

Structural Integrity is Our Business



Mr. Reinhart has extensive experience in the field of structural engineering design, consultation, assessments and inspection. He has gained a wealth of experience on a wide variety of projects for public and private clients. He is involved with planning, scheduling and estimating potential projects. He has prepared detailed layouts and designs for projects encompassing concrete, steel, masonry, and timber structures using both static and dynamic analysis. He has performed condition surveys and prepared design and construction plans and specifications for the renovation and restoration of existing structures. He has prepared drawings and specifications for client reviews, contractor bidding, permitting, construction, and record documentation. Mr. Reinhart also has architectural engineering experience in acoustics, roofing design, lighting design and basic HVAC design.

Mr. Reinhart has performed structural engineering design for clients including architects, other engineering disciplines, contractors, building owners, developers, and public entities. He has supervised and checked final design calculations and drawings as well as provided construction and threshold inspections.

SELECT PROJECT EXPERIENCE

Commercial

Office/Retail

Azele Office Building, Tampa, Florida:

Principal in Charge/Project Manager – performed structural design and prepared construction documents (drawings and specifications) for a three-story office building with parking on part of the first level. The total estimated area of the completed facility is approximately 12,790 square feet, including 2184 square feet of parking on the first level. The construction of the structure is to be comprised of the following: cast-in-place concrete foundations and floor slab on grade, steel columns and steel framed composite elevated floor and roof slabs. The exterior walls utilize a curtain wall system.

Calypto Divers/Tampa, Florida

Principal in Charge/Project Manager - performed structural design for a one-story building addition encompassing approximately 3500 square feet adjacent to an existing one-story structure. The new building contains an indoor pool for diving instruction, bathrooms, mechanical mezzanines and storage areas. The construction of the new addition is comprised of the following: shallow cast-in-place concrete spread foundations and floor slab on grade, reinforced concrete masonry unit (CMU) walls, open web steel bar joists, and metal roof deck.

6/10 Corporation, Winter Haven, Florida

Principal in Charge/Project Manager - performed a condition survey of the structure to observe the state of the discernible structural components of this two story building constructed in the early 1900's. BillerReinhart prepared design documents (drawings and specifications) for the recommended repairs and modifications, including second floor timber framing strengthening, second story exterior wall strengthening and timber roof framing strengthening. BillerReinhart performed site visits during construction to observe progress.

Publix Hyde Park, Tampa, Florida

Principal in Charge/Project Manager - performed Threshold Inspector duties as per Chapters 471 and 553 of the Florida Statutes for the 165,000-square-foot three-story grocery store facility with elevated parking on the second and third levels. The structure consists of cast-in-place concrete foundations and floor slab on grade and precast concrete columns, beams, wall panels and floor elements. BillerReinhart reviewed structural drawings, specifications, and submittals, performed site visits to observe project construction, and prepared reports documenting the work to the building code official having jurisdiction over the project.

EDUCATION

Bachelor of Architectural Engineering - The Pennsylvania State University, 1990
Master of Engineering - University of South Florida, 1996

REGISTRATIONS

Florida PE No. 50076
Mississippi PE No. 17609

Threshold Special Inspector: Florida
No. 1127

NCEES Council Record No. 14541
(National Council of Examiners for
Engineering and Surveying)

ASSOCIATIONS

American Concrete Institute
Architectural Engineering Institute of the
American Society of Civil Engineers
International Concrete Repair Institute
Penn State Alumni Association
University of South Florida Alumni Association

PERSONAL INTERESTS

Bikram Yoga, Running, Swimming, Drawing,
Spending Time at the Beach, Building Sand
Castles/Sand Sculpting

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Tampa Bay Marina, Tampa, Florida

Principal in Charge/Project Manager - prepared design drawings and specifications and bid documents for the restoration of deteriorated reinforced concrete parapet walls at the 4-story office building. BillerReinhart assisted the client and owner during the project's bidding phase to select a contractor. BillerReinhart also performed construction administration services including the following: conducting site visits during the restoration work to observe construction progress, submitting reports documenting the work to the client and building code official having jurisdiction, and reviewing contractor pay requests.

