Overview

Janssen & Spaans Engineering, Inc. (JSE) has been providing engineering excellence since 1976 on transportation projects throughout the United States and abroad. We have successfully provided design services for small to very large complex transportation and building projects. Our experienced staff of professional design engineers, inspectors and surveyors have developed a reputation of providing our clients with innovative and cost-effective designs that benefit owners, governmental agencies and contractors. JSE’s ability to provide exceptional design solutions is confirmed by our numerous national and local engineering achievement awards. Our design efforts have been recognized in numerous professional publications. JSE’s staff is committed to delivering outstanding service, keeping our projects within budget and delivering them on time.
JSE offers a comprehensive range of professional consulting services focusing on transportation and building projects. We have registered Professional Engineers experienced in all aspects of roadway design, bridge design, structural building design, construction engineering and inspection services. We are currently providing services to state and local governmental agencies, consultants, and contractors in the following areas:

**Transportation Engineering**
- Bridge Design
  - Steel & Concrete Structures
- Specialty & Long Span Bridge Design
  - Cable Stay & Post-tensioned Structures
- Bridge Rehabilitation
- Road Design
- Design-Build
- Value Engineering & Re-Designs
- Consultant Peer Reviews
- Traffic Engineering

**Specialty Structural Engineering Services**
- Post-Tensioning
- Forensics
- Marine Facilities
- Seawalls
- Retaining Walls
- Foundations

**Construction Engineering**
- Falsework and Shoring
- Cofferdams
- Jacking
- Erection
- Bridge & Building Demolition
- Construction Sequencing & Phasing
- Heavy Lifting

**Construction & Bridge Inspection**
- State / County Bridge Inspections
- Road / Bridge Inspections
- Federal Aid Construction Inspections
- Locally Funded Construction Inspections
- In-Depth Structure Inspections & Evaluations

**Bridge & Road Plan Review For State Agencies**
- Peer and Elemental Review Plans
- Value Engineering
- Construct ability

**Site Design**
- Site Design and Parking Layout
- Sanitary Sewers and Lift Stations
- Water Distribution
- Drainage Design & Analysis
- Development Review
- Bikeway / Trails
- Subdivision Design
- Development Review

**Engineering & Environmental Studies**
- Engineering Assessment Reports
- Environmental Document
- Categorical Exclusion Preparation
- Environmental Early Coordination
- Historic Bridge Review & Permitting
- Purpose and Need Recommendations
- Environmental Permitting

**Structural Building Design**
- New Construction
- Renovation & Evaluation of Existing Structures
- Design Build
- BIM - Building Information Modeling
- Structural Retrofit & Rehabilitation
- Peer Review
- Value Engineering
- Forensic Engineering
- Construction Services
- Specialty Engineering Services
- Progressive Collapse Resistance Design

**Surveying & R/W Engineering**
- R/W Engineering
- Route Surveys
- Construction Staking
- Topographic Surveys
- ALTA - Land Title Surveys

**JSE strives to bring our clients, owners and stakeholders innovative design solutions that produce projects that are safe, cost effective and superior in design.**
Awards & Recognition

“JSE is well known throughout the United States as an engineering leader and innovator. JSE is credited with innovative uses of steel and concrete in the design and construction of large, multi-span bridges with complex roadway geometries.”

2009 Engineering Excellence Award
“Super 70” Design Build

2008 America’s Transportation Award
Woodrow Wilson Bridge
Over Potomac River

Woodrow Wilson Bridge – Alexandria, Virginia
“Numerous local and national institutions and associations have recognized JSE for our outstanding road and bridge designs.”

