

Industrial Project Experience



Innovative Engineering Inc (IEI) is uniquely qualified to provide structural design and project management services for industrial and warehouse facilities. We are knowledgeable and experienced in using tilt-up concrete methods and designing industrial processes to facilitate machinery, assembly and distribution. IEI understands the broad range of challenges for industry to increase production, reduce costs, and maintain or replace aging infrastructure. We offer innovative design solutions using leading-edge design and analysis techniques, codes and software to meet these challenges. Examples of our experience in the industrial manufacturing and warehouse facilities markets are presented below.



Caterpillar Power Systems Plant, Griffin, GA. Structural engineering and design of a 6,500 square foot Assembly Line Conveyor Addition to the Caterpillar Power Systems Plant in Griffin, GA. The 421,000 square foot plant in Griffin manufactures engines for all Caterpillar Power Systems segments including C9, C15, C18, C32 and 3500 series generator sets, as well as the assembly of the C32 ACERT marine engines. This was a design-build project performed with Gunn Construction and Pinnacle Engineering.



Marine Corps Logistics Base (MCLB), Albany, GA. Conducted an as-built structural analysis to determine the feasibility and prepared preliminary design for the replacement of the existing 35 and 75 ton bridge cranes with 100 ton bridge cranes within the main bays of Maintenance Center at Building 2200. Additionally, investigated the feasibility of adding (30) 3 ton jib cranes to the center crane runway support columns. More specifically, the crane runway beams and supporting columns required replacement, and the foundations required enlargement. Additional challenges faced by this project include possible lead based paint on the structural steel to be modified and removed, the potential for contaminated soil under the building and the requirement that the existing facility remain operational during this project.



National Gypsum Company, Duluth, GA. National Gypsum added a second line to its Atlanta drywall finishing products plant in 2006. In support of this project designed pads for a new silo and compressor, structural steel supports for the bin and new conveyor line and designed a retrofit truck well within the existing plant in Duluth, Georgia.

ATEX Advanced Technological Extrusion, Gainesville, GA. Structural engineering and design of steel frame and load-bearing tilt-up concrete panels for this 27,500 SF facility which also included a 15 Ton overhead crane.

Morse Automotive Corporation, Cartersville, GA. Structural steel frame and load bearing concrete masonry walls design for a 400 Ton press area.

Industrial Project Experience



General Motors Corporation, LaGrange, IL. Structural engineering for locomotive engine test cell dolly vibration design and analysis for the Electro-Motive Division of General Motors in LaGrange, Illinois.

Nabisco Bakery, Houston, TX. Structural modifications and additions to existing bakery including the addition of mezzanines and equipment platforms, thru-roof expansion, underpinning existing foundations, reinforcing existing structures, flour handling piping racks, train shed, pile cap foundation for 80 foot silos, and stair tower.

Elan Pharmaceutical Research Group, Gainesville, GA. Structural engineering and design for the HVAC and mixer equipment support framing and foundations. Additionally, IEI was responsible for structural load for a walkable ceiling and building lateral system modification.



G & L Marble, Inc., Douglasville, GA. Structural engineering and design for the corporate headquarters. This building was a single story, 47,000 SF metal building for office, heavy storage, shipping and receiving.

CON-AIR, Norcross, GA. Structural engineering and design for the Cooling Tower Support for this facility.

Profile Extrusion Company, Rome, GA. Structural engineering and design for reinforced concrete foundation pit for a 2200 Ton Fruehauf Aluminum Extrusion Press Foundation.



Delta Airlines, Ground Support Equipment Line Maintenance Building, Hartsfield International Airport, Atlanta, GA. Structural engineering and design of roof top support frames for Air Handling Equipment addition.

Clorox Product Manufacturing Company, Forest Park, GA. Structural engineering and design for temporary structural steel support for the bottling equipment installation. Also prepared structural design for the widening of overhead door in load bearing concrete masonry wall.



The Coca Cola Company, Atlanta Beverage Base Plant, Atlanta, GA

- Structural design for a 4,000 SF laboratory addition
- Project Management and structural design for the addition of the employee Cafeteria
- Structural design for an addition to the Compressor Building
- Dry Parts Mezzanine Addition
- Project manager for the plant drawings organization
- As- Built Mezzanine Analysis
- Structural design for the battery station overhead crane foundations

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Ken's Food, McDonough, GA. Structural engineering and design for this 300,000 SF office/warehouse facility. Structural design included steel frame precast concrete panels for warehouse expansion, loading dock, kitchen and filler addition, waste treatment plant, dry mix, sample and color room, dumpster building and mezzanine addition.

Minolta-Chatham Center, Office Warehouse Facility, Savannah, GA
Structural engineering and design for a one story 13,000 SF structural steel office with warehouse space.

AMOCO Performance Products, Inc., Forsyth County, GA

Project Construction Engineer for one to three story 300,000 SF steel and concrete frame research and development facility consisting of laboratories, office and pilot plant space.



Robert Bosch Office and Manufacturing Facility, Anderson, SC

Structural design of a 78,000 SF single story steel framed building and an 85,000 SF steel framed building with penthouses, computer rooms, barrel vault skylights and suspended exterior canopies.

For More Information Contact Our Offices

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