



STRUCTURAL ENGINEERING AND DESIGN PORTFOLIO

From the vision and conceptual design through construction administration, we partner with you to find the best design and cost saving solution for your specialized project. Our collaborative and proactive approach ensures that your project stays on track with timely, comprehensive drawings, tailored to the project's specific needs.

Design That Accelerates Construction.

FIRM INTRODUCTION

OUR STORY

Founded in 2003 by Carlos Banchik, Innova Technologies, Inc. was shaped by the leadership that helped deliver the 2.8-mile Las Vegas Monorail extension linking Bally's Hotel and Sahara Hotel. The firm was created to foster a close-knit, technology-forward culture that values listening, responsiveness, construction insight, and the humility to ensure the team gets it right. From a one-person practice, Innova quickly earned a reputation for collaborative problem-solving and practical, buildable structural solutions.

OUR GROWTH

Client trust and repeat partnerships fueled steady expansion across three core service areas: structural engineering, construction engineering, and transportation engineering. To better serve these markets while maintaining a unified philosophy, Innova Technologies, Inc. established focused divisions with distinct specialties. In 2017, Innova Transportation, LLC was formed to advance large-scale domestic and international transit work. In 2021, Innova Solutions was launched to deliver time- and cost-saving construction engineering services to contractors, specialty trades, and product developers. Today, a team of 50+ professionals provides integrated support from concept through construction.

OUR GLOBAL PRESENCE

Headquartered in Las Vegas, Nevada, Innova serves clients worldwide with additional offices in Cairo, São Paulo, Monterrey, and Santiago de los Caballeros. Licensed in all 50 U.S. states, Washington, D.C., and the U.S. Virgin Islands, the firm combines structural and seismic expertise, collaborative design-forward thinking, and technology-driven efficiency to deliver resilient, innovative, and constructible solutions across diverse project types and geographies.



Cover & Back: ORLA Mediterranean Restaurant, Mandalay Bay, Las Vegas, Nevada

STRUCTURAL ENGINEERING AND DESIGN

MARKET SECTORS

Commercial/Mixed-Use
Healthcare
Hospitality [Hotels/Resorts/Casinos]
Industrial/Manufacturing
Institutional/Public Works
Residential [High-End Custom/Multi-Family]

Parking Structures
Transportation Structures
Water, Petroleum, Grain Tanks/Silos
Public Art

SERVICES

Structural Design & Analysis

- Building Structural Systems
- Load Calculations
- Finite Element Analysis
- Retrofitting & Strengthening
- Seismic & Wind Design
- Foundation Design
- Code Compliance & Regulatory Approval

Specialized Design

- Timber, Steel, Concrete, Masonry Structures
- Post-tension Structures
- LEED/Green Building & Sustainable Design
- Precast & Modular Structures
- Bridge Design
- Mid-Rise & High-Rise Design
- Base Isolation Design

Consulting & Advisory Services

- Feasibility Studies
- Third-Party Review
- Forensic Engineering

Construction Support

- Construction Administration
- Site Observation & Supervision
- Shop Drawing Review

Infrastructure Design

- Civil Structures [Retaining Walls, Bus Shelters]
- Water, Petroleum, Grain Tanks/Silos
- Energy Structures [Wind, Solar, Power Plants]

