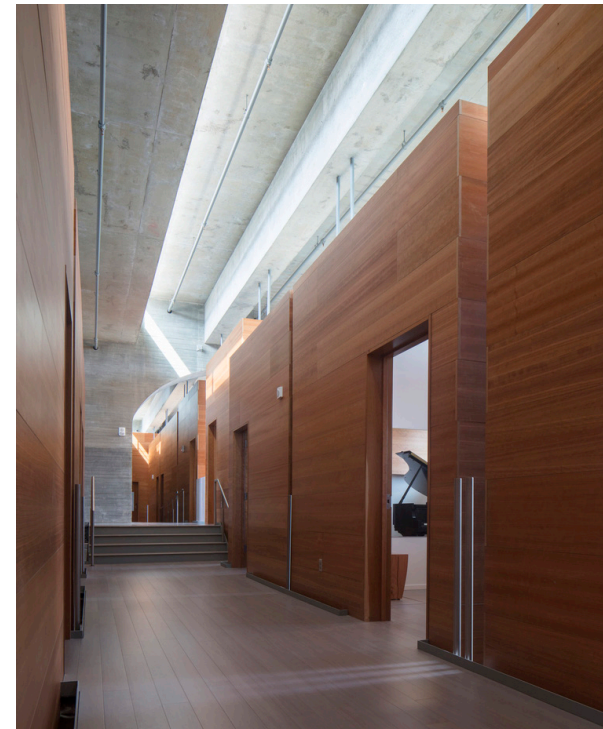
Design Excellence/Responsible Design

We approach each project in a manner to responsibly create an experience that provides for our clients' programmatic needs and enhances the human spirit. We proactively seek to understand our clients' metrics for success and work collaboratively to find solutions that will assist in enhancing and measuring those goals. The University of Iowa School of Art and Art History, a collaboration between BNIM and Steven Holl Architects, noted that the building's design has inspired many others to create pieces of art, continuing the creation of beauty. At the Todd Bolender Center for Dance and Creativity (*left*), BNIM repurposed a dilapidated powerhouse into a vibrant rehearsal and performance space for aspiring dancers. The year following the new building's grand opening, the Kansas City Ballet saw an increase in students and ticket sales, and the company was able to recruit top talent from across the country.



High Performance Integrated Design

BNIM's work at the University of Missouri School of Music and the Princeton University Lewis Center for the Arts (with Steven Holl Architects) pulled the individual practice and performance spaces apart into a series of "boxes," which enhanced the acoustic isolation between each area (*below*). Also, the Kauffman Center for Performing Arts boasts near-perfect acoustics, promising an exceptional experience for performers and audiences alike. In the Bloch Galleries at the Nelson-Atkins Museum of Art (*left*), BNIM collaborated with specialty lighting designers and museum staff to create unique environments for extremely delicate works of art, with systems that maintain a constant temperature and lighting that dims when sensors do not detect movement in the gallery.





Using the Arts as Pedagogy

As architects and designers, artistic and visual expression is engrained in our design process. We lend the highest regard and recognize the ability of the arts to elevate critical and creative thought, enhance perception, and cultivate imaginative experiences. The University of Iowa Museum of Art (*above*) is targeted to establish a new agenda for higher education museums. The design creates an experience and facility that enhances the student connection with the arts, allowing them to encounter artwork and historic artifacts in a tactile manner. Other universities across the country have rebranded to become experimental and research-oriented, rather than employing traditional teaching methods. This focus provides a research lab environment, allowing patrons to interact with emerging arts, mediums, methods, and performance arts, expanding their outreach and patron support.

The merging of space and art is a powerful confluence in which buildings may be utilized as vehicles of artistic expression. We seek to achieve a harmonious balance and perception of art—physical, musical, performance—within the built environment, wherein the human experience is key.

Lewis Center for the Arts

PRINCETON UNIVERSITY, PRINCETON, NEW JERSEY

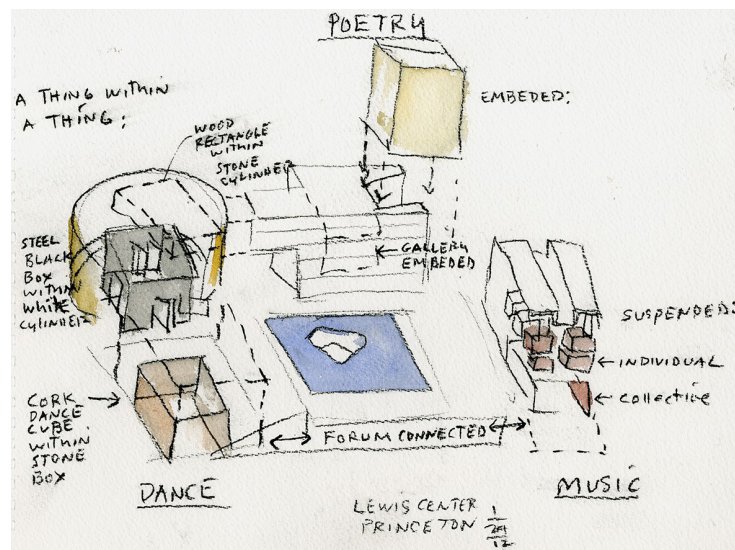


Princeton University's Lewis Center for the Arts is an academic program comprised of Writing, Dance, Theater, Visual Arts, and the Princeton Atelier, a program that brings together artists from different disciplines to collaborate for one dedicated semester. The new Lewis Center for the Arts facility is a physical representation of these creative forces, dedicated to the belief that the arts lift the human spirit.

The 139,000 square foot complex consists of three contemporary buildings designed around a courtyard. The buildings will share a common reception area and will house several public spaces, including an art gallery, a black box theater, a dance studio and a music rehearsal room. The complex will also house faculty and administrative offices and a box office.