ACEC National Awards of Excellence
• (2010) I-88 Over Fox River in Kane County, IL
• (2009) I-355 Over Des Plaines River Valley in Lemont, IL
• (2008) I-95 / I-495 Over Potomac River located between Maryland and Virginia
• (2002) US 27 Over Caloosahatchee Canal located in Moore Haven, FL
• (2001) US 27 Over Ohio River located in Maysville, KY

Prestressed Concrete Institute National Awards of Excellence
• (1993) US 23 Over Shelby Creek located in Pikeville, KY
• (1992) Highland View Bridge located in Highland, FL
• (1986) Ramp B Over US 23 located in Pikeville, KY

ACEC of Indiana Engineering Excellence Awards
• (2010) Columbus Roundabout in Columbus, IN
• (2009) I-70 Design Build “Super 70” in Indianapolis, IN
• (2006) 79th Street Over I-465 located in Indianapolis, IN
• (2004) I-65 Design / Build located in Indianapolis, IN
• (2004) Highland Avenue Over Progues Run located in Indianapolis, IN
• (2004) CSX Railroad Over US 136 located in Indianapolis, IN
• (2000) Whiteriver Greenway Over Fall Creek located in Indianapolis, IN

ACPA National Awards of Excellence
• (2007) I-70 Reconstruction “Super 70” in Indianapolis, IN

JSE worked under a design-build format to create the design for the Des Plaines River Valley Bridge on I-355 in Lemont, IL. The bridge features a combination of 18 spans with simple pretensioned concrete beams and 17 spans with post-tensioned spliced girders over its 1.3-mile length.

McHugh/Janssen & Spaans investigated both alternatives and concluded that the arch structure could be designed and constructed within the $3-million premium allowed for the more aesthetically pleasing arch structure. They submitted this alternate in their bid package, which was selected as the best combination of aesthetics and economics. McHugh served as the team leader for the project.
Road Design

JSE provides design and plan development services for all aspects of road improvement projects. Our staff of professional engineers, designers, and technicians offers a wide range of design expertise in new construction, reconstruction, and rehabilitation of highways, roads, and streets. JSE has proven experience providing management, design and plan development services for State and Local Public Agency projects.

I-64 Road Reconstruction

JSE provided project management, utility coordination, maintenance of traffic, road, bridge, drainage and traffic design services for this 12 mile interstate reconstruction project. The construction plans were completed in a period of fourteen months.

Project Cost: $33 Million
Client: INDOT

Columbus Roundabout

JSE provided the design services for this complex five legged modern roundabout project for the City of Columbus, IN. The project was initiated by the City to provide a new intersection to reduce traffic congestion between four high volume urban arterial streets.

Project Cost: $1.5 Million
Client: City of Columbus

I-65 Reconstruction Boone County D/B

JSE provided road, bridge and traffic design services for this 8.5 mile long interstate added travel lanes project on the northwest side of Indianapolis. The project included replacement of two bridge structures, design of complex drainage and retention systems and installation of new interstate signage and ITS components. Working closely with the contractor, JSE developed an innovative maintenance of traffic scheme that produce significant cost and time savings for the contractor.

Project Cost: $32 Million
Client: Milestone Contractors / INDOT
**Road Design**

“Every time I drive on I-465, on the Westside, I marvel how nice a highway this has become. More important perhaps was the ease with which this seems to take shape without major construction complaints. It was a seamless and wonderful “quiet summer construction”, the kind we all love.” Commissioner Thomas Sharp

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**I-69 & US 20 Interchange Modification**

The project added nested left turn lanes through the interchange and improved the east leg of US 20 for improved level of service for a county road intersection. The roadway was changed from an open shoulder section to a curved section to reduce the impact to the adjoining properties.

**Project Cost:** $10 Million  
**Client:** INDOT

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**Illinois Street Resurface**

JSE provided the design services for this road rehabilitation project; Indianapolis DPW’s first federally funded LPA resurface project. The project consisted of resurfacing of 1.5 miles of Illinois Street starting at Washington Street and proceeding north to 16th Street. The project included design of new curb ramps and crosswalks to meet ADA standards.

**Project Cost:** $3 Million  
**Client:** Indianapolis DPW

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**I-465 NW Fast - Track**

JSE was the lead design consultant for the 4 mile added travel lanes reconstruction project on I-465 from I-65 to I-465. JSE provided road, bridge, CSS, permitting, signing, lighting, and ITS design services for this project on the northwest side of Indianapolis. JSE met all of the required design and contract document submittal deadlines for this fast-track, high-profile, complex INDOT project. The bids for all four contracts were under the engineer's estimate.