Restoration & Rehabilitation

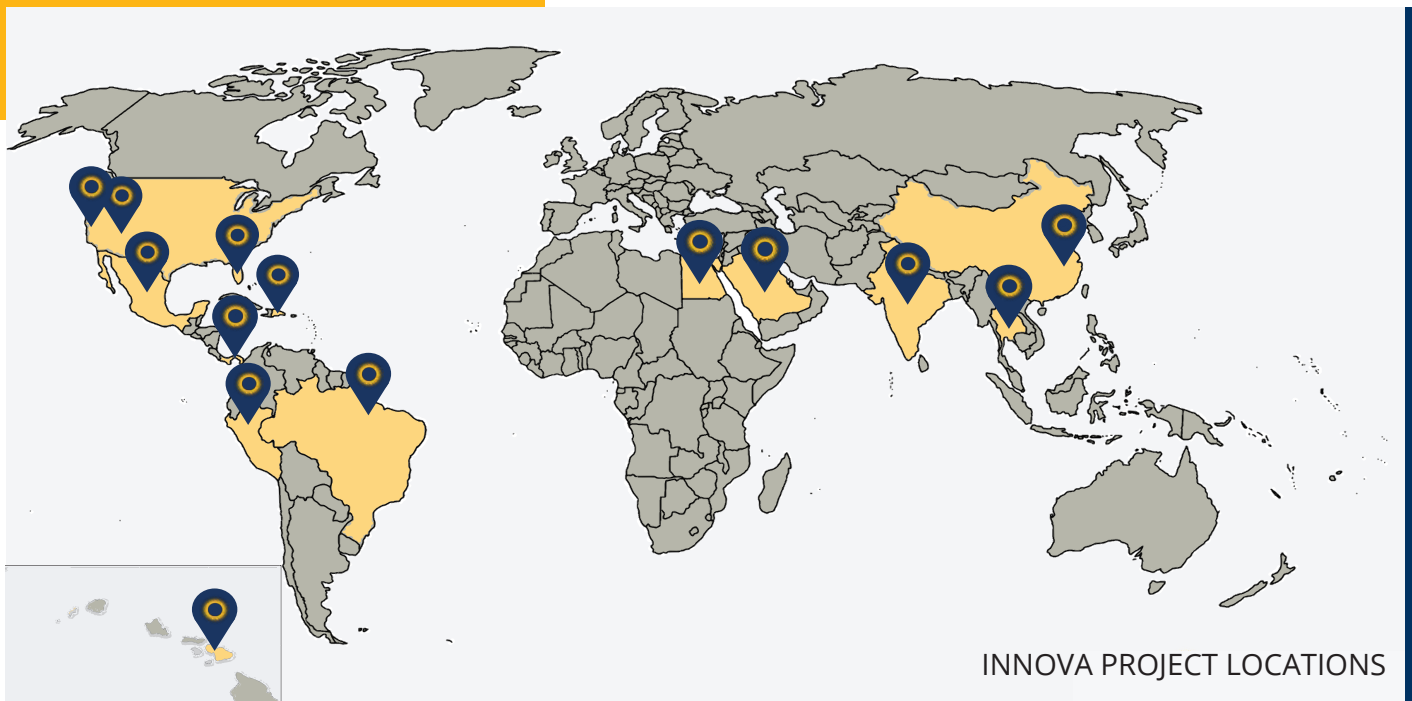
- Historical Building Restoration
- Condition Assessments
- Façade & Envelope Restoration

BIM - Building Information Modeling Services

- 3D Modeling & Detailing
- 3D Printing/Physical Modeling

3D Scanning

- As-Builts



INNOVA PROJECT LOCATIONS

HANDS-ON COLLABORATION

Innova Technologies takes a hands-on, proactive approach from concept through construction. By collaborating early with stakeholders, architects, consultants, and contractors, we help address design, construction, and cost challenges—often resolving schedule or budget issues before final design.



CREATIVE SOLUTIONS

At Innova Technologies, our commitment to innovation and creativity directly benefits our clients. Leveraging over 250 years of combined experience in engineering and construction, our engineers are empowered to think outside the box, providing tailored, efficient solutions that address the unique complexities of your projects. This focus on inventive problem-solving enables us to deliver results that streamline processes, reduce costs, and improve overall project outcomes, ensuring that your goals are not only met but exceeded.

CORE VALUES

Innova is driven by its commitment to its clients and employees through the firm's core values: FUN, INTEGRITY, TEAMWORK, QUALITY AND ACCOUNTABILITY.

STRATEGIC PARTNERSHIPS

Innova Technologies cultivates win-win partnerships that create cohesive, enduring relationships built on shared success. By viewing every partner as a vital stakeholder, we ensure that our collaborative efforts drive mutual growth, innovation, and long-term value, making success a collective achievement.

PROJECT APPROACH

Building strong partnerships with you, whether you're a building owner, developer, public entity, architect, engineer, or general contractor, is our top priority to enhance project development. We engage proactively from the very start of the design phase, ensuring we fully understand your project goals and aspirations. By aligning our structural expertise with your vision, we craft designs that seamlessly blend functionality, aesthetics, and budgetary considerations.

Utilizing our extensive knowledge of materials and construction methods, we tailor our solutions to meet your unique requirements while avoiding unnecessary complexity. This commitment to efficiency not only helps reduce costs, but also accelerates project timelines, ultimately delivering exceptional value to you. Together, we can achieve remarkable results, as evidenced by our successful collaborations on various local, regional, national, and international projects.

