TALL BUILDINGS
Tall Buildings is a compilation of, literally and figuratively, far-reaching projects taken from vision to reality by ARCADIS design consultancies CallisonRTKL and Hyder. Drawing upon global resources to provide clients with the most comprehensive set of end-to-end planning, design, and program and construction management services available in the marketplace today, these sister firms continue to build upon a legacy of creating iconic structural that culturally, strategically and aesthetically fit neatly into their urban contexts. The results—these marvels of architectural and engineering ingenuity—host an ever-expanding array of activities at greater heights than before, crafting uniquely-shaped city skylines in a manner intended to be at once recognizable and newly inspiring.

With an eye toward cutting-edge development in premier and up-and-coming locations, these tall buildings are designed with core structure efficiencies and sustainable outcomes in mind. Our design and engineering professionals understand that pushing the envelope in tower design requires a superior level of precision, and that meeting tenant and client needs calls for the creative application of proven techniques matched with a masterful understanding of the latest technology. Within the walls, we strive to create elegant, adaptable, and interconnected environments that facilitate a productive and enjoyable user experience. Our goal is an integrated, informed design process that, when combined with the engineering feats of building the world’s tallest buildings, exceeds expectations.

Inside these pages are some of the most innovative and celebrated structures of our past, present and future. In presenting examples of our best work, we aim not only to showcase our strength in architectural engineering and design, but to gain new perspective from a comprehensive look at some of our greatest challenges and notable triumphs. And in doing so, we move forward with a better appreciation of the infinite possibilities that abound when our understanding of design is, for all intents and purposes, elevated.
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Azure Coast Tower
Qingdao, Shandong, China

At 400 meters high, the Azure Coast Tower’s iconic image is bolstered by dramatic surroundings: with the ocean close by and the Fushan Mountains as a backdrop, it anchors the coastline and provides spectacular panoramic views. Conceived as a vertical city, the tower includes office, hospitality, residential, retail, and dining spaces and links neighborhoods and business districts. Its shape facilitates air flow and reduces wind loads, while the serrated surface modulates wind pressure to avoid heightened acceleration, saving significantly on structural costs. Fins shade the glazing to avoid heat gain and provide surface space for integrated solar panels. Wind turbines embedded in the pinnacle supplement energy production and provide visual interest.

Client
Qingdao Yongsheng Real Estate Development Co., Ltd

Services
Conceptual Design

Height
400-meter

Site Plan
Azure Coast Tower
Continued

North Elevation

East Elevation

Observation
Hotel
Serviced
Apartments
High-Rise
Office
Low-Rise
Office
Tall Buildings

Hotel Sky Lobby

Observation

Hotel

Hotel Atrium
to increase ventilation by chimney effect

Bio-Atrium
to filter dust and absorb heat from in-take air before entering into the mechanical system

Bio-Atrium

Glass Partition Wall
to improve daylight into office space

Perimeters Chilled Beam

High Performance low-E insulated glazing with BIPV

Chilled Metal Panel Ceiling
to provide radiant cooling

Restaurant

Observation Observation Observation Observation Observation

Office

Office

Office Skygarden
North Star Tower
Changsha, Hunan, China

On a site bordered by two rivers in the Xinhe Delta, RTKL master planned a highly anticipated mixed-use development with the RTKL-designed North Star Tower and the Intercontinental Changsha as focal points. The 235-meter North Star Tower is a commercial office building designed with the client and tenants in mind. Its architecture makes a strong statement on Changsha’s skyline, elevating the client’s brand, while the building’s flexible floor plates and range of amenities will keep tenants in place longer.

Client
North Star Real Estate LTD.

Services
Conceptual Design
Architecture

Height
235-meter
North Star Tower
Continued
Belgrade Waterfront
Belgrade, Serbia

Located at the confluence of the Sava River, Belgrade, Serbia was of strategic importance to a number of ancient empires before enduring a varied and sometimes chaotic past. As Belgrade transitions into a brighter future, the new Belgrade Tower is a celebration of its renaissance and a symbolic representation of a city standing tall. The 230-meter tall tower anchors the new Belgrade Waterfront development and is comprised of Class A office space, serviced apartments and a five-star hotel—a total of 84,500 SM of new space linked by a pedestrian bridge crossing the river, designed as a world-class vertical destination. The tower, with its highly efficient exterior envelope, aims to achieve LEED certification.

Client
Tradewinds Corporation

Services
Conceptual Design

Height
230-meter
SKIN CONCEPTS
The development of the skin design is based on the ever-changing character of the water, transitioning from rippling and flowing to smooth and glass-like. Like the imprint of water on stone, the tower skin is a metaphor for change and reflection.
Brickell Financial Centre
Miami, Florida, United States

600 Brickell at Brickell World Plaza is a 40-story, Class A office building anchoring a landmark mixed-use development featuring a 30,000 square foot public space intended to rival New York City’s Rockefeller Plaza. The tower is the first high-rise office building in Florida to be certified LEED Platinum. The design team was committed to the application of green design principles, not only in terms of materials and systems but in creating an urban multi-use development that uses scale, density and a variety of functions to reinforce a sense of community and define a strong sense of place.

