


COUNCIL COMMUNICATION

	Number:	24-486	Meeting:	December 9, 2024
	Agenda Item:	46	Roll Call:	24-1668
	Submitted by:	Jonathan A. Gano, P.E., Public Works Director, and Steven L. Naber, P.E., City Engineer		

AGENDA HEADING:

Hearing on 41st Street and Beaver Avenue Intersection Improvements: Resolution approving plans, specifications, form of contract documents, engineer's estimate, receive and file bids, and designating lowest responsible bidder as InRoads, LLC, Joseph J. Manatt, CEO, \$545,975.50.

SYNOPSIS:

This is a public hearing to allow for public input on the 41st Street and Beaver Avenue intersection improvements and take the necessary actions as required by Iowa Code to authorize a contract for construction of the proposed project. The project includes geometric intersection improvements at 41st Street and Beaver Avenue. These geometric improvements will eliminate the existing skewed intersection by realigning 41st Street to create a perpendicular intersection.

FISCAL IMPACT:

Amount: \$545,975.50 Construction Contract (\$680,000 City Engineer's Estimate)

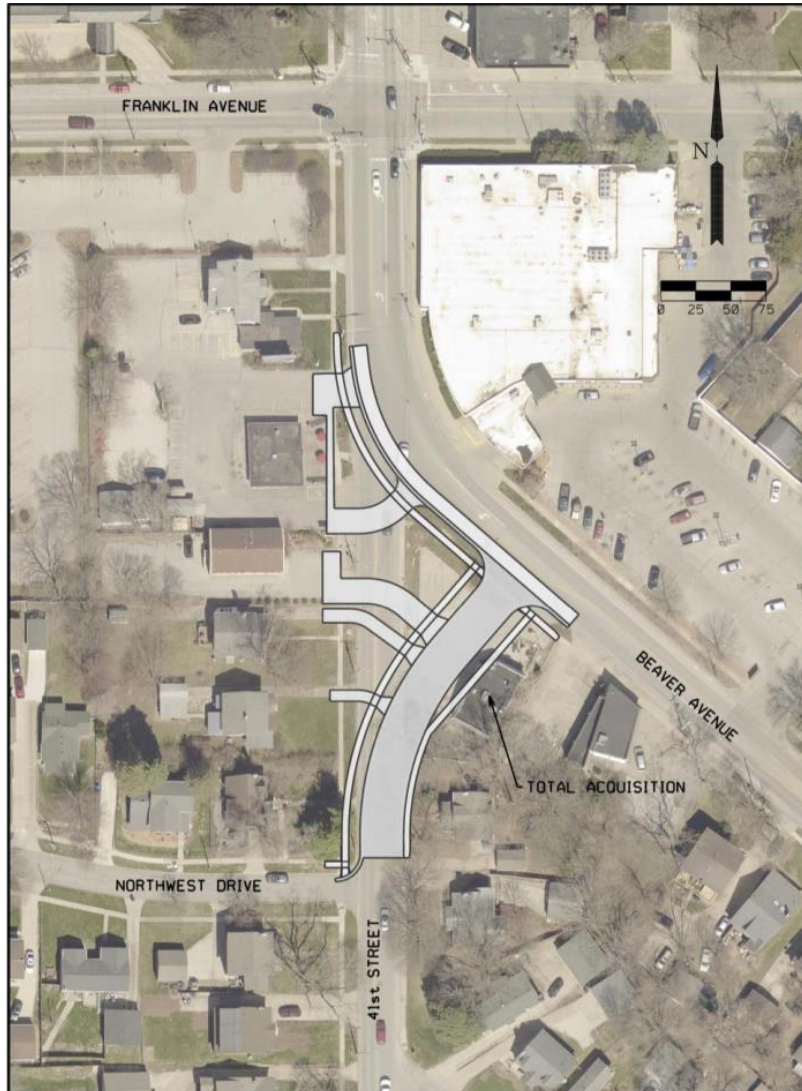
Funding Source: Fiscal Year (FY) 2024-2025 Capital Improvement Program (CIP), Page 125, 41st Street & Beaver Avenue, ST292, Being: \$450,000 (Max) in Iowa Department of Transportation (IDOT) Traffic Safety Improvement Funds under CS-TSF-1945(875)--85-77 and the remaining \$95,975.50 in G.O. Bonds

ADDITIONAL INFORMATION:

- On October 21, 2024, under Roll Call No. 24-1421, the City Council received and filed plans, specifications, form of contract documents, and City Engineer's estimate for the construction of the 41st Street and Beaver Avenue Intersection Improvements. Before the City Council can enter into a contract, it must hold a public hearing and approve the proposed plans, specifications, and form of contract documents and engineer's estimate for the construction of the 41st Street and Beaver Avenue Intersection Improvements, Activity ID 06-2023-003. The improvement includes Portland Cement Concrete (PCC) pavement, Hot Mix Asphalt (HMA) paving, PCC curb and gutter, pavement removals, earthwork, pavement markings, traffic control, erosion control, and surface restoration, all in accordance with the contract documents including Plan File No. 666- 001/044, located at 41st Street and Beaver Avenue.

