

Structural Integrity is Our Business



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
Alabama PE No. 31120-E
North Carolina PE No. 037591

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

COMMUNITY SERVICE

Walk for Lupus Now, Lupus Foundation of America

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

Azelee 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.

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

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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.

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

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 a 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.

Harborview Center Demolition, Clearwater, Florida

Principal in Charge/Project Manager - performed a structural analysis prior to a proposed demolition of the Harborview Center located in Clearwater, Florida. A portion of the facility is underground (basement area) and demolition of the facility affects adjacent roadways (Osceola Avenue on the east and Cleveland Street on the south). A demolition specification was prepared for contractor bid that includes recommended phasing and stabilization methods to minimize effects to the adjacent roadways. In particular, the basement wall along the east and south elevations of the facility needed to be addressed.

City of Tampa, Water Slide Structures, Tampa, Florida

Principal in Charge/Project Manager - performed site visits to five pool locations and visually evaluated the existing tube slide structures. General summary reports of findings with recommendations were prepared and an *Affidavit of Compliance and Nondestructive Testing* was completed for each pool slide for submission to the Florida Department of Agriculture and Consumer Services Bureau of Fair Rides Inspection.

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City of Largo WWRF, Largo, Florida

Principal in Charge/Project Manager - performed a structural analysis to explore the structural building modifications required to strengthen the BioSolids and adjacent pump building (located at the above captioned address) to withstand a Category Three hurricane with sustained maximum winds of 130 mph per the Saffir-Simpson Hurricane Wind Scale. The BioSolids building is a pre-engineered metal building reportedly constructed circa 1976-1978.

Van Wezel Performing Arts Center, Sarasota, Florida

Principal in Charge/Project Manager - provided structural engineering design and renovation services for the removal of the existing hydraulic orchestra lift and replacement with electric lifting mechanisms. The new lifting mechanisms employ a coiled, flexible flat steel spring that expands with the insertion of a thin vertically-oriented spiral steel band. The result is a fully rigid column formed of continuous integrated I-shaped sections. Other structural elements required for the installation of the new lift system included shoring of the existing lift framing structure, mounting plates and concrete footings to support the new lifts, reinforcing of the existing guide system, and validation of the lift framing structure for imposed loadings.

Tampa Convention Center, Tampa, Florida

Principal in Charge/Project Manager - provided structural engineering design and renovation services for the installation of a new section of moveable partition panel walls on the exposition level. Modifications included additional structural steel to the roof framing to support the new panels, the demolition of existing concrete masonry walls, addition of new concrete masonry walls, removal of an existing roll-up door, relocation of existing steel stairs for roof access (at cooling tower), new door opening to access roof area (at cooling tower), rerouting of HVAC and water piping, and blocking up of existing openings.

Deland Waste Water Treatment Plant, Deland, Florida

Principal in Charge/Project Manager - performed a structural analysis to provide repair specification and detail alternatives which properly address the significant corrosion that has adversely affected some of the steel columns, base plates, anchor bolts and wall girts of the building. BillerReinhart reviewed the existing as-built structural drawings for the Sludge Process Building, performed calculations as required for the design of repair details which properly address the damaged structural steel elements, and prepared a Project Manual for the restoration of the structural steel columns, base plates and anchor bolts, as well as the horizontal wall girts, for the Sludge Process Building containing specifications and required construction details. BillerReinhart also attended a project meeting at the site to define the project scope and discuss the Project Manual.

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, 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.

Volusia County Prison, Daytona Beach, Florida

Principal in Charge/Project Manager - performed structural engineering analysis services for the installation of a reinforced concrete slab on grade for a tank bottom without inducing significant stresses into the existing tank foundation ring wall to replace a ruptured liner. BillerReinhart performed a site visit during the geotechnical investigation to visually observe the test pit excavations and obtain measurements of the existing tank foundation and pedestal.

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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 to the building code official having jurisdiction over the project.

Hillsborough County Public Schools, Florida

Principal in Charge/Project Manager - provided structural engineering consulting for the School Board of Hillsborough County on small restoration/modification projects.

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Services included condition surveys, design of buildings, preparation of reports, and preparation of design and/or repair documents.

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.

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.

New Port Richey Fire Station, New Port Richey, Florida

Principal in Charge/Project Manager - provided structural engineering design and renovation services for the fire station which was built in 1964 during a re-roofing project. The re-roofing project included removing and replacing the metal roof deck and strengthening the existing steel roof framing to meet the requirements of the current building code relating to structural capacity.

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

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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.

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.

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.

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.