Client
Brickell Holdings, LLC

Services
Architecture

Height
160-meter
2929 Weslayan
Houston, Texas, United States

2929 Weslayan, a 40-story, 254-unit residential tower, provides a sustainable luxury rental option within Houston’s housing market. Numerous eco-friendly strategies, including rainwater harvesting and performance-based energy modeling, were implemented, and the project was designed to achieve LEED Silver upon its completion in early 2015. Keeping the exclusive clientele in mind, the form of the 141.7-meter tall tower was inspired by the flow and sophistication of an evening gown. Sculpted balconies give the building an iconic form while maintaining an efficient core, structure, and interior spatial layout. The building also features the first private, direct-access elevators for residential units in the city, providing security and convenience.

Client
Houston ROHV Investment, L.P

Services
Architecture

Height
141.7-meter

Ground Floor  Level Eight  Level Eleven  Level Twenty-Nine
AVIC Center Tower
Shenzhen, Guangdong, China

The 216-meter tall AVIC Center tower bookends the mixed-use CATIC City Shenzhen development, offering panoramic views and acting as an anchor to the adjacent city park. The design team implemented a number of green strategies to meet sustainability goals. Tempered insulated LOW-E glass, PVDF aluminum on the façade and a green roof reduce the heat island effect. Highly efficient HVAC and MEP systems conserve energy, while hollow glass provides a significant reduction in UV radiation. Architecturally, the use of glass fins adds a subtle texture to the smooth skin that echoes CATIC’s image of discovery, energy and speed.

Client
Shenzhen Catic Real Estate Inc.

Services
Architecture

Height
216-meter
Burj Vista
Dubai, United Arab Emirates

Taking full advantage of a premier location across from the world’s tallest tower, the 892-meter tall Burj Vista Towers enhance the urban fabric of downtown Dubai with an exclusive retail hotspot and luxurious high-rise units connected to the new Opera District via bridges from an elevated metro station. Originally designed by Adrian Smith/Gordon Gill Architects, RTKL was commissioned to redesign the base and crown of the project, including the penthouse units, tower roofs, and a four-story retail and amenity podium topped by an expansive amenity terrace featuring two pools, water features, and a tennis court. The team also reconfigured parking and back-of-house services and was instrumental in implementing wind tunnel testing and developing final details for complex exterior façade treatments.

Client
BHNS Engineering Consultants

Services
Architecture

Height
892-meter
COFCO Joy City  
Tianjin City, China

The 340,000 SM Joy City development is one of China-based developer COFCO’s most ambitious projects, consisting of a 37-story Class A office tower, high-end retail, and luxury residential units. Dubbed the “international lifestyle city,” Joy City responds to Tianjin’s growing prosperity with high-end design characterized by prominent glass towers and amenities. The office tower celebrates this notion of growth by taking on a form inspired by nature: a curved, hexagonal shape evokes a crop of corn, with each kernel representative of the individual office spaces. The six-faceted design creates more column-free corner offices, leverages panoramic views and houses special function rooms with two-level high spaces. To reduce heat gain and conserve energy, each of the six planes is clad with white metal panel and minimal mullion caps to create a smooth, reflective curtain wall.

Client  
Tianjin Jin Mao Properties Co., Ltd

Services  
Architecture  
Interior Architecture and Design  
Environmental Graphic Design

Height  
185.6-meter

Office Plan: Low Zone  
Office Plan: Mid Zone  
Office Plan: High Zone

Site Plan
Grand Hyatt Shenzhen
Shenzhen, Guangdong, China

As one of the most popular destinations at RTKL-designed City Crossing, the 36-story, 193-meter tall Grand Hyatt Shenzhen adds a five-star luxury component to the vibrant, mixed-use environment while offering spectacular views of the city and nearby Hong Kong. The now-famous “upside down” Grand Hyatt and the wider City Crossing development are landmarks for business and leisure travelers. In addition to winning rave reviews from visitors and travel publications around the globe, the project has been a major boon to Shenzhen, creating hundreds of permanent jobs and providing stable tax income for the local government.

Client
China Resources (Shenzhen) Co., Ltd.

Services
Master Planning
Architecture
Environmental Graphic Design

Height
193-meter
Hefei City Crossing: China Resources Towers One and Two
Hefei, Anhui, China

At the heart of a scientific and academic innovation hub, the China Resources Towers soar 180 meters and 280 meters, respectively, bookending the City Crossing MixC retail development in the city of Hefei’s “Green Zone.” The first tower, an A Class office building with a Grand Hyatt Hotel, and the second, a Class B office tower, feature square plans for efficient floor plates, exterior vertical fins to provide shading, capping finial details for each section of massing, and high-performance, low EGU glazing. The crowns are capped with a sloping form, one of which houses a rooftop garden for the hotel.

