Engineering Design Source, Inc. (EDSI) is a certified MBE/DBE civil engineering and surveying firm with 29 professionals providing consulting services in Missouri and Illinois. **EDSI staff includes 25% minorities and 29% women.** Since our inception in 1995, EDSI has successfully completed more than 1,500 projects in the Bi-state area.

EDSI has built a reputation of excellence by providing our clients with superior engineering and design services, personal attention, and highly responsive staff to meet the specific needs of each complex project. We take pride in our strong work ethic and our detailed quality control process which insures correct deliverables in a timely and cost effective manner.

EDSI has extensive design experience with highways/roadways, trails, pedestrian facilities, traffic studies, traffic signals, and site design. Our dedicated and diverse professional staff, detailed quality control plan and client satisfaction program ensures the successful completion of every project we undertake.

### Certifications

**DBE: Missouri**- Certified through Metro MRCC, Issued 1/7/16, codes: 541330 (Engineering), 541370 (Surveying)

**DBE: Illinois** - IDOT, Issued 8/17/16

**MBE:** State of Missouri, Certification No. M03396, Issued 2/17/16, Expires 1/7/17

**Professional Certifications:**

**Missouri:** Professional Engineering Corp. License No. 001523, Expires 12/31/17

Professional Land Surveying, License No. 2002030547, Expires 12/31/17

**Illinois:** Professional Design Firm/Land Surveyor/Prof Eng Corporation License No. 184.002570, Expires 4/30/2017

### Employees by Discipline

<table>
<thead>
<tr>
<th>CHESTERFIELD, MISSOURI OFFICE</th>
<th>EDSI</th>
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<tbody>
<tr>
<td><strong>Disciplines</strong></td>
<td></td>
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<tr>
<td>Civil / Structural Engineers</td>
<td>9</td>
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<tr>
<td>Professional Land Surveyors</td>
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<tr>
<td>Land Surveyors (LSIT)</td>
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<tr>
<td>Crew Members</td>
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<tr>
<td>Technicians (CADD / Microstation)</td>
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<td>Administrative</td>
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<td><strong>Total EDSI Employee</strong></td>
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### Roadway Design Experience

- Butcher Branch Road Bridge
  - Government and Wells
  - Liberal Arts Bridge
    - Central Fields
  - Grand Avenue Viaduct
  - Page-Olive Connector
- Wydown Boulevard Resurfacing
  - Forsyth Boulevard
  - Henner Cul-de-sac
Butcher Branch Road - Hillsboro, Missouri

EDSI was responsible for the subconsultant portion of a design-build project to construct a new road on new alignment between Olive Boulevard and Maryland Heights Expressway and widen Maryland Heights Expressway from its termination at Creve Coeur Mill Road to River Valley Drive. The project forms a final link between Route 141 south of Olive Boulevard and Maryland Heights Expressway. The road includes six total travel lanes and will ultimately relieve congestion on local roads including I-270, I-64 and I-70 and improve capacity between north and south St. Louis County, Jefferson County, and St. Charles County. Subconsultant portion included design and post-design services for the 1.5 mile segment from River Valley Drive to a point 4500’ south of Route 364 (Page Avenue). Design included alignments, profiles, right-of-way & easements, pavement design, intersection geometrics & warping details, traffic control & construction phasing, temporary erosion & sediment control, lighting, signing, pavement markings, open and enclosed drainage design, cross-sections & earthwork / grading, utility coordination, quantities, construction cost estimate, and technical specifications.

Government and Wells - St. Louis, Missouri

EDSI’s responsibilities include professional engineering and field surveying services for the survey of existing conditions; the preparation of preliminary plans; preparation of final plans, specifications, cost estimates, and shop drawing review for Government Drive & Wells Drive streetscape improvements located in Forest Park. As a subconsultant, EDSI provided topographic survey, water main design, traffic control planning and other design assistance as necessary for the Government Drive and Wells Drive Streetscape Improvement project.

EDSI will be responsible for surveying (elevation checks, bridge clearance checks, verification of provided surveys), right of way acquisition documents, signal redesign (3 intersections, including temporary), Maintenance of Traffic Plans, and Traffic Control Plans for project limits south of the Meramec River.

