

# HEARTLAND DRIVE + COMMERCE DRIVE ROADWAY IMPROVEMENTS

CORALVILLE, IOWA



## PROJECT DESCRIPTION

Large retail stores, restaurants, shopping, and businesses like Rockwell Collins, make northwestern Coralville a hot spot for visitors. As a result, high levels of activity were creating the need for more capacity in the roadway network. The challenge was moving these numerous vehicles as efficiently as possible in a relatively small area while keeping traffic flowing and minimally impacting employees' routes to work.

The developer agreed with the City to lead the project but needed to get the Heartland Drive portion of improvements completed by the Fall of 2013.

To efficiently move traffic through this busy area, along with providing access to future developments, a 5-leg roundabout was McClure's solution. Coralville has an established, growing roundabout network throughout the City and an educated population on how they function. With this, the idea of a roundabout made the most sense. The roundabout allowed the City to accommodate large volumes of through traffic while offering an opportunity for land to be developed north and south of the roundabout. As a result, traffic can continuously flow through this area in a safe, efficient manner.

McClure was hired in early February of 2013 and used an accelerated Design-build approach that allowed the initial phases to start construction in May 2013 before the entire project was designed fully. The design team then provided the necessary deliverables to start each phase.

## COMPLETION DATE

2013

## COST OF SERVICES

\$2.5M

## REFERENCE

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## PROJECT HIGHLIGHTS:

- A Geopak Site Modeler was used for the complicated geometric design of the roundabout.
- AutoCAD Civil 3D was used for the widening portions.
- The finished grade surface was "stitched" together and then used to provide staking data for our survey crew.
- The first four phases were completed in 2013 with the last phase, involving a second roundabout at Commerce Drive, completed in the Spring of 2014.