**Project Cost:** $90 Million  
**Client:** INDOT
**Bridge Design**

JSE provides design and plan development services for all types of bridge projects. Our licensed professional engineers are registered with numerous governmental agencies in the US and abroad. JSE’s bridge design experience ranges from routine reinforced concrete slab bridge projects to long-span multi-million dollar complex segmental concrete and steel bridge projects.

**O’Hare International Airport**

This project was built according to a design by JSE under subcontract to “GROUP ONE”, the airport consultant. This concrete box structure was cast-in-place on falsework and longitudinally and transversely post-tensioned.

- **Project Cost:** $6 Million
- **Client:** City of Chicago

**Hook Road Over New York Thruway**

This uniquely designed bridge was constructed to continue Hook Road over the New York Thruway with minimal structure depth. The SpanSpan design utilizes precast edge beams and deck panels. This design increased the vertical clearance over the Thruway without having to raise the overhead profile grade, allowing for a large cost savings to the owners.

- **Project Cost:** $1.75 Million
- **Client:** NY Tollway Authority

**Rigolets Pass Bridge Over Lake Pontchartrain**

JSE developed the post-tensioned concrete bulb-tee design for the 3-span main channel unit. This bridge replaced an existing main steel truss swing span with a high-level spliced concrete girder bridge that provided 65 ft of vertical and 200 ft of horizontal clearance for marine traffic. Total length of bridge was 5,489 ft with 3 spans (61.27m, 77.46m, 61.27 m) and 45.9 ft wide.

- **Project Cost:** $50 million
- **Client:** CTE Engineers
JSE provided bridge design services for this complex steel superstructure cable-stayed bridge over the Ohio River between Maysville, KY and Aberdeen, OH. This cable-stayed bridge has a main span of 1,050 ft and side spans of 525 ft. The erection process counteracted the long-term deflection of the model developed by JSE. Stays were stressed according to our calculations to create a camber curve that mirrored the predicted shape. This method ensures that the bridge will maintain the intended vertical profile throughout the life of the structure.

Project Cost: $36 Million
Client: Entran/ Ohio DOT

JSE developed the original design calculations and plans for these two curved segmental box girder bridges (Ramp SE and Ramp NW). Ramp SE is a 9 span bridge 1,266 ft in length with a maximum span length of 201 ft. Both Bridges were cast-in-place on falsework towers.

Project Cost: $14 Million
Client: INDOT

The 79th St. bridge was one of the first in the state of Indiana to use a new modified prestressed concrete girder resulting in a reduced structure depth. The bridge, road approaches, and structural steel elements were all designed by Janssen & Spaans. JSE was able to identify a cost effective concrete girder solution compared to a structural steel girder option without the need for increased structural depth.

Project Cost: $3 Million
Client: INDOT

“Forming the Future Since 1976”

Marion County, Indiana

Ramp SE

Lake County, Indiana

Ramp NW

79th Street Bridge Over I-465

I-80 & I-94 Interchange With SR 912

Maysville, Kentucky

Maysville Bridge Over Ohio River
**US 460 Connector D/B**

JSE provided design-build engineering services on this 1733 ft. long twin segmental box bridge. The superstructure had two main spans of 489’ with the box varying from 31'-0" to 12'-6" in depth. The bridge is supported by “H” shaped columns with a maximum pier height of 220’ measured from top of footing to bottom of box. These are the tallest bridge piers in the state of Virginia. The construction cost of the design provided by the JSE beat the next closest D/B team construction cost by $3 million in addition to being the most responsive bid (bids weighted on technical proposal score).