PROJECT PHASES

COLLABORATION | VISIONING

- Provide prelim. structural input;
- Advise on structural systems, materials, cost and schedule;
- Evaluate constraints
- Prepare feasibility study

CONCEPT DESIGN

- Evaluate design/feasibility;
- Recommend structural systems
- Identify major load paths/ support conditions
- Explore grids and framing
- Provide feedback

SCHEMATIC DESIGN

- Define system layout;
- Provide column/wall layouts, prelim. foundations, and framing;
- Perform structural analyses for performance;
- Coordinate with MEP/Arch.;
- Use Revit or AutoCad

DESIGN DEVELOPMENT

- Develop structural systems;
- Create preliminary framing plans, foundation layouts, and typical details;
- Perform design calculations;
- Coordinate with team

CONSTRUCTION DOCUMENTS

- Prepare detailed structural drawings and specifications;
- Finalize design calculations;
- Coordinate with team;
- Reviews of drawings/calcs/specs;
- Provide stamped sets

BIDDING | CONSTRUCTION ADMINISTRATION

- Respond to GC RFIs;
- Review shop drawings;
- Provide observation as needed;
- Review field changes/issue revisions or sketches as needed



Portland PDX FAA Administration Building, Portland, OR

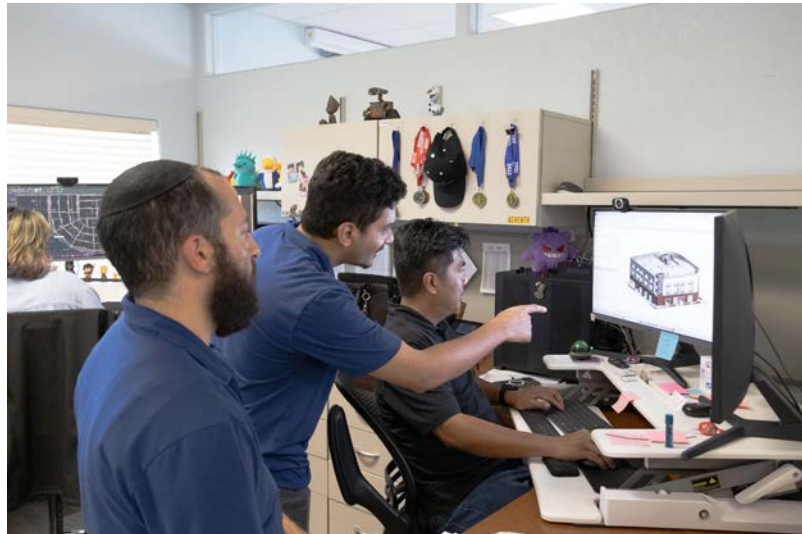
ADVANCING DESIGN THROUGH TECHNOLOGY

At Innova Technologies, we deliver innovative, efficient, and dependable structural engineering solutions for projects of all types and scales. From high-rise towers and bridges to luxury residential, industrial, and mixed-use developments, our team integrates safety, constructibility, and creative design to achieve practical, buildable outcomes. We leverage advanced tools and processes, including parametric modeling, BIM coordination, and digital twin workflows, to enhance collaboration, optimize performance, and support informed decision-making throughout the project lifecycle.

Designing for every building type and material, we recognize that no two projects are alike. That's why our engineers take a tailored approach to each structure, integrating architectural vision, performance requirements, and material efficiency from concept through construction.

Our experience covers all major structural materials and systems, including:

- **Reinforced & Post-Tensioned Concrete** – for strength and flexibility in vertical and horizontal design.
- **Light Gauge & Structural Steel** – ideal for speed of erection and long-span efficiency.
- **Masonry & Cold-Formed Steel** – for cost-effective, durable low-rise construction.
- **Wood & Mass Timber (CLT, Glulam, etc.)** – for sustainable and visually striking solutions.
- **Hybrid & Composite Systems** – optimizing performance through material integration.



SOFTWARE





Photo: Portland PDX FAA Administration Building, Portland, OR

WHY SELECT INNOVA?

CREATIVE SOLUTIONS

- We think outside of the box.
- Offer tailored solutions to complex challenges.
- Streamlined processes reduce costs and improve project outcomes.

