

# *Hutchison Engineering, Inc.*

**Since 1945**

**Jacksonville • Quad Cities • Peoria • Shorewood • Carbondale**

Since 1945, Hutchison Engineering, Inc. has provided civil engineering services to a wide range of clients on a variety of projects. Services for DOTs and Local Agencies have included Phase I - Project Report/NEPA, Phase II – Design Plans, Specifications and Estimates, Phase III - Construction Inspection/Material Testing engineering.

Hutchison Engineering routinely provides Design/PSE Development (Phase II) engineering services for federal, MFT, and locally funded urban and rural roadway reconstruction, resurfacing, full depth reclamation, and preventative maintenance projects. Specific types of projects include the following:

1. Major urban street reconstruction
2. Intersection reconstruction including signalized intersections and round-a-bouts.
3. Residential street reconstruction
4. Downtown Business District Streetscape/reconstruction
5. Hot-Mix Asphalt Resurfacing
6. Rural roadway full depth reclamation
7. Cold-in-Place Recycling
8. Chip Sealing and other forms of preventative maintenance

Hutchison Engineering has the technical expertise to provide the following services:

1. Survey
2. Plat Development
3. Utility Coordination
4. Environmental Coordination
5. Railroad Coordination
6. Traffic Studies including Intersection Design Studies
7. Storm Water Management & Permitting
8. Complete Streets Analysis
9. Public Involvement
10. DOT/FHWA Coordination
11. DOT Project Development Reports
12. Pavement Design
13. Storm Sewer System Design
14. Water System Distribution Design
15. Waste Water Collection System Design
16. Erosion Control Design
17. Bridge, Culvert, & Retaining Wall Design
18. Plans, Specifications & Estimates for state or local lettings

A few of our projects that show relevant experience for the On-Call Services for Roadway Design (Phase II).

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A few of our projects that show relevant experience for the On-Call Services for Roadway Design (Phase II).

**Project:** **Maplewood Drive Resurfacing**

**Client:** **Village of Rantoul, IL**

**Responsibility:** **Phase (I &) II Engineering**

Hutchison Engineering provided Phase I and II preliminary engineering services for this \$1.5M STU/TARP funded patching and resurfacing project. The 1.5 mile project included PCC pavement patching, milling, HMA resurfacing, sidewalk/ADA ramp reconstruction, incidental HMA driveway resurfacing to correct drainage issues, pavement markings, and other collateral work. HEI provided services including environmental/cultural coordination, IDOT/FHWA coordination, survey, patching survey, pavement design following IDOT LAFO policies, sidewalk ramp design, Plans, Specifications, and Estimates for a state letting, and construction inspection in accordance with IDOT policies and procedures for federally funded projects.

**Project:** **Downtown Square Reconstruction**

**Client:** **City of Jacksonville, IL**

**Responsibilities:** **Phase (I &) II Engineering**

Hutchison Engineering provided preliminary engineering services to assist with developing ITEP grant applications and Phase I and II preliminary engineering services for several street reconstruction/streetscaping projects within the downtown area. HEI has led four different ITEP grant application submittals that have been successful. These successful grant applications have produced over \$6 million in ITEP funding for multiple projects. The project included the evaluation of a reconstructed historical square or roundabout configuration to replace the one-way coupled streets, as well as alignment studies of the contributing corridor two-way streets. The work was necessary to restore the historical integrity of the business district, calm traffic, improve safety for both motorists and pedestrians within the project limits. The projects included hand struck ADA compliant sidewalks accented with brick pavers, curb and gutter, storm sewer, reconstructed pavements, signing, street lighting, historic pedestrian scale lighting, and streetscape amenities. HEI provided services including a traffic study, intersection design study, geometric option development, IDOT and FHWA coordination, environmental coordination, historical building coordination, streetscape element option development, utility coordination, public involvement using the Context Sensitive Solutions process, developing an IDOT approved Project Development Report, and final Plans, Specifications and Estimates for a state letting.