Project Cost: $26 million  
Contractor: CJ Mahan Construction / Virginia DOT

**I-465 & I-70 D/B**

JSE was the lead consultant for this complex interchange reconstruction and added travel lanes project. JSE provided design services for the reconstruction of approximately 3.3 miles of I-465 on the east side of Indianapolis. The project included added travel lanes on I-70, reconstruction of ramps and replacement of numerous bridges.

Project Cost: $67 Million  
Contractor: Walsh Construction / INDOT

**I-355 Bridge Over Des Plaines River**

JSE provided design-build engineering services on this centerpiece project of the 14 mile I-355 extension. The construction cost of this 6,600 ft long bridge design provided by JSE beat the next closest D/B team’s construction cost by $8 million. This bridge was featured in the Spring 2008 issue of Aspire magazine and was on Road & Bridges top 10 list of best bridges in 2006. Additionally, this bridge received an Honor Award from ACEC.

Project Cost: $125 Million  
Contractor: Walsh Construction / Illinois Tollway

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**Design Build**

JSE has led the design efforts and provided construction engineering services for numerous D/B projects throughout the U.S. Our D/B experience includes many large, transportation projects including those with complex bridge structures, new interstate construction and rehabilitation projects. The strong interface, coordination and cooperation between our road designers, bridge designers and our contractor has made JSE a valuable D/B team member.
Design Build

“Over the past 10 years, JSE has provided design services for over 40 Design-Build projects. JSE’s Team was successful on 60% of these D/B projects.”

I-77 & US 62 Reconstruction D/B

JSE provided complete bridge design plans and calculations for all bridges associated with this project. The featured bridge of this project was the 540’ long US 62 bridge. JSE developed the rehab/ widen plans that replaced the existing steel plate girder superstructure with a prestressed beam superstructure and added new ramp approach spans built in a spiral alignment.

Project Cost: $26 million
Contractor: CJ Mahan Construction / Ohio DOT

I-88 Over Fox River Bridge D/B

JSE provided design plans and calculations for construction of the EB widening of I-88 over the Fox River. JSE prepared all details and designs required to construct this project including bridge plans, alignment plans, grading plans, traffic signal plans, landscaping plans, cross sections, drainage plans and maintenance of traffic details.

Project Cost: $44.5 Million
Contractor: McHugh Construction / Illinois Tollway

I-70 “Super 70” D/B

JSE provided design services for the replacement of 75 lane miles of pavement, 28 bridge decks, and widening of the interstate by 8 ft. on each side. A traffic management plan was developed by JSE for the project and plans for improvements to local routes were prepared in order to improve capacity on the local street network during the I-70 reconstruction time period.

Project Cost: $175 Million
Contractor: Walsh Construction / INDOT
Public/Private Partnerships (P3)

JSE is an industry leader in our ability to provide design services for large scale projects. JSE’s innovative development with transportation improvements from the Statement of Qualification, Proposal, and Final Plan stages shows our success on a wide variety of projects and industries.

LBJ-Dallas, Texas

JSE provided road, bridge and traffic design services for Ferrovial on several segments of the Tollway including the longest bridge structure on the Tollway over Broadway Ave., a railroad and three local streets. JSE performed an in-depth inspection of this 4000’ long complex steel girder structure in addition to developing the bridge rehabilitation and widening plans. JSE also developed plans for replacement of two river crossings and the value engineering redesign of a 2800’ viaduct. Design changes were implemented to minimize the waters impacts to resolve permitting issues.

Project Cost: $100 Million
Client: Ferrovial Agroman

I-90 Indiana Toll Road (P3)

JSE provided road, bridge and traffic design services for Ferrovial on several segments of the Tollway including the longest bridge structure on the Tollway over Broadway Ave., a railroad and three local streets. JSE performed an in-depth inspection of this 4000’ long complex steel girder structure in addition to developing the bridge rehabilitation and widening plans. JSE also developed plans for replacement of two river crossings and the value engineering redesign of a 2800’ viaduct. Design changes were implemented to minimize the waters impacts to resolve permitting issues.