COLLABORATIVE APPROACH

- We work closely with the design team throughout the project, communicating openly so there are no surprises from start to project delivery. A phone call or virtual meeting enables us to discuss challenges and clarify intent.
- We work with you to achieve your vision.



EFFICIENT AND RESPONSIVE

- Responsive to meet the challenges of large, multi-billion dollar developments to local mid-size projects.
- Collaborate with large design and construction teams throughout the world.

GLOBAL & NATIONAL PRESENCE

- We have offices in Las Vegas, Nevada, USA; Cairo, Egypt; Monterrey, Mexico; Santiago de los Caballeros, Dominican Republic, and São Paulo, Brazil.
- Licensed nationwide, Washington D.C., and U.S. Virgin Islands



CREATIVE
SOLUTIONS



COLLABORATIVE
APPROACH



EFFICIENT AND
RESPONSIVE



LICENSED
NATIONWIDE

TEAM MEMBERS



Carlos Banchik, P.E., CEO/Chair, 37 Years of Experience

Carlos has experience on a broad range of project types including design and construction techniques of horizontal and vertical structures, mechanical, electrical, and hydraulic basic design requirements and operations. He is also experienced in writing proposals, design specifications, design criteria, construction procedures, and operation manuals.



Adriana Gonorazky, P.E., S.E., Vice Chair, 38 Years of Experience

Adriana is a forward-thinking leader skilled in strategic vision, cross-disciplinary team building, and elevating design quality. She brings a deep understanding of project execution and organizational growth. Known for cultivating collaboration and delivering high-impact results in dynamic settings.



Robert Naples, P.E., President, 28 Years of Experience

Robert brings a results-driven approach to operational leadership, with a focus on process optimization and performance improvement. He excels at mentoring teams, resolving complex issues, and aligning operations with long-term goals. His strategic mindset fuels innovation and measurable success.



Daniel Konevsky, P.E., Vice President, 15 Years of Experience

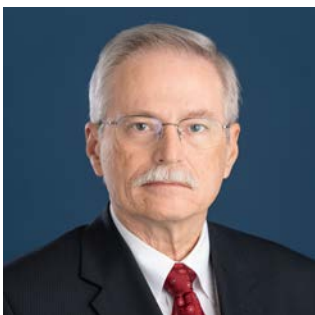
Daniel is a growth-focused leader with a passion for cultivating client relationships, streamlining operations, and driving business expansion. His leadership style emphasizes accountability, creativity, and sustained progress. He is highly effective in managing diverse teams and delivering value.

TEAM MEMBERS



David Sze, P.E., S.E., Lead Structural Engineer, 29 Years of Experience

David is a creative engineer specializing in high-wind and high-seismic design. He leads design teams and drives project success through thoughtful execution. His expertise in agile methodologies, risk management, and stakeholder engagement consistently delivers complex projects successfully for clients.



Steve Moore, P.E., S.E., Sr. Project Manager, 47 Years of Experience

Steven is experienced in leading cross-functional teams, delivering projects on time and within budget. With expertise in all building types and delivery methodologies he achieves project goals and fosters collaboration for optimal results from kick-off through completion.



Shimshon Zeidman, P.E., Assistant Project Manager, 10 Years of Experience

Shimshon is a seasoned project engineer with sharp technical acumen and a commitment to excellence across diverse structural projects. With a strong client-first mindset, he delivers added value through independent quality reviews grounded in deep knowledge of building codes and jurisdictional standards.



Randy Barcena, CAD/BIM Manager, 19 Years of Experience

Randy is effective in innovative team management solutions, user-centered approaches, and cross-functional collaboration. With expertise in visual storytelling and brand development, he transforms concepts into impactful experiences, driving engagement and success.

PROJECT EXPERIENCE



StripSteak Remodel Mandalay Bay
Las Vegas, Nevada
5,000sf | Tenant Improvement
Architect: Cuningham Group



**Clark County School District
Laura Dearing Elementary School**
Las Vegas, Nevada
70,211sf, 2-story | New Construction
Architect: KGA/PUNCH



**ORLA Mediterranean Restaurant
Mandalay Bay**
Las Vegas, Nevada
8,059sf | Tenant Improvement
Architect: Bergman Walls & Associates