- Sealed bids for said improvement were submitted by the following bidders:
 - InRoads, LLC, Des Moines, IA - Low Bid
 - TK Concrete, Inc., Pella, IA
 - Jasper Construction Services, Inc., Newton, IA
 - Grimes Asphalt and Paving Corporation, Des Moines, IA
 - Reilly Construction Co., Inc., Ossian, IA - Bid not read. Unit price missing on one (1) bid item.
- The bids were received and opened at a public meeting presided over by the City Engineer in the City Council Chambers, 2nd Floor, City Hall, 400 Robert D. Ray Drive, Des Moines, IA at 11:00 a.m. on November 5, 2024.
- The City Engineer has determined that the lowest responsive, responsible bid for the construction of said improvement was submitted by InRoads, LLC (Joseph J. Manatt, CEO, 4761 NE 20th Lane, Des Moines, IA 50313) in the amount of \$545,975.50, and said bid should be accepted. The Finance Director has determined that funds are available for said improvement as stated above.
- IDOT implemented an annual program beginning in 1988 to provide for statewide traffic safety improvements. These improvements may include roadway construction projects to correct high crash locations, upgrading of obsolete traffic control devices to comply with the requirements of the Manual on Uniform Traffic Control Devices, or traffic studies to determine how to correct a safety problem. Since the program began, Des Moines has been successful in securing funding, including several major intersection improvements, traffic signal upgrades, and other safety projects.
- The existing 41st Street and Beaver Avenue intersection's horizontal alignment is on a skew which has caused safety concerns from street users, including difficulty for pedestrians, bicyclists, and motorists in determining if southbound vehicles will be turning right (essentially continuing straight) on to 41st Street or continue traveling on Beaver Avenue by going around the curve to their left.
- IDOT determines the potential for crash reduction values for every intersection in Iowa, including county and city roads and streets as well as state routes. IDOT has ranked this intersection as having a "High" potential for crash reduction.
- A traffic study was completed in 2018 to determine how to improve sight distance and fix the skew of the intersection. According to the study, "many close calls were observed at this location of cars wanting to continue straight from 41st Street to northbound on Beaver Avenue. It was noted that cars were confused distinguishing which southbound vehicles were continuing south onto 41st Street and which vehicles were continuing on Beaver Avenue. Observations indicated many occurrences of abrupt braking to avoid potential crashes." In a 10-year period prior to October 2018 when the traffic study was completed, there were 21 crashes at this intersection resulting in injuries.
- To address the safety issues at this intersection, it is recommended to realign the intersection to a 90-degree T-intersection. The realignment of the intersection would provide additional northbound queueing storage at the Beaver Avenue and Franklin Avenue intersection. Southbound right turning traffic onto 41st Street would be slowed by the turning radius of the realigned intersection.

