

NORTHWEST 18TH STREET RECONSTRUCTION

NORTHWEST ASH DRIVE TO NORTH ANKENY BOULEVARD

ANKENY, IOWA



PROJECT DESCRIPTION

Northwest 18th Street is a heavily traveled arterial roadway that was slowly deteriorating and unable to handle the increase in traffic demand. With increase in traffic volumes and new development expected along the corridor, McClure was hired by the City of Ankeny to perform an in-depth traffic study analyzing AM, PM, and PM Peak School traffic, review access management and intersection configurations, roundabout analysis, and multi-modal review.

The results of the traffic study indicated that the roadway was to be reconstructed to a 3-lane typical section with designated right turn lanes at key locations with the ability to easily upgrade to a future 5-lane typical section. Additionally, the study showed that two new traffic signals needed to be constructed to maintain traffic efficiency and safety along the corridor.

McClure utilized the study to design the reconstruction of the over half-mile corridor and adjacent side roads. In addition to the roadway reconstruction, McClure designed new storm sewer that utilized the existing storm sewer to reduce costs, water main at conflict locations, sidewalk and a shared use path, two new traffic signals with pedestrian push buttons, new fiber optics, park sign foundation, right-of-way and easement acquisitions, and detailed staging plans to maintain access to properties and minimizing roadway closures timelines to accommodate school traffic. Additionally, McClure reviewed and worked together on nine utility relocation plans and multiple development entities, Ankeny Public Schools, and Ankeny Parks and Recreation to ensure a smooth construction season.

COMPLETION DATE

November 2023

REFERENCE

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PROJECT HIGHLIGHTS

Services included:

- General civil engineering
- Project management
- Traffic impact study
- Roadway design
- Trail and ADA sidewalk
- Traffic, signal, and lane configuration analysis
- Utility and stormwater design
- Land surveying
- Public engagement
- Multi-agency coordination
- Iowa DOT coordination
- Franchise utility coordination

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