City of Hiawatha
Engineering Department
101 Emmons St., Hiawatha Iowa, 52233-1697
PHONE (319) 393-1515 ext. 511 FAX (319) 393-1516

To: **Mayor and City Council** **Date: December 11, 2019**

From: John C Bender PE, City Engineer

Re: Metropolitan Planning Organization Applications

Description: **Funding Applications for:**

Tower Terrace Reconstruction I-380 to Center Point Road
Edgewood Road Trail Construction from Fitzroy Road to South City limits

Report:

Tower Terrace Road

We have submitted to the Metropolitan Planning Organization (MPO) applications for funding of the new Tower Terrace Interchange scheduled to start construction in FY21. The applications have been approved for a total of $4.0 million.

The intent is to receive SWAP funds for sections of Tower Terrace Road east of I-380 as well as the section west of the new interchange in Cedar Rapids. By using SWAP funds, our level of effort to complete the environmental, archeological, and historical reviews will be reduced along with a significant time savings. This appears to be the best option to move forward with the project in a timely fashion. However the DOT will not guarantee the amount of SWAP funds coming back to Hiawatha and Cedar Rapids. They are developing a Memorandum of Understanding that will provide for funding somewhere between $4.0 mil and $1.6 ml, depending on how the construction bids come in for the interchange. We have a meeting with the DOT and Cedar Rapids later this month to discuss the draft Memorandum of Agreement. At this time the level of funding is undetermined.

For that reason, we have determined the best approach is to request addition funding from the MPO in FY24 in the event less funds are available for the Tower Terrace Road edge projects. There is currently over $4.0 mil available for roadway projects so our intent is to try to secure additional funding to match the funding already allocated.

Attached is a copy of the application to the MPO at the required resolution of support needed for the application.

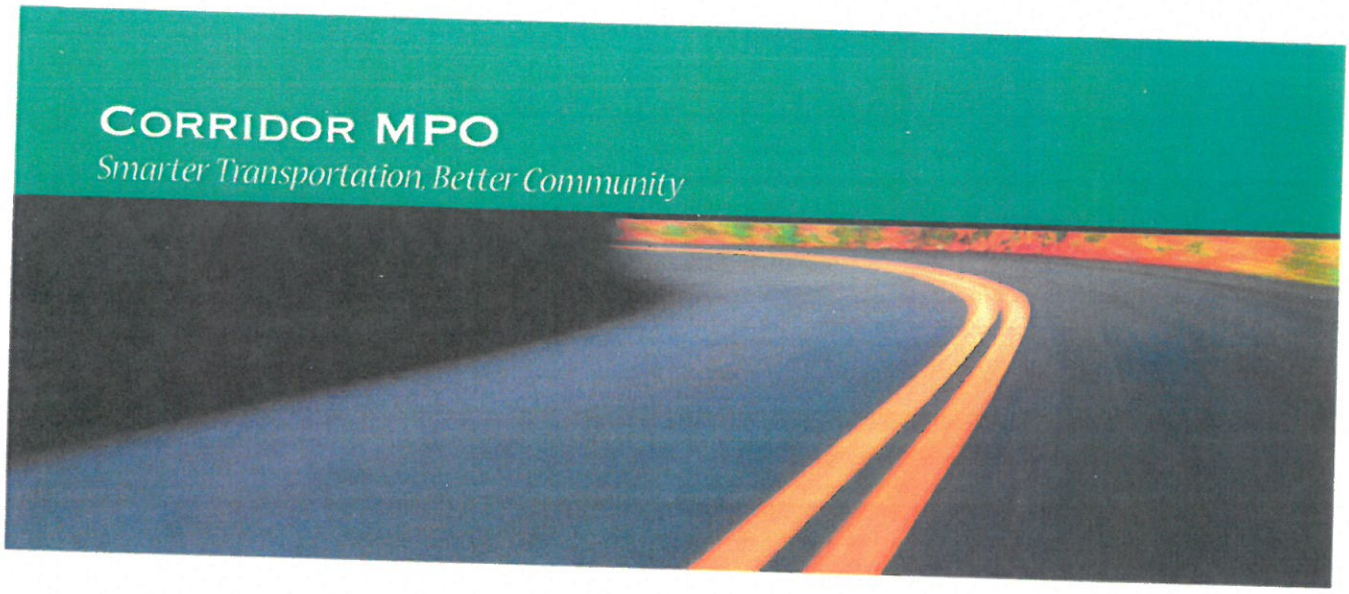
Edgewood Road Trail Project.