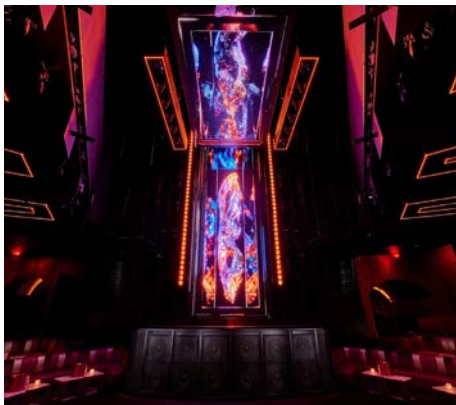
Las Vegas Day School Gymnasium
Las Vegas, NV
16,000sf | New Construction
Architect: Simpson Coulter Studio



North Haven First Person Health Clinic
North Las Vegas, Nevada
9,700sf | New Construction, Unbuilt
Architect: EV&A Architects



Las Vegas Arch Gateway Sign
Las Vegas, Nevada
Two, 80-foot arches supporting a 27' x 40'
LED city logo, 30 feet above pavement
Client: Yescos



**Marquee Day/Night Club
The Cosmopolitan**
Las Vegas, Nevada
Day Club 22,000sf/Night Club 50,000sf
Tenant Improvement with new 30-ft
kinetic, monolithic LED screen
Architect: Moser Architecture Studio



Giordano's Pizzeria
Las Vegas, Nevada
4,000sf | Tenant Improvement
Architect: Rockwell Group



Casa M
Henderson, Nevada
4,200sf | New Construction
Architect: CJ Hoogland

PROJECT EXPERIENCE



State of Nevada Summit View Youth Gymnasium Expansion
Las Vegas, Nevada
1,800sf | New Construction
Architect: Aptus



FAA Portland PDX Administration Building
Portland, Oregon
10,000sf, 2-story | New Construction
[Design-Build]
Client: Wu Construction/Perez Architects



C2 Lofts and Parking Garage
Las Vegas, Nevada
4-story, 2 Bldgs, 100 Units | New Construction
Client: Christopher Homes
**Experience of Adriana Gonorazky*



Nye County Civic/Community Center
Pahrump, Nevada
28,400sf | New Construction
[Design-Build]
Client: Korte/Aptus



Summit Residence
Las Vegas, Nevada
23,746sf | New Construction
Architect: Swaback Partners



RTC Maryland Parkway Bus Rapid Transit (BRT) Stations
Las Vegas, Nevada
44 Stations, 13 Miles | New Construction
Architect/Engineer: TSK/KME/GC Wallace



Ventana Storage Facility
Castle Pines, Colorado
100,000sf, 3-story | New Construction
Architect: EV&A Architects



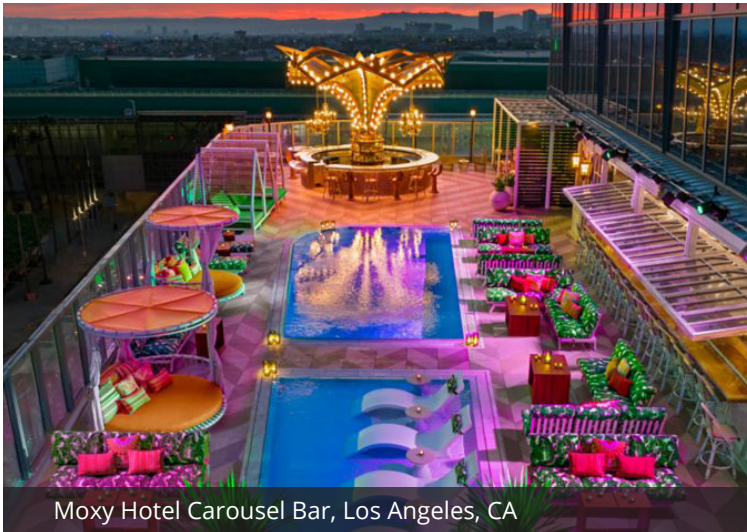
Onyx Apartments and Parking Garage
Las Vegas, Nevada
4-story, 63 Units | New Construction
Architect: Howard Perlman
**Experience of Adriana Gonorazky*



