



## A Note from Wendy and Howard...

Hello,

Our feature today is about a 22-year, 74-part project with **Clean Solutions for Omaha**, a major wastewater upgrade. We're revealing our keys to success for keeping it all straight when working on a project that large (some of which you might apply to your long and looming holiday to-do list).

We are featuring **Alex Winking** in our employee spotlight this month. Alex started with Huffman Engineering as a co-op in 2012 and has been on our team ever since, quickly able to take the reigns in projects- even those as complex as the one in our feature today.

When you need an expert to help solve automation challenges, we are here to help. We deliver engineered solutions tailored to your automation needs. Visit our [website](#) for more information on our areas of expertise, or call us (402) 464-6823 for a free initial consultation.

**We hope you and your families have a very Merry Christmas and a Happy New Year!**

Best regards,

The Huffman Engineering Inc., Team

Huffman Engineering, Inc.  
5301 N. 57th St.  
Lincoln, NE 68507  
Phone: (402) 464-6823

# The Keys to a Successful Major Wastewater Overhaul Project

*Huffman Engineering is the single-sourced subcontractor responsible for designing and installing the instrumentation and controls on a section of a major, 22-year, 74-part wastewater improvement project for the City of Omaha. Having just finished the first two phases of the project, here's how it's going so far.*



## Clean Solutions for Omaha Overview

The City of Omaha is among 772 cities across the country that have a combined sewer system rather than separate sanitary and storm water sewers. A combined sewer system collects rainwater, domestic sewage and industrial wastewater into one pipe. When the volume exceeds capacity during heavy rainfall events or snowmelt, pressure on the system is relieved by directing the overflow into local waterways to minimize backups into homes and businesses. This is known as a combined sewer overflow (CSO). When this occurs in Omaha, untreated storm water and wastewater, including raw sewage, from the City's 850 miles of combined sewer begin to overflow into the Papillion Creek (11 outfall points) or Missouri River (19 outfall points).

Omaha's \$2 billion **Clean Solutions for Omaha** (CSO) Program is a Long-Term Control Plan (LTCP) for a massive sewer overhaul to bring the City into compliance with the requirements of the U.S. Environmental Protection Agency CSO Control Policy of 1994 (EPA CSO Control Policy) and Clean Water Act. There are a total of 74 projects encapsulated in this program to reduce the amount of CSOs into the Missouri River and the Papillion Creek. The CSO Program's schedule started in 2007 and is slated to end in 2029 resulting in 16 remaining CSO outfall points: greatly reducing frequency, volume, and duration of CSO events. The City's investment in its CSO Program has and will continue to improve water quality in Omaha's local rivers and streams achieving multiple benefits for the community.

## Missouri River Wastewater Treatment Plant Project Overview

The CSO plan included improvements to the Missouri River Wastewater Treatment Plant (MRWWTP) built in 1964 treating an average of 25 million gallons per day (MGD) of wastewater. The improvement plan to increase the treatment capacity for wet weather included three phases – Schedule A, B1 and B2.

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# Spotlight - Alex Winking

Today we shine the spotlight on Huffman Engineering's Alex Winking. Aside from his excellent work with our team here at Huffman Engineering, we are happy to share that Alex is enjoying a very exciting time in his life as a newlywed and soon-to-be father!



Many of our engineers start with us as co-op students and through the years, we have found this to be a great way to build a strong team; we have the opportunity to teach them the Huffman Engineering way from the very start of their career. Alex is exemplary of how that translates into an excellent engineer and valuable member of our team. Alex began his career with Huffman Engineering as a co-op student in 2012. Two short years later, Alex graduated from the University of Nebraska-Lincoln with a Bachelor of Science in Mechanical Engineering and officially joined the Huffman Engineering team as a full-time engineer.

“Alex embodies our core values: he’s a true team player who looks out for others on his team, whether that’s customers or coworkers. He’s genuine, innovative, competent, and dynamic,” says Howard Huffman, president of Huffman Engineering. “We recognized early on his thoroughness and ability to organize multiple things at the same time. Therefore, he was quickly trusted to run projects. What’s more, he possesses the humility needed to continually learn and improve.”

Since joining Huffman Engineering full-time, Alex has worked on a wide variety of projects primarily for our water/wastewater customers. In one of his most recent projects, Alex spent time conducting Phase 3 improvements at the Wastewater Treatment Facility in Columbus, NE. Other projects Alex has completed over the years included drafting, loop drawings, P&ID development, PLC/HMI development, panel design, on-site coordination and checkout, fiber optic testing, project management and more.

When asked what he likes best about Huffman Engineering, Alex notes his great appreciation for the company culture. “At Huffman Engineering, the customer is a main priority. Building character and investing in the personal development of each individual employee is also a big part of the Huffman Engineering culture.” Alex further explains this culture by referencing Huffman Engineering’s quality statement, ***Do the Right thing in the Right way at the Right time to the Right specifications with the Right results (#HEI5Rs)***. “When everyone involved has this mindset, it helps to build character and integrity in all members involved.”



Alex was raised in the city of Omaha, NE where he is now settled down with his wife, Kristen Winking. The college sweethearts met through mutual friends at UNL and married just last year on July 9, 2016. Alex enthusiastically shares, "We are currently expecting our first child, a BOY in January 2018!" He is most excited about playing sports with and passing on knowledge to his son in the future. Alex playfully adds, "Also, playing with Legos with him, because who doesn't like building things with Legos?"

In leisure time, Alex enjoys playing soccer, watching Husker/Kansas City Chiefs football, and do-it-yourself projects around the house. "My most recent project was building storage shelves for our basement storeroom. Other projects have been replacing/installing a new faucet for our kitchen, installing car siding on our peninsula in our kitchen, and painting every room inside our house." When they have the chance, Alex and Kristen also enjoy walking their dog, going bowling, going out for dinner and spending time with good friends!



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# In Case You Missed It...

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## Evan Kilgore Receives "2017 Growth Award" for Success in the Denver Office



## Nine Employees Pass Schneider Electric PlantStruxure Certification Exam



## Why Drawings Should Be Considered an Important Part of Project Documentation

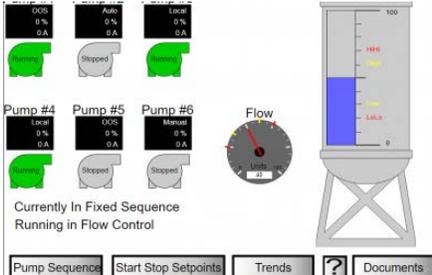
*Blog post by Amy Obst, Senior CAD Operator*



## Huffman Engineering Hires Experienced Professional Engineer John Robinson for Lincoln Office



## Huffman Engineering Continues Water Infrastructure Renovation Work for MUD on Minne Lusa Pump Station Improvements



## 5 Tips for HMI Development

*Blog post by Justin Gilg, Electrical Engineer*



## Finding a Path to Harness the Power of IIoT and Big Data



## Using Adept to Simplify Process Control Engineering Management

*Case Study*

Connect with Us



(402) 464-6823

5301 N 57th St Ste 101 Lincoln, Nebraska 68507  
7350 E. Progress Place, Suite 100 Greenwood Village, Colorado 80111