With Steven Holl Architects

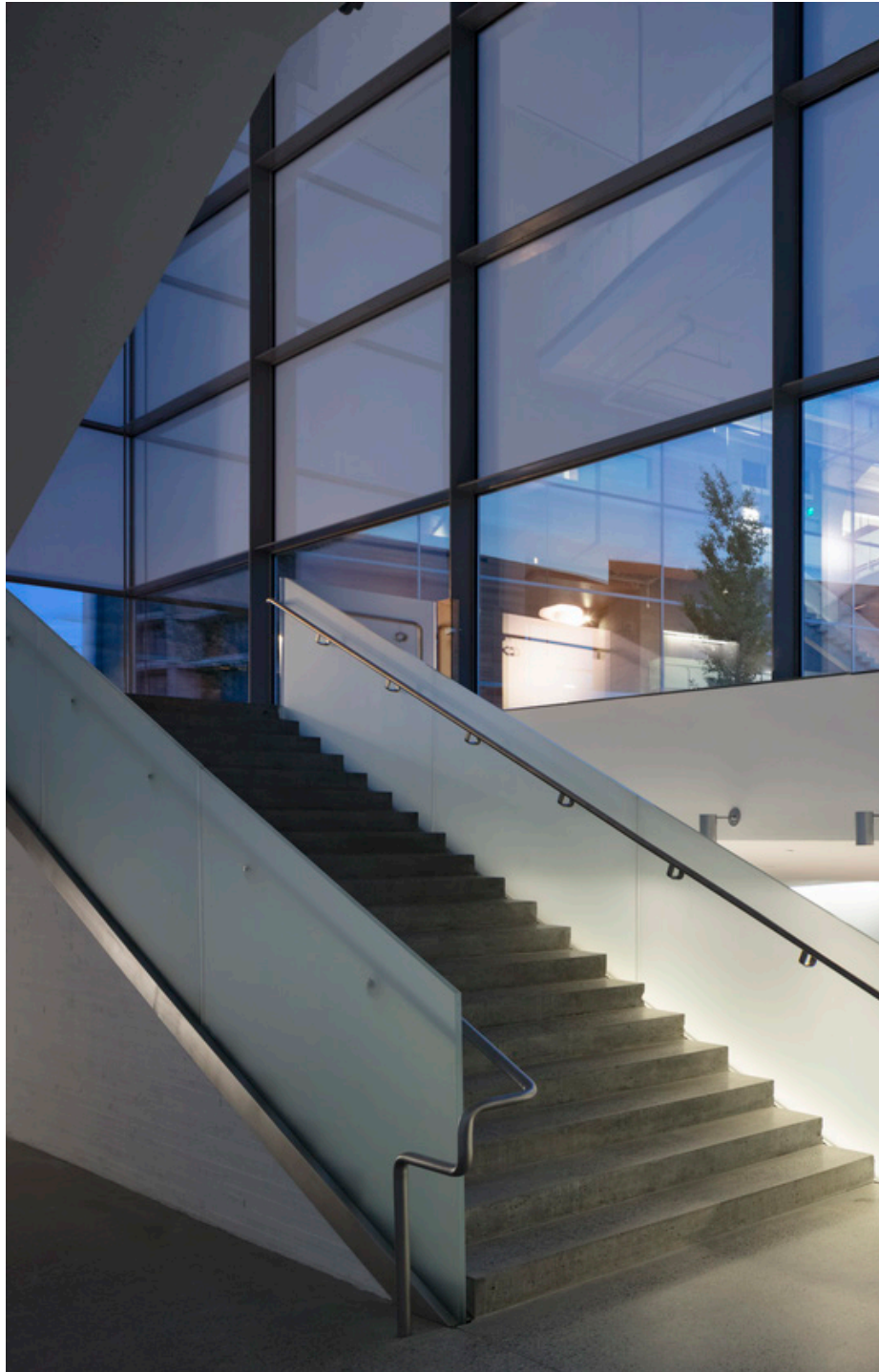
139,000 SF
Completion 2017



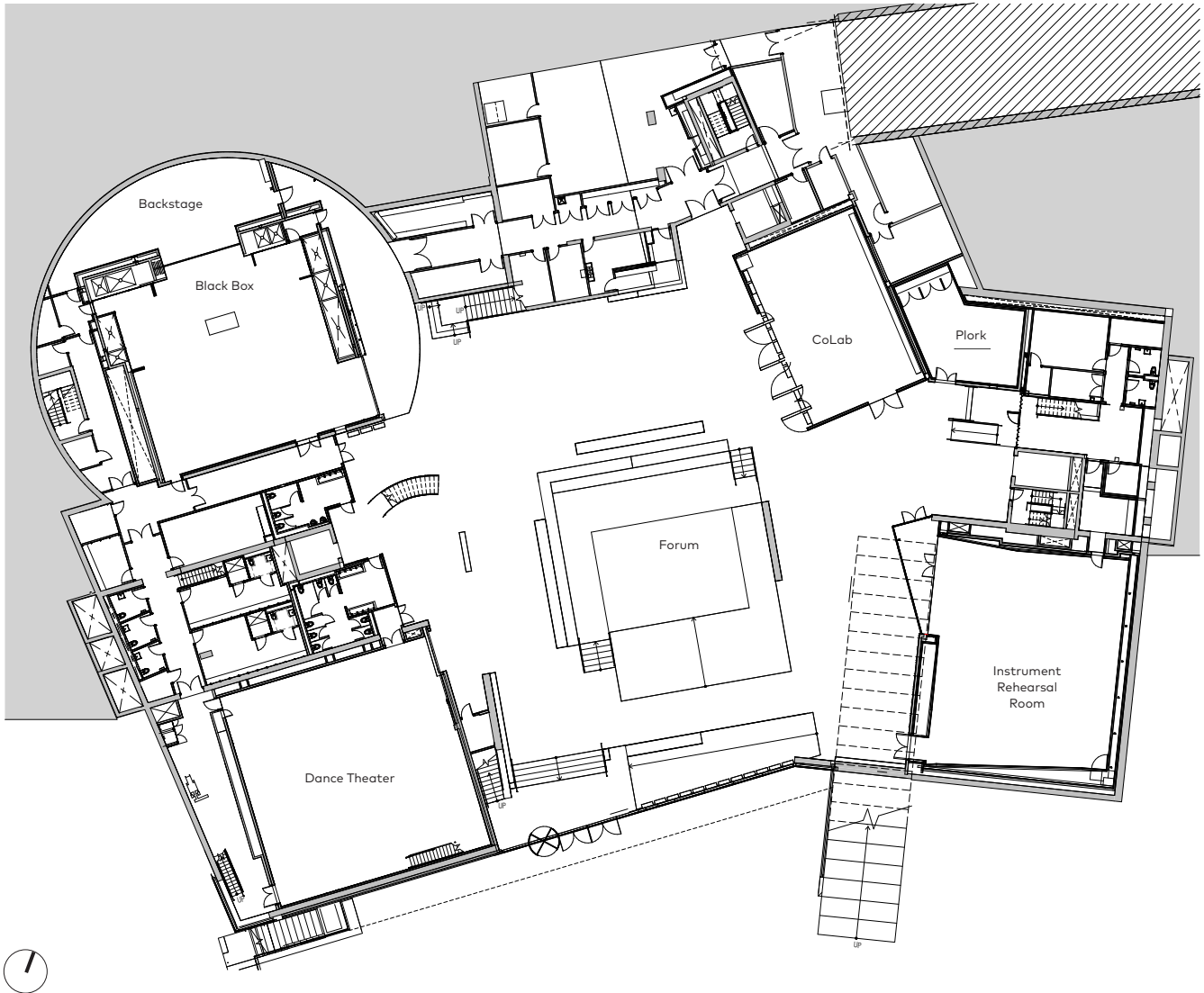




The project has an energy goal of utilizing 50 percent less energy than required by current energy codes. Princeton's policy is not to pursue LEED, but to go beyond LEED and focus on maximum carbon reduction throughout the design, construction and operation of the facility. To achieve this goal integrated sustainable features are being considered, including geothermal heating and cooling, green roofs, improved exterior envelope performance, displacement ventilation system; mixed mode ventilation system; radiant heating and cooling, and passive design strategies of building orientation, shading, natural light, natural ventilation and thermal mass. In furthering environmental stewardship goals, sustainable material selection and construction management practices also will be key components of the building project.

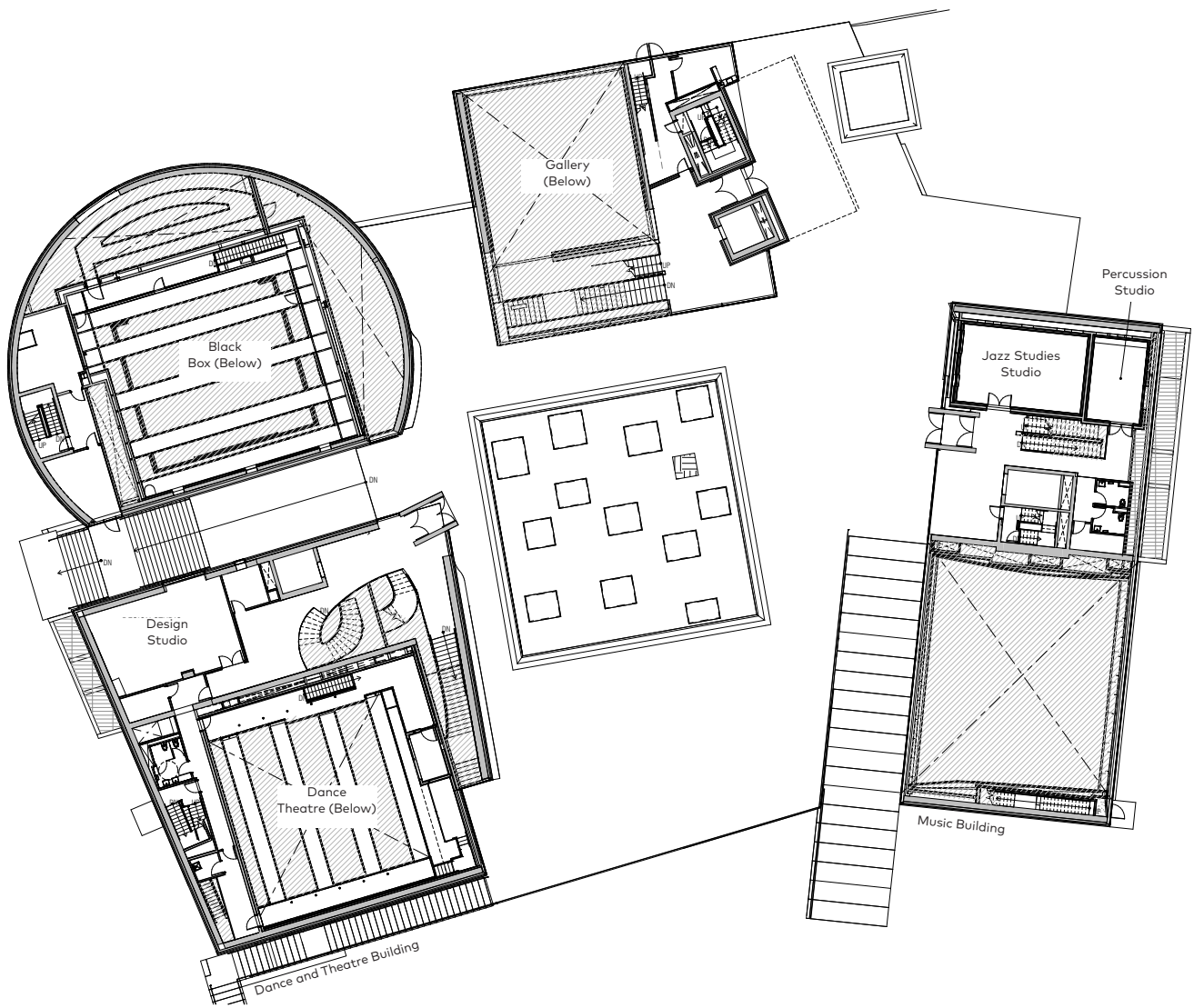




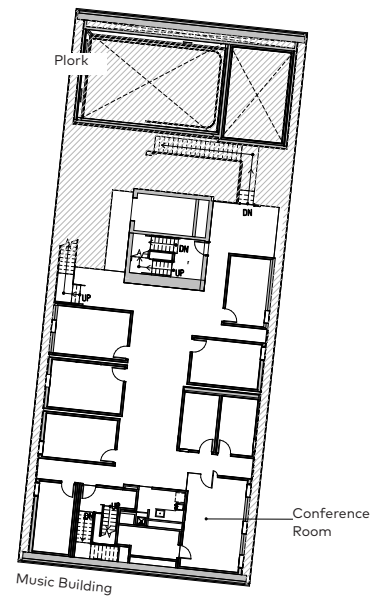
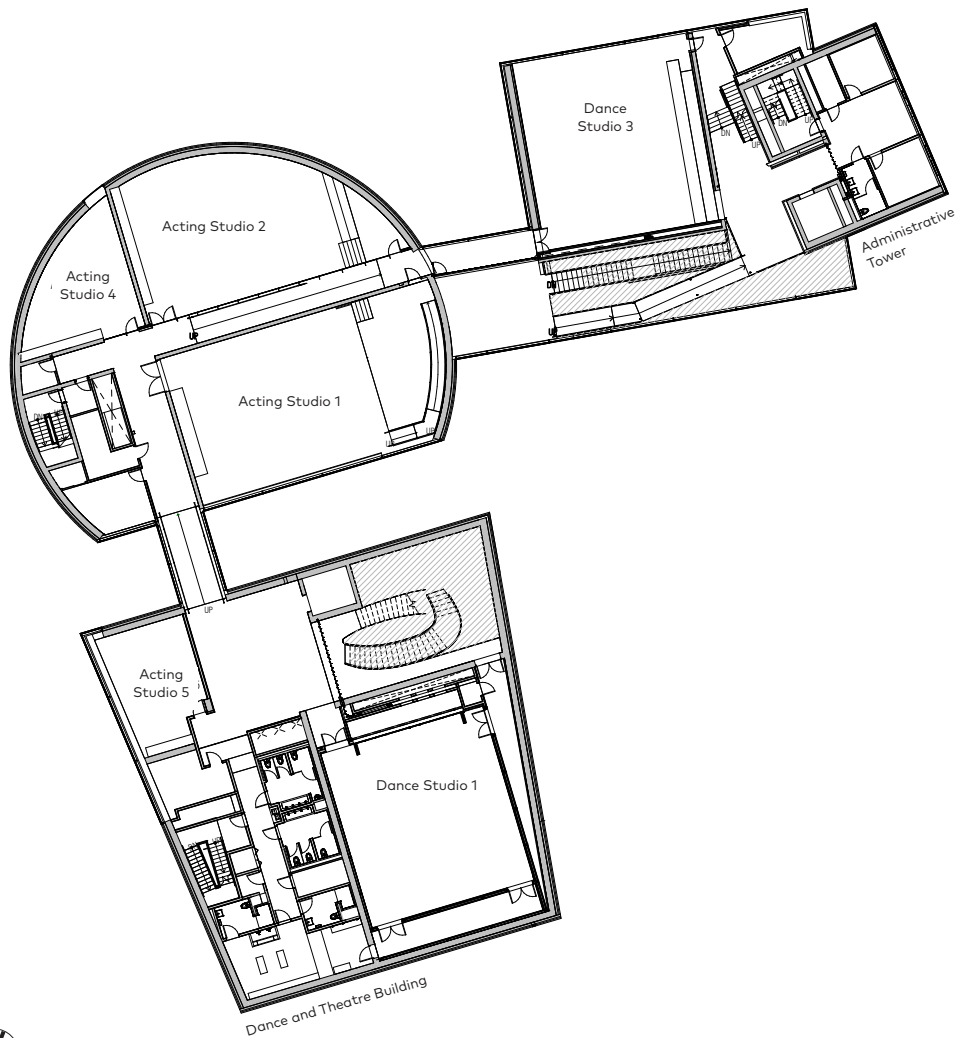