Client
China Resources Land (Hefei) Limited

Services
Architecture

Height
280-meter (Tower One)
180-meter (Tower Two)
Kunming Rainbow
Kunming, Yunnan, China

Formerly mid-tier Asian cities like Kunming are rapidly assuming global importance and embarking on major new development. RTKL’s design for Kunming Rainbow City encompasses five blocks of mixed-use offerings. The design for the development’s office towers, standing at 286 meters tall, was inspired by sky-reaching and solar-probing sunflowers. Unadorned but slender and tall, the towers incorporate an abstracted volumetric play of prismatic growths that shift and climb about their rooted and immovable central stalk. Each prism originates from the intersection of preceding volumes where continuous vertical columns and core are exposed and highlighted. The curtain wall skin employs a delicate composition of glass and metal elements that catch and reflect light, adorned with dye-sensitive and integrated photovoltaic modules that add a subtle layer of color.

Client
Yunan Spring City Fourtune Center Real Estate Co. Ltd.

Services
Architecture

Height
286-meter (Tower One)
171-meter (Tower Two)
The Imperium
Quezon City, Manila, Philippines

The Imperium is the second of five residential towers designed by RTKL for its mixed-use master plan development. The 205-meter tall tower responds to extreme winds and natural elements in both site positioning and form-making, using steel diagonal braces known as a Buckling Restrained Brace (BRC) system. The angled windows, lightshelves, and operable windows that make up the façade help reduce operating and electricity costs for the building and create a healthier atmosphere by providing more daylighting, better ventilation, nicer views and improved tenant well-being.

Client
Ortigas & Company, Limited Partnership

Services
Conceptual Design
Architecture

Height
205-meter
The Royalton
Quezon City, Manila, Philippines

As the first built portion of RTKL’s larger mixed-use master plan development, which includes four other residential towers, a high-end mall, hypermarket, cinema, and park, The Royalton is designed to be modern, iconic, and precedent-setting. At 202-meter tall, its undulating balconies and use of concrete, metal and glass take on the form of a layered veil lightly wrapping around the tower, exposing certain elements of the building. By employing site-specific wind tunnel testing, seismic hazard analysis and performance-based design, the building’s design demonstrates improved durability and resistance in the form of a full-height reinforced concrete core, reinforced concrete wing walls and post-tensioned flat slab floor plates.

Client
Ortigas & Company, Limited Partnership

Services
Conceptual Design

Height
202-meter
Viridian Residential Tower
San Juan, Manila, Philippines

Viridian is an iconic 56-story, 200-meter tall high-rise residential tower on the Manila cityscape offering residents panoramic views of Manila Bay and the nearby golf course. As part of RTKL’s master plan for a larger redevelopment surrounding an already successful shopping mall, Viridian at Greenhills is a premier location for luxury living in Manila. Located on a strategic feng shui-influenced site, the design concept includes a blend of traditional Filipino and Chinese vernacular patterns and forms. Balconies and skygardens at various intervals open up to panoramic vistas while fins and ledges help shade residents from the harsh sun.

Client
Ortigas & Company Limited Partnership

Services
Conceptual Design
Architecture

Height
200 meter
W Hotel
Beijing, Hebei, China

W Hotel, an urban oasis with unmatched views of the Forbidden City, is a 350-key, 85.8-meter tall tower that elevates the modern hotel experience in China with its luxurious offerings, double height volumes and access to a sunken garden through pavilion atriums. The garden provides light and funnels activity to and from the meeting rooms and restaurants on the lower levels, creating a unique indoor / outdoor experience. The tower extends upward using an exterior wrapping emulating a bamboo forest, and a rooftop restaurant allows diners to take advantage of westerly views within the ancient city walls.

Client
Gloria Plaza Hotel Co., Ltd.

Services
Architecture

Height
85.8-meter
Wuxi Suning
Wuxi, Jiangsu, China

In the robust commercial center of Wuxi, RTKL designed a 2.3-hectare mixed-use development, as well as a five-star 350-key hotel. The focal point of the project is a pair of twin towers, including a 48-floor south tower and a 68-floor north tower. The latter is 328 meters high, making it the tallest structure in Wuxi’s central business district. With a FAR of 8.5 and a gross floor area close to 320,000 square meters—including retail, hospitality, office and residential space—the tower is designed with density and efficiency in mind. Irregular and undulant lines, juxtaposition of metal and glass elements and simple, delicate façades allude to the clean, modern image Wuxi strives to maintain.