Project Cost: $1 Billion
Client: Texas DOT / Ferrovial Agroman

IH-635 LBJ Expressway Managed Lanes, (P3)

This P3 project involves the construction of 4 miles of 6 lane depressed tollway from Rosser Road to SH 75 on the north side of Dallas, Texas. 8 lanes of freeway and 4 to 6 lanes of frontage roads are also being reconstructed. The Dallas North Tollway interchange will be reconstructed and several smaller slip lane connections will be relocated. Traffic is being maintained on the existing interstate at all times during construction. Project includes new traffic signal systems, lighting, ITS and tolling. JSE is the lead design consultant for this complex project.

Estimated Project Cost: $1 Billion
Client: Texas DOT / Ferrovial Agroman
Public/Private Partnerships (P3)

**Route 460 Corridor Improvement Project, (P3)**

This P3 project is located from the existing U.S. Route 460 near its Interstate-295 interchange in Prince George County to a new interchange with the U.S. Route 58 bypass in the City of Suffolk. The Project is comprised of approximately 55 miles of limited access, four-lane, divided highway along a new alignment. JSE will prepare proposal and bid plans for this P3 project.

Estimated Project Cost: $2 Billion
Client: Ferrovial Agroman

**Toronto Highway 407 Extension (P3)**

This P3 project originates at the Queen Elizabeth Way (QEW) in Burlington and terminates at Brock Road in Pickering. Design for the route includes a transportation corridor, consisting of a highway and a transitway, and the associated support facilities. JSE will prepare proposal and bid plans for this P3 project.

Estimated Project Cost: $1.5 Billion
Client: Ferrovial Agroman

**South Fraser Perimeter Road D/B Proposal (P3)**

This P3 project was the construction, operation and maintenance of a new economic development route south of Vancouver, BC. The route's purpose was to reduce the overall traffic congestion and to connect the passenger and freight ports to the industries and businesses along the South Fraser River. Project involved multiple construction, environmental and drainage issues. The total length was 20 miles which included 32 bridges. JSE prepared proposal and bid plans for this P3 project.

Estimated Project Cost: $800 Million
Client: Ferrovial Agroman, SNC Lavalin
**Construction Engineering**

JSE has been providing construction engineering services to contractors since the founding days of the company. JSE has developed, owned, and operated numerous unique structural analysis design programs that produce a step-by-step model during each stage of bridge structure erection. Many signature bridges across the country have been built based on construction engineering calculations and recommendations that our experienced staff has provided.

### Pomeroy Mason Bridge Over Ohio River

JSE provided construction engineering services for this cast-in-place segmental cable stayed bridge. Services included: integrated shop drawings, camber and erection elevations, cable stay stressing instructions, erection analysis, falsework design and part-time on-site assistance/inspection.

Project cost: $46 Million
Contractor: CJ Mahan Construction

### Eastbound Wakota Bridge

JSE provided tendon-stressing instructions and integrated shop drawings for placement of rebar and post-tensioning hardware. Our services included design of falsework towers and soffit to support the end-span segments. Periodic site visits were made to assist with construction and post-tensioning operations for this balanced cantilever cast-in-place segmental box girder bridge.

Project Cost: $120 Million
Contractor: Lunda Construction

### Woodrow Wilson Bridge Over Potomac River

JSE provided construction engineering services for the contractor in the casting yard, on site, and during erection for the Maryland approach spans precast segmental V-piers. Services included step-by-step construction analysis, interactive geometry control procedure, post-tensioning calculations and manuals, false work design, and integrated reinforcing and post-tensioning shop drawings.

Project Cost: $600 Million
Contractor: Edward Kraemer & American Bridge
“JSE has received positive compliments from Maryland DOT, Virginia DOT and the Contractors for creative means to erect the bascule piers and economical means to slide the falsework from the outer loop piers and reuse it for the inner loop piers.”  WOODROW WILSON BRIDGE

**Blennerhassett Island Bridge Over Ohio River**

JSE provided construction engineering services for the approach spans and inclined tied steel arch main span. JSE’s services included erection procedure, erection analysis, cable stressing data, falsework design and detailing, and approach span shop drawings. With a main span of 898 feet, this is the longest structure of its type (inclined tied arch) in the United States.