0 16'

FORUM LEVEL

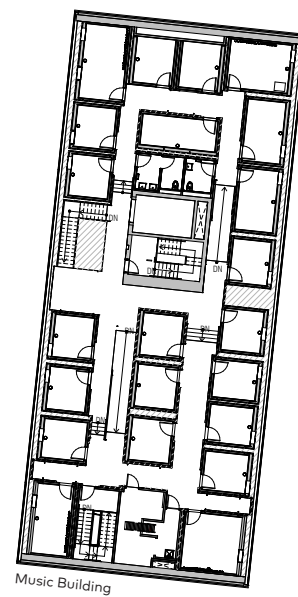
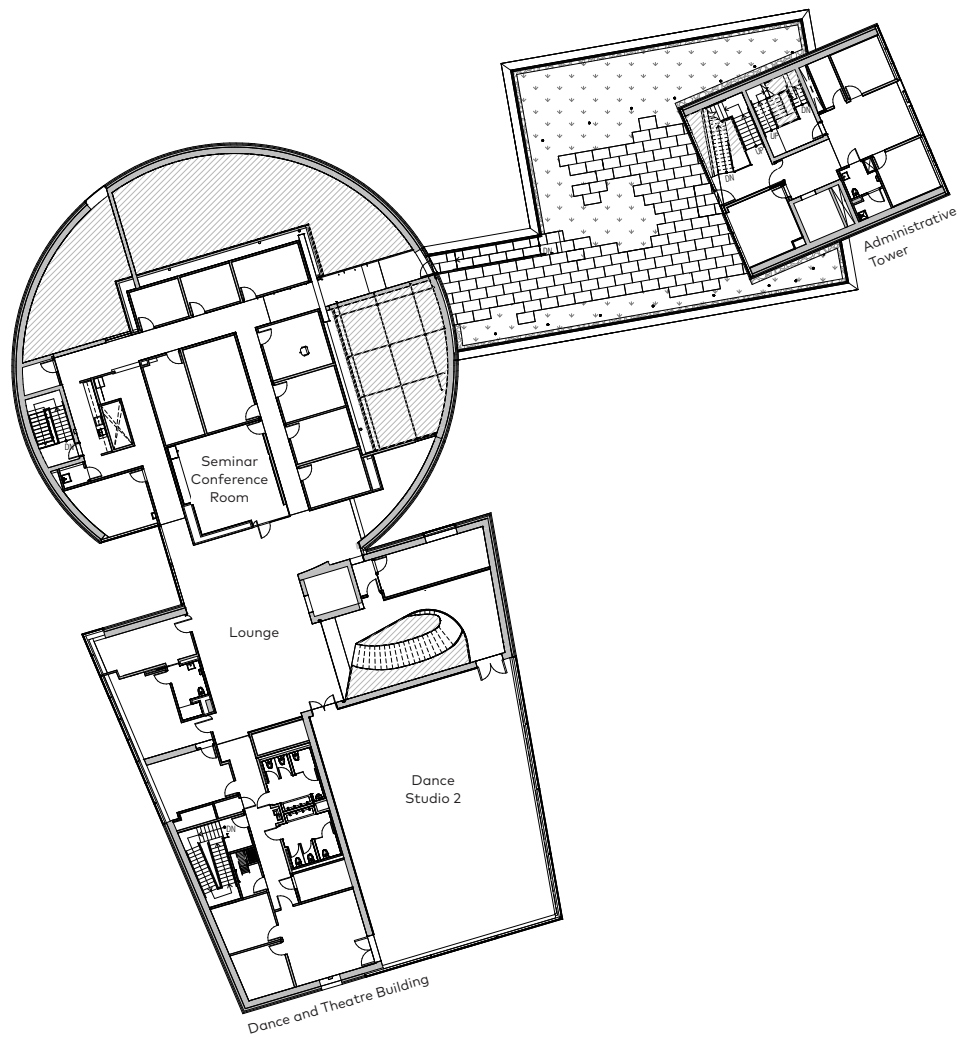


PLAZA LEVEL



0 16'

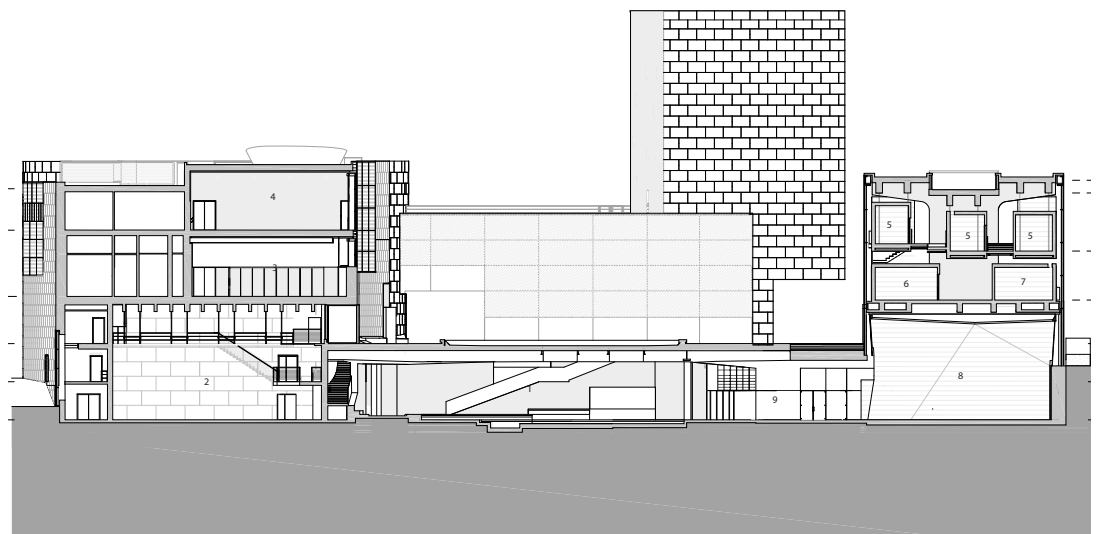
LEVEL 2



LEVEL 3



- 1 Forum
- 2 Dance Theater
- 3 Dance Studio 1
- 4 Dance Studio 2
- 5 Practice Room
- 6 Music Studio
- 7 Office
- 8 Instrumental Rehearsal Room
- 9 CoLab



BUILDING SECTION













AWARDS

2017 Best Building - Mid Atlantic
Architect's Newspaper

2018 Project Of The Year Award
Professional Engineers Society Of Mercer County

2018 New Good Neighbor Award
New Jersey Business & Industry Association

2018 Best Regional Project, Culture / Worship Category
Engineering News Record

2018 International Architect Award, Schools and Universities
The Chicago Athanaeum

"BNIM's leadership has been critical to the success of this project. We have been greatly impressed by the depth of their staff at all levels, whether related to design or technology, building codes, sustainability, envelope detailing, waterproofing or specifications. Their goal has been to make the finished product the best it can be, consistent with our budget. BNIM is a valued team member, willing to listen closely, to offer their professional advice, to be patient, and to lead."

