F5a

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: June 15, 2017**

From: **John C Bender PE, City Engineer**

Re: **2107 Boyson Road Capacity Improvements at I-380 and North Center Point Road**

Description: **Public Hearing for Plans, Specifications, Form of Contract, and Cost Estimate**

Report:

A.

Item "A" on the Council agenda is an item to hold a public hearing to approve the plans, specifications, form of contract, and estimate of cost for the bidding of the 2017 Boyson Road Capacity Improvement project July 13, 2017. The estimated cost of the widening and lane reconfiguration project is $62,422.90. This includes widening the existing street and the reconfiguration of the existing traffic lanes to allow for 2-through westbound traffic lanes from about 300 feet east of North Center Point Road across the I-380 overpass.

B

The new traffic signal equipment needed for the project will be purchased from the suppliers that use the same equipment we use for all our existing signals. We will need new controllers, radio equipment, conflict monitors, and switch gear. This is a good process to keep the equipment uniform for all our signals. Item "B" will allow us to take quotes for the equipment and bring the prices back to Council for approval. Our estimated cost of the equipment and installation is $40,000.

Engineering recommends approving item "A" for the plans, specifications, form of contract, and opinion of cost for the Boyson Road Capacity Improvement project and item "B" for requesting quotes for the signal equipment.

If you need any further information, please let me know.

DRAWINGS OF PROPOSED IMPROVEMENTS
FOR

BOYSON ROAD CAPACITY IMPROVEMENTS AT NORTH CENTER POINT ROAD AND I-380

IN THE CITY OF HIAWATHA, LINN COUNTY, IOWA

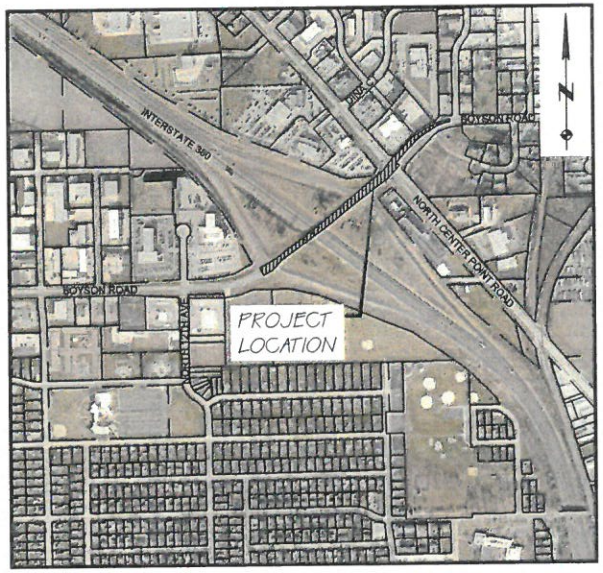
UTILITY AND EMERGENCY TELEPHONE NUMBERS

CITY OF HIAWATHA, IOWA

PUBLIC WORKS DEPARTMENT	(319)-393-1515
POLICE DEPARTMENT	(319)-393-1212
EMERGENCY	911
FIRE DEPARTMENT	(319)-393-4180
EMERGENCY	911
WATER DEPARTMENT	(319)-393-5556
SANITARY AND STORM SEWER DEPARTMENT	(319)-393-6601
CEDAR RAPIDS TRANSIT DEPARTMENT	(319)-286-5573
PARKS AND RECREATION	(319)-393-1515
IOWA ONE CALL (UTILITIES)	(800)-292-8989
MID-AMERICAN ENERGY	(319)-298-5162
CENTURY LINK (TELEPHONE)	
ENGINEER, WEST SIDE	(319)-399-7600
ENGINEER, EAST SIDE	(319)-399-7487
ALLIANT/I.E.S. INDUSTRIES (ELECTRIC, STEAM)	
INFORMATION	(319)-786-1908
MEDIACOM (CABLE TV)	
BUSINESS	(319)-395-9699 EXT 354
LOCATIONS	(800)-292-8989
WINDSTREAM (TELEPHONE / CABLE TV)	
BUSINESS	(319)-538-1985
LOCATIONS	(800)-292-8989
IMON (TELEPHONE / CABLE TV)	(319)-261-4640
SOUTHSLOPE (TELEPHONE / CABLE TV)	(319)-665-5312
IOWA NETWORK SERVICE	(319)-533-2319
ITC MIDWEST	(319)-297-6765
JOINT COMMUNICATIONS NETWORK	(319)-286-5491
LINN COUNTY REC	(319)-377-1587
CEDAR RAPIDS AND IOWA CITY RAILWAY COMPANY	(800)-283-1540
IOWA DEPARTMENT OF TRANSPORTATION	
DISTRICT ENGINEER	(319)-364-0235
MAINTENANCE GARAGES	(319)-364-8189
LINN COUNTY ENGINEER	(319)-892-6400
LINN COUNTY MAINTENANCE	(319)-892-6420

LOCATION MAP

(1" = 1000')



NOTE

THE PROPOSED IMPROVEMENTS INCLUDED IN THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE CEDAR RAPIDS METROPOLITAN AREA DESIGN STANDARDS MANUAL.

