City of Hiawatha
Engineering Department
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To: Mayor and City Council **Date:** October 10, 2019

From: John C. Bender PE, City Engineer

Re: Tower Terrace Road Reconstruction Design Contract

Report:

City Council approved a contract back in April with Snyder and Associates as the design consultants for the environmental study/NEPA study /preliminary and final design of the City's approximately 2000 feet of Tower Terrace Road reconstruction. The contract was itemized into 5 sections. The first section is the base contract which included the completion of a traffic study utilizing the Interchange Justification Report (IJR) traffic count data. The study was to develop projected opening day traffic volumes for both AM and PM peak hour turning movements with the new Tower Terrace Interchange in operation. The second projected traffic forecast was to develop 2040, or design year traffic, projections for study as well.

Based on these results, the consultant prepared a recommendation as to which type of Center Point Road intersection would provide acceptable opening year and design year traffic operations. The final report is a summary of the consultant's findings. Although the roundabout alternative is approximately 8% more cost in initial construction, the life-cycle costs for transportation users of the 20 year analysis period, combined with the safety benefits which provide reduction in vehicle crashes and personal injury, the roundabout option is the recommended alternative.

We had a presentation by the consultant at the work session September 23 and a public open house the evening of Tuesday September 24. Approximately 25 citizens attended

the open house. There were no serious objections raised at either meeting when the findings of the report were presented by the consultant.

The contract has been developed with the option to design either an intersection, or a roundabout at Center Point Road. Based on all the input, we need Council to give formal direction as to the intersection type to be included in the design. This action will give Snyder authorization to move forward with the contract. Following is the latest schedule for the project:

• Preliminary Plans	October 2019
• Check Plans/ROW Documents	July 2020
• Final Plans	September 2020
• Contracts Turn-in	December 2020

Engineering recommends Council give Snyder authorization to move forward with the roundabout design option. If Council has any questions, please let me know.

9/19/2019
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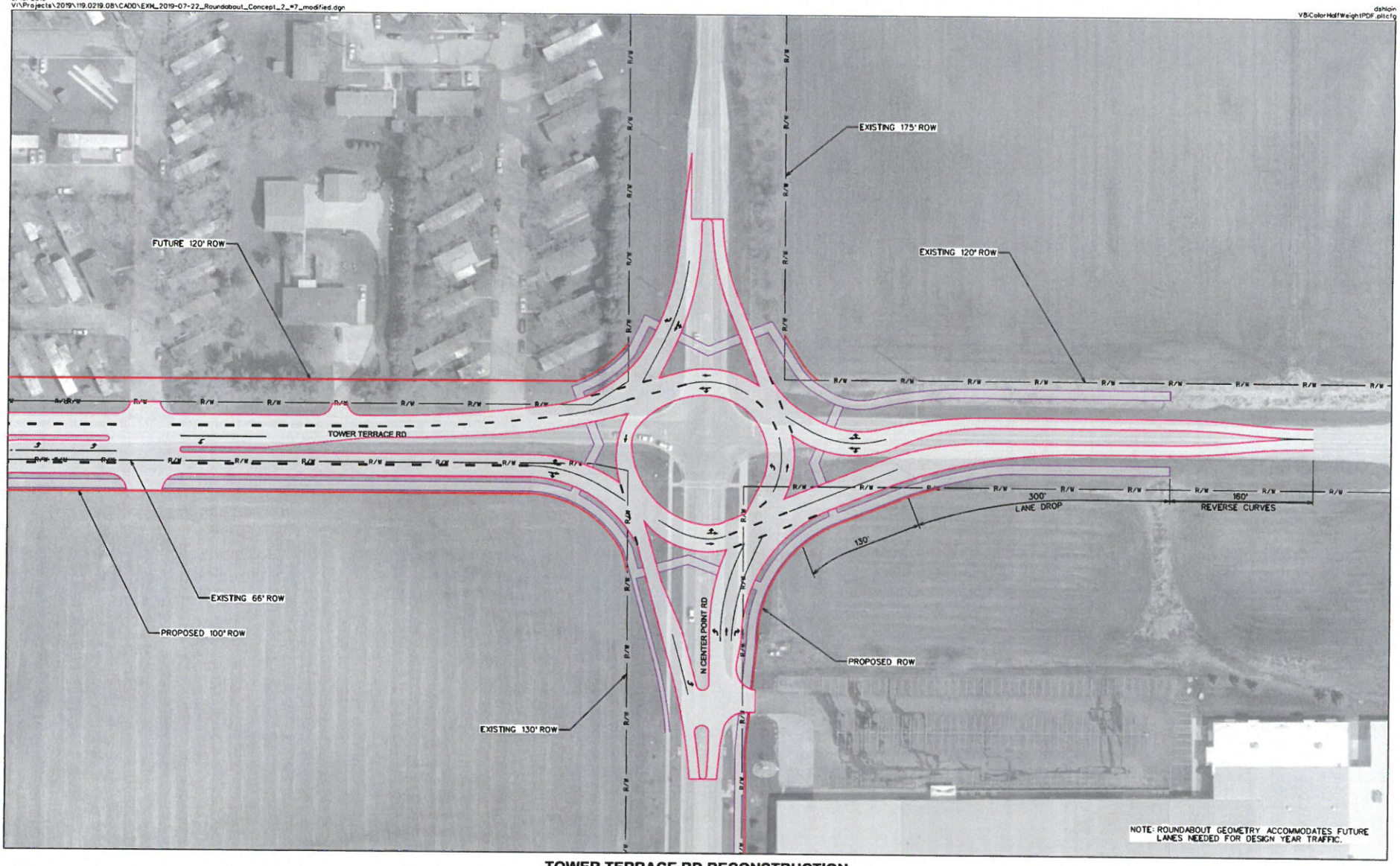