JANE CURRY, AIA, LEED AP

Sr. Project Manager, Princeton University
Office of Design and Construction

Sinquefield Music Center

UNIVERSITY OF MISSOURI - COLUMBIA
COLUMBIA MISSOURI



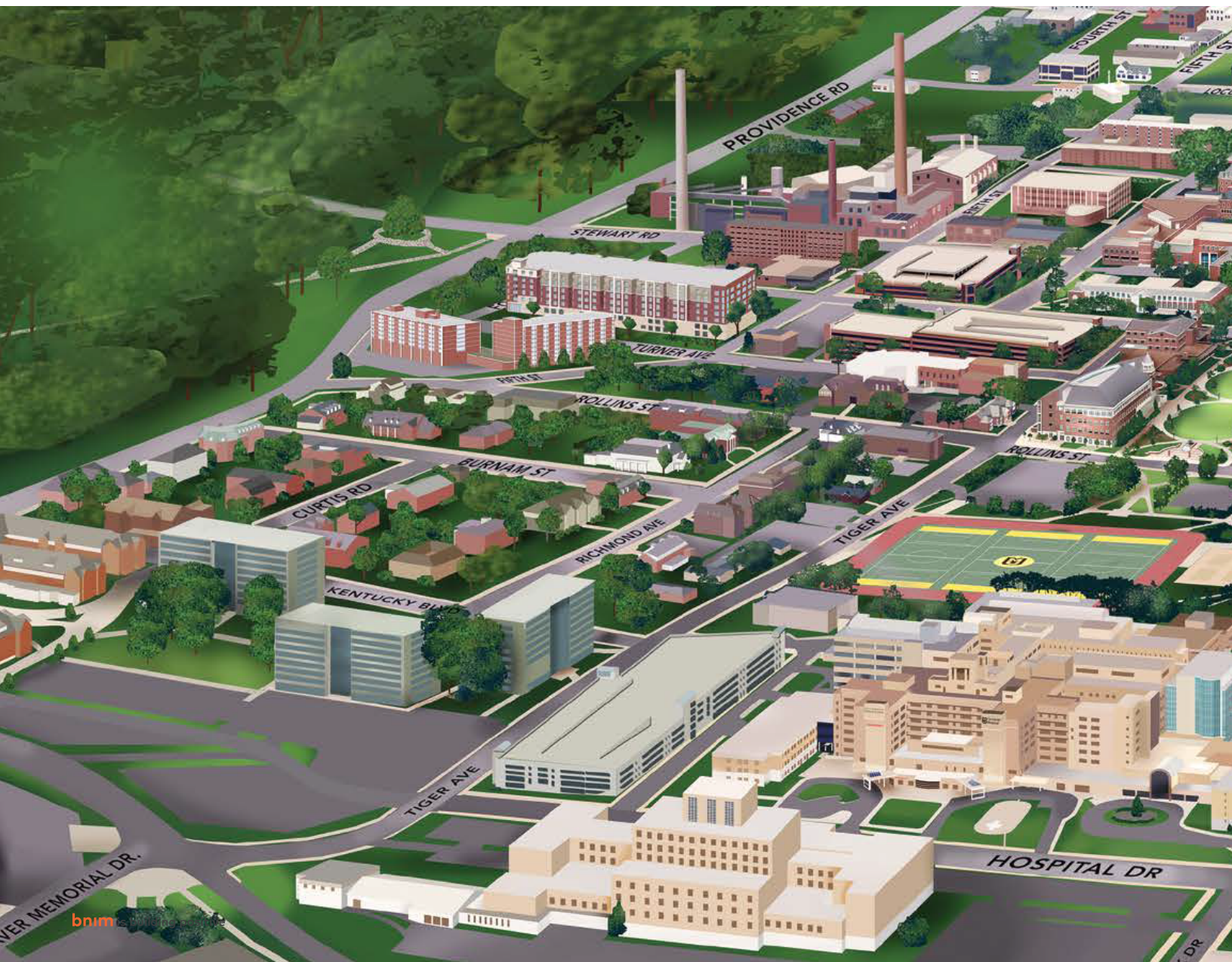


The School of Music program at the University of Missouri-Columbia was once scattered across the campus and in need of a cohesive and welcoming facility to call home. Students were attending classes in a fragmented environment with their programs housed in seven different buildings spread across campus, many of which were acoustically inadequate to support a premier collegiate music program. The University selected BNIM to design a brand-new facility to give the School of Music a renewed identity, providing opportunities for growth and engagement.

The new Jeanne and Rex Sinquefeld Music Center strengthens the School of Music's culture through spaces that create seamless collaboration among students and instructors, allow for flexibility and adaptability for emerging trends, and provide state-of-the-art, acoustically isolated areas for all rehearsals, recordings, and performances. The new facility is designed for School of Music students, and students taking elective music courses, to learn, practice, and perform in a strong acoustical atmosphere that supports the composition, instrumental, vocal, and editing and recording curricula.

Completed in 2020

The project is being designed to achieve LEED certification.



JESSE HALL



SCHOOL OF MUSIC SITE

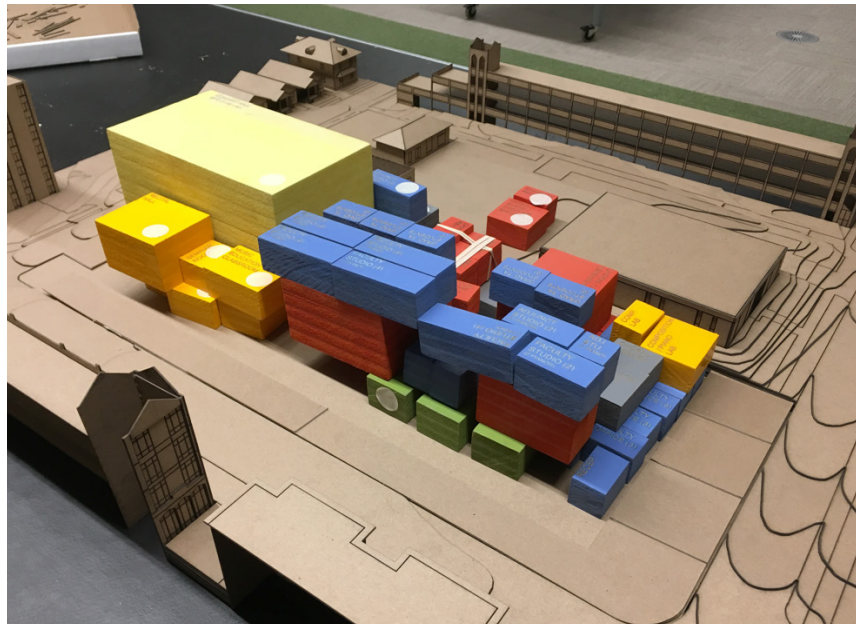
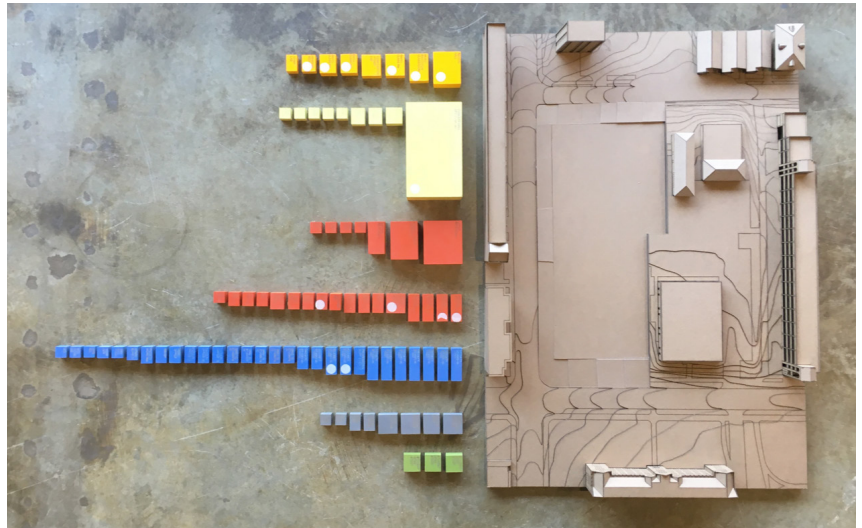


BUILDING CONCEPT AND PROGRAM

The design of the building was shaped by the primary goal of providing acoustically advanced and human-purposed spaces while remaining within budget. In response, the building is laid out in a simple, yet incredibly thoughtful way to provide cost-effective solutions for acoustically isolated spaces from one another. Resembling a series of "boxes" slightly pulled apart, the design focuses on establishing distance between practice and performance spaces and situating the most acoustically sensitive spaces on the ground floor of the building to reduce the carrying of sound and vibrations to other areas. These effective strategies allowed the design to provide acoustic isolation without the need for additional extensive acoustical systems.

PROGRAM SPACE TYPES

- Rehearsal / Performance
- Classrooms
- Collaboration Space
- Faculty Studios
- Administrative Offices
- Support Space
- Building Services



Often, music schools have a series of practice rooms and rehearsal spaces that cater to a single individual or small groups of people and, as a result, can cause facilities to turn inward, lacking access to natural daylight and views that is essential to promoting well-being and creativity. To address this issue, the design team was adamant that the building's corridors, which serve as connective ancillary spaces between practice and performance spaces, include large expanses of glazing to provide a sense of relief and a connection back to nature while orienting students, faculty, and visitors throughout the building with a series of daylight vistas.





0 20'

LEVEL 1

- 1 Instrumental Rehearsal Room
- 2 Traditional Performance Space
- 3 Student Open Study
- 4 Practice Space
- 5 Digital / Recording Studio
- 6 Live Room / Jazz Combo Rehearsal
- 7 Library

- 8 Isolation Room
- 9 Storage
- 10 Vestibule
- 11 Restroom
- 12 Faculty Studios/Offices
- 13 Mechanical / Electrical
- 14 Classroom

- Rehearsal / Performance
- Classroom
- Collaboration Space
- Faculty Studios
- Administrative Offices
- Support Space
- Building Services



LEVEL 2





Instrumental Rehearsal Room

The performance spaces of the Jeanne and Rex Sinquefield Music Center share a beautiful atmosphere with wood paneling and an abundance of outdoor light. The facility's large instrumental rehearsal room and traditional choral rehearsal room are elegant student performance spaces that are 'tunable' to different types of music being performed, provide a substantial volume for acoustics, and are outfitted with the ability to record and stream performances to physical or virtual live audiences. To create tunable rooms, the design team worked with the project's acoustician on a series of operable acoustic drapes that can be deployed or detracted depending on preferences of musicians performing in those spaces. Through this, the design team was able to allocate the necessary resources to make these spaces acoustically superior while also allowing the School of Music the greatest amount of flexibility to accommodate program needs as curriculum continues to evolve in the future.



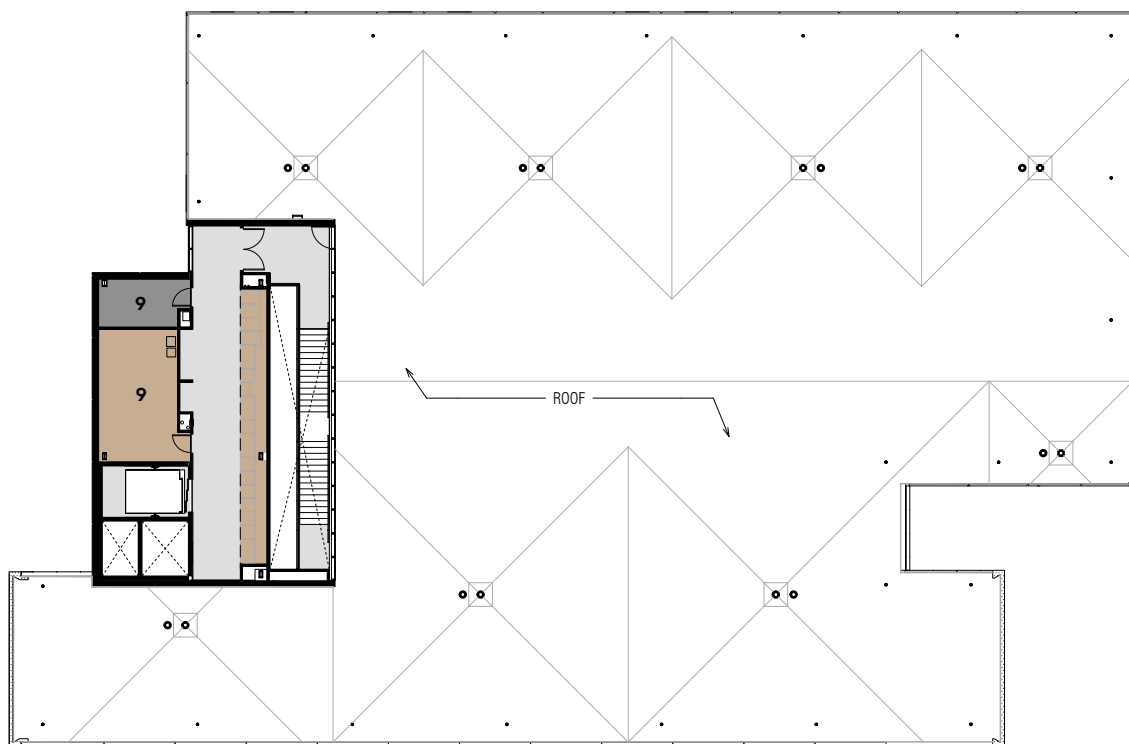
0 20'