Project Cost: $110 Million
Contractor: Walsh Construction

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**SR 46 Bridge Over White River**

JSE provided construction engineering services and redesign of super structure for this signature cable-stayed structure. Services included integrated shop drawings, camber and erection elevations, cable stay stressing instructions, erection analysis, falsework design and full time on-site assistance.

Project Cost: $8 Million
Contractor: Milestone Construction

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**Main Street Bridge Over Scioto River**

JSE provided construction engineering services on this steel tub and steel arch bridge which included: integrated shop drawings, erection analysis, falsework design, and development of step-by-step erection manual with camber and erection elevations. The Main Street Bridge is the first inclined single-rib tied arch bridge in the United States and the World’s first single-inclined arch bridge that incorporates separate pedestrian and vehicular decks.

Project Cost: $44 Million
Contractor: Kokosing Construction
Value Engineering
Since the inception of JSE, our engineers have been working directly with government agencies and contractors to produce cost savings through Value Engineering concepts and re-designs. JSE has performed VE services on concrete segmental box, concrete segmental beam, prestressed beam, post-tensioned slabs and steel beam bridge structures. Additionally, JSE has provided VE services on road design projects including revised profiles / alignments, drainage design and maintenance of traffic schemes.

Seabreeze Bridge Over Intercoastal Waterway
JSE provided services in two phases for this precast segmental box girder bridge erected by balanced cantilever method. During this phase the entire structure was redesigned by JSE for the contractor. JSE first performed Value Engineering that included extensive changes in foundation, alignment, and precast segmental superstructure. For the second phase, JSE performed construction engineering including segment fabrication drawings, geometrical control of casting and erection, analysis of the construction loading, post-tensioning calculations and procedures, erection procedures, erection elevations, on-site assistance and technical support throughout the precasting and erection.

Project Cost: $40 Million
Contractor: GLF Construction

McCormick Place Expansion
JSE provided Value Engineering services on this elevated truck loading dock and emergency ramp. JSE redesigned 19,000 ft of steel superstructure beams to prestressed concrete beams featuring a maximum span length of 115’ and maximum cantilever length of 25’. JSE’s redesign resulted in a substantial cost savings to the client.

Project Cost: $15 Million
Contractor: McHugh Construction

KY 22 Over Kentucky River
JSE developed the redesign of this 4-span bridge (175’ – 200’ – 325’ – 200’) and provided construction engineering services which resulted in a cost savings to the client. The design provided by JSE saved in excess of $800,000 over the as-bid steel design. With a mainspan of 325’ it is one of the longest spans in the United States for a segmental bulb-tee beam.

Project Cost: $8.9 Million
Contractor: Haydon Bridge
CSX Railroad Over US 136

JSE provided design and construction engineering services for this 125’ long single span steel plate thru-girder bridge replacement over US 136 on Indy’s Westside. The Contractor hired JSE to perform value-engineering with a goal to reduce construction cost and time while maintaining train traffic. JSE developed an innovative construction technique utilizing a roll-in superstructure built alongside the existing structure on temporary abutments.

Project Cost: $2 Million $590 Thousand
Contractor: Beaty Construction

Fitchburg Bridge Over Nashua River

JSE provided superstructure redesign (Value Engineering) and construction engineering services on this cable stayed steel bridge. The structure was completed in 2002. JSE provided alternate steel girder superstructure design, integrated shop drawings, camber and erection elevations, cable stay stressing instructions, erection analysis, false work design and part-time on-site assistance.

Project Cost: $7 Million
Contractor: J.F. White Contracting, Inc.

Moore Haven Bridge Over Caloosahatchee Canal

JSE helped develop this value engineering project for the Florida Department of Transportation. The design provided by JSE was a 3-span Channel Unit (210’ – 320’ – 210’) and construction engineering services. The 320’ main span set a record length, at the time, for the United States utilizing this type of construction. The haunched pier segments were 15’ deep and the 8’ deep drop-in girders were a maximum length of 183’.