Mariner Beach Club, St. Petersburg, Florida

Principal in Charge/Project Manager - prepared design drawings and specifications and bid documents for the exterior renovation and restoration of the two 2-story timeshare buildings. The project includes the following: removal and replacement of exterior elevated walkways, exterior stairs, balconies, and patio and walkway slabs at grade; restoration and strengthening of exterior masonry walls, resurfacing of exterior masonry walls (new stucco finish and coating application), restoration of existing concrete beams and slabs, removal and replacement of timber beach shelter structures, specification of sealants, expansion joints, and waterproofing membranes; removal and replacement of doors, windows, and sliding glass doors; removal and replacement of guardrail systems, repair and reconfiguration of roof mansard

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structures, removal and replacement of existing fencing, construction of drainage improvements, application of pavement overlays, and implementation of mechanical and electrical upgrades. Assisted the client and owner during the project's bidding phase to select a contractor. Performed construction administration services that include the following: conducting site visits to observe construction progress, submitting reports documenting the work to the client and building code official having jurisdiction, attending weekly project meetings, and reviewing contractor payment applications.

Entertainment/Recreation

Discovery Cove, Orlando, Florida

Principal in Charge/Project Manager - performed threshold inspection services to observe construction progress on the new Discovery Cove park expansion. BillerReinhart also reviewed the permitted construction documents (drawings and specifications), shop drawings, shoring drawings, concrete mix designs, materials testing reports and geotechnical reports for this project. BillerReinhart performed periodic site visits to observe project construction (during structural component construction) and prepared Threshold Inspection Summary Reports based on the daily field inspection reports by the threshold agent.

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.

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.

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.

Laguna at Riviera Dunes, Palmetto, Florida

Principal in Charge/Project Manager - performed Threshold Inspector duties as per Chapters 471 and 553 of the Florida Statutes for the 8-story condominium structure. The building is approximately 80 feet by 220 feet and is supported on an auger cast pile foundation system. The elevated floor slabs of the structure are 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

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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.

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 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.

Island Reserve, Panama City, Florida

Principal in Charge/Project Manager - performed Threshold Inspector duties as per Chapters 471 and 553 of the Florida Statutes for 10 townhouse buildings, two parking garages, a clubhouse and an administration building. The parking garages are comprised of precast concrete elements supported by a deep foundation system. The townhomes, clubhouse and administration building are timber framed structures supported by post-tensioned reinforced concrete mat foundation systems. 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.

Airports

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Delta Airline check-In Canopy, JFK International Airport, New York

Principal in Charge/Project Manager - performed structural analysis and consulting for the design and development of the Delta Check-In canopy structure at JFK Airport. BillerReinhart reviewed provided documents (drawing, sketches, etc.) and prepared calculations for the design of the Delta Check-In canopy structure.

Orlando International Airport Fuel Pipeline Expansion, Orlando, 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 airport.

Orlando International Airport T-676 GSE Station, Orlando, Florida

Principal in Charge/Project Manager - performed structural design for above ground fuel storage tank foundations, pipe supports and fuel containment areas.

Fall Protection Kit I, Various USA Airports

Principal in Charge/Project Manager - performed analysis and design services for the review and development of a fall protection kit. The product is specifically designed to be mounted to the top of a passenger boarding bridge (which carries passengers from the airport terminal building to the aircraft) for fall protection while doing maintenance. The fall protection kit product serves as a means for connecting other components of a personal fall arrest system to the anchorage plate components. BillerReinhart reviewed provided sketches of the fall protection kit product and the fall protection systems criteria and practices of the Occupational Safety & Health Administration (OSHA) Fall Protection Standard No. 1926.500, analyzed components to verify their compliance with the criteria and practices of the Occupational Safety & Health Administration (OSHA) Fall Protection Standard No. 1926.500, and prepared drawings and material specifications of the fall protection kit product.

Fall Protection Kit II, Various USA Airports

Principal in Charge/Project Manager - performed analysis and design services for the review and development of additional items for a fall protection kit product. These additional items include an aluminum anchor block that will be fastened to a rotunda or cab to support one man at a time and a double lanyard that will attach one man to the horizontal lifeline. BillerReinhart reviewed provided sketches of the anchor block and double lanyard and the fall protection systems criteria and practices of the Occupational Safety & Health Administration (OSHA) Fall Protection Standard No. 1926.500, designed and analyzed the anchor block and double lanyard for compliance with the criteria and practices of the Occupational Safety & Health Administration (OSHA) Fall Protection Standard No. 1926.500, and prepared drawings and material specifications of the anchor block and double lanyard.