We have submitted to the Metropolitan Planning Organization (MPO) an application for funding of a Edgewood Road trail extension from basically the new proposed NW Park to the south city limits. This project will consist of a new 10 foot wide PCC trail along the east side of Edgewood Road from Fitzroy Road to the south city limit, or adjacent to the Andrews Christian Academy. The project will a ¼ mile spur along the south side of Fitzroy Road to the new proposed NW Area Park. When fully developed, this trail will connect to the planned Edgewood Road Trail across the entire metro area. This project is included in the newly approved CIP for the timeframe of FY24

Attached is a copy of the application to the MPO again for the FY24 funding year, along with the resolution of support for the application. We will be applying for the maximum 80% funding as the request goes through the MPO selection process.

Any question regarding these applications, please let us know.

Tower Terrace Road



Application for Surface Transportation Block Grant and Transportation Alternatives

Due Wednesday, December 11th, 2019 (no exceptions)

September 11th, 2019

CREATING SUSTAINABLE COMMUNITIES
THROUGH REGIONAL PLANNING & CIVIC ENGAGEMENT

CORRIDOR MPO

Purpose and Need

The purpose of this document is twofold. The first is to solicit requests from eligible member jurisdictions of the Corridor Metropolitan Planning Organization (MPO) for project funding. The second is to provide the information necessary for review by Corridor MPO Staff, Advisory Committees, the public, and for a funding decision by the Corridor MPO Policy Board. Projects that receive funding from the Corridor MPO will be listed in the Transportation Improvement Program (TIP).

The TIP is a four-year program of federally funded transportation projects in the metro area. The name is derived from the fiscal period that it covers. For example, the Federal Fiscal Year (FFY)12 – FFY15 TIP begins October of 2011 and ends September of 2015. The projects in the TIP can be divided into four basic categories:

- Locally decided projects (by the Corridor MPO)
- Grant/earmark recipient projects (state and federal)
- Transit funding requests to Iowa DOT
- Iowa DOT projects

The Corridor MPO receives three types of federal funding. Surface Transportation Block Grants (STBG) funds are the largest and can be used on road, bridge, transit, bicycle, and pedestrian projects. Transportation Alternatives Program (TAP) funds can only be used on non-motorized related projects. Lastly, TAP Flex funds can be used for road, bridge, transit, bicycle, and pedestrian projects. TAP flex funds for FFY24 will be used as STBG - TAP funding. In FFY24, the Corridor MPO expects to receive $5,089,000 in new STBG funds, $263,000 in new STBG - TAP funds, and $204,000 in new TAP Flex funds. All estimates of funding are tentative until May of 2020. **Based on the current funding policy, the amount of new and old funding for roads, trails, and transit is as follows:**