Client
Suning Real Estate Group Co., Ltd

Services
Architecture
Interior Architecture and Design
Environmental Graphic Design

Height
328-meter
Raffles Hotel
Jakarta, Indonesia

Standing tall at 253 meters, the premier hospitality component of the Ciputra World mixed-use development is the five-star Raffles Hotel, featuring 174 suites and world-class amenities such as a rooftop and indoor pool, a health club and fitness centre, tennis courts, a ballroom, banquet space and a luxury sky bar with spectacular views of the city. The dramatic tri-partite tower assembly establishes an unmistakable and dynamic skyline profile from long distances. The tower and podium massing gestures emphatically towards the highway, recognizing the importance of sightlines and visibility to the project.

Client
PT. Ciputra Adigraha

Services
Design Guidelines
Architecture

Height
253-meter

Landscape Plan
Elevation
DBS Bank Tower
Jakarta, Indonesia

DBS Bank Tower offers room to grow for Jakarta’s bustling economy. Ciputra World is a 583,000-SM mixed-use development that blends a five-star Raffles Hotel, 34-story serviced-apartment tower, a seven-story mall and a Class A office building along the city’s Satrio Corridor. The latter, DBS Bank Tower, offers 40 floors of office space with floor plates ranging from 1,800 to 2,200 square meters. Its inclusion in the master plan was intended to help alleviate some of the pressure from the limited supply of office space and single-digit vacancy rates thanks to increased business confidence in Jakarta. Insulated glass, onsite water treatment and reclamation, high-efficiency mechanical systems, and lighting and thermal comfort controls are some of the many sustainable aspects incorporated into the design.

Client
PT Ciputra Adigraha

Services
Design Guidelines
Architecture

Height
194-meter
Fantasia Meinian Plaza
Chengdu, Sichuan, China

For the 416,000-SM mixed-use development anchored by an art center at its core and featuring a sustainable showcase plaza, RTKL designed three Class A high-rise office buildings that would appeal to urban workers craving a dynamic environment capable of accommodating a seamless transition from work to play. The office towers are inspired by simple rectangular forms that achieve the objective of creating a consistent, modern and harmonious architectural image while maintaining distinct identities. Optimizing efficient and flexible layouts was key to the success of the overall design.

Client
Huayangnian Group

Services
Architecture

Height
163.8-meter (Office Tower B)
204.1-meter (Office Tower C)
204.1-meter (Office Tower D)
Xi’an International Center
Xi’an, Shaanxi, China

RTKL designed Xi’an International Center to provide an all-day experience for visitors, office workers, and residents. The north parcel of this urban mixed-use project is anchored by two 171.8-meter International Class A office buildings, which are among the tallest in Xi’an, resulting in a memorable image when viewed from any direction. An extremely efficient square floor plate reduces construction costs by minimizing earthquake design loads and allowing for a compact form and simple load distribution. The towers’ square form and skin are designed to reduce heat gain and cooling costs in the summer months.

Client
Shanxi Tiejian Investment Co. Ltd

Services
Master Planning
Architecture
Landscape Architecture
Interior Architecture and Design

Height
171.8-meter
Warsaw Trade Tower
Warsaw, Poland

This 71,000-SF mixed-use tower is not only a standout in the Warsaw skyline, but also serves as the corporate headquarters for the multinational Daewoo Corporation. The design meets the client’s efficiency goals and is particularly notable for its numerous energy-conserving building features. In addition to retail and entertainment options, Warsaw Trade Tower also features a five-story, multipurpose atrium. The tower symbolizes Daewoo’s investment in the Polish national economy and highlights Warsaw’s emergence as a prominent center of commerce.

Client
Warsaw Trade Tower Sp. Z.O.O.

Services
Architecture
Interior Architecture and Design

Height
208-meter

Site Plan with Landscape
750 East Pratt Street
Baltimore, Maryland, United States

750 East Pratt Street raises the bar for downtown Baltimore’s office market. This Class A corporate tower provides a gateway to the city’s east side and offers highly visible speculative office space fitted with state-of-the-art technology and amenities. Built on top of an existing Baltimore Gas & Electric substation, 750 East Pratt Street makes the best use of its location at the convergence of two city grids, and its curved façade takes advantage of views to the Inner Harbor. An aluminum-clad architectural wall divides the building from east to west. The bulk of the office space stands on the building’s south side, offering a much closer relationship with the water than neighboring office buildings, which are set back from the street. A four-story sky lounge offers retail and amenities for tenants and provides an entrance point for elevators and the sky bridge to the adjacent parking garage – a rare commodity in downtown Baltimore.

Client
The Whiting-Turner Contracting Company

Services
Architecture
Interior Architecture and Design

Height
89.3 meter
Taskin Office Towers
Changsha, Hunan, China

Simple, clean, sophisticated: the design of the Taskin City Plaza office towers is indicative of the environment that the overall development aims to create. At 100 meters tall, these Class A office towers offer a total of 65,000 square meters of space. The massing is inspired by the famous column-like mountains in the Changsha region, while the high-end retail podium is a visual reference to rock formation at the base. The skin uses high-performance glazing with sun-shading devices and a fritted pattern, which work in tandem to reduce solar heat gain. One of the two towers will anchor a public plaza featuring a broadcast center and other amenities for the city’s use.