LEVEL 3

- 1 Instrumental Rehearsal Room
- 2 Traditional Performance Space
- 3 Student Open Study
- 4 Practice Space
- 5 Digital / Recording Studio
- 6 Live Room / Jazz Combo Rehearsal
- 7 Library

- 8 Isolation Room
- 9 Storage
- 10 Vestibule
- 11 Restroom
- 12 Faculty Studios/Offices
- 13 Mechanical /Electrical
- 14 Classroom

- Rehearsal / Performance
- Classroom
- Collaboration Space
- Faculty Studios
- Administrative Offices
- Support Space
- Building Services



0 20'

LEVEL 4

Traditional Performance Space

Design for future flexibility is further demonstrated in the traditional performance rehearsal space which not only utilizes the retractable draperies to either enliven or deaden the room based on the performance, but also includes a floor plan designed such that the room can be morphed for a series of different purposes. The flat floor in the space was enlarged from a typical choral rehearsal room to allow the space to be flipped and risers to be utilized for patrons to view opera rehearsal or other individual or group performances. The custom woodwork on the room's the south wall also includes concealed white boards to be utilized in a classroom format when not occupied by performances. Operable wood walls fold out to create a band shell-like form that meets directional requirements for performances of various scales to audiences.

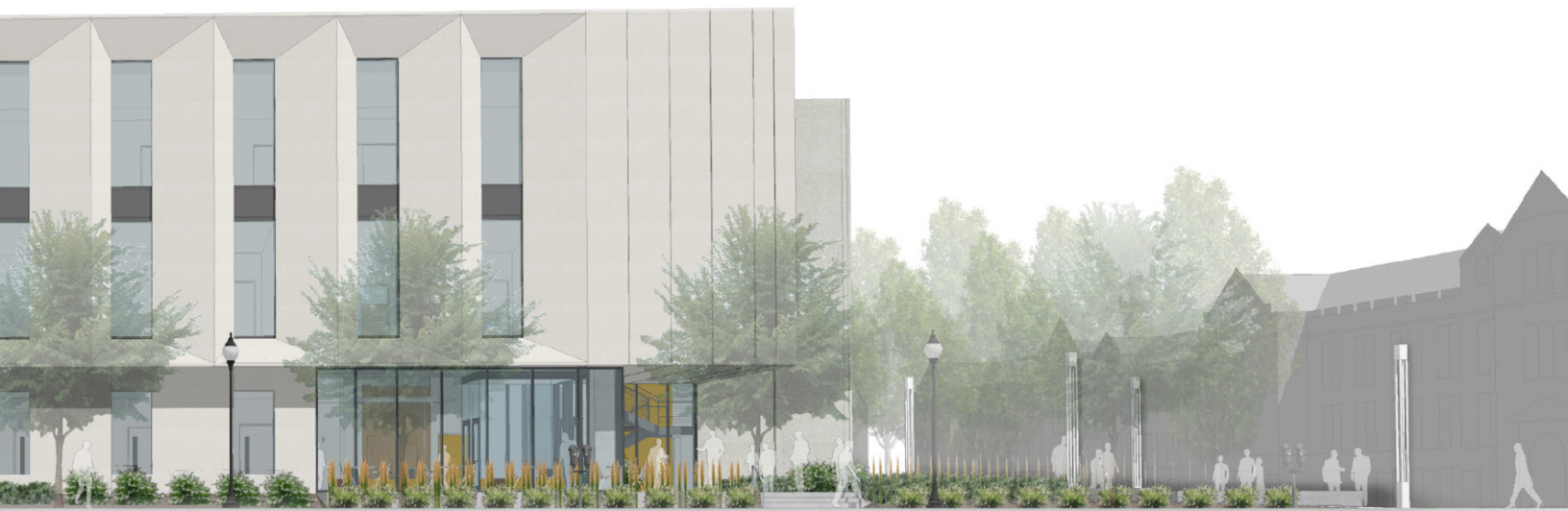




BUILDING CONTEXT

The Jeanne and Rex Sinquefeld Music Center represents the first phase of a larger building master plan envisioned for the site. The new facility is designed to respond to its surrounding urban and campus contexts. Utilizing campus infrastructure, the Music Center promotes density and walkability, as staples of sustainable design. Additionally, the design team worked with consultant team members and the University to provide sustainable resources, materials, and products.

Located at the corner of Hitt Street and University Avenue, the building sits at the northern edge of the campus providing a unique and valuable opportunity to spur the development of a cultural corridor connecting the University of Missouri with downtown Columbia. To tie into and enhance this cultural corridor, the performance space lobbies and primary building circulation run parallel along the street, anchored by two large entry plazas that dual as external performance venues, allowing the building activity to be on display and spill out into the community. With heavy traffic on the north entrance to the campus, students continually pass through the entry plaza of the music building. Passerby's can enjoy music students performing on the lawn or the outdoor balcony on the second level of the building. Additionally, windows along the ground level of the building provide a glimpse into the percussion practice rooms, allowing campus-goers to see and hear the music within as they pass by.







Kauffman Center for the Performing Arts

KANSAS CITY, MO





The Kauffman Center for the Performing Arts is counted among the finest performing arts venues in the world because of its superior acoustics, complex geometry and momentous spaces of exquisite design, detailing and construction. This facility was designed to produce near perfect acoustics, promising an exceptional experience for performers and audiences alike.

The Kauffman Center for the Performing Arts is one of the most significant cultural facilities in the Midwest. It has had a transformative effect on Kansas City's urban core, economy, and thriving arts community. Not only does the venue contribute to the livability of downtown and add to the redevelopment efforts of the surrounding area, but it also opens a vital corridor between the heart of the city and the adjacent Crossroads Arts District.