SNYDER & ASSOCIATES

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TOWER TERRACE RD RECONSTRUCTION
I-380 TO N CENTER POINT RD

Hiawatha, Iowa

EXHIBIT - 7 MODIFIED: ROUNDABOUT CONCEPT - OPENING YEAR

09/18/2019

DRAFT

RESOLUTION NO. 19-
City Council

RESOLUTION AUTHORIZING STAFF TO PROCEED WITH THE ROUNDABOUT DESIGN OPTION AT THE INTERSECTION IN CONNECTION WITH THE TOWER TERRACE ROAD RECONSTRUCTION PROJECT FROM I-380 TO NORTH CENTER POINT ROAD

WHEREAS, Council approved Resolution 19-073 approving a design contract with Snyder and Associates of Cedar Rapids for the environmental study/NEPA study/preliminary and final design of the City's approximately 2000 feet of Tower Terrace Road reconstruction on April 17, 2019, and

WHEREAS, the first phase of the design contract was to prepare a traffic study to develop projected opening day traffic volumes for both AM and PM peak hour turning movements with the new Tower Terrace Interchange in operation and the second projected traffic forecast was to develop 2040, or design year traffic, projections. Traffic simulation models were prepared for several scenarios to evaluate average delays, levels of service, and vehicle queuing, and

WHEREAS, based on these results, the consultant prepared a recommendation as to which type of Center Point Road intersection would provide acceptable opening year and design year traffic operations and, although it is approximately 8% more cost in initial construction, the roundabout option is the recommended alternative due to the life-cycle costs for transportation users of the 20-year analysis period and the safety benefits, and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF HIAWATHA, IOWA, authorizes staff to direct Snyder and Associates to proceed with the roundabout design option.

AYES:
NAYS:
ABSENT:

PASSED AND APPROVED this 16th day of October, 2019.

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Bill Bennett, Mayor

ATTEST:

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Kari Graber, City Clerk