IOWA ONE CALL
CALL BEFORE YOU DIG!
1-800-292-8989
www.iowaonecall.com

SHEET INDEX

NO.	DESCRIPTION
A.01	COVER
A.02	LEGEND
B.01	TYPICAL CROSS SECTION
B.02-B.03	DETAILS
C.01	QUANTITIES AND ESTIMATE REFERENCES
C.02	GRADING AND EROSION CONTROL PLAN
C.03	REMOVAL PLAN
D.01	BOYSON ROAD PLAN AND PROFILE
J.01	TRAFFIC CONTROL AND STAGING PLAN
K.01 - K.03	PAVEMENT MARKINGS AND SIGNAGE
M.01	STORM SEWER PLAN
N.01	TRAFFIC SIGNAL LAYOUT

MAYOR:	BILL BENNETT
CITY CLERK:	KELLY KORNEGOR
CITY ADMINISTRATOR:	KIM DOWNS
COUNCIL PERSONS:	AIME WICHTENDAHL BOB RAMPULLA DENNY NORTON DICK OLSON MARTY BRUNS

CITY OF HIAWATHA

THIS ENGINEERING DOCUMENT IS RECOMMENDED FOR FILING WITH THE CITY CLERK

CITY ENGINEER DATE

LICENSED PROFESSIONAL ENGINEER MATTHEW G. JOHNSON 17666 IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signed: Date:

Matthew G. Johnson, P.E. 17666
My license renewal date is December 31, 2018

Pages or sheets covered by this seal:
A.01-A.02, B.01-B.03, C.01-C.03, D.01, J.01, K.01-K.03, M.01, N.01

CONTACT PERSON: MATT G. JOHNSON, P.E.
1860 BOYSON ROAD
HIAWATHA, IOWA 52233
PH: (319) 362-9548
FAX: (319) 362-7595

Hiawatha!

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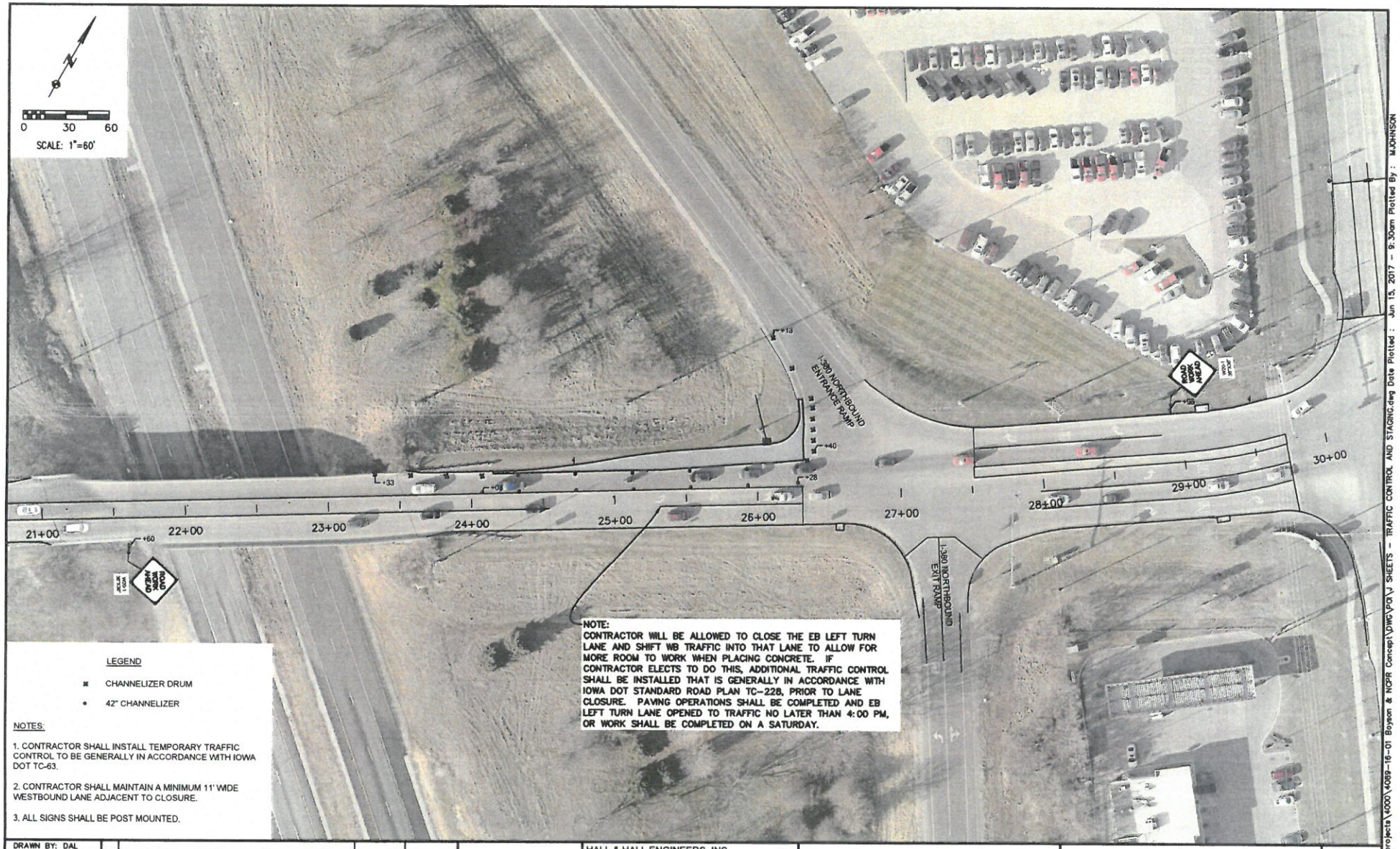