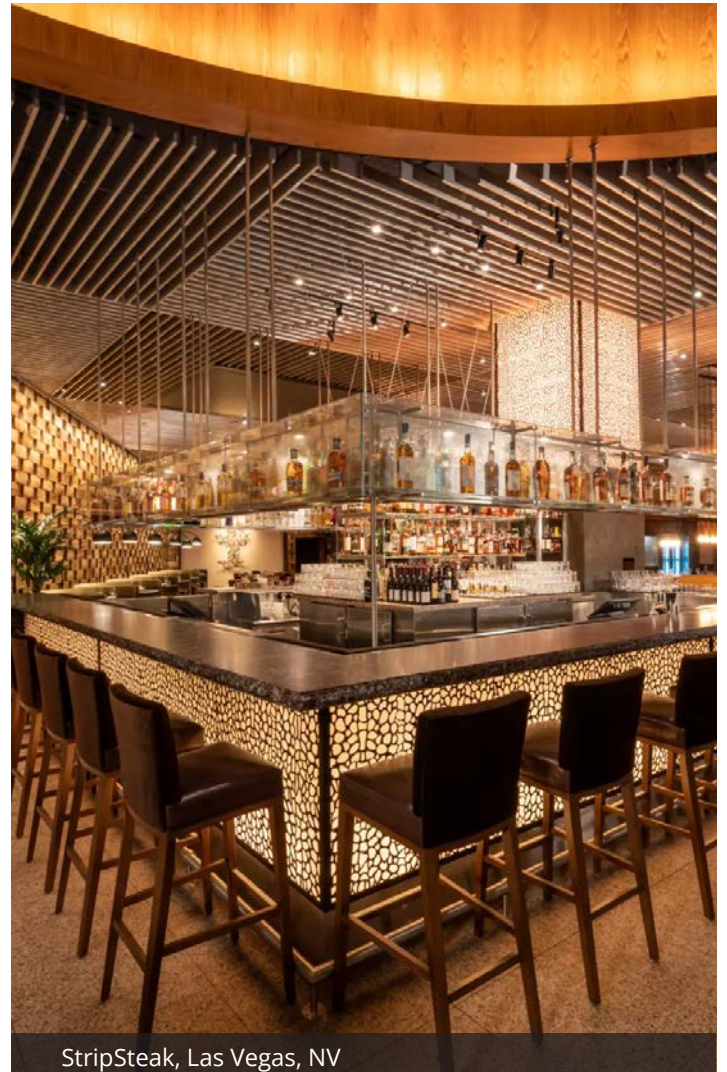
Bellagio Pool Deck & Como Cafe'
Las Vegas, Nevada
87,000sf | Renovation
Architect: Bergman Walls & Associates



The LINQ, Las Vegas, NV



Moxy Hotel Carousel Bar, Los Angeles, CA



StripSteak, Las Vegas, NV

"I am very pleased with the structural services provided by the Innova team. They work closely with me to ensure my design vision is achieved, which I truly appreciate."

Yihong Liu, Principal
Yihong Liu + Associates Architects



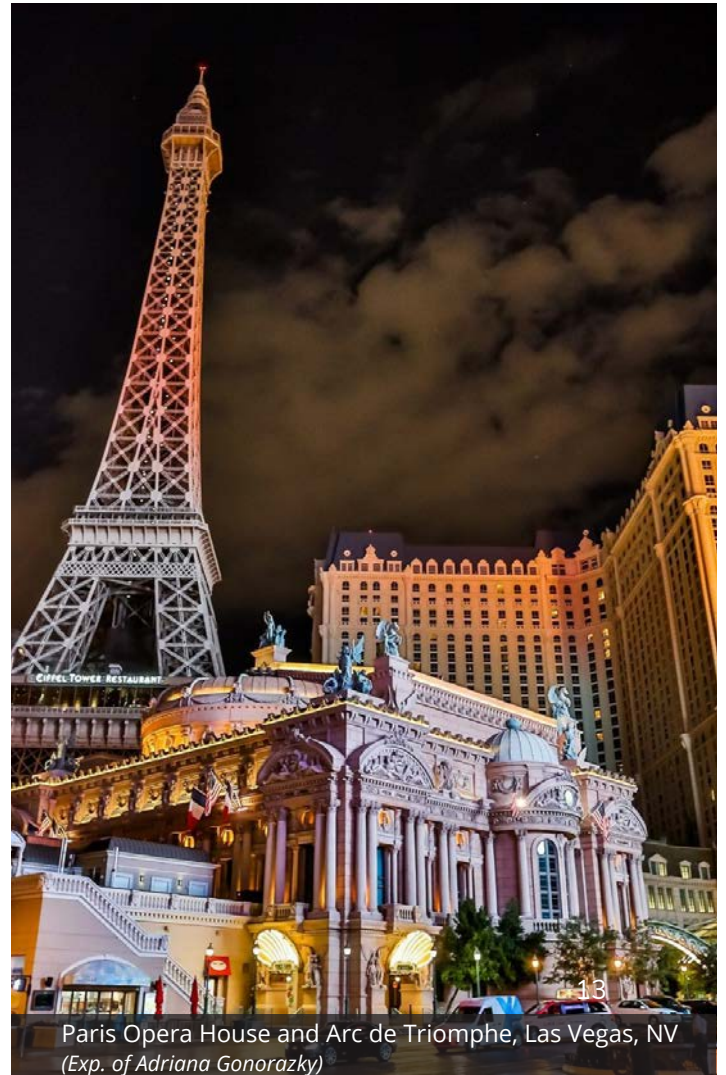
The Cosmopolitan, Las Vegas, NV (Exp. of David Sze)