Project Cost: $14 Million
Contractor: The Middlesex Corporation

"JSE is routinely asked by Contractors to review construction plans for Value Engineering opportunities prior to bid. Our experience and ability to work closely with the Contractor allows us to propose a more cost effective solution for the project"
Building Design

JSE provides design, plan documentation and construction services for all types of building projects. Our licensed professional & structure engineers are registered with numerous states and government agencies in the US and abroad. We evaluate each project and coordinate with our clients to determine the optimum structural system for their building project. We pay attention to the details which saves our clients time and money in the construction of their facilities.

Greater Columbus Convention Center Expansion

Experience of Scott Noyer, Building Division Manager prior to joining Janssen & Spaans Engineering, Inc. Mr. Noyer was the Project Manager responsible for the design, directing drafting of the construction documents, and construction administration services. The project consisted of 120,000 sq ft of new exhibit space, a 15,000 sq ft “junior” ballroom, 15,000 sq ft of meeting space, additional parking and an upgrade of the 100,000 sq ft retail and food court. The exhibition space has 120 foot square structural bays and a two story space housing meeting rooms, rest rooms, mechanical space and a main concourse.

Project Cost: $73 Million
Client: Karlsberger

Indianapolis Central Public Library Repairs

JSE design team provided analyses and identified deficiencies shown on the original plans and those discovered due to construction methods following ACI, UBC and IBC building codes. Beams determined to be insufficient were strengthened using several methods including carbon fiber layers made composite to the original beam using polymers, application of reinforced concrete shear jackets, and installation of new supports.

Project Cost: $22 Million
Client: Beam Longest & Neff, LLC

Paul Brown Stadium

Experience of Scott Noyer, Building Division Manager prior to joining Janssen & Spaans Engineering, Inc. As the structural project manager (SPM) Mr. Noyer was responsible for the structural design, detailing, writing of specifications and construction administration of the foundation for the stadium complex, which included over 6,000 auger-cast piles. Scott was also responsible for the structural design, detailing, writing of specifications and construction administration of the three-story 60,000 sq ft administration building, and 10,000 sq ft of plaza area.

Project Cost: $750 Million
Client: NBBJ
JSE has over 30 years of experience providing bridge rehabilitation services for State, Local, and Federal agencies. A full staff of structural engineers and bridge inspectors is on hand to contribute to bridge rehab projects of any type and size. JSE also has a staff with experience in providing construction inspection services for State and Local Public Agency projects. Our inspectors are State Certified and NBIS Bridge Inspection Certified.

**US 231 Bridge Over Wabash River**

JSE provided services for this bridge rehab project which included an in-depth inspection of surface cracks and an invasive beam inspection to determine the extent of voided post-tension ducts. This inspection included the use of specialized equipment such as Ground Penetrating Radar (GPR), ground sensitive drills, video scopes, volume measuring vacuum testing and under bridge inspection platforms.

Client: INDOT

**US 52 Over Wabash River**

JSE inspected this deck truss bridge on US 52 which had light deterioration throughout the structure with moderate to heavy deterioration occurring at deck joint locations. The deck joints had leaked in the past causing accelerated deterioration of critical members. JSE prepared rehab plans and an inspection report. After the I-35 Minneapolis Bridge collapse, INDOT hired JSE to do in-depth inspections of all nine of Indiana's deck trusses.

Client: INDOT

**Meridian Street Over Fall Creek**

JSE provided services for the bridge inspection and rehabilitation of the historical limestone arch carrying Meridian Street over Fall Creek in Indianapolis, Indiana. The inspection included coring of arch and fill material and detailed survey of the limestone spandrel wall. The rehabilitation included the replacement of over 10' of the arch and the east limestone spandrel wall. Precise points along the bridge were scanned in and located by our survey team to better help with the restoration.

Client: Indianapolis DPW