NOTE:
CONTRACTOR WILL BE ALLOWED TO CLOSE THE EB LEFT TURN LANE AND SHIFT WB TRAFFIC INTO THAT LANE TO ALLOW FOR MORE ROOM TO WORK WHEN PLACING CONCRETE. IF CONTRACTOR ELECTS TO DO THIS, ADDITIONAL TRAFFIC CONTROL SHALL BE INSTALLED THAT IS GENERALLY IN ACCORDANCE WITH IOWA DOT STANDARD ROAD PLAN TC-228, PRIOR TO LANE CLOSURE. PAVING OPERATIONS SHALL BE COMPLETED AND EB LEFT TURN LANE OPENED TO TRAFFIC NO LATER THAN 4:00 PM, OR WORK SHALL BE COMPLETED ON A SATURDAY.

LEGEND

- CHANNELIZER DRUM
- 42" CHANNELIZER

NOTES:

1. CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL TO BE GENERALLY IN ACCORDANCE WITH IOWA DOT TC-63.
2. CONTRACTOR SHALL MAINTAIN A MINIMUM 11' WIDE WESTBOUND LANE ADJACENT TO CLOSURE.
3. ALL SIGNS SHALL BE POST MOUNTED.

DRAWN BY: DAL				
CHECKED BY: MGJ				
APPROVED BY: MGJ				
DATE: 6/21/2017				
FIELD BOOK: ----	NO.	REVISION DESCRIPTION	APPROVED	DATE

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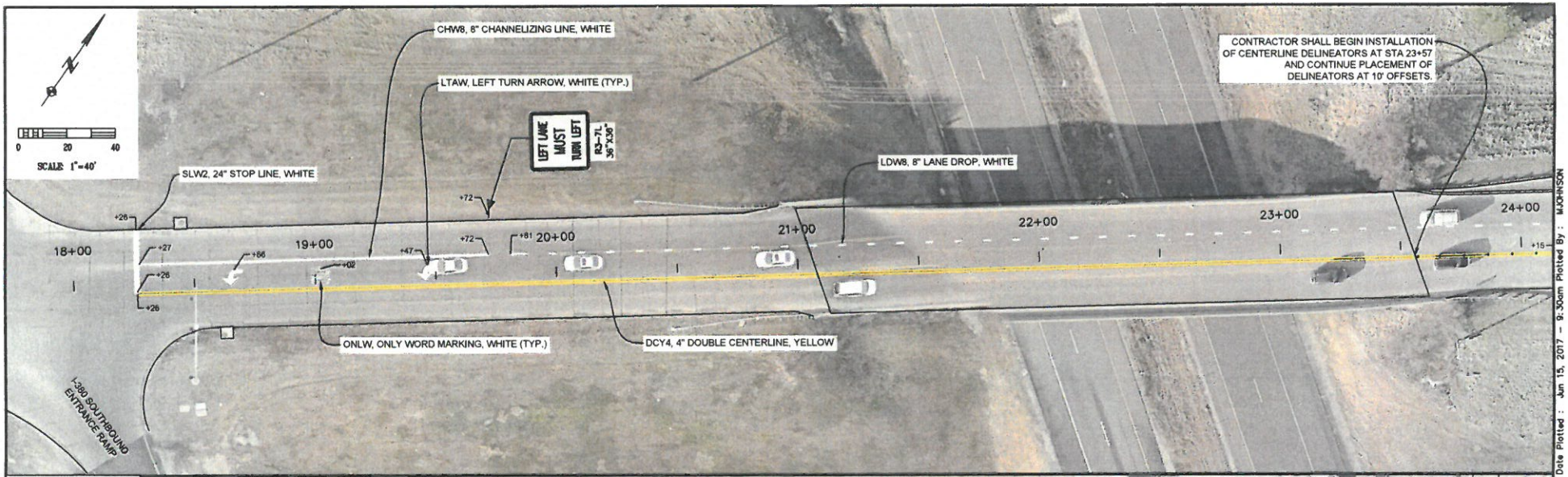
BOYSON ROAD CAPACITY IMPROVEMENTS
IN THE CITY OF HIAWATHA,
LINN COUNTY IOWA