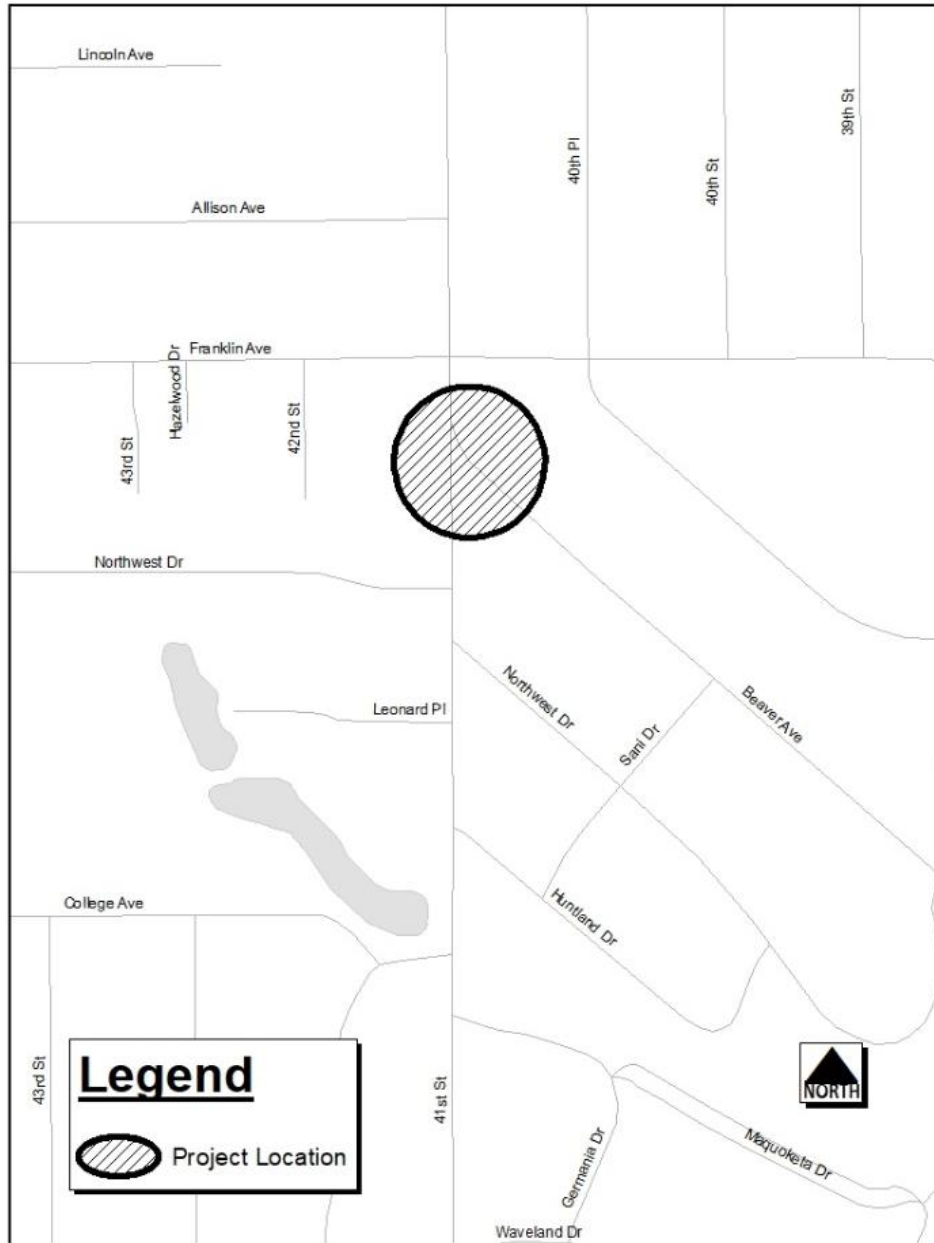
By defining the southbound turning path, more visual clues for gap decision are provided to northbound traffic on 41st Street. Additionally, the pedestrian crossing of 41st Street is reduced from approximately 50 feet to 30 feet. The proposed intersection alignment will limit the exposure for pedestrians and bicyclists on Beaver Avenue, as well as slow southbound traffic going from Beaver Avenue to 41st Street since this project will create a “right-turn” turning movement as opposed to the de facto “through” movement that exists today.



- On May 20, 2024, by Roll Call No. 24-0724, City Council approved the execution of the IDOT Agreement for the 41st Street and Beaver Avenue Intersection Improvements.
- On August 7, 2023, by Roll Call No. 23-1065, City Council approved the FY 2025 Traffic Safety Improvement Program (TSIP) Application to IDOT for the intersection of 41st Street and Beaver Avenue Intersection Improvements for \$500,000.
- On May 8, 2023, by Roll Call No. 23-0639 (Council Communication No. 23-229), City Council authorized City staff to proceed with acquisition of the necessary property interests for the 41st Street and Beaver Avenue Intersection Improvements Project. The total property interests needed for this project consists of one (1) total fee acquisition (1760 Beaver Avenue), one (1) permanent easement for implementation of a public pedestrian way, and seven (7) temporary construction

easements, all to be acquired from eight (8) separate property owners. City staff have completed the real estate acquisition process with all property owners, including relocation of the business at 1760 Beaver Avenue.

- Construction of this project is anticipated to be completed by late fall 2025.



PREVIOUS COUNCIL ACTION(S):

Date: October 21, 2024

Roll Call Number: [24-1421](#)

Action: Ordering construction of the following:

- (B) [41st Street and Beaver Avenue Intersection Improvements](#): Receiving of bids, (11-5-24) and Setting date of hearing, (12-9-24), Engineer's estimate, \$680,000. ([Council Communication No. 24-415](#)) Moved by Gatto to adopt. Second by Voss. Motion Carried 7-0.

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:

Partial payments to the contractor and final acceptance of work.

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