Client
Hunan Taskin Investment Company, Limited

Services
Architecture

Height
100-meter
Taskin Office Towers
Continued

Level Roof

Level Typical

Level Six

Solar Movement

South Elevation
Yanzhan Office Towers
Xi’an, Shaanxi, China

Yanzhan Office Tower is 165 meters tall with 38 levels and 65,000 square meters of Class A office and residential space that aims to meet the area’s growing demand. Given the tower’s hybrid function, it is designed to complement its neighboring uses, including retail, dining and entertainment in the form of a performance auditorium, cinema and museum. With a slender, elegant form, the tower’s volumetric design provides vertical readings as the tower meets the sky at the top and lightly intersects with the retail podium at the bottom.

Client
Xi’an Zhongma International Company, Limited

Services
Architecture

Height
165-meter
Qianhai
Guangdong, Shenzhen, China

Submitted as part of a design competition, the plan for this 290-meter tall commercial tower achieves two main goals: maximizing floor plate efficiency and endowing the building with spectacular views of Qianhai Bay. The Qianhai district is strategically positioned as a pilot for facilitating cooperation between mainland China and Hong Kong and industrial innovation, and the 120,000-square meter tower serves as part of a development intended to be a core economic driver. The top 18 floors host a five-star hospitality program with an internal sky atrium, modern amenities and a world-class guest experience. The base of the tower provides five stories of space for stock exchange trading.

Client
Excellence Real Estate Group

Services
Conceptual Design
Architecture

Height
290-meter
Qianhai
Continued

Tall Buildings

North Elevation

VIEW ORIENTATION
Maximize forms for maximum exterior views. Orient floorplates towards marquee views in majority of spaces to increase rental values.

WIND ORIENTATION
Carve corners to create wind vortex shedding. Wind vortex shedding reduces wind loads and structural costs. Dynamic forms differentiate towers from competitors in the marketplace.

EFFICIENCY
Maximize Floor Plate Efficiency. Extrude vertically to meet program requirements.

Sky Restaurant
Service Residences

Qianhai Bay View
Hong Kong View

Strong Winds
Sustaining Winds

280M
Retail
Int’l Class A Office
Trading Floors
Service
Residential
Sky Restaurant

Qianhai
Continued
Ba Shang Jie
Hefei, Anhui, China

The Ba Shang Jie towers stand 300 meters high along a main east-west thoroughfare of Hefei, China—a city with a storied past and a promising future. Their strong, signature profiles on the skyline create a bold new portal that leads into exiting new development, signaling a new era for business and opportunity in the region. The architecture’s contemporary form as well as its imaginative use of pattern and materials make the towers a standout landmark. The form of the towers twists to create a higher wind load resistance while a horizontal sun shade on the skin responds to heat gain throughout the day.

Client
Glorious Property Holdings Limited

Services
Master Planning
Conceptual Design
Architecture

Height
300-meter
Alta Monte
Mumbai, India

Located in an up-and-coming suburb of Mumbai, Alta Monte sets a new precedent for high-end housing in the area. The master plan maximizes a small site with four residential towers to meet Mumbai’s growing demand. A large three-story amenity podium includes restaurants and a hypermarket. Lush green spaces provide a large gathering place for residents, while an elevated jogging track provides residents with a respite from the bustle of the city below.

Client
Omkar Realtors and Developers Pvt. Ltd.

Services
Master Planning
Architecture

Height
290-meter
Chengdu MixC
Chengdu, Sichuan, China

Positioned with a deliberate north-south facing orientation to mitigate solar heat gain, the tower’s signature components are vertical, slender segments that stand closely together creating the impression of tall and graceful unity. The tower’s state-of-the-art systems infrastructure includes an integral, energy-efficient curtain wall design with operable windows in every bay and throughout all floors. The key to the tower’s sustainable landscape design are bioswales that reduce strain on the municipal storm water drainage system and water-efficient drip irrigation that is used throughout the active gardens, green roofs and sidewalks landscaping. Designed for reduced energy dependency and maximum occupant comfort, the tower received LEED Gold certification.

Client
China Resources Land Ltd.

Services
Site Planning
Interior Design
Sustainable Design
Architecture

Height
203-meter
Crescent Bay, located in Parel, includes six residential towers on top of a seven-story parking podium. The placement of the triangular towers maximizes views towards the water to the east. The towers are topped with multi-story glass lanterns, creating a crescendo starting with a 39-story tower and culminating into a 56-story luxury tower. A sky street joining the towers at mid-level features a jogging track, gathering spaces, and recreational amenities. The surrounding lush landscaping creates a generous, unique green space within the crowded city of Mumbai.