TIA ASR-9 Facility, Tampa, Florida

Principal in Charge/Project Manager - performed Threshold Inspector duties as per Chapters 471 and 553 of the Florida Statutes for the 134-foot radar equipment tower structure. The structure consists of a deep foundation system (precast concrete driven piles), cast-in-place concrete pile cap, precast concrete wall panels and internal structural steel framing platforms. BillerReinhart reviewed structural drawings, specifications, and submittals, performed site visits to observe project construction, and prepared reports documenting the work to Hillsborough County Aviation Authority and the building code official having jurisdiction over the project.

Military

Robert Gray Airfield, Fort Hood, Texas

Principal in Charge/Project Manager - performed structural design services required for the modification and expansion of the pump house. BillerReinhart reviewed reports of geotechnical exploration for the existing site, performed calculations for the structural design of the proposed modifications to existing pump house, and prepared construction documents (drawings and specifications) for the structural elements of the proposed modifications to the existing pump house.

Truck Fill Stand, Fort Leavenworth, Kansas

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Principal in Charge/Project Manager - performed structural design services required for the new pantograph fill stand, pipe bollards, remote concrete containment basin with pump, containment drain system and concrete pavement removal and replacement. BillerReinhart reviewed information and performed calculations for the structural design of the remote spill containment basin. BillerReinhart designed new curb and slab detail for the new containment area (approximately 4'-6" by 21'-0") and they designed a new 12"x24" heavy-duty trench drain area with the 6-inch ductile iron drain line within the existing containment area. BillerReinhart prepared construction documents (drawings and specifications) for the structural elements listed above.

482nd Fighter Wing, Homestead ARB, Florida

Principal in Charge/Project Manager - performed structural design services for jet fuel pipe support piers and foundations. BillerReinhart reviewed provided drawings, calculated the loads from the pipes (including estimated lateral loads, i.e. wind and fluid flow) that are to be supported by the pipe supports, and designed reinforced concrete piers and foundations for the pipe supports. BillerReinhart also prepared construction documents (drawings and specifications) for the reinforced concrete piers and foundations for the pipe supports.

Hunter AAF, Savannah, Georgia

Principal in Charge/Project Manager - performed structural design services required for the ring-wall foundation of a fuel storage tank (70'-0" inside diameter x 50'-9" high). BillerReinhart reviewed the Report of Geotechnical Exploration and Evaluation and supplements for proposed ring-wall foundation. BillerReinhart also reviewed tank shop drawings and performed calculations for the structural design of the ring-wall tank foundation. Calculations include analysis for seismic and wind requirements and anchor bolt requirements. BillerReinhart prepared construction documents (drawings and specifications) for the structural elements of the fuel tank ring wall foundation.

Healthcare Facilities

Blake Medical Center, Bradenton, 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 hospital facility renovation project. The project consists of various upgrades to the exterior appearance of the building including new veneer, new and expanded canopies and new mechanical equipment on the roof. BillerReinhart reviewed structural drawings, specifications, and submittals, performed site visits to observe project construction, and prepared reports documenting the work to the owner and building code official having jurisdiction over the project.

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

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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.

Qualitest Pharmaceuticals, Huntsville, Alabama

Principal in Charge/Project Manager - performed a structural analysis of various mezzanine structures at the pharmaceutical facility to estimate their structural capacity. BillerReinhart performed a site visit to review available drawings and obtain dimensions of the various mezzanine structures necessary for analysis and visually observe the existing conditions. BillerReinhart performed calculations for the analysis of the mezzanine structures and prepared a summary letter of findings rendering an opinion of the estimated load capacities of the various mezzanine structures.

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.

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.

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.

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Ocala Regional Medical Center, Ocala, Florida

Principal in Charge/ Project Manager - performed a condition survey and prepared structural design drawings, specifications and bid documents for the restoration/waterproofing of the 4-story parking garage structure to prolong the life and maintain the structural integrity of the various components. Based on the results of the condition survey and the recommended (CMT), BillerReinhart prepared construction documents, drawings and specifications and bid documents. BillerReinhart will assist the client and owner during the project's bidding phase to select a contractor and will perform construction administration services that include the following: conducting site visits to observe construction progress, submitting reports documenting the work to the client and building code official having jurisdiction, attending project meetings, and maintaining regular correspondence with contractors regarding structural issues during construction.

Forensic Evaluations/Expert Witness Consulting

Mr. Reinhart serves as a consultant for legal issues involving buildings and other structures, including structural failures, building settlement related damage, storm/wind damage, insect damage, fire damage, and vehicular impact. BillerReinhart performs such tasks as site assessments, report preparation, structural analysis, structural design, deposition testimony, appraisal hearing testimony, and trial testimony.