Entertainment/Recreation

Juniper Springs, Ocala National Forest, Florida

Principal in Charge/Project Manager - performed an above- and below-surface condition survey of the stone retaining wall surrounding the fresh water spring. BillerReinhart performed structural design and prepared construction documents (drawings and specifications) for the retaining wall stabilization program, including sheet piling, tie backs and mini-piles.

Salt Springs, Ocala National Forest, Florida

Principal in Charge/Project Manager - performed an above- and below-surface condition survey of the reinforced concrete retaining wall surrounding the fresh water spring. BillerReinhart performed structural design and prepared construction documents (drawings and specifications) for the concrete restoration of the retaining wall. BillerReinhart performed structural design and prepared construction documents (drawings and specifications) for a new reinforced cast-in-place concrete retaining wall system to replace an existing timber piling system around portions of the spring.

Loretta Ingraham Community Center, Tampa, Florida

Principal in Charge/Project Manager - performed Threshold Inspector duties as per Chapters 471 and 553 of the Florida Statutes for this community center. The structure consists of cast-in-place concrete foundations and floor slab on grade, reinforced concrete masonry walls, and steel framed roof areas. BillerReinhart reviewed structural drawings, specifications, and submittals, performed site visits to observe project construction, and prepared reports documenting the work to the building code official having jurisdiction over the project.

Andrews WMA Boardwalk, Suwanne River, Florida

Principal in Charge/Project Manager - performed structural design for the timber elements and foundations for a boardwalk structure.

Financial

5/3 Banks, Various Locations, Florida

Principal in Charge/Project Manager - performed structural design for prototype buildings located within the Tampa Bay area. The construction of the prototype structure is comprised of the following: cast-in-place concrete foundations and floor slab on grade, reinforced concrete masonry unit walls and pre-engineered metal plate connected timber roof trusses. BillerReinhart reviewed shop drawings and submittals regarding structural work. BillerReinhart performed site visits during construction to observe progress.

Public

Correctional

Pinellas County Jail, Clearwater, Florida

Principal in Charge/Project Manager - designed the foundation system for the Pinellas County Jail Expansion Phase II project. This project was a value engineering effort on behalf of Pinellas County. The originally designed foundation system utilized auger cast piles. The new foundation system was designed utilizing the following: augered displacement piles, cast-in-place concrete pile caps, reinforced concrete grade beams, concrete elevator pit walls, and pile supported mat foundations. Based on a geotechnical investigation and pile installation reports regarding site conditions,

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calculations for the foundation system were performed for the pile layout and spacing, grade beam design, and elevator pit design based on the column load tables and drawings provided. BillerReinhart prepared construction documents (drawings and specifications) for the foundation system. BillerReinhart performed site visits and reviewed shop drawings and structural submittals during the project's construction phase.

Education

Leto High School Press Box, Tampa, Florida

Principal in Charge/Project Manager - performed structural design and prepared construction documents (drawings and specifications) for the new dugout structure that includes a second story press box. The construction of the structure is comprised of the following: shallow cast-in-place concrete spread footings and floor slab on grade, reinforced concrete masonry walls, steel framed elevated floor deck and steel framed roof system. BillerReinhart reviewed shop drawings and submittals regarding structural work. BillerReinhart performed site visits during construction to observe progress.

Glover School, Plant City, Florida

Principal in Charge/Project Manager - performed a condition survey of the discernible structure elements of this historical timber framed structure. The building is to be restored to its original condition for use as a community center. BillerReinhart generated a report to document our findings and recommend necessary repairs for the structure. A repair scope of work and schematic drawings were prepared for cost estimating by a contractor.

