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: January 9, 2020

From: John C Bender PE, City Engineer

Re: 2019 Center Point Road Resurfacing

Description: Traffic Signal Modifications at Blairs Ferry Road and Center Point Road

Report:

Hiawatha has contracted with Shive Hattery Engineers to prepare the plans and specifications for the 2019 Center Point Road Resurfacing project. This includes new semi-actuated traffic signals with the new signal layout utilizing the "2 signal pole" concept, with mast arms located on only northeast corner and the southwest corner of the intersection. This includes the replacement of intersection with new colored concrete and sidewalks that comply with the current ADA specifications. Also included is the milling and asphalt overlay of Center Point Road from Blairs Ferry Road to Clark Street.

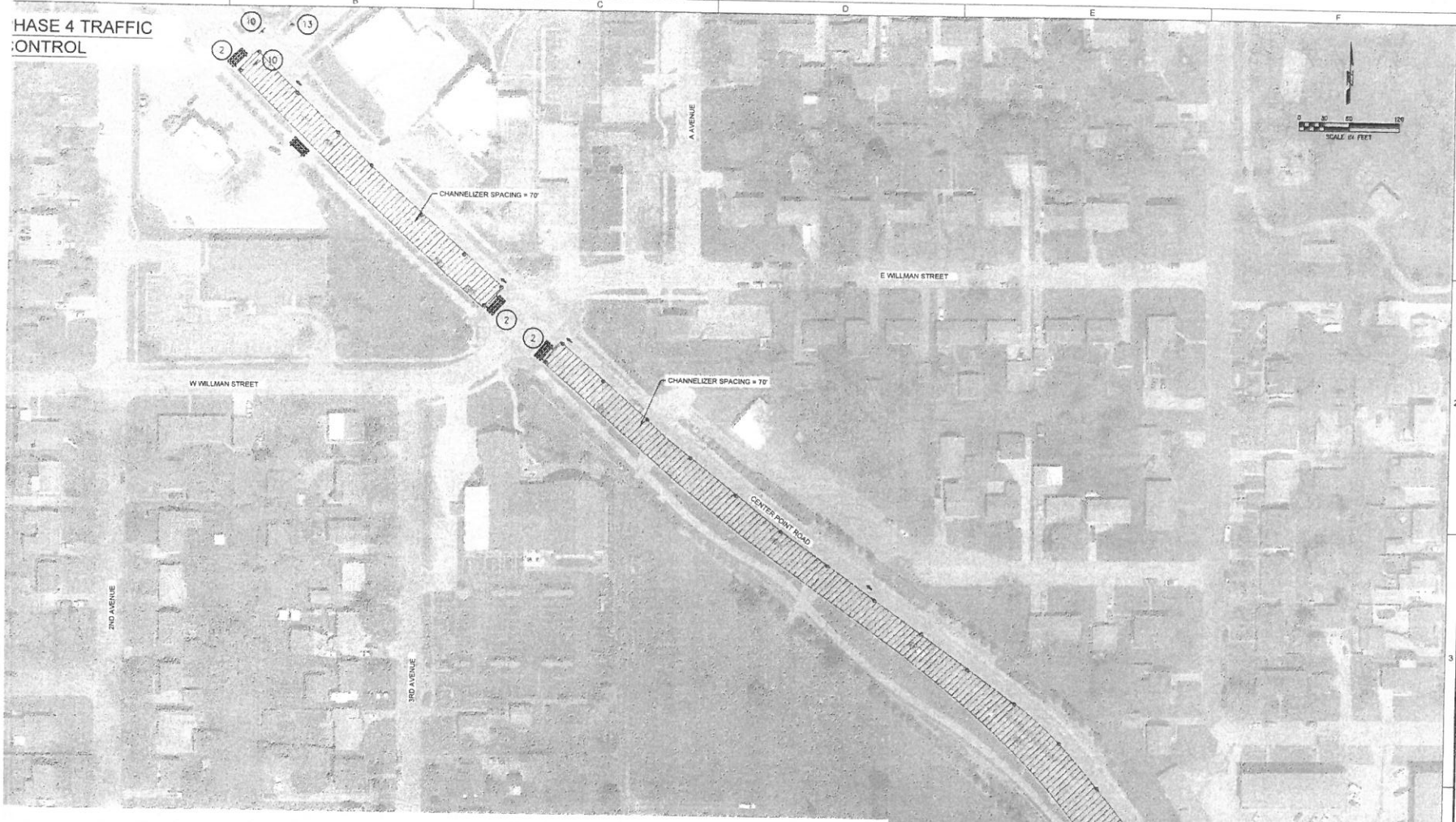
We plan to start the signal work this month. The asphalt wok will not be done until approximately a June timeframe. This process will eliminate the existing detector loops at Bairs Ferry Road. Therefore we are working with Cedar Rapids to install new video detection cameras at this intersection, one of only a few intersections that does not have this new technology.

Cedar Rapids will do all the work anticipated to cost $25,000 to $30,000. We have a 28e agreement with Cedar Rapids that we share the cost 50-50 on any work done on Blairs Ferry Road. Both agencies are responsible for their respective ownership.

Engineering recommends we give Cedar Rapids the authorization to proceed with the signal upgrade work on the Blairs Ferry Road/Center Point Road traffic signal for an estimated cost of not to exceed $15,000. These funds are included in the budget for road use tax dollars.

Engineering recommends approval. Any questions please let me know.