Client
Larsen & Toubro

Services
Master Planning
Architecture

Height
280-meter
Crescent Bay
Continued

Site Plan
Dongping M-City
Foshan, Guangdong, China

Inspired by the natural setting of the surrounding city, Dongping M-City is a comprehensive city landmark—the place to shop, to entertain, and to live. When all the types of uses, modes of transportation and people mix together, the design expresses the natural setting of the city and allows people to experience a comfortable balance between the fast moving city and the surrounding green energy. The speed of motion is frozen, creating moments of respite from travel and fostering a balanced experience within the city.

Client
Foshan Jinhualai Investment Co. Ltd.

Services
Master Planning
Interior Design
Construction Administration
Architecture

Height
242-meter
Hongyi Plaza
Shanghai, China

Inspired by New York’s iconic Times Square, Hongyi Plaza is a high energy urban hot spot within China’s most renowned shopping district. The development’s prominent gateway location positions it as prime promotional space, ideal for its wraparound LED screen and media wall. Premier retail, restaurant, entertainment and office space is situated above one of the city’s busiest subway stations at Nanjing Road to serve commuters, professionals and shoppers.

Client
Shanghai Hongyi Property Co. Ltd.

Services
Site Planning
Graphic Design
Architecture

Height
104-meter
Hopson International Plaza
Shanghai, China

Designed to evoke an urban and modern aesthetic, Shanghai Hopson International Plaza reflects the unique spirit of the city. Along the main axis through the site, one can experience a variety of spaces within an organic combination of business features. The use of water features symbolizes the ideas and visual quality of WuJiaoChang Business Circle. All of these special moments enhance a beautiful versatile space while maintaining a gateway into another world in the heart of Shanghai.

Client
Hopson International Plaza

Services
Master Planning
Interior Design
Environmental Graphic Design
Construction Administration
Architecture

Height
176-meter
Hopson International Plaza
Continued
Kessaku
Bangalore, India

Located at one of Bangalore’s premium addresses, Kessaku offers a peaceful getaway from the outside world. Inspired by Japanese elements of nature, Kessaku’s ‘villas in the sky’ showcase breathtaking and uninterrupted views from every angle of its five towers. Designed to exude premium living and an unforgettable experience, this space raises the bar by offering quality living spaces and state-of-the-art entertainment featuring multi-level outdoor pools with jacuzzis, a high-tech gymnasium, and sky terrace amenities that includes a jogging track, infinity pool, and spa.

Client
Palladium Construction Pvt. Ltd.

Services
Interior Architecture and Design Architecture

Height
120-meter
Kessaku
Continued

Elevation (Side)

Elevation (Front)
King Abdullah
Riyadh, Saudi Arabia

In concert with Saudi Arabia’s effort to increase its presence in the global economy, the design for parcel 3.04 connects a world-class LEED-certified office with other parcels that include residential and retail uses along the Wadi pedestrian network within King Abdullah Financial District. To maximize sustainability, indigenous materials and water resource conservation are incorporated throughout the development. The site orientation also provides self-shading and cooling for energy efficiency. This project is located near the center of the development, which is set to become the leading financial district in the Middle East.

Client
Rayadah Investment Company

Services
Site Planning
Interior Design
Landscape Design
Graphic Design
Architecture

Height
144.6-meter
King Abdullah
Continued
Loncin Sun Valley Tower
Chongqing, China

Located in the Guanyinqiao Commercial Zone in Chongqing’s highest terrain, the proposed 400-meter Loncin Tower is inspired by Brancusi’s Endless Column sculpture and serves as a landmark structure enjoying grand territorial views of Chongqing’s unique geography. The mixed-use tower is articulated in a series of receding tiers and contains office space, a five-star hotel and luxury apartments capped by a sky club and a 40-meter high lantern. The tower is part of a mixed-use development that includes a five-level shopping complex and two additional towers.

Client
Loncin Group

Services
Architecture

Height
400-meter
Lotte Center Hanoi
Hanoi, Vietnam

Lotte Center Hanoi, a 65-story mixed-use tower, is located in the capital city’s embassy district and serves as a cultural landmark for visitors and residents alike. The tower includes serviced residences with amenities, a five-star hotel, office space, sky gardens, a rooftop observatory, and a shopping mall. The tower’s dynamic exterior form celebrates the cultural heritage of Vietnam by following the lines of the Vietnamese long-dress, the Ao Dai. A vertical spine of stacked sky gardens are the form-defining element of the tower and constitute its core value. The sky garden atrias are four-story (office floors) and six-story (residential and hotel floors) cross ventilated spaces that provide access to daylight and panoramic city views.

Client
Coralis Vietnam Company Ltd.

Services
Master Planning
Sustainable Design
Architecture

Height
275-meter
Meixi Lake International Plaza
Changsha, Hunan, China

Meixi Lake, located to the west of Xiangjiang River, is a key pilot area for development connecting the old city, Bingjiang new town and the Xiangyuan district. The main design goal was to increase land value through architecture and landscaping. The design concept is based on the sand crystals of the Xiang River—the erosion metaphor is translated into the pared-down form of the tower base.