The Cosmo Chandelier Bar Chandeliers, Las Vegas, NV



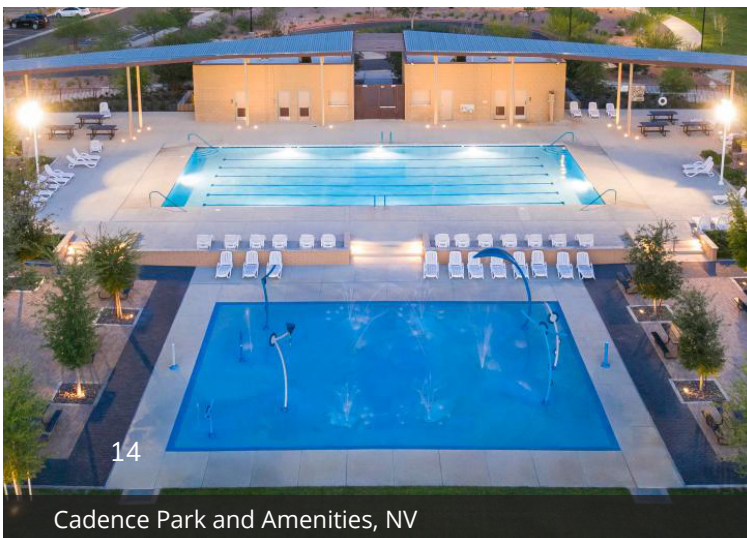
The Cosmo Casino Chandeliers, Las Vegas, NV



Paris Opera House and Arc de Triomphe, Las Vegas, NV
(Exp. of Adriana Gonorazky)



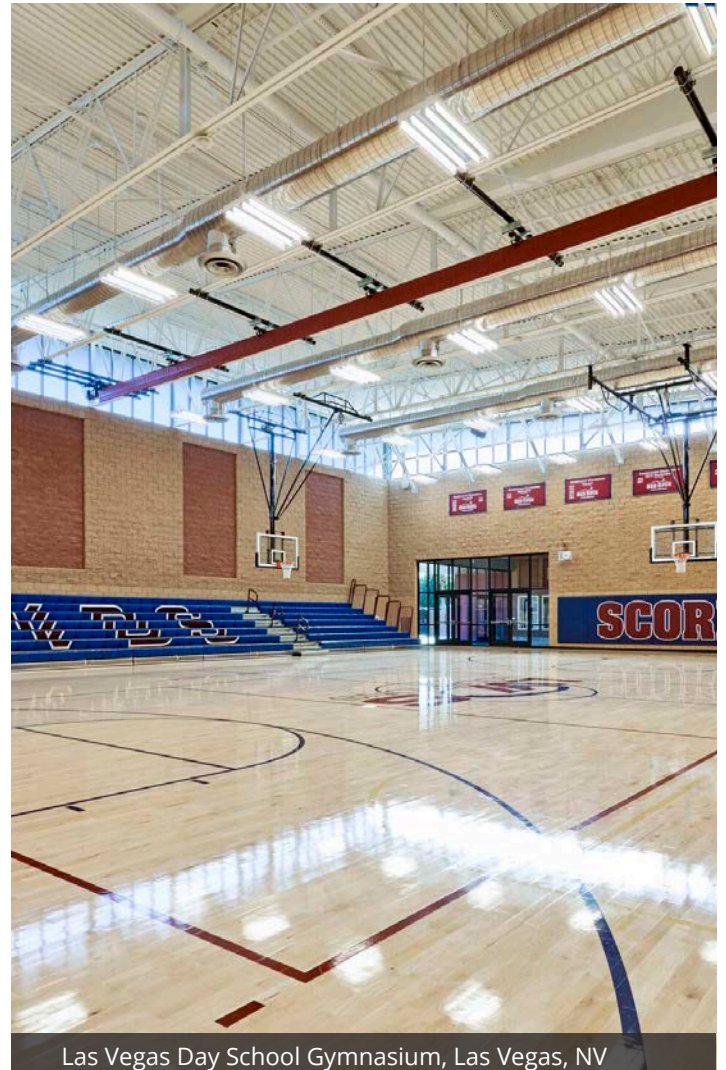
Bellagio Carbone Riviera Restaurant, Patio and Boat Dock, Las Vegas, NV



