
PHILIPPE J. LALONDE, P.E.

President

Lalonde Engineering Inc.

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Years of Engineering Experience: 14

Education

M.A., Christian Education, 1998

Southwestern Baptist Seminary

B.S., Structural Engineering, 1993

University of California at San Diego

Professional Registration

Registered Professional Engineer licensed in twenty-six states: Alabama, Arizona, California, Colorado, Connecticut, Florida, Georgia, Indiana, Kansas, Louisiana, Maryland, Michigan, Minnesota, Mississippi, Missouri, New Jersey, New Mexico, Nevada, North Carolina, Ohio, Oklahoma, Pennsylvania, South Carolina, Texas, Virginia, West Virginia

Computer Program Fluency

AutoCAD 2005

Enercalc

Mathcad

RISA Design Suite

STAAD

Professional Experience:

Mr. Lalonde serves as President of Lalonde Engineering Inc. In this role, he provides structural engineering services and coordinates production efforts for projects. An effective communicator with clients and peers, he establishes a clear scope of work, develops an acceptable schedule and anticipates and addresses project issues. With more than 14 years of experience in the consulting structural engineering field, his expertise includes steel, concrete and wood design for the residential, retail, commercial and religious sectors. His extensive retail experience includes projects for CVS Pharmacy, Best Buy, Circuit City, PetSmart, Kay Jewelers, YUM! Restaurants, Hobby Lobby, Linens-N-Things, Starbucks and retail centers.

- Champion Acura Dealership, League City, Texas. A 26,000+ sf service and dealership building in 120 mph wind zone. Tiltup panel construction surrounds this structure at 28'-0" elevation. Large open spaces provided by joist and girder design provide the flexibility required by the client.
 - Bosque Canyon Development, Bosque County, Texas. Development includes a commons building and three residential lots. The projects include foundation and framing design. The residences average 3,000 sf.
 - Adriatica Development, McKinney, Texas. Design of three story Office building, one story retail building, two story doctor's office, one story office building and two story retail
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building. These are all wood framed buildings with slab-on-grade foundations totaling over 55,000 sq ft of footprint retail and office space.

- CVS Pharmacy, over 150 stores in eleven states. Supervised a production team as the engineer of record for the prototype development and retail roll-out program. Foundation review with reference to geotechnical report. Slab-on-grade reinforced, post-tensioned stiffened beam, reinforced suspended slab and pier supported (straight shaft, under-reamed and helical steel piers) foundations. Steel and light gage framing design. Masonry design.
 - Donald Huffines Residence, Highland Park, TX. This 13,000-square-foot home was a three-story wood structure. First floor was a partial basement dug into natural weathered shale. There was a concrete shelter built into this level. Spacious living room had a 30-foot ceiling and was clear spanned by large glu-laminated beams. House surrounded a central motor court on three sides and was finished with granite on all exterior walls.
 - Edmond Church of Christ and More Than 10 Other Churches, Edmond, Oklahoma; Project Engineer. Reviewed geotechnical report and made recommendation for subgrade preparation. Designed wood joist and truss roof and slab on grade foundation. Performed lateral analysis and design of steel braced frames, wood panel shear walls or light gage braced walls. Reviewed submittals. Performed construction observation as required. Edmond Church of Christ's 3,000-seat sanctuary and education complex was a hybrid of wood joist and prefabricated roof trusses supported by glulam arches and metal stud walls. Overall building was a central sanctuary with four wings making the complex appear as a cross. Wood detailing required between wings and center sanctuary was complex. Served as lead engineer from concept through construction.
 - Watauga Recreation Center, Watauga, TX; Project Engineer. Reviewed geotechnical report and made recommendation for subgrade preparation. Designed roof and two-way slab foundation. Performed lateral analysis and design of steel braced frames. Reviewed submittals. Performed construction observation as required.
 - Fort Worth Museum of Science and History, Fort Worth, TX; Co-Project Engineer. Reviewed geotechnical report and made recommendation for subgrade preparation. Designed roof and slab foundation. Performed lateral analysis and design of steel braced frames. Reviewed submittals. Performed construction observation as required. Served as co-lead engineer on this \$16 million museum expansion project. Project consisted of five separate buildings attached by a central corridor. Design team was led by Lake-Flato Architects of San Antonio (2003 AIA National Firm of the Year). Design was unique and several engineering challenges were solved in design phase. Architectural design concept created need for creative solutions to lateral force resistance, which was solved using innovative bracing schemes.
 - Farmers Branch Recreation Center, Farmers Branch, TX. Project was a gymnasium and activity room complex. Activity room area was two stories with a second floor weight area and dance room. Floor vibrations were analyzed to ensure that floor would be acceptable to client. Entire foundation was designed as a two-way pier supported flat plate due to soil conditions. Gymnasium consisted of two complete gym facilities with a center bridge between spaces. There was also a perimeter suspended jogging track around entire gym
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facility. Track was designed as a suspended steel and concrete deck framework hanging from large steel trusses above and attached to perimeter columns.