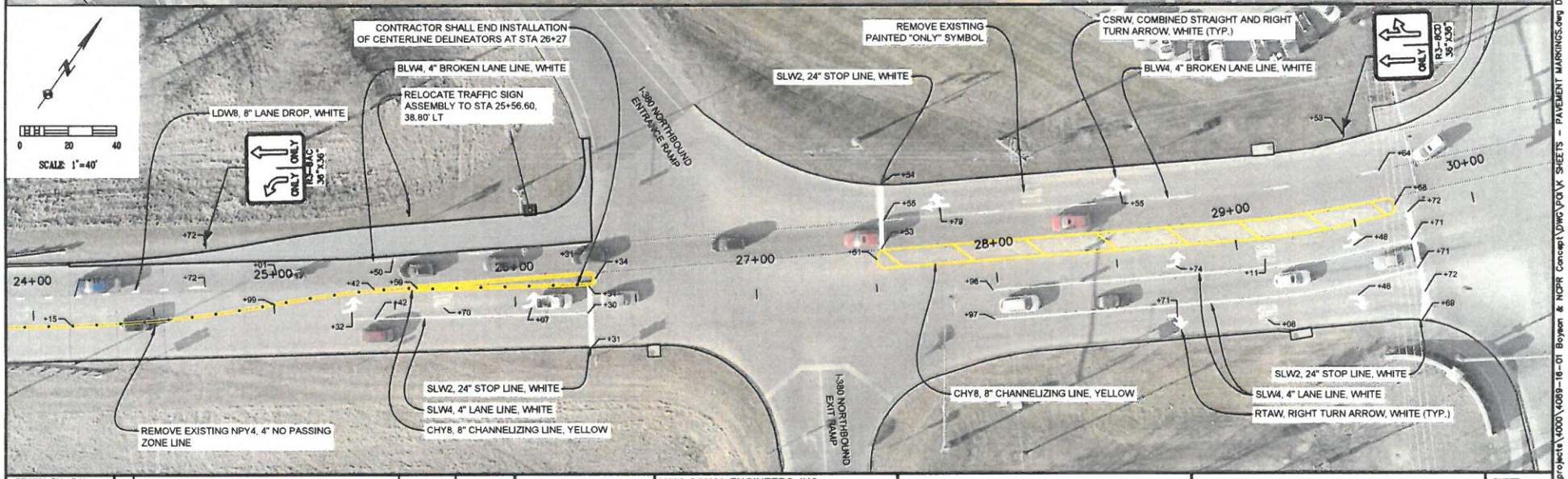
TRAFFIC CONTROL PLAN

SCALE: 1"=60'H 1"=10'V PROJECT NO: 4089-16-01

SHEET J.01

CAD File: I:\projects\4000\4089-16-01 Boyson & NCPR Concept\DWG\PCN\J SHEETS - TRAFFIC CONTROL AND STAGING.dwg Date Plotted : Jun 15, 2017 - 9:30am Plotted By : MJOHNSON





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BOYSON ROAD CAPACITY IMPROVEMENTS
IN THE CITY OF HIAWATHA,
LINN COUNTY IOWA

PAVEMENT MARKINGS AND SIGNAGE

SCALE: 1"=40' PROJECT NO: 4089-16-01

SHEET K.01

CAD File: I:\projects\4000\4089-16-01 Boyson & NCPR Concept\DWG\PGV\K SHEETS - PAVEMENT MARKINGS.dwg Date Plotted: Jun 15, 2017 - 9:30am Plotted By: MJOHNSON