HASE 4 TRAFFIC CONTROL



LEGEND

● ●	42" CHANNELIZERS	→	DIRECTION OF TRAFFIC
×	DRUM		TYPE III BARICADE
	WORK AREA		ARROW BOARD
	TRAFFIC CONTROL SIGN	(3)	SIGN DETAIL NO. SEE SHEET J.01

PHASE 4

TRAFFIC CONTROL

- DETOUR ROUTE TRAFFIC CONTROL WILL BE INSTALLED FOR WORK BETWEEN EAST CLARK STREET AND BLAIRS FERRY ROAD NE.
- COMPLETE MILLING OF SOUTHBOUND LANE.
- NORTHBOUND LANES TO BE REDUCED TO ONE LANE; SOUTHBOUND TRAFFIC TO FOLLOW DETOUR.
- TWO-WAY, TWO LANE TRAFFIC TO REMAIN OUTSIDE OF WORKING ZONE.
- INTERSECTION OF EAST WILLIAM STREET AND NORTH CENTER POINT ROAD WILL REMAIN OPEN DURING PHASES 3 AND 4. CONTRACTOR CAN KEEP CLOSED PER TRAFFIC CONTROL SIGNAL PROJECT.
- SB LANES TO ONLY BE CLOSED BETWEEN THE HOURS OF 8PM AND 6AM.

CONSTRUCTION

- MILL EXISTING SURFACE AND INSTALL ASPHALT OVERLAY

SHIVEHATTERY
ARCHITECTURE + ENGINEERING
222 Third Avenue SE, Suite 300 | Cedar Rapids, Iowa 52406
319 364 0227 | www.shivehattery.com
Iowa | Illinois | Indiana

CENTER POINT ROAD IMPROVEMENTS
BLAIRS FERRY ROAD TO CLARK STREET
CITY OF HIAWATHA
LINN COUNTY, IOWA

TRAFFIC CONTROL

DRAWN EAV
APPROVED BH
ISSUED FOR CONSTRUCTION
DATE 06/30/2019
PROJECT NO. 2191660
FIELD BOOK —
CLIENT NO —

J.12

iteris®

Vantage Next®

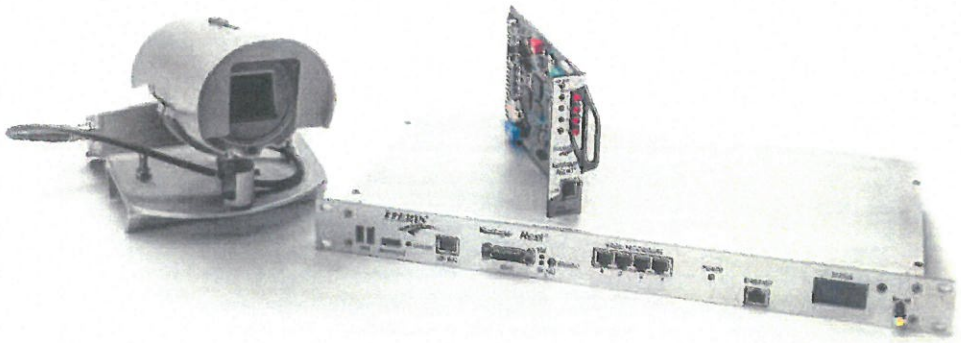
State-of-the-art video detection that delivers superior performance on a scalable platform

Benefits of the VantageNext system

Includes SmartCycle®
Bicycle differentiation provides special timing for cycling safety

Sends streaming video to the traffic management center

Captures traffic data including turning movement counts



State-of-the-art video detection system

Vantage Next® is Iteris' next generation video detection system that capitalizes on the latest technology. Vantage Next uses a powerful processor that enables future functional growth while maintaining proven Iteris video detection performance and reliability. The architecture supports expanding ITS applications and easily integrates with existing and future technologies.

Today's traffic engineers and planners need real-time data to ensure maximum efficiency and effectiveness of traffic management solutions. Vantage Next captures all the data necessary to allow the local traffic controller to manage the intersection remotely while delivering network-wide data back to the traffic management center.

Simple to install and set up

Vantage Next improves the lifecycle cost by simplifying the cabling between the camera and the traffic cabinet and within the cabinet itself. No special tools are required for installation. Exceptional vehicle detection through advanced algorithm design.

RESOLUTION NO. 20-
City Council

RESOLUTION AUTHORIZING STAFF TO PROCEED WORK WITH THE CITY OF CEDAR RAPIDS TO REPLACE AND UPGRADE DETECTION CONTROLS AT THE BLAIRS FERRY ROAD AND CENTER POINT ROAD INTERSECTION

WHEREAS, the City Council of the City of Hiawatha is working with the City of Cedar Rapids, Iowa, to upgrade the Blairs Ferry and Center Point Road Traffic Signal and make modifications, and

WHEREAS, the Cities of Cedar Rapids and Hiawatha share the roadway responsibilities. The City of Cedar Rapids will complete all the work to install new video detection cameras at the intersection of Blairs Ferry Road and Center Point Road with an anticipated cost of $30,000, and

WHEREAS, the City of Hiawatha's estimated shared cost of not to exceed $15,000 was previously budgeted in Road Use Tax dollars, and

NOW, THEREFORE BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF HIAWATHA, IOWA authorizing staff to proceed work with the City of Cedar Rapids to replace and upgrade video detection cameras at the Blairs Ferry Road and Center Point Road Intersection with the upgrade work for the City of Hiawatha's estimated cost of not to exceed $15,000.

AYES:
NAYS:
ABSENT:

PASSED AND APPROVED this 15th day of January, 2020.

_____
Bill Bennett, Mayor

ATTEST:

_____
Kari Graber, City Clerk