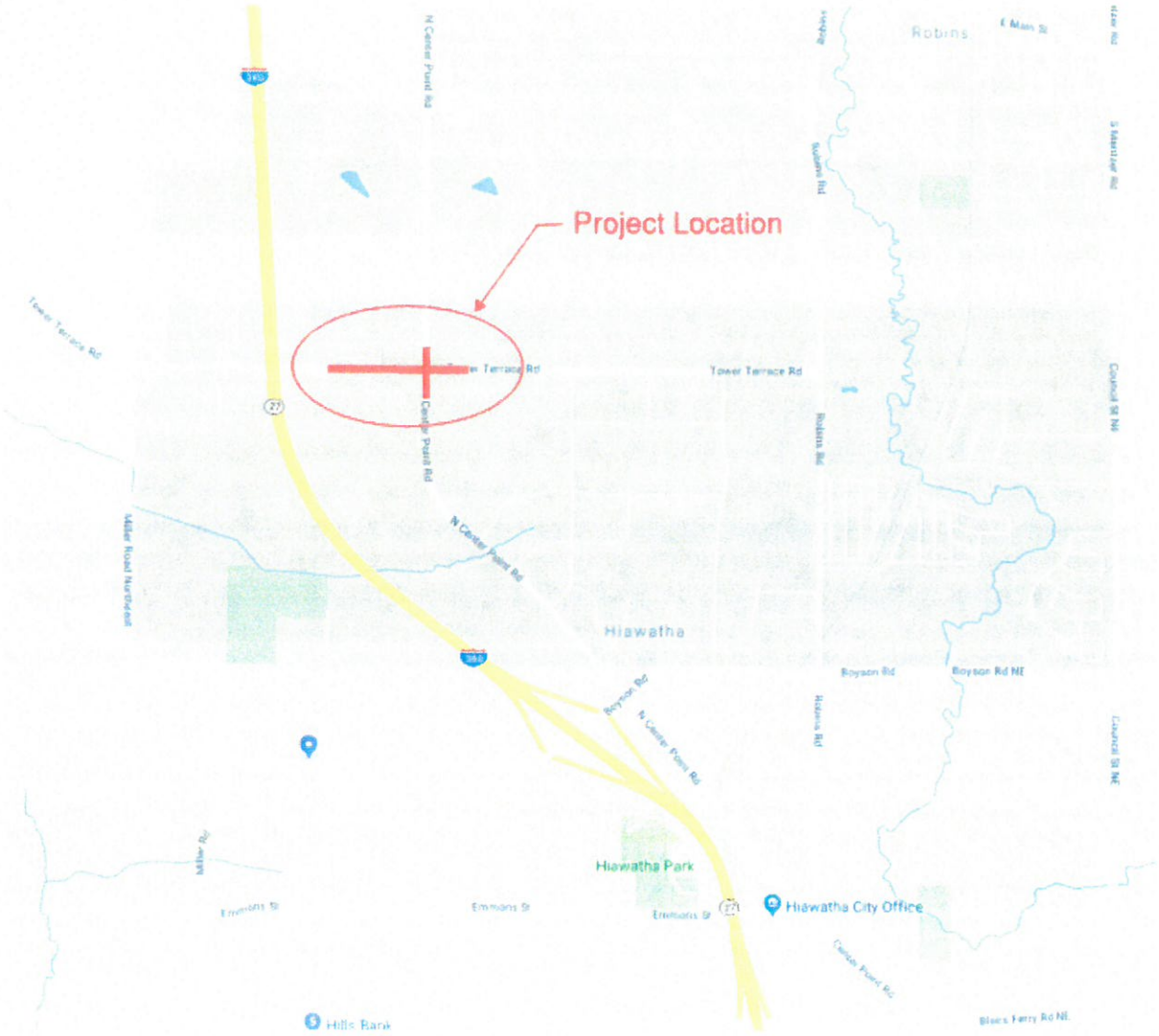
- **FFY21 - $184,000 available for roads; $472,000 available for trails; $73,000 available for transit**
- FFY22 - $0 available for roads; **$222,000 available for trails;** $0 available for transit
- **FFY23 - $213,000 available for roads; $127,000 available for trails; $85,000 available for transit**
- FFY24 - $2,776,000 available for roads; $1,665,000 available for trails; $1,110,000 available for transit
- **Total available for roads: $3,173,000; Total for trails: $2,486,000; Total for transit: $1,268,000**

➢ **Trail applicants please note** that per Iowa DOT rules you may use TAP funding in any of the available project years. This is made possible as the Iowa DOT, rather than the FHWA, now manages all STBG - TAP funds. **There are $464,000 in STBG - TAP funds in FFY24, $127,000 in FFY23, and $142,000 in FFY22 that may be used in <u>any</u> TIP year. There is a total of $733,000 in STBG – TAP that may be used in <u>any</u> year.**

TIP projects come from the fiscally constrained portion of the long-range transportation plan (Connections 2040); requests for funding are submitted annually by jurisdictions. The funding is an 80/20 (federal/local) reimbursement program that is available in October of the previous year it is programmed. October is the beginning of the federal fiscal year. For example, Project X is programmed in FFY15, which means its funds become available in October of 2014. **Please refer to Attachment C for the list of Fiscally Constrained Plan (FCP) projects.**

Per DOT STBG - TAP guidance, provided October 1st, 2017, all MPO funded projects that utilize STBG - TAP funds and have more than 50% MPO funding are eligible to receive up to 30% Statewide TAP funds (usually $1,000,000 per year) on a competitive basis. This 30% funding cannot be used to offset the local 20% matching funds. STBG - TAP projects must be located along a statewide byway or show a positive benefit for a local school. This is an effort from the Iowa Transportation Commission to encourage Safe Routes to School and Iowa Byways projects.