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**Project:** Downtown Reconstruction  
**Client:** City of Mt. Sterling, IL  
**Responsibilities:** Phase (I &) II Engineering

Hutchison Engineering provided preliminary engineering services to assist with developing an ITEP grant application and Phase I and II preliminary engineering services for the reconstruction of Main St. (US 24) in the historic downtown area. The ITEP grant application was successful and the City was awarded ITEP funds during the ITEP Cycle 13 (2018). The project consisted of the reconstruction of the sidewalks and parking areas on Main Street (US 24) within the downtown business district to pre-1930's historic conditions. The work is necessary to restore the historical integrity of the business district, calm traffic at the Main St/Capitol Avenue intersection and improve the safety of both motorists and pedestrians within the project limits. The project included hand struck ADA compliant sidewalks accented with brick pavers, curb and gutter, storm sewer, colored concrete parking lanes, signing, street lighting, historic pedestrian scale lighting, and streetscape amenities. HEI provided services including a traffic study, intersection design study, geometric option development, IDOT and FHWA coordination, environmental coordination, historical building coordination, streetscape element option development, utility coordination, public involvement, developing an IDOT approved Project Development Report, and final Plans, Specifications and Estimates for a state letting.

**Project:** University St. Reconstruction  
**Client:** City of Peoria, IL  
**Responsibilities:** Phase (I &) II Engineering

Hutchison Engineering provided Phase I and II preliminary engineering services for this \$5M federally funded, 1 mile reconstruction project located on the north side of Peoria in a commercial/industrial area. The project consisted of the complete reconstruction of the five-lane section with new PCC pavement and reconstruction and expansion of the two lane rural section to a three lane urban section. The project included curb and gutter, storm sewer, sidewalk, and a multi-use path. Hutchison Engineering was responsible for environmental coordination, utility coordination, railroad coordination, public involvement, roadway design, ADA design, storm sewer design, erosion control plans, and maintenance of traffic plans. Like most urban reconstruction projects, utility conflict resolution proved to be challenging. Due to the limited space within the public right-of-way, it was important for the design team to coordinate with all utility companies to determine an overall utility relocation plan. The design team was able to effectively coordinate the relocations so all of the relocations were completed prior to construction.



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**Project:** Hilldale Ave. Reconstruction

**Client:** City of Washington, IL

**Responsibilities:** Phase (I &) II Engineering

Hutchison Engineering provided Phase I and II preliminary engineering services for this \$5.5M locally funded, 4800' long residential street reconstruction project. The project consists of the complete reconstruction of the street with new HMA pavement, curb and gutter, utility systems, sidewalks, and entrances. Hutchison Engineering is responsible for environmental coordination, utility coordination, public involvement, roadway design, ADA design, storm sewer design, water system design, sanitary system design, and erosion control plans, Plans, Specifications for a local letting, and full construction inspection. Due to widening the street and limited existing ROW, placement of City utilities and the corresponding relocation of private utility facilities required significant coordination to ensure IEPA regulations were met and the start of construction was not delayed. To achieve ADA compliancy, standard driveway slopes, and positive drainage behind the sidewalks required significant effort. With the use of 3D modeling, the design team was able to expedite this process and develop a plan that met all requirements in all three areas.

**Project:** CH 23 Reconstruction

**Client:** McLean County, IL

**Responsibilities:** Phase (I &) II Engineering

Hutchison Engineering provided Phase I and II preliminary engineering services for this \$6.5 million MFT/locally funded project. The project consisted of the reconstruction of 5.5 miles CH 23 from I-55 to US 24 near Lexington, IL. The existing typical section consisted of a 19' wide HMA pavement with 2-3' aggregate shoulders and shallow ditches. The proposed typical section consisted of 24' wide HMA pavement, 12" aggregate base course, 8' aggregate shoulders (6' aggregate and 2' turf), geotechnical fabric, 4:1 foreslopes, 4' ditch bottoms, and 3:1 backslopes. The project included pavement removal, earthwork, pipe culverts, guardrail, 12" aggregate base course, 6" HMA pavement, landscaping, erosion control items, and paint pavement markings. HEI provided Phase I and II preliminary engineering services including utility coordination, environmental coordination, IDOT coordination, survey, hydraulic analysis/culvert sizing, horizontal and vertical alignment adjustments, pavement design, developing plats and legal descriptions, and plans, specifications, and estimates for a local letting.