With Moshe Safdie and Yasuhisa Toyota

438,562 SF
Completion in 22011



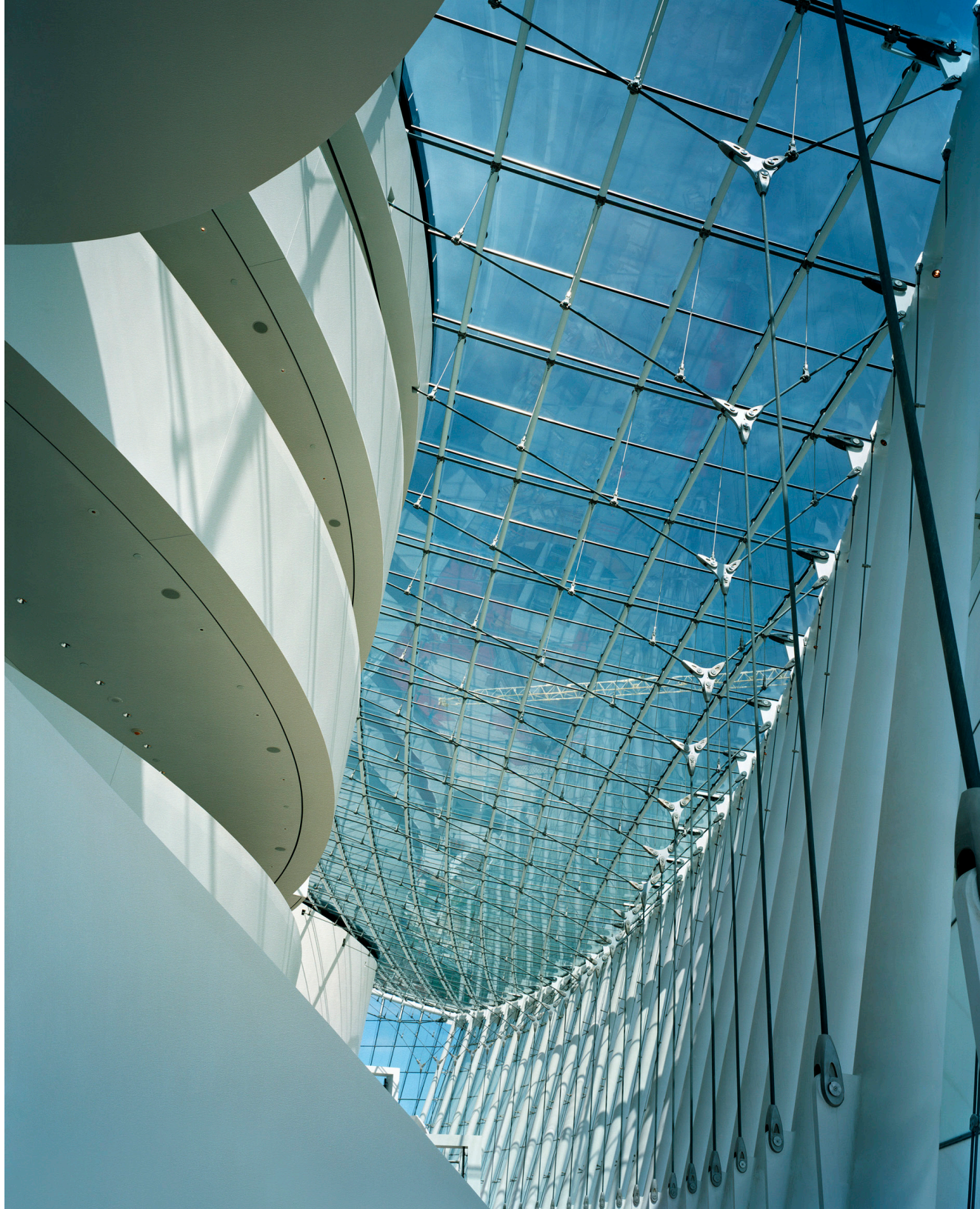




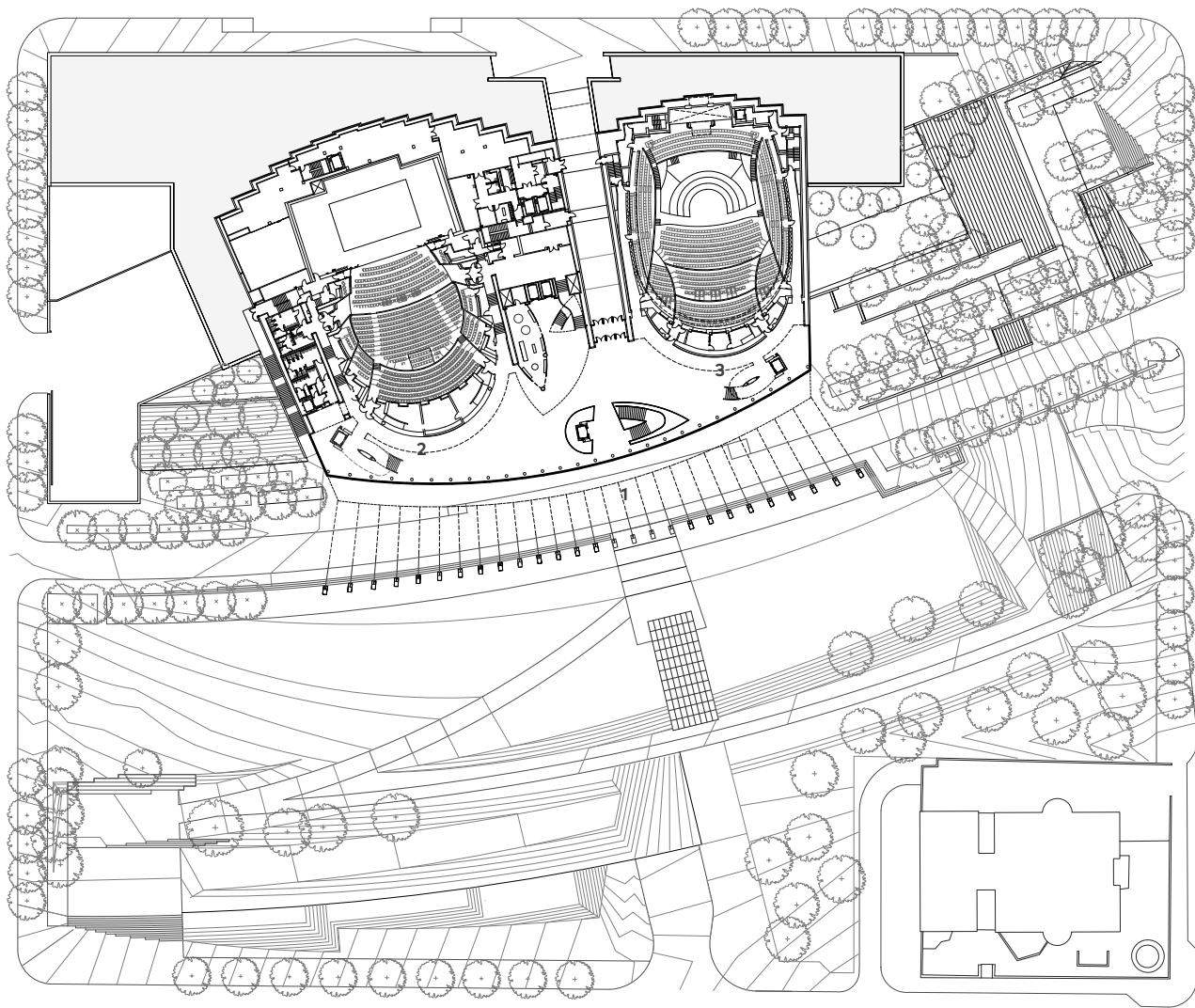








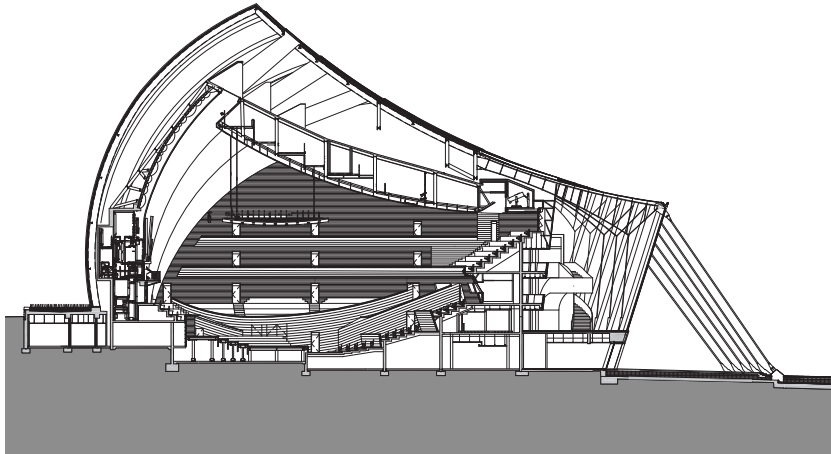




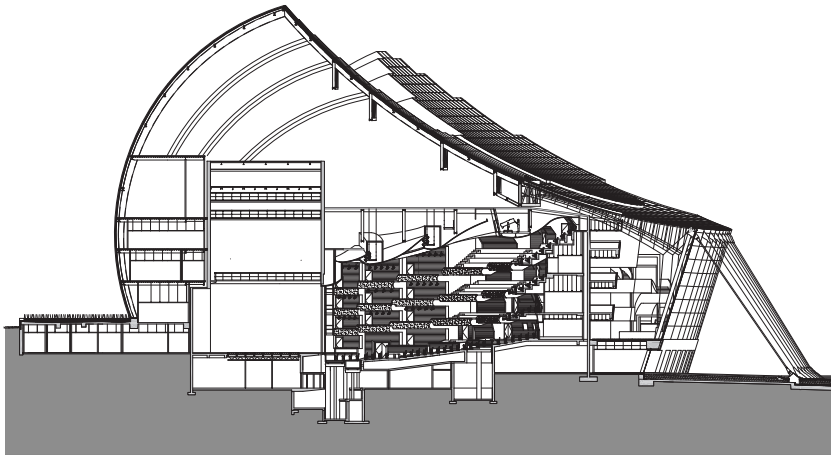
SITE AND MAIN LOBBY LEVEL PLAN

- 1 Brandmeyer Great Hall
- 2 Muriel Kauffman Theatre
- 3 Helzberg Hall





Section of Muriel Kauffman Theatre



Section of Helzberg Hall





AWARDS

2014 Emporis International
World's 15 Most Beautiful Concert Halls

2012 PCI Design Awards
Best Theatre

2012 PCI Design Awards
Harry H. Edwards Industry Advancement Award,

211 General Electric
GE Edison Award

2011 Mies Crown Hall Prize Finalist

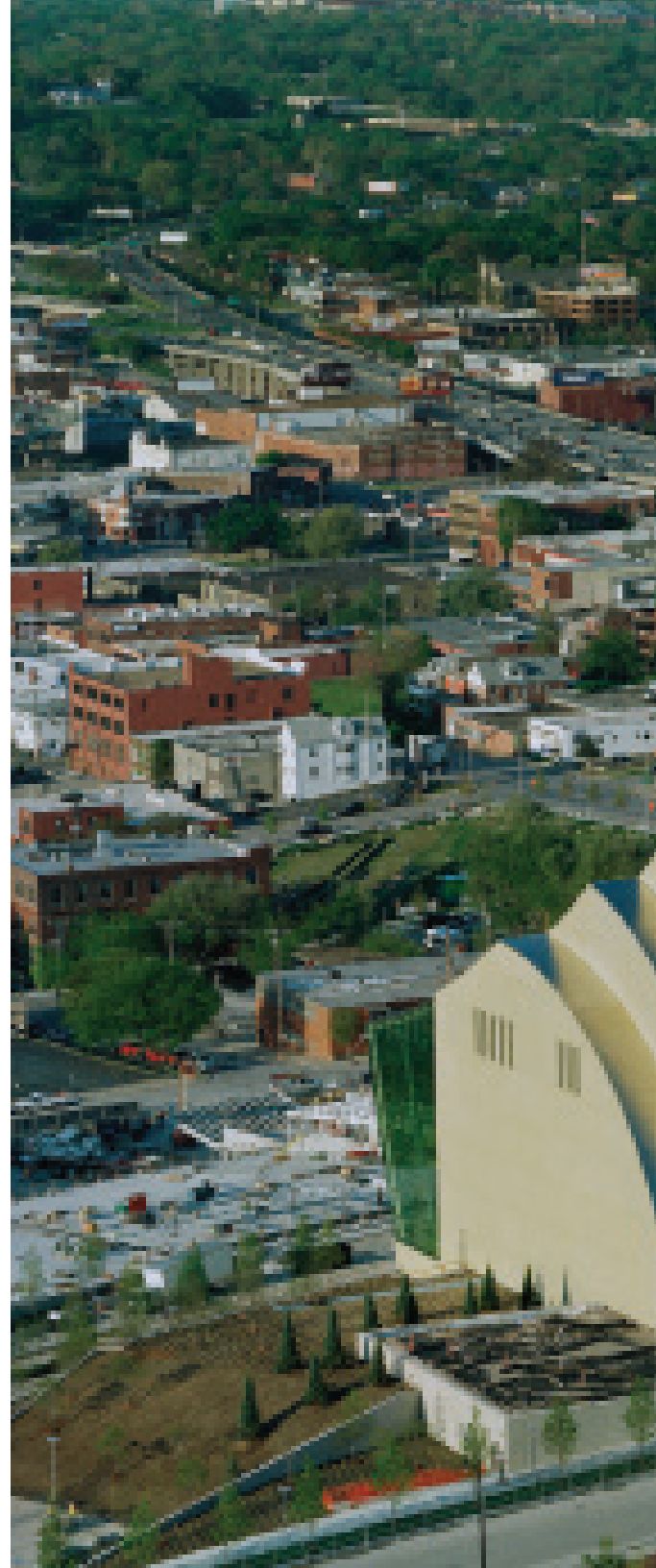
2014 American Council of Engineering Companies
Grand Conceptor Award

2013 Structural Engineers Association of San Diego (SEAOSD)
IDEAS2 (Innovative Design in Engineering & Architecture with
Structural Steel) Award - Grand Prize

2012 Structural Engineers Association of San Diego (SEAOSD)
Presidential Award of Excellence in Engineering and Architecture

2012 Kansas City Business Journal Capstone Award
Special Judges Recognition

2012 Architectural Lighting Magazine
Architectural Lighting Design Awards - Outstanding
Achievement, Whole Building





Folly Theater

KANSAS CITY, MISSOURI





BNIM's involvement with the Folly Theater began with a feasibility study to save the ailing structure in 1974. Since then, the firm has participated in all phases of the efforts to save and restore the turn-of-the-century Folly Theater in downtown Kansas City, which is listed on the National Registration of Historic Places. BNIM was involved in grant writing, presentation and fundraising stages, while simultaneously developing construction procedures to solve on-site problems as the theater was gradually restored to the condition it enjoyed in 1923.

