



ENGINEERING A BETTER WAY

OFFICES IN:

ST. LOUIS, MISSOURI (HEADQUARTERS)

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St. Louis, Missouri 63139
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SHERIDAN, WYOMING

TROY, ILLINOIS

CHARLOTTE, NORTH CAROLINA

www.cdgengineers.com



ESTABLISHED:

CDG was established in 1992 as part of the reorganization of a firm that was originally founded in 1941 as Neal J. Campbell Consulting Engineers.

CAPABILITIES:

CDG is a full service, multi-discipline professional services organization with capabilities in civil, structural, mechanical and electrical engineering, as well as architecture. Services include planning, engineering and architectural design, and construction administration. CDG works in the fields of public works/infrastructure, power, industrial and mining.

TECHNOLOGY:

Resources include up-to-date CADD systems and software capabilities using a wide range of Autodesk and Bentley products for design, 3-D modeling, animations, visualization graphics, Geographic Information Systems (GIS), Building Information Modeling (BIM), LiDAR scanning, drone services and more.

SMALL BUSINESS CERTIFICATION:

CDG is classified as a small business by the U.S. Federal Government. The firm is registered on the SAM.gov website and has successfully worked under IDIQ contracts for the U.S. Army Corps of Engineers.

CORE CAPABILITIES

Port and Terminal Operations

- > Marine Facilities, Ports & Terminals
- > Barge Loading & Unloading Systems
- > Bulk Materials Handling Equipment Design & Layout
- > Navigation Master Planning
- > Electrical Systems - Power & Controls, Arc Flash Studies & Analysis
- > Equipment & Systems - Start-up & Troubleshooting
- > Floodplain Protection Studies
- > Permitting Assistance
- > Roads, Bridges, Culverts & Retaining Wall Structures
- > Stormwater & Sanitary Sewer Drainage

We have built our reputation on referrals and repeat business and work diligently to deliver value added services that other companies are unable or unwilling to provide.



As part of our transportation engineering services, CDG has extensive experience designing bulk terminals to help power plants, mines and industrial facilities efficiently and effectively transport bulk materials such as coal, ash, grain and limestone along waterways. When you choose to work with CDG, you don't just get technically superior engineered solutions, you also gain a business partner who can guide you through permitting, due diligence, site planning and implementation phases of your project and help you navigate any challenges you may experience along the way.

Our team also understands terminal automation and can help your facility retrofit an existing marine terminal to help maximize throughput and thereby increase profitability. If you are looking to make the most out of an existing marine terminal or you are considering a new marine terminal facility, look no further than the experts at CDG.

SERVICES:

- > Barge Loading & Unloading Facilities
- > Barge Handling Systems - Hauling, Breasting, Fleeting
- > Conveying Systems
- > Docks, Wharves, Piers, Dolphins
- > Coal Loading (Exporting) Terminals
- > River Cell Structure Evaluation
- > Dust Control Systems for River Terminals

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Sheridan, Wyoming
Troy, Illinois
Charlotte, North Carolina

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ADM Grain Company

Scope: Performance of structural condition assessment and analysis of the existing barge load-out facilities at the Sauget Marine Terminal located on the Mississippi River. Following the assessment report, CDG provided design solutions for tower structure modifications to repair deficiencies and design for the installation of two new loading spouts.

Ameren Corporation

Scope: Performed a floodplain analysis at the Labadie Energy Center, located along the southern bank of the Mississippi River, in order to provide documentation to support a floodplain development permit from Franklin County, Missouri for the construction of a coal waste landfill. The hydraulic analysis successfully met all requirements for a “no-rise” certification.

Bunge North America

Scope: CDG performed hydraulic analysis, permitting and prepared a conceptual site plan to construct river dock facilities for unloading soybeans in the Tennessee River. Plans consisted of 35-foot diameter river cell, paved access road, river cell access platforms, two 20-foot diameter upstream and downstream river cells for mooring/barge haul winch and access catwalks.

Cairo Public Utilities and City of Cairo, Illinois

Scope: Conceptual site design and scoping for proposed river port terminal to be located near the confluence of the Mississippi and Ohio Rivers. Concept design included five mooring cells and four floating deck barges with two dock faces which would allow for loading and unloading on both sides of the terminal site. Also provided a separate conceptual design for the port which included railroad facilities, grain handling facilities, coal handling facilities and liquids handling facilities.

CSX Transportation Inc.

Scope: Conducted a comprehensive study to identify site, equipment and facility modifications to increase shipping capacity from 10.5MM tons to 20 MM tons per year over a 3-4 year period at the Curtis Bay Terminal in Baltimore, Maryland. Following data collection and analysis, CDG provided conceptual designs for several improvements and reconfiguration options to increase efficiency and capacity.

Midwest Generation

Scope: Following damage from a severe thunderstorm, CDG conducted engineering study to determine the replacement of a barge unloader system at the Crawford Generating Station in Chicago, Illinois. After presenting findings from the study, provided design and specifications for the reconstruction of the facility. The project included the installation of an unloader crane, receiving hopper and feeder assembly, in addition to the modification of an existing dock conveyor replacement and the addition of a conveyor cover.

Mississippi Lime Company

Scope: Provided design of upgrades to the Little Rock Rail/Truck Barge Terminal on the western bank of the Mississippi River. Objectives consisted of providing terminal upgrades for high and low water loading; efficient and duct free product handling; and integration of improved material handling with truck and train unloading and barge loading.