Location Map



① Excavate and backfill 2.0'

② Earth Shoulder Finishing

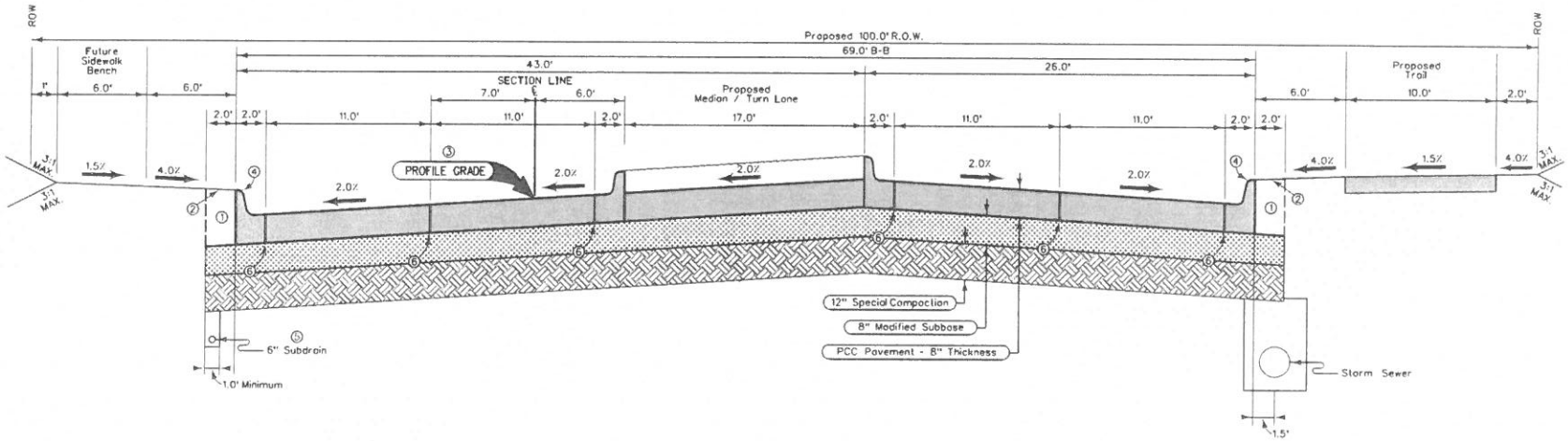
③ Refer to cross sections for additional information

④ 6" standard curb.

⑤ Omit subdrain where longitudinal storm sewer is installed along roadway.

⑥ KT-2 or L-2 joint

Notes:
Normal sections shown may be appropriately modified for areas specifically designated by the Engineer, such as intersections.



TYPICAL CROSS SECTION - TOWER TERRACE ROAD
4-LANE RECONSTRUCTION
PCC PAVEMENT WITH CURBS

ENGLISH		DESIGN TEAM	SNYDER & ASSOCIATES	LINN COUNTY	PROJECT NUMBER	119.0707.08	SHEET NUMBER	B.1

HMILLER 12/11/2019 V:\Projects\2019\119.0219.08\CADD\CD_1190219_B01.dgn V:\RefLibrary\CADDStandards\WorkSpace\Standards\Printing\Pen_Tables\date.tbl Default 1:200