USF Southeast Chiller Plant, Tampa, Florida

Principal in Charge/Project Manager - performed structural design and prepared construction documents (drawings and specifications) for a chiller plant adjacent to the Sun Dome located on the University of South Florida campus. The plant consists of a 70'x120' concrete/CMU building with interior structural steel columns built into the beam adjacent to the "Corral" of the Sun Dome. The building roof framing consists of structural steel beams and girders. The new building houses the chillers and associated piping and mechanical equipment. The cooling towers are supported on elevated structural steel platforms located on the new building's roof structure. Additionally, elevated service catwalks and platforms surround the roof level cooling towers. A screen wall approximately 30 feet above the building roof is constructed on top of the building.

USF Northwest Chiller Plant, Tampa, Florida

Principal in Charge/Project Manager - performed structural design and prepared construction documents (drawings and specifications) for a chiller plant expansion for the existing Northwest Chiller Plant on the University of South Florida campus. The expansion includes new double cell cooling towers elevated on structural steel frames and a chiller and associated pumps and piping. Structural design was provided for the equipment foundations, steel support frames and pipe supports. The new area is enclosed with a 32-foot high louvered paneled screen wall. Structural design was also provided for the deep foundation system and structural steel framing for the screen wall.

Southeastern University Dining Hall, Lakeland, Florida

Principal in Charge/Project Manager - performed Threshold Inspector duties as per Chapters 471 and 553 of the Florida Statutes for this dining facility. The structure consists of cast-in-place concrete foundations and floor slab on grade, reinforced concrete masonry walls, and steel framed roof. BillerReinhart reviewed structural drawings, specifications, and submittals, performed site visits to observe project construction, and prepared reports documenting the work to the building code official having jurisdiction over the project.

Hammond Elementary, Tampa, Florida

Principal in Charge/Project Manager - performed Threshold Inspector duties as per Chapters 471 and 553 of the Florida Statutes for three two-story classroom buildings. The structures consist of cast-in-place concrete foundations and floor slab on grade, reinforced concrete masonry walls, and steel framed elevated floors and roofs. BillerReinhart reviewed structural drawings, specifications, and submittals, performed site visits to observe project construction, and prepared reports documenting the work

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to the building code official having jurisdiction over the project.

Religious

New Life Tabernacle, Tampa, Florida

Principal in Charge/Project Manager - performed structural design and prepared construction documents (drawings and specifications) for a new 1500 seat sanctuary and an adjacent two-story facility for offices, a fellowship hall, classrooms and support spaces. The total estimated area of the completed facility is 48,000 square feet. The construction of the structure is to be comprised of the following: cast-in-place concrete foundations and floor slab on grade, deep foundation system supporting the structural sanctuary floor slab, steel columns, and steel framed elevated floor and roof systems. The exterior walls utilize a curtain wall system.

Government

Old City Hall, Tampa, Florida

Principal in Charge/Project Manager - performed a condition survey of discernible structure elements of the existing supports for the manually-operated elevator. BillerReinhart performed structural design and prepared construction documents (drawings and specifications) for modifications and structural strengthening of the elevator shaft to support the new elevator equipment.

Park Trammell Building, Tampa, Florida

Principal in Charge/Project Manager - prepared design drawings and specifications for the restoration of deteriorated post-tensioned reinforced concrete columns at the 9-story office building. BillerReinhart also performed construction administration services including conducting site visits during the restoration work to observe construction progress and submitting reports documenting the work to the client and building code official having jurisdiction.

Hotels/Hospitality

Darden Restaurant Support Center, Orlando, Florida

Principal in Charge/Project Manager - performed structural analysis for multiple steel stair systems. Calculations were performed for the various steel components, including steel stringers, stair elements, stair landing elements and handrails and guardrails.

Lowry Park Zoo, Tampa, Florida

Principal in Charge/Project Manager - performed structural design for a one-story restaurant expansion (Habitat Café). The construction of the structure is comprised of the following: cast-in-place concrete foundations and floor slab on grade, reinforced concrete masonry unit walls and pre-engineered metal plate connected timber roof trusses. BillerReinhart reviewed shop drawings and submittals regarding structural work. BillerReinhart performed site visits during construction to observe progress.