In 1998, BNIM worked on the creation of a new lobby pre-function area. The original lobby was in an adjacent hotel, and since the early eighties renovation, patron amenities (lobby, bar, and toilet facilities) on the ground floor had been undersized. This new lobby provides a gathering place that helps make theater-going an experience. The Folly is now poised for its next 100 years.

1,725 SF
Completion in 2000



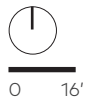
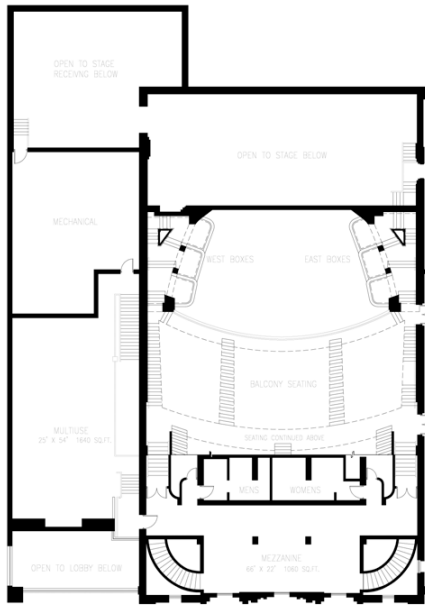
After



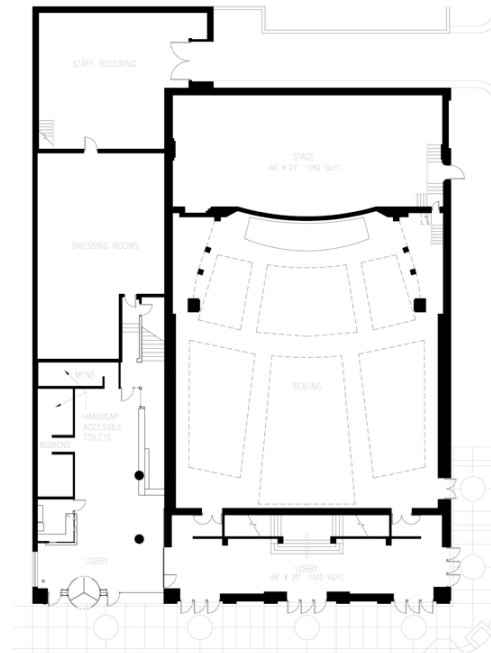
Before







Balcony Level



Orchestra Level











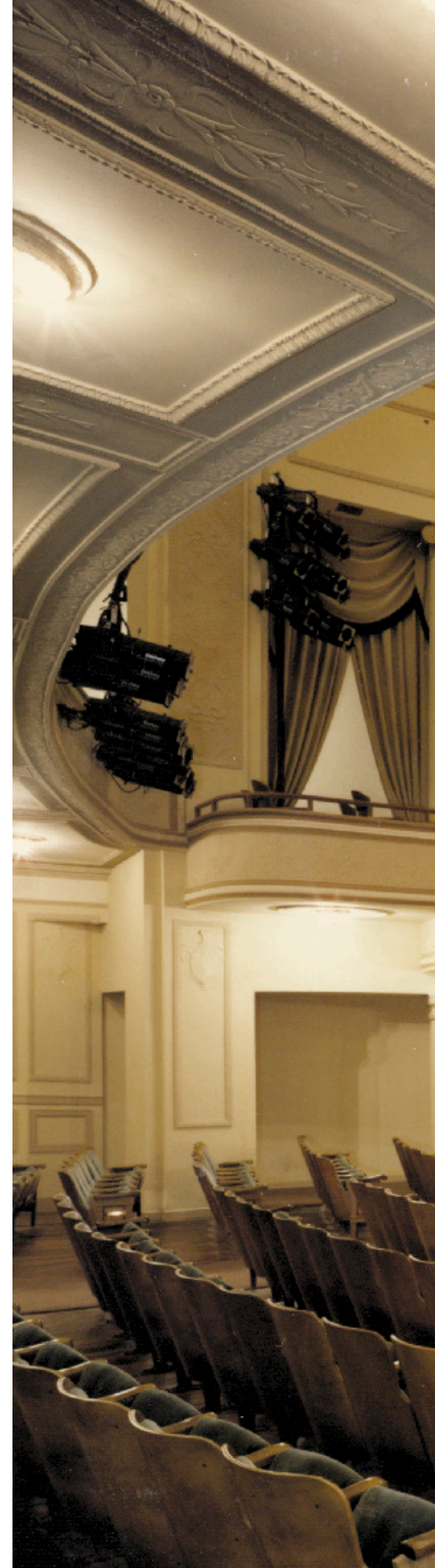
AWARDS

1982 Urban Design Award
Kansas City Municipal Art Commission

1982 Excellence in Architecture
AIA Kansas City

1981 Craftsmanship Award
AIA Kansas City

1981 Design Award
AIA Central States Region





A photograph of the John F. Kennedy Center for the Performing Arts expansion. The image shows a modern building with a large glass facade and a curved white wall. A paved walkway leads from the building towards a body of water, which reflects the colorful sunset sky. The sky is filled with clouds in shades of orange, pink, and blue. The building's interior is visible through the glass, showing tables and chairs. The overall scene is serene and architectural.

The John F. Kennedy Center for the Performing Arts Expansion

WASHINGTON, DISTRICT OF COLUMBIA



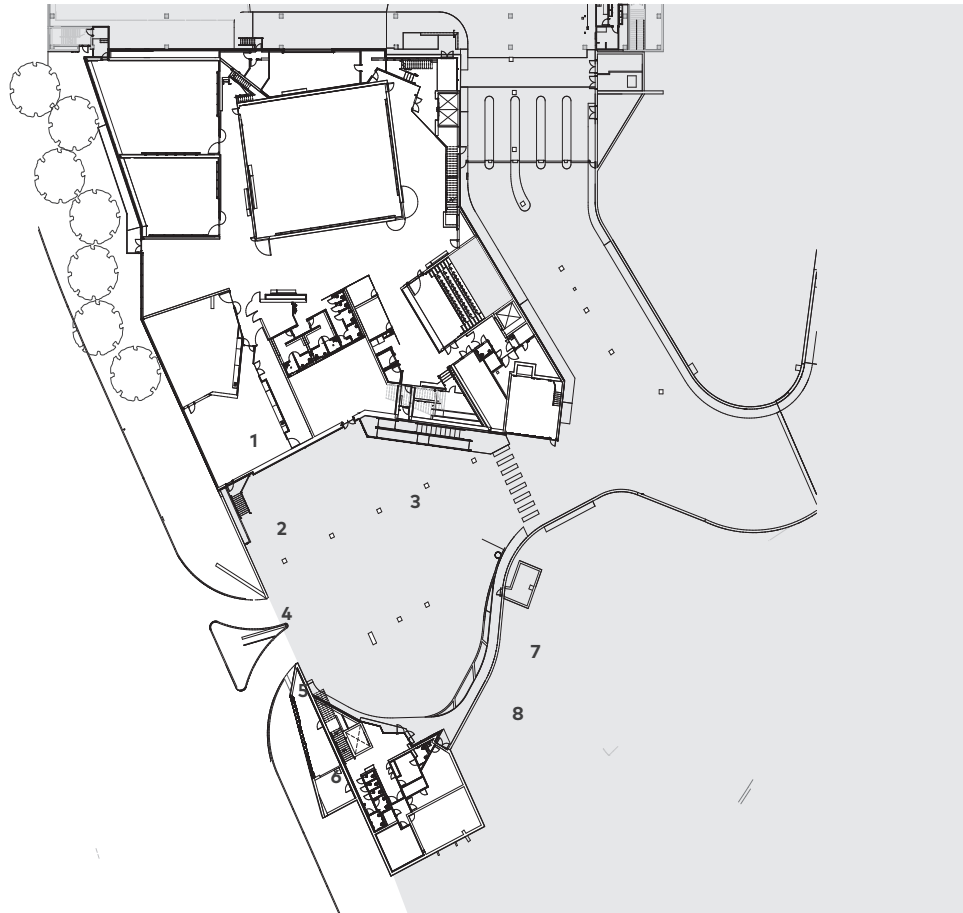
The expansion to the prestigious John F. Kennedy Center creates an immersive, interactive experience for visitors from around the world and provides connections and views to the civic fabric of Washington, D.C. By allowing new opportunities for artistic performances, the Kennedy Center expansion reinforces the importance of the arts and creating connections across the community.

The expansion integrates the existing building, landscape, and adjacent Potomac River with three white, curving concrete pavilions that visually complement the iconic marble structure. Expansive, light-filled interior spaces support dedicated education, rehearsal, and gathering spaces. The landscape provides activated spaces for outdoor performances, as well as public gardens and private alcoves for moments of respite.