8/2/2019
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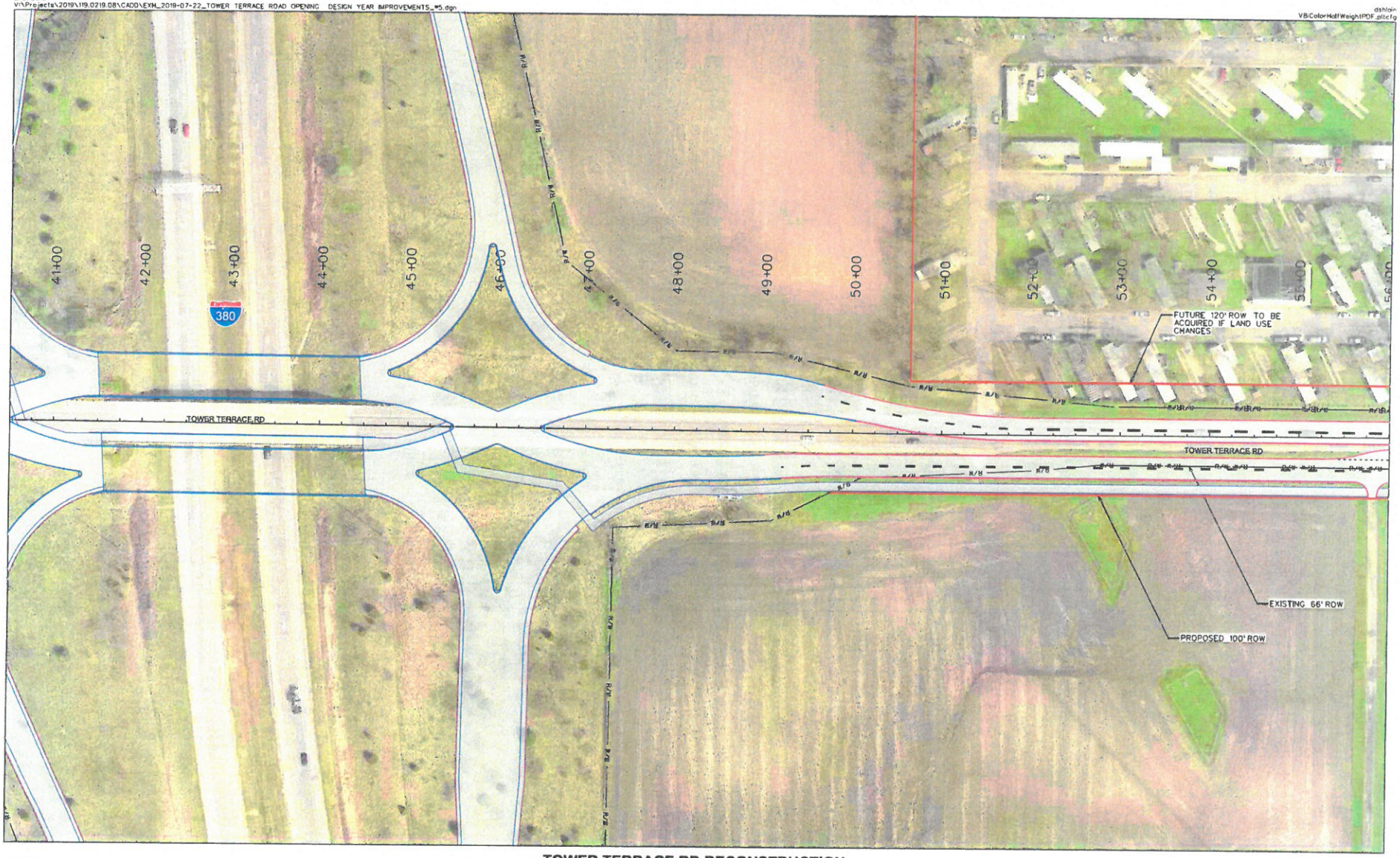