Hyde Park Craft Center, Tampa, Florida

Principal in Charge/Project Manager - worked with the City of Tampa Department of Public Works personnel (architect and facilities personnel) for renovations and modifications to the existing structure and the design of new additions at the Hyde Park Craft Center. One addition is approximately 600 SF and will expand the pottery studio. The other addition for the Reception/Gallery area with a connection to the Metalwork Studio (currently a separate building) is approximately 400 SF. BillerReinhart initially performed a site visit to visually evaluate the existing conditions of the discernible structural elements. BillerReinhart performed calculations and prepared construction documents for the structural elements of the additions. BillerReinhart also performed visual evaluation of the existing facility's damaged roof framing system and designed temporary shoring. Opinions of cost were prepared to estimate the construction budget. The City of Tampa plans on completing this project in the near future.

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Adams Mark Hotel/Dayton Hilton, Daytona Beach, Florida

Structural Engineer - prepared design drawings and specifications and bid documents for the restoration of deteriorated reinforced concrete balconies for the 16-story south tower of the hotel complex. BillerReinhart assisted the client and owner during the project's bidding phase to select a contractor. BillerReinhart performed construction administration services including the following: conducting site visits during the restoration work to observe construction progress, submitting reports documenting the work to the client and building code official having jurisdiction, and reviewing contractor pay requests. BillerReinhart also performed site visits during the guardrail and sliding glass door replacement work to observe construction progress and submitted reports documenting the work to the client and building code official having jurisdiction.

Grand Hyatt Tampa Bay, Tampa, Florida

Principal in Charge/Project Manager - performed structural design and prepared construction documents (drawings and specifications) for various renovation and restoration projects at the hotel complex. Projects include the following: renovation/restoration of Casitas, the vacation villas' timber-framed roof overhangs, structural strengthening and design of additional framing to accommodate the installation of new roof-mounted air-conditioning equipment for Oystercatchers Restaurant, design of exterior wall modifications to accommodate the installation of new chillers and structural analysis of an existing steel support structure and design of additional framing members to accommodate the installation of new cooling towers.

Holiday Inn, Pensacola, Florida

Principal in Charge/Project Manager - performed Threshold Inspector duties as per Chapters 471 and 553 of the Florida Statutes for the five-story hotel building. The structure consists of cast-in-place concrete foundations and floor slab on grade, reinforced concrete masonry walls, and precast pre-stressed hollow-core concrete floor and roof slabs. BillerReinhart reviewed structural drawings, specifications, and submittals, performed site visits to observe project construction, and prepared reports documenting the work to the building code official having jurisdiction over the project.

Oceanfront Hotel/Courtyard by Marriott, Ft. Lauderdale, Florida

Principal in Charge/Project Manager - prepared design drawings and specifications for the renovation and restoration of this thirteen story hotel structure. The structure is constructed of pile-supported foundations, concrete floor slab on grade, and precast concrete columns, beams, wall panels, floor planks, and roof planks. The exterior wall structure located in between precast concrete elements is constructed of cold-formed metal framing. Project tasks include the following: structural assessment, structural modifications to floor slabs, roof slab, and walls, design of cooling tower, mechanical equipment, and pipe supports, design for pool deck modifications, structural concrete restoration, structural steel stair restoration, design of roof mounted equipment anchorage, design of guardrail anchorage, design of lateral supports for window and door systems, and dock and seawall restoration/design. BillerReinhart also performed construction administration services including the following: conducting site visits to observe construction progress, reviewing structural project submittals, consulting with the owner and contractor to accommodate project construction, and reporting to the public entity having jurisdiction over the project.

Residential

Condominiums

Westchester Shores, Clearwater, Florida

Principal in Charge/Project Manager - performed structural design and prepared construction documents (drawings and specifications) for three-story timber framed balcony structures. The balcony design and construction was part an overall renovation of the four three-story residential buildings. BillerReinhart also performed construction administration services including conducting site visits during the restoration work to observe construction progress.