Executive Architect - Steven Holl Architects
Architect of Record - BNIM

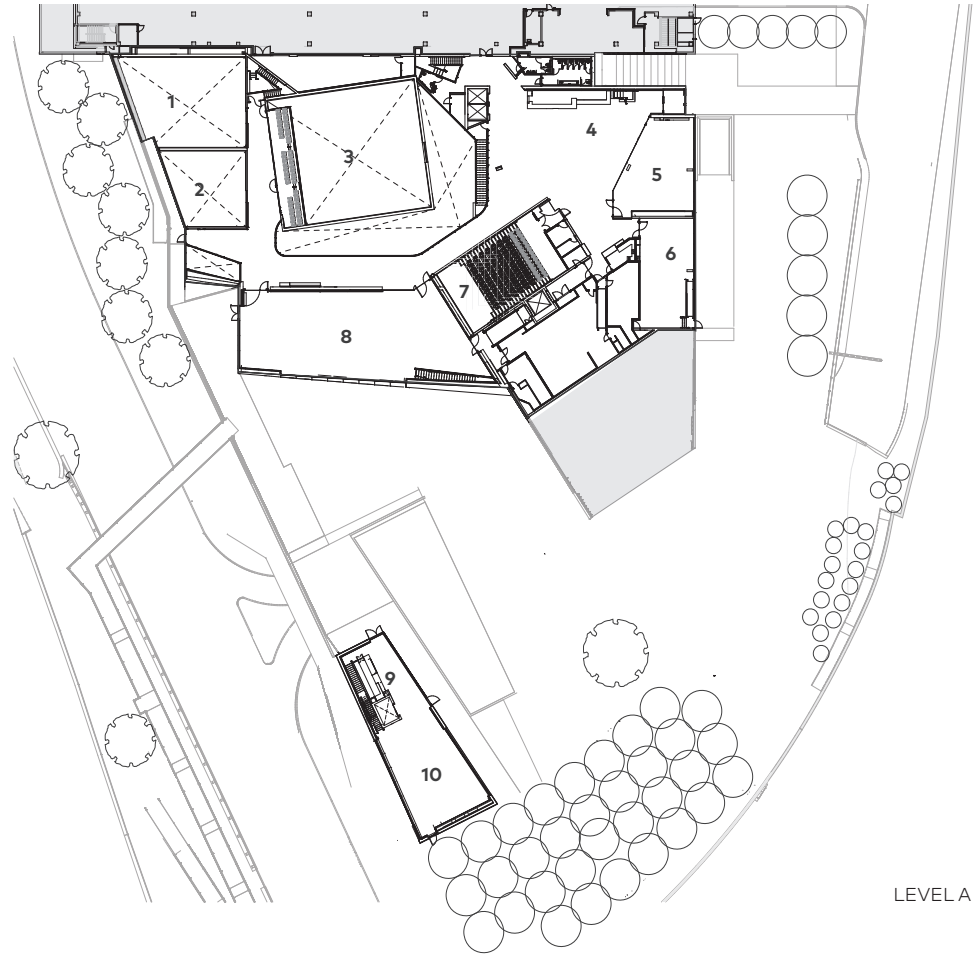
113,906 SF
Completion in 2018

- 1 Studio B
- 2 Studio C
- 3 Studio A
- 4 Studio Lounge
- 5 Classroom 1
- 6 Classroom 2
- 7 Forum
- 8 Practice Room



LEVEL B

- 1 Studio B Below
- 2 Studio C Below
- 3 Studio A Below
- 4 Welcome Pavilion
- 5 The Board Room
- 6 Learning Lab
- 7 Forum
- 8 Skylight Pavilion
- 9 River Pavilion Cafe
- 10 River Pavilion

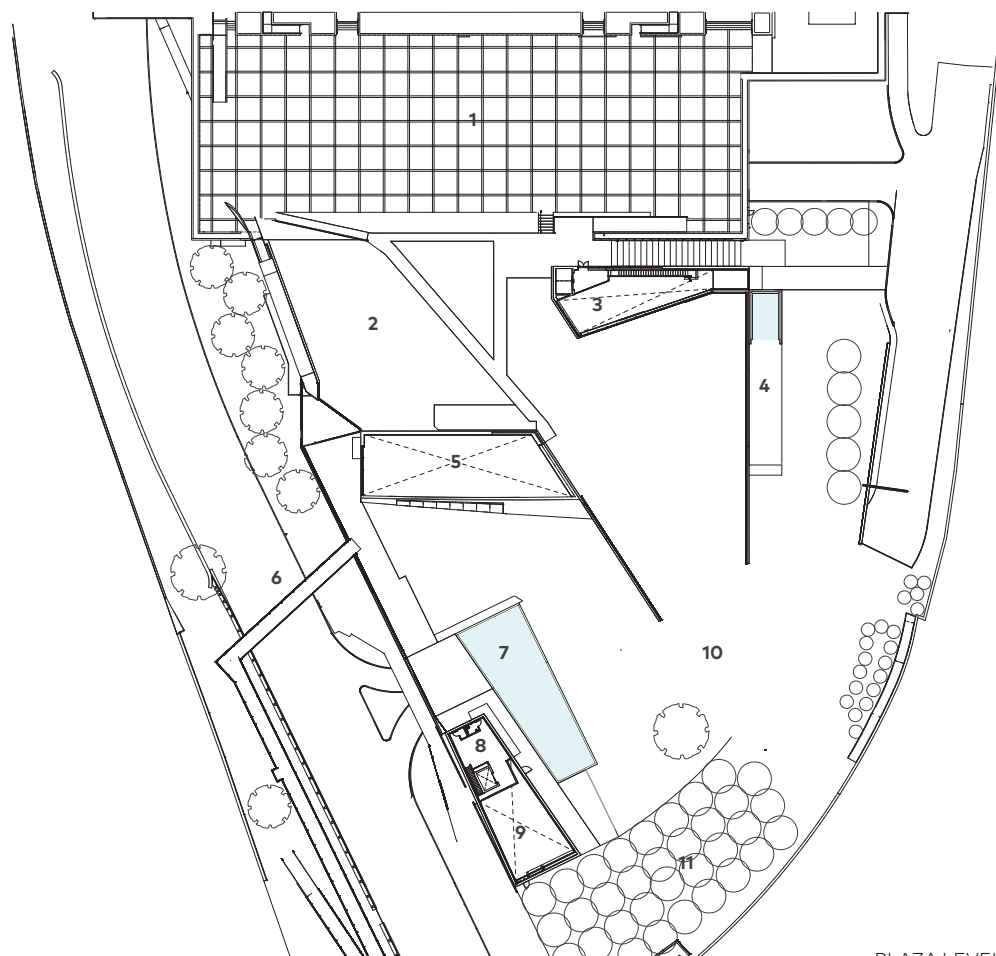


LEVEL A



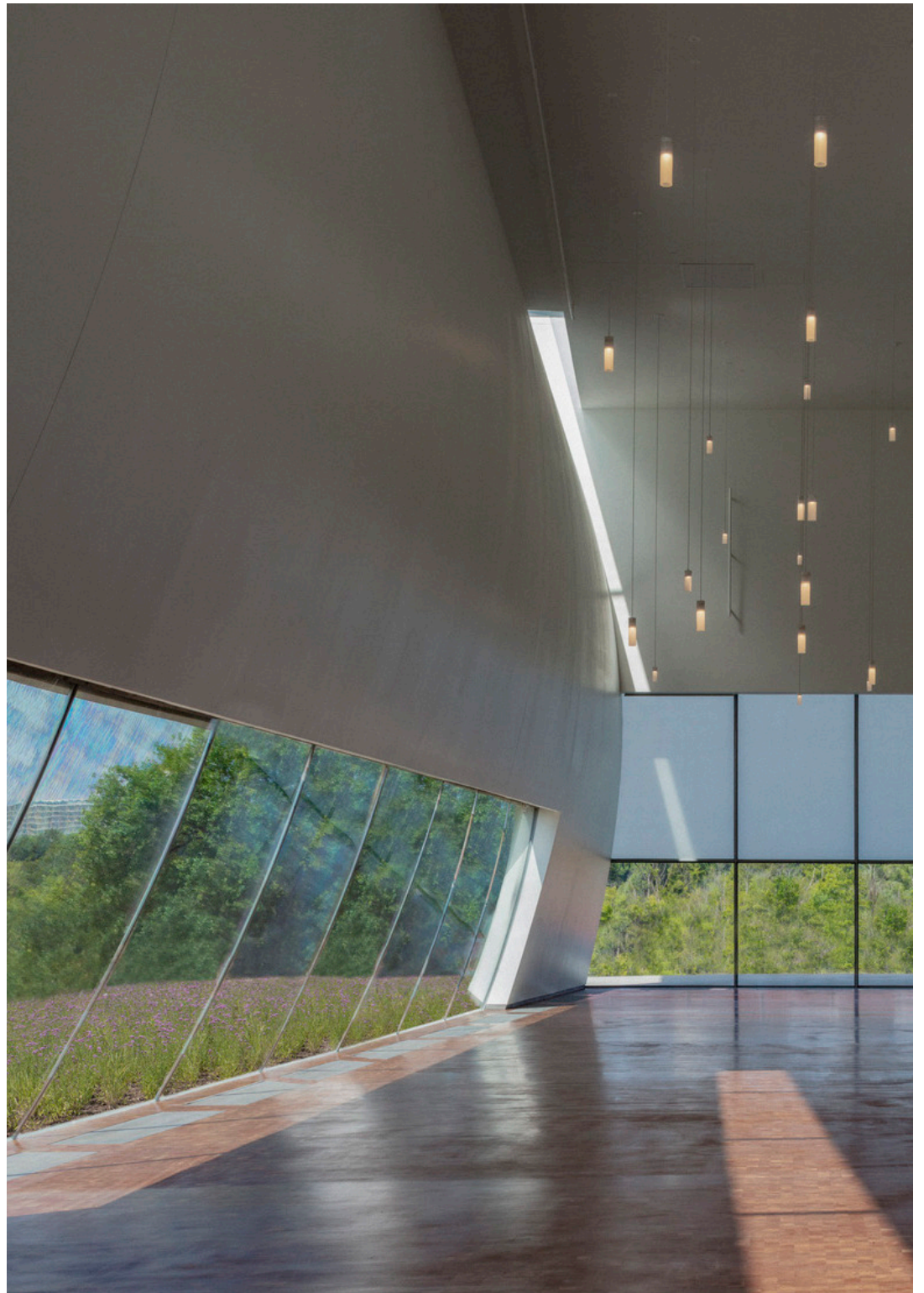


- 1 South Plaza
- 2 Upper Lawn
- 3 Welcome Pavilion
- 4 The Deck
- 5 Skylight Pavilion
- 6 The Bridge
- 7 Reflecting Pool
- 8 River Pavilion Mezzanine
- 9 River Pavilion
- 10 Lower Lawn
- 11 The Grove



PLAZA LEVEL













NOTES

¹ "Shifting the Arts Debate from One-Way Transfer of Skills To the General Development of Critical Thinking Abilities." <http://www.tc.columbia.edu/articles/1999/june/shifting-the-arts-debate-from-one-way-transfer-of-skills-to-/>

² "Extracurriculars Are Central to Learning." <https://www.usnews.com/opinion/articles/2014/04/28/music-art-and-language-programs-in-schools-have-long-lasting-benefits>

³ "The Importance of Fine Arts Education." <http://www.katyisd.org/dept/finearts/Pages/The-Importance-of-Fine-Arts-Education-.aspx>

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