Client
BBG Commercial Corporation

Services
Master Planning
Architectural Design
Interior Design
Environmental Graphic Design

Height
239 meters

Site Plan
A beacon for the Dadar neighborhood in Mumbai, Park Marina is an exclusive condominium tower commanding impressive views of Mahim Bay and the Arabian Sea. The tower includes 32 three-bedroom units and 10 four-bedroom units. A two-story club with a cantilevering pool is located at the center of the building, while a five-bedroom, three-story penthouse at the top offers 360-degree views. The tower is capped with curved sails, referring the sea by day, and backlit at night to recall a lighthouse. Retail activates the street level, providing additional value and revenue generating opportunities to the local community.

Client
Richa Infrastructure

Services
Architectural Design
Interior Design

Height
187-meter
West 8th
Seattle, Washington, United States

West 8th embraces its location in the transition zone between Seattle’s Central Business District and South Lake Union neighborhoods. The design is a response to the developer’s goal of creating a speculative office building that is distinctive yet respectful of its surroundings. The LEED Gold building features state-of-the-art office spaces, luxurious amenities and sweeping Lake Union views. The building’s appeal is enhanced by environmentally friendly materials and generous daylighting.

Client
Touchstone Corporation

Services
Site Planning
Architectural Design

Height
109.7-meter
Yintai Center
Chengdu, Sichuan, China

Located within the leisure capital of China, the Yintai Center incorporates Chengdu’s colorful cultural atmosphere and leisure lifestyle. This all-in-one retail and entertainment destination caters to the high-end business crowd with a five-star-plus hotel, boutique service apartments, five Class A office buildings, as well as luxurious residential towers. Shu embroidery, a local cultural motif, is used in the curtain wall design and is a major architectural feature. Horizontal corrugated metal panels are cantilevered from the curtain wall to create a dynamic visual art pattern.

Client
Yintai Group

Services
Master Planning
Architectural Design
Construction Administration

Height
220-meter
Yueda 889
Shanghai, China

Located in Jingan District, one of Shanghai’s important economic regions, Yueda 889 is a dynamic, mixed-use hub catering to the community’s work and play lifestyle. A transparent canopy connects an open-air shopping and leisure center with an iconic corporate high-rise, creating an energetic indoor-outdoor experience. The development’s contemporary steel and glass aesthetic and mix of renowned international retail tenants combine to create a signature commercial destination that heralds the region’s urban transformation.

Client
Yueda Real Estate Development Company

Services
Master Planning
Architectural Design
Graphic Design

Height
126-meter
Burj Khalifa
Dubai, United Arab Emirates

It’s a mix of hospitality, residential, boutique offices, dining and recreational amenities like no other. Standing at 829.8 meters with 163 levels and 154 floors of occupied space, the Burj Khalifa has become a legend in its own right as the world’s tallest building. The work that went into making this unforgettable icon functional was no less impressive. Hyder was responsible for project and contract documentation, as well as providing structural, geotechnical and façade design as well as construction supervision. Hyder embraced the complexity and enormity of these challenges, contributing mightily to what has been dubbed, among other superlatives, an “urban masterpiece.”

Client
Emaar Properties PJSC

Services
Architect of Record
Supervision Consultant

Architect(s)
Adrian Smith of Adrian Smith + Gordon Gill Architecture
George J. Efthathious and Marshall Strabala of Skidmore Owings and Merrill LLP

Height
829.8-meter
Doha Convention Centre Tower
Doha, Qatar

With panoramic views of the popular Doha Corniche waterfront promenade, Doha Convention Center Tower stands at 550 meters and will, upon completion, be the second tallest tower in the world after the Burj Khalifa. A five-star hotel, serviced and residential apartments and office space make up the different layers of the building, which is destined to become an important regional and international exhibition venue. Hyder is providing detailed design, documentation and construction supervision of structural, MEP and civil engineering works, as well as waste management and traffic impact assessment.

Client
Qatari Diar Real Estate Co.

Services
Structural Engineering
Civil Engineering

Architect(s)
Murphy/Jahn Architects

Height
550-meter
Dubai Tower Doha
Doha, Qatar

Originally designed as a 95-level, mixed-use tower, Dubai Tower had its ground-breaking in 2007 and was put on hold a year later to be transferred to a new lead and redesigned. The new Dubai Tower will still rise high above the surrounding buildings, but has been brought down in scale to a 438-meter tall. 50-50 floor tower with a seven-star JW Marriott hotel, residential apartments, retail and office space. Hyder is the only member of the original design team who remains engaged.

Client
HH Sheikh Mohammed bin Rashid Al Maktoum

Services
Structural Engineering
Traffic Engineering
Façade Engineering

Architect(s)
Robert Matthew Johnson Marshall (RMJM) Architecture & Masterplanning

Height
438-meter
Pentominium
Dubai, United Arab Emirates

Upon completion, Pentominium Tower will be the tallest residential building in the world at 620 meters—and its architecture and offerings are designed to live up to lofty standards. Located in Dubai Marina, the tower’s name is inspired by its novel unit design: each floor consists of only one four-bedroom unit of over 600 square meters. Amenities include a sky lounge and pool, business center, health clubs, a cigar lounge, banquet hall, theatre and observation deck.