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Skypoint, Tampa, Florida

Principal in Charge/Project Manager - performed Threshold Inspector duties as per Chapters 471 and 553 of the Florida Statutes for the 32-story condominium structure supported on a pile foundation system. The structure's elevated floor and roof slabs are constructed of post-tensioned reinforced concrete. BillerReinhart reviewed structural drawings, specifications, and submittals, performed site visits to observe project construction, and prepared reports documenting the work to the building code official having jurisdiction over the project.

Single Family

Horizon House, Tampa, Florida

Principal in Charge - performed structural design and prepared construction documents (drawings and specifications) for the additions and renovations for a single story residence constructed circa 1966. The structure is constructed of cast-in-place concrete foundations and floor slab on grade and pre-cast pre-stressed concrete roof slabs supported by pre-cast pre-stressed concrete channel beams. The channel beams span between reinforced concrete masonry unit walls. An analysis was performed on existing structural components to estimate their capacities for adding a second story. Building additions included a second story, a carport and a storage structure. The renovation includes cutting a portion of a channel beam for a stairway access to the second floor area.

Caribay, Clearwater, Florida

Principal in Charge/Project Manager - prepared design drawings and specifications and bid documents for the restoration of deteriorated reinforced concrete balcony slabs at two 2-story condominium structures. Of the 38 balcony slabs, 4 were completely removed due to severe deterioration and replaced. BillerReinhart assisted the client and owner during the project's bidding phase to select a contractor. BillerReinhart also performed construction administration services including the following: conducting site visits during the restoration work to observe construction progress, submitting reports documenting the work to the client and building code official having jurisdiction, and reviewing contractor pay requests.

Town Houses

Ybor Townhome 1924, Tampa, Florida

Principal in Charge/Project Manager - performed structural design and prepared construction documents (drawings and specifications) for a two-story townhouse encompassing approximately 2,700 square feet. The construction of the structure is comprised of the following: cast-in-place concrete foundations and floor slab on grade, first-story and second-story reinforced concrete masonry unit walls, and pre-engineered metal plate connected timber second floor and roof trusses.

Ybor Townhome 1926, Tampa, Florida

Principal in Charge/Project Manager - performed structural design and prepared construction documents (drawings and specifications) for a two-story townhouse encompassing approximately 2,700 square feet. The construction of the structure is comprised of the following: cast-in-place concrete foundations and floor slab on grade, first-story and second-story reinforced concrete masonry unit walls, and pre-engineered metal plate connected timber second floor and roof trusses.

Emerald Greens Townhomes, Tampa, Florida

Principal in Charge/Project Manager - performed a structural design review for two-story four-unit residential buildings. The construction of the structures is comprised of the following: cast-in-place concrete foundations and floor slab on grade, first-story reinforced concrete masonry unit walls, second-story timber framed walls, and pre-engineered metal plate connected timber second floor and roof trusses. BillerReinhart provided technical assistance during the construction.

Emerald Green Vacation Villas, Tampa, Florida

Principal in Charge/Project Manager - performed structural design for a three-story residential facility encompassing approximately 65,000 square feet with 50 tenant units. The construction of the structure is comprised of the following: cast-in-place

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concrete foundations and floor slab on grade, reinforced concrete masonry unit walls and pre-cast hollow-core floor and roof slabs. BillerReinhart reviewed shop drawings and submittals regarding structural work. BillerReinhart performed site visits during construction to observe progress.

Crenshaw Townhomes, Tampa, Florida

Principal in Charge/Project Manager - performed structural design and prepared construction documents (drawings and specifications) for ten two-story residential buildings each encompassing approximately 13,000 square feet with 4 tenant units per building. The construction of the structures is comprised of the following: cast-in-place concrete foundations and floor slab on grade, first-story reinforced concrete masonry unit walls, second-story timber framed walls, and pre-engineered metal plate connected timber second floor and roof trusses.

