MASSACHUSETTS AVENUE
GREEN ALLEY DRAINAGE - INDIANAPOLIS, IN
GUIDON DESIGN, INC

SCOPE OF SERVICES
- Civil Engineering Design
- Complex Stormwater Model

CLIENT/OWNER
City of Indianapolis
Department of Public Works
Chris Franz

The City of Indianapolis Department of Public Works has identified an area of localized flooding adjacent to Massachusetts Avenue, one of Indianapolis’ most popular streets. The gravel area floods four to five times per year and is adjacent to an original brick alley that has some visible degradation. As part of an on-call stormwater contract, Guidon Design implemented a new permeable paver product surrounded by asphalt. The unique product design allows for storage in an arch beneath the paver and very high infiltration rates. A perforated underdrain beneath the pavers conveys the runoff to the nearest existing inlet on Mass Ave.

LITTLE EAGLE CREEK
STORMWATER DISCONNECT CSO 033 - INDIANAPOLIS, IN
GUIDON DESIGN, INC

SCOPE OF SERVICES
- Civil Engineering Design for stormwater and sanitary
- Development of Green Infrastructure Concept Design Alternative
- Green Infrastructure Feasibility Study
- Life Cycle Cost Analysis
- Development of Green Infrastructure Construction Details

CLIENT/OWNER
Citizens Energy Group
Bob Masbaum
Manager STEP Design and Construction
Manager STEP Design and Construction
317.429.3961
bmasbaum@citizensenergygroup.com

Guidon Design developed an engineering solution for Citizens Energy Group to the area currently served by a combined sewer system on the east side of Indianapolis along Little Eagle Creek. Several overflows throughout the network discharge the water and wastewater directly into Eagle Creek. The overflows occur when the pipes exceed their capacity, typically during a large rainstorm event. When overflows occur, the water then is polluted by raw sewage, fecal coliform, and E-Coli. The purpose of this project is to reduce the amount of overflows at CSO 033 to four a year. Accomplishing this goal required the combined sewer to be separated, and most of the runoff to be captured by other sources.

In the first phase of the project, Guidon Design conducted a green infrastructure analysis report to evaluate the watershed. Three alternative concept designs were developed for comparative analysis. The report identified over $1.16Mil in construction cost savings and $600,000 in 20 year life cycle savings with the recommended “Alternative 3 - Green Solution.” The green infrastructure alternative to the conventional storm sewer separation approach included 2,350 feet of stormwater planters. Guidon Design is providing Sustainability consulting and engineering design oversight for the overall project.
November 14, 2016

Guidon Design, Inc.
Attention: Luke Leising
905 N. Capital Avenue, STE 100
Indianapolis, IN 46204

Dear Mr. Leising:

The Office of the Mayor’s Minority Business Development Division has received your letter of identification as a Veteran Owned Business and has verified that your company is listed as a VetBiz Registry Vendor in:

**NAICS Code:** 238210, 541310, 541320, 541330, 541340, 541350, 541370, 541620, 712120.

**Professional Services:** Architecture and Engineering Consulting Services.

Your company’s name will be listed on the City of Indianapolis’ Vendor Directory as a Veteran Business Enterprise, VBE. This identification is separate from the City of Indianapolis’ M/W/DOBE Certification Program.

Guidon Design, Inc. -- is hereby identified by the City of Indianapolis as a Veteran Business Owner, (VBE). This identification is issued pursuant to the Mayor’s Veteran initiative (Executive Order No. 5) and Public Law 109-461 Section 8127 (g), per the Department of Veterans Affairs.

Your identification as a VBE is valid until **September 22, 2018** and allows your firm to participate in the City of Indianapolis’ Veteran Business Enterprise (VBE) Procurement Program.

The VBE identification is for internal procurement purposes only and does not verify the firm’s work capability or capacity.

Please insure that you are registered as vendor with the City of Indianapolis Purchasing Division, Room 1522 City- County Building or call (317) 327-4900. Please contact their website at, www.indy.gov/purching for details to register.

Sincerely,

[Signature]

Fahad Beg
Contract Compliance Manager
M/W/V/DOBE Certification Program
PROJECT EXPERIENCE

Eagle Creek Trail – DPW Indianapolis, Indiana
Guidon Design is on the design team for three phases of the new Eagle Creek Greenway system, including the Speedway, South, and North sections. Mr. King is a Civil Engineer performing, erosion control, rule 5, utility coordination and structural engineering of the I74 bridge section.

Stormwater Disconnect CSO 33 - Citizens Energy Group, Indianapolis, Indiana
Guidon Design developed a green infrastructure analysis comparing traditional solutions with green/LID alternatives. The thorough report identified over $1.7 Mil in construction cost savings and $600,000 in 20 year life cycle savings. Guidon Design then assisted in the design of extensive infiltration basins. Guidon Design staff paid special attention in the design of a unique educational rain garden on an IPS school that not only improves water quality but is an educational laboratory for the students. Mr. King was the design engineer for this project, performing green infrastructure site analysis. He also participated in presenting the project to community stakeholders.

Mass Ave Green Alley - DPW Indianapolis, Indiana
Guidon Design is the lead engineer for developing a sustainable infiltration solution to improve flooding at Alley 575 E and Massachusetts Ave. Mr. King evaluated the existing infrastructure and designed a green solution to alleviate drainage problems. Mr. King developed design plans, specifications, engineers estimate and bid documents for this project. He will engage adjacent property owners to explain how the infrastructure improvements will impact their properties.

Vermont Street Plaza - Indianapolis, Indiana
Guidon Design is part of a multi-disciplinary team tasked with redesigning the Vermont Street Plaza of the Downtown Canal in Indianapolis, Indiana. Guidon Design provided civil engineering consulting, including grading, utility coordination and structural detailing. Mr. King was a key part of the design team and attended all coordination meetings, as well as assembled the construction documents and specifications.

Bean Creek - DPW Indianapolis, Indiana
Guidon Design worked to solve severe flooding issues in several residential areas on Indianapolis’s Southeast Side. Mr. King evaluated the effectiveness of existing infrastructure quality and designed a combination of green infrastructure and hybrid ditches in lieu of traditional conveyance methods. Not only do the hybrid ditches provide an improvement in stormwater quality, but they also slow down runoff by infiltrating through perforated underdrains, which reduces the peak flow and volume. Guidon Design created a complex stormwater model to simulate the existing flooding conditions and the proposed improvements. The project construction budget will be $5-8 million, and construction is scheduled to begin in 2014.

62ND Street Trail - Indianapolis, Indiana
Guidon Design is assisting on the construction inspection for this new multi-use trail. Part of the City of Indianapolis’s focus on improving bike and pedestrian access, this new trail runs from Allisonville Rd to Binford Blvd. The 10 foot wide 0.7 mile long HMA trail crosses an active rail line and middle school. Guidon Design staff will provide specific coordination of ADA ramps during construction. Coordination of these critical pedestrian interchange locations reduces construction conflicts, identifies design shortfalls and minimizes change orders and project cost. Estimated construction cost is $800,000.