Cadence Park and Amenities, NV

"Innova was engaged to help secure approval for an LED dance floor installation at the DiscoShow venue in The LINQ Hotel. Innova quickly delivered detailed calculations and supporting documentation to accompany the drawings, enabling a smooth and timely approval. Their responsiveness and technical expertise kept the project moving forward without delay."

Meeta Shah, AIA, Principal
Bergman Walls & Associates Architects



Las Vegas Day School Gymnasium, Las Vegas, NV



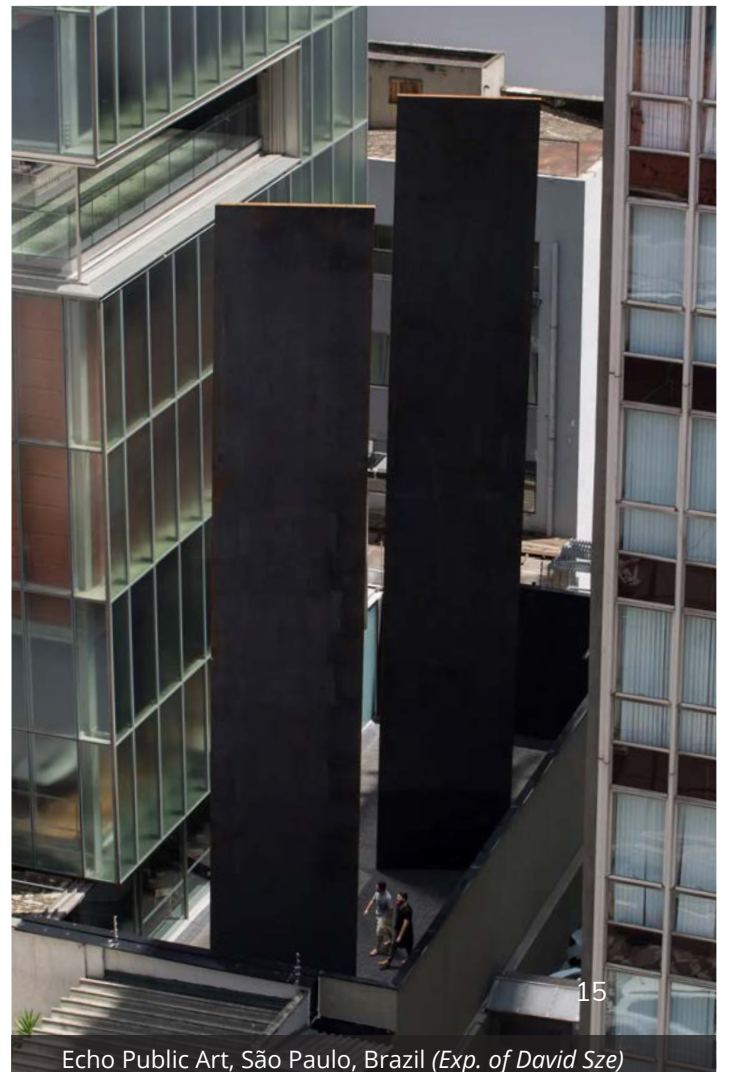
Bellagio Pool Renovation Como Cafe', Las Vegas, NV



Tommy's Car Wash, Denver, CO



Starbucks, Denver, CO



Echo Public Art, São Paulo, Brazil (Exp. of David Sze)



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