Client
Trident International Holdings

Services
Structural Engineering
MEP
Geotechnical
Façade Engineering Services

Architect(s)
Aedas

Height
620-meter
Shams Skytower
Doha, Qatar

Located at the entrance to the Shams development, a thriving new community located in the Al Reem investment zone, Sky Tower is a 74-story, 299-meter mixed-use tower with a combination of high-end retail, office, and residential space. Hysol was appointed to provide structural, façade, and geotechnical design. The structural design is a combination of conventional and composite, with reinforced concrete flat slabs and columns gained with hollow core precast sitting on perimeter steel beams. The use of outriggers eliminated the need for artificial mechanical damping controls.

Client
RW Armstrong

Services
Structural Engineering
Façade Design
Geotechnical Design

Architect(s)
Arquitectonica

Height
299 meters
Emirates Towers
Dubai, United Arab Emirates

To design a pair of towers housing premium office space and luxury hospitality, Hyder set up an extensive international IT network driven by a central server in Dubai with connections to remote servers in the offices of design teams located around the world. This global collaboration resulted in a truly innovative construction and engineering approach. Cladding made of silver-coloured glass and metal panels paired with a granite podium enhance the triangular shaped towers, which rise 355 meters and 305 meters above the ground. Hyder also carried out a comprehensive programme of wind tunnel testing as part of design development.

Client
HH Sheikh Mohammed bin Rashid Al Maktoum

Services
Structural Engineering
Civil Engineering

Architect(s)
Norr Group

Height
355-meter (Office)
305-meter (Hotel)
Tall Buildings

The Wave
Gold Coast, Australia

Balconies flow and wrap around this 35-story residential tower like waves, which is only fitting for this aptly-named landmark development that also offers four levels of retail and commercial space in the heart of Broadbeach. The goal was to endow each unit with a 360-degree penthouse view encompassing a panoramic spectrum of the ocean to the hinterland from Surfers Paradise to Coolangatta. Hyder provided concept design, schematic design, structural design and documentation as well as construction phase management. Notable features include reinforced concrete basement walls and slabs that resist hydrostatic pressure and reinforced concrete cantilever balconies with curved pre-cast edge panels. Protruding over the retail areas are large post-tensioned cantilever awnings, adding visual interest to this innovative structure.

Client
Ninaford Pty Ltd, Framwelgate Pty Ltd

Services
Civil Engineering
Structural Design and Documentation
Construction Phase Management

Architect(s)
DBI Design

Height
364-meter
DIFC Lighthouse Dubai
Dubai, United Arab Emirates

A 400-meter tall commercial office tower with ambitious sustainability goals, DIFC Lighthouse required an independent structural and geotechnical peer review on a fast-tracked schedule. Hyder recommended a rolling program of review and report production to govern the process. Suggested improvements with regard to core openings, spring stiffness assessments and overloading simplified various construction defects identified upon review. Thanks to Hyder’s expertise and proactive approach, the completed project delivered amplified value and reduced design and construction costs.

Client
Dubai International Financial Center

Services
Structural Engineering
Geotechnical Review

Architect(s)
Atkins

Height
400-meter
Circle on Cavill
Surfers Paradise, Australia

Rising above the Surfers Paradise Central Business District, a pair of residential towers give tenants an opportunity to live in the midst of a true civic hub featuring public gatherings, arts and entertainment, alfresco dining and boutique shopping. In tandem with CPB Engineering, Hyder conducted expert structural analysis and wind tunnel testing to bolster the design against weather-related threats, resulting in a lateral stability system that incorporates high-strength concrete shear walls and coupled slabs. The vertical structural elements were also meticulously designed with lateral loads in mind. The innovative basement design descends four levels below ground in water-charged sands and incorporates diaphragm wall technologies.

Client
Sunland Group

Services
Structural Engineering
Civil Engineering

Architect(s)
Sunland Group

Height
220-meter (North Tower)
158-meter (South Tower)
CMA Tower
Riyadh, Saudi Arabia

At 400 meters tall, CMA Tower offers premium office space covering 80 floors and 185,000 square meters with a multilevel podium structure to accommodate a two-story auditorium. It rises above the tallest of the five structures that make up the King Abdullah Financial District and serves as the centrepiece of the office district. Hyder’s scope of work includes the optimization of the current structural schematic design and execution of the remaining design stages. At each step of the way, the building will incorporate energy efficient design measures in accordance with the LEED rating system to achieve LEED Gold certification.

Client
Capital Market Authority

Services
Structural Engineering

Architect(s)
HOK

Height
400-meter
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