Healthcare Facilities

Trinity Hospital, Trinity, Florida

Principal in Charge/ Project Manager - performed Threshold Inspector duties as per Chapters 471 and 553 of the Florida Statutes for the 5-story structural steel medical facility. BillerReinhart reviewed structural drawings, specifications, and submittals, performed site visits to observe project construction, and prepared reports documenting the work to the building code official having jurisdiction over the project.

UCH Fletcher, Tampa, Florida

Principal in Charge/Project Manager - performed Threshold Inspector duties as per Chapters 471 and 553 of the Florida Statutes for the 5-story structural steel medical office facility. BillerReinhart reviewed structural drawings, specifications, and submittals, performed site visits to observe project construction, and prepared reports documenting the work to the building code official having jurisdiction over the project.

Brandon Regional Hospital, Brandon, Florida

Senior Structural Engineer - performed Threshold Inspector duties as per Chapters 471 and 553 of the Florida Statutes for the pre-cast concrete parking garage structure and the structural steel heart center tower. BillerReinhart reviewed structural drawings, specifications, and submittals, performed site visits to observe project construction, and prepared reports documenting the work to the building code official having jurisdiction over the project.

Industrial/Manufacturing

CITGO, Lake Charles, Louisiana

Structural Engineer – provided structural design for one of CITGO's oil refineries. Included design of structural steel equipment support, pipe rack structures, reinforced concrete foundation, and slab structures.

Sun Oil Company (Sunoco) Waste Water Treatment Plant, Toledo, Ohio

Structural Engineer – provided structural design for one of Sunoco's waste water treatment plants. Included design of structural steel equipment support, pipe rack structures, reinforced concrete foundation, and slab structures.

Tampa Bay Regional Reservoir Storm Water Treatment System, Hillsborough County, Florida

Principal in Charge/Project Manager - designed a reinforced concrete structure for storm water collection and distribution.

Breed Automotive Propellant Processing Inflater Assembly Facility, Lakeland, Florida

Project Manager/Structural Engineer – provided design of a structural steel and reinforced concrete explosion resistant, pressure-relieving building. Other structural design components included structural steel equipment support structures, reinforced concrete foundations, slabs, trenches and sumps for contaminated water collection and storage.

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Shell Chemical, Lakeland, Florida

Structural Engineer – provided design of structural steel equipment support, pipe rack structures, reinforced concrete foundation and slab structures for a chemical plant.

Port of Tampa, Tampa, Florida

Principal in Charge/Project Manager - performed structural design and prepared construction documents (drawings and specifications) for equipment foundations, elevated structural steel equipment platforms and pipe supports for a fuel pipeline expansion at the Port of Tampa.

Noven Pharmaceuticals, Miami, Florida

Principal in Charge/Project Manager - performed structural design and prepared construction documents (drawings and specifications) for additions and renovations to this pharmaceutical facility in Miami, Florida. Additions included an interior steel framed mechanical mezzanine designed for a load of 150 pounds per square foot and a two-story CMU entrance area (elevator shaft, a stair well and lobby) with a steel framed canopy. Renovations included enclosing a second floor area for additional usable floor space and modifications to existing interior walls.

Parking Structures

Trinity Town Center Parking Garage/Trinity, Florida

Principal in Charge/Project Manager - performed Threshold Inspector duties as per Chapters 471 and 553 of the Florida Statutes for the 4-story precast concrete parking garage. Reviewed structural drawings, specifications, and submittals, performed site visits to observe project construction, and prepared reports documenting the work to the building code official having jurisdiction over the project.

Largo Medical Center/Largo, Florida

Principal in Charge/Project Manager - performed Threshold Inspector duties as per Chapters 471 and 553 of the Florida Statutes for the 4-story precast concrete parking garage. Reviewed structural drawings, specifications, and submittals, performed site visits to observe project construction, and prepared reports documenting the work to the building code official having jurisdiction over the project.