CITY OF HIAWATHA
BOYSON ROAD CAPACITY IMPROVEMENTS
AT NORTH CENTER POINT ROAD AND I-380

ENGINEER'S ESTIMATE OF COST

ITEM NO.	ITEM CODE	BID ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITIES	UNIT PRICE	EXTENSION
1	01100-01	MOBILIZATION	LS	1	$5,500.00	$5,500.00
2	01200-01	TRAFFIC CONTROL	LS	1	$5,000.00	$5,000.00
3	01300-01	TEMPORARY EROSION AND SEDIMENT CONTROLS	LS	1	$2,750.00	$2,750.00
4	01300-10	SILT FENCE	LF	225	$3.00	$675.00
5	01400-10	REMOVAL OF EXISTING PAVEMENTS, DRIVEWAYS, CURB, AND GUTTER	SY	100	$14.25	$1,425.00
6	01400-40	REMOVAL OF STORM SEWER STRUCTURES	EA	1	$455.00	$455.00
7	01400-41	REMOVAL OF STORM SEWER AND CULVERT PIPE, 15" RCP	LF	6	$17.50	$105.00
8	01400-70	REMOVAL OF EXISTING PAVEMENT MARKINGS	LS	1	$2,500.00	$2,500.00
9	02000-01	UNCLASSIFIED EXCAVATION AND EMBANKMENT	CY	29	$22.50	$652.50
10	02000-02	STRIP AND RESPREAD TOPSOIL	CY	92	$12.50	$1,150.00
11	02000-30	BORROW	CY	156	$20.00	$3,120.00
12	02100-50	GRANULAR SUBBASE, 6"	SY	288	$8.50	$2,448.00
13	02400-10	SUBDRAIN, 6"	LF	191	$12.00	$2,292.00
14	02400-13	SUBDRAIN CLEANOUT	EA	1	$500.00	$500.00
15	02400-50	STORM SEWER INTAKES, SW-507	EA	1	$4,000.00	$4,000.00
16	02700-01	PORTLAND CEMENT CONCRETE PAVEMENT, NON-REINFORCED, 9"	SY	236	$90.00	$21,240.00
17	02850-01	PAVEMENT MARKINGS, PAINTED	LF	5476	$0.40	$2,190.40
18	02850-20	PAVEMENT SYMBOLS, PAINTED	EA	21	$80.00	$1,680.00
19	02850-99	CHANNELIZING POSTS, 36"	EA	28	$60.00	$1,680.00
20	02900-12	HYDROSEEDING WITH LIQUID MULCH BINDER	ACRE	0.2	$6,000.00	$1,200.00
21	02960-01	PERFORATED SQUARE STEEL TUBE POSTS, 2 1/4" X 2 1/4"	EA	4	$150.00	$600.00
22	02960-05	SIGNS, SHEET ALUMINUM, TYPE A	SF	37	$30.00	$1,110.00
23	02960-99	REMOVE AND RELOCATE EXISTING SIGN ASSEMBLY	EA	1	$150.00	$150.00
		TOTAL =				**$62,422.90**

DRAFT

RESOLUTION NO. 17-
City Council

RESOLUTION ADOPTING PLANS, SPECIFICATIONS, FORM OF CONTRACT AND ESTIMATE OF COST FOR THE 2017 BOYSON ROAD CAPACITY IMPROVEMENTS PROJECT AT NORTH CENTER POINT ROAD AND I-380

WHEREAS, plans specifications, form of contract and estimate of cost for the 2017 Boyson Road Capacity Improvements Project at North Center Point Road and I-380 were filed with the Clerk of Hiawatha, Iowa, and

WHEREAS, notice of hearing on plans, specifications, form of contract, and estimate of cost were published as required by law on June 14, 2017, and

WHEREAS, July 13, 2017 at 10:00 a.m. is the date and time set to file project bids with the Clerk of Hiawatha, Iowa. Bids shall be received and opened at a public meeting as provided in the public notice and the results of said bids shall be considered at the meeting of this City Council on July 19, 2017 at 5:30 p.m.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF HIAWATHA, IOWA, that said plans, specifications, form of contract and estimate of cost are hereby approved as the plans, specifications, form of contract and estimate of cost for said improvements for said project.

AYES:
NAYS:
ABSENT:

PASSED AND APPROVED this 21st day of June, 2017.

_____
Bill Bennett, Mayor

ATTEST:

_____
Kelly Kornegor, City Clerk