- GM Retooling, Arlington, TX; Design Engineer. Designed and detailed new walkways and platforms for retooling of plant to SUV production.
 - Grand Maple Plaza, San Diego, CA; Design Engineer. Project involved review of geotechnical report and recommendation for subgrade preparation. Performed design of roof and foundation and lateral analysis and design of steel moment frames. Reviewed submittals. Performed construction observation as required.
 - Homestead Furniture and Three Other Retail / Commercial Projects, San Diego, CA; Design Engineer. Reviewed geotechnical report and made recommendation for subgrade preparation. Designed roof and foundation. Performed lateral analysis and design of steel moment frames, or CMU shear wall, or concrete tilt-panels. Reviewed submittals. Performed construction observation as required.
 - J-7 Ranch, Ranger, TX; Design Engineer. Reviewed geotechnical report and made recommendation for subgrade preparation. Designed rough sawn wood roof trusses, wood floor framing and slab foundation. Performed lateral analysis and design of wood shear walls.
 - La Paloma Country Club, La Paloma, TX; Design Engineer. Reviewed geotechnical report and recommendation for subgrade preparation. Designed roof and slab foundation. Designed floor framing and basement walls. Performed lateral analysis and design of steel braced frames. Reviewed submittals. Performed construction observation as required.
 - MCAS Miramar Commissary, San Diego, CA; Design Engineer. Reviewed geotechnical report and made recommendation for subgrade preparation. Designed roof and foundation. Performed lateral analysis and design of steel moment frames. Reviewed submittals. Performed construction observation as required. Designed connections to existing commissary building.
 - Palestine Cancer Center, Palestine, TX; Design Engineer. Reviewed geotechnical report and made recommendation for subgrade preparation. Designed roof and slab foundation. Performed lateral analysis and design of steel braced frames. Designed three-foot-thick concrete walls and concrete ceiling around MRI room. Reviewed submittals. Performed construction observation as required.
 - Pecan Place Condominiums - Downtown Fort Worth, Fort Worth, TX. This unique four-story building consisted of three stories of wood framed condominiums above a concrete parking garage. Was responsible for design of three-story wood structure. Architectural design included many perimeter windows taking advantage of the views of downtown. This created several challenges in designing lateral shear wall systems. Creative detailing and new technology were used to create open and safe structure proposed by the architect.
 - Perryton Assisted Living Center, Perryton, TX; Project Engineer. Reviewed geotechnical report and made recommendation for subgrade preparation. Designed roof light gage
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metal trusses and slab foundation. Performed lateral analysis and design of light gage braced walls. Reviewed submittals. Performed construction observation as required.

- Peterson Residence, Justin, TX. This was a unique steel design for a residence. Owner wanted a 75-foot square pyramid with no central supports. Designed a hipped steel moment framed structure that met the owner's requirements. Peak was more than 40 feet above floor level. Suspended glass walkway was designed 12 feet above floor level hanging from wide flange rafters allowing residents to enjoy views from windows in roof.
 - St. Timothy and Four Other Separate Church Projects, San Diego, CA; Design Engineer. Project involved review of geotechnical report and recommendation for subgrade preparation. Performed design of roof and foundation and lateral analysis and design of steel moment frames. Reviewed submittals. Performed construction observation as required.
 - Stonebriar Community Church, Frisco, TX. Church was designed as a steel frame and tilt wall building. Sanctuary capacity was more than 1,500 with capacity to expand through a side wall. Sanctuary was surrounded on three sides with two-story education space. Joist span across sanctuary was more than 100 feet.
 - Stonegate Office Building, Fort Worth, TX; Design Engineer. Reviewed geotechnical report and made recommendation for subgrade preparation. Designed roof and slab foundation. Performed lateral analysis and design of steel braced frames. Reviewed submittals. Performed construction observation as required.
 - Vanderbeek Auto Park, San Diego, CA; Design Engineer. Project involved review of geotechnical report and recommendation for subgrade preparation. Performed design of roof and foundation and lateral analysis and design of steel moment frames. Reviewed submittals. Performed construction observation as required.
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