Liberal Arts Bridge - St. Louis, Missouri

The City of St. Louis selected a team to provide professional engineering and land surveying services for the Liberal Arts Bridge Replacement, Muny Tributary Enhancements, and Government Drive Improvements, located within Forest Park in the City of St. Louis, Missouri. EDSI’s subconsultant responsibilities include leading the bridge design, surveys, design of ADA accessibility, and preliminary traffic control plans.
Central Fields - St. Louis, Missouri
The City of St. Louis selected the Consultant team to provide Professional Architecture, Engineering, Land Surveying, and Landscape Architecture Services for Central Fields-Athletic Field & Support Facility Upgrades and Streetscape Improvements to McKinley Drive, Macklin Drive, Union Drive, and Wells Drive located within Forest Park in St. Louis, Missouri. While designed as a whole, the improvements will consist of at least two sets of construction documents. The street improvements will be a separate set of construction documents from the upgrades to the athletic fields and support facilities.

EDSI, as a subconsultant, is responsible for civil surveying, traffic and stormwater design.

Grand Avenue Viaduct - St. Louis, Missouri
EDSI was selected to perform the subconsultant portion of the replacement of the Grand Avenue Viaduct between Chouteau Avenue and I-64. Phase one included data collection, a feasibility study to determine the extent of rehabilitation and replacement and cost of options, and the preparation of preliminary plans. Phase two included preparation of right-of-way plans and final design. Design included traffic counts, alignments, profiles, right-of-way & easements, typical sections, intersection geometrics, traffic control, temporary erosion & sediment control, traffic signals, lighting, signing, pavement markings, enclosed drainage design, MSE wall layout, cross-sections & earthwork, utility coordination, quantities, and construction cost estimate.

“John Hock and the EDSI staff were excellent to work with. Communication was always clear and timely. The plan set is top notch for the complexity of the project.” Kevin Kriete, PE, HDR Inc.

Page-Olive Connector - St. Louis County, Missouri
EDSI was responsible for the subconsultant portion of a design-build project to construct a new road on new alignment between Olive Boulevard and Maryland Heights Expressway and widen Maryland Heights Expressway from its termination at Creve Coeur Mill Road to River Valley Drive. The project forms a final link between Route 141 south of Olive Boulevard and Maryland Heights Expressway. The road includes six total travel lanes and will ultimately relieve congestion on local roads including I-270, I-64 and I-70 and improve capacity between north and south St. Louis County, Jefferson County, and St. Charles County. Subconsultant portion included design and post design services for the 1.5 mile segment from River Valley Drive to a point 4500’ south of Route 364 (Page Avenue).

Project received Honor Award in the ACEC 2013 Engineering Excellence Competition
**Wydown Boulevard Resurfacing - Clayton, Missouri**

The original project included the mill & overlay of Wydown Boulevard with 2” of asphalt surface, the replacement of substandard curb & gutter, the replacement of non-compliant curb ramps, base repair (as-needed), and installation of precast paver crosswalks on a concrete base, and restriping. The project limits were Hanley Road to the eastern City limits near Skinker Boulevard, for a total length of approximately 9,100’.

A supplemental agreement covered additional surveying and engineering services necessitated by the discovery of poor subsurface conditions. Geotechnical investigation during the preliminary design phase indicated inadequate pavement base in some areas of the project. Instead of mill and overlay, some areas required complete pavement replacement, while others required a simple overlay, and yet others required variable-depth milling prior to overlay.

In order to ensure drainage was not affected, additional surveying and engineering was required. The City initially intended to perform the majority of design in-house, but these complications increased design requirements beyond the capacity of the City, and beyond the scope of the original contract, necessitating the supplement.

**Forsyth Boulevard - University City, Missouri**

Design services included surveying, geotechnical investigations, preparing and submitting necessary environmental and historic preservation permits, contract documents, assisting with the bidding process, construction support/construction inspection, utility coordination/permits and traffic controls including the preparation of PS&E and final documents.

Design also included sharrow pavement markings layout, traffic signal upgrades per MUTCD standards at one intersection and an evaluation of intersection sightlines and a possible bump-out construction solution at another intersection.

**Henner Cul-de-sac - St. Louis, Missouri**

Construction plans to eliminate the intersection of Henner Avenue with Bircher Boulevard by constructing a cul-de-sac at the end of Henner. Design included right-of-way & easements, geometrics & warping details, signing, drainage design, wall design, earthwork & grading, utilities, quantities, construction cost estimate, and technical specifications.