SNYDER & ASSOCIATES

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FEET

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

Hiawatha, Iowa

EXHIBIT - 5: TOWER TERRACE ROAD IMPROVEMENTS

08/02/2019

8/2/2019
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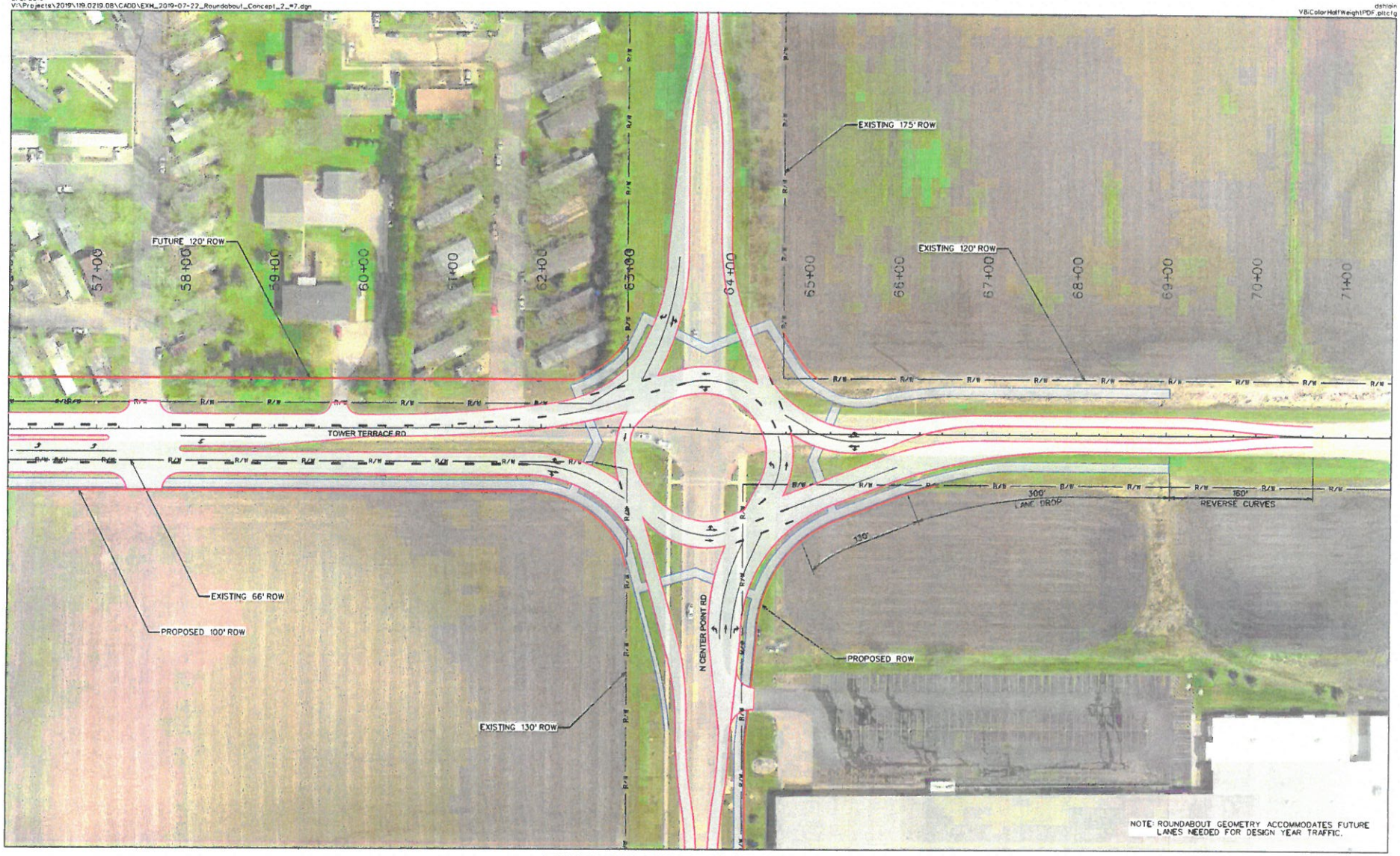

SNYDER & ASSOCIATES

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

Hiawatha, Iowa

EXHIBIT - 7: ROUNDABOUT CONCEPT - OPENING YEAR

08/02/2019

Attachment F

Opinion of Probable Cost
Tower Terrace Road Pavement Reconstruction
From I-380 to 700' East of North Center Point Road

No.	ITEM	QTY	UNIT	UNIT COST	ITEM TOTAL
1	Clearing & Grubbing	1	LS	$12,000	$12,000
2	Excavation	13,600	CY	$15	$204,000
3	Storm Sewer	3,670	LF	$100	$367,000
4	Intakes and Manholes	21	EA	$5,500	$115,500
5	Subdrain	5,970	LF	$15	$89,550
6	PCC Pavement	18,030	SY	$80	$1,442,400
7	Sidewalk/ Trail Pavement	2,820	SY	$55	$155,100
8	Pavement Removal	13,540	SY	$10	$135,400
9	Roundabout Lighting	1	LS	$68,000	$68,000
10	Traffic Control	1	LS	$60,000	$60,000
11	Seeding & Mulching	1	LS	$15,000	$15,000
12	Erosion Control	1	LS	$25,000	$25,000
13	Mobilization	1	LS	$150,000	$150,000
14	Pavement Markings	1	LS	$25,000	$25,000
	Construction Sub-Total				$2,863,950
	Contingency			20%	$572,790
	Construction Total				$3,436,740
	Design and Construction Engineering				$687,000
	Right-of-Way Acquisition				$71,000
	Inflation (5%/year for 4 years)				$904,000
	TOTAL OPINION				$5,099,000