[CITY OF]
OTTUMWA

December 31, 2020

Jeff Thomann
DNR Field Office 6
1023 W. Madison
Washington, IA 52353

RE: Ottumwa, Iowa 2020 Annual Report- CSO Separation Projects

Dear Jeff,

The following is a condensed report on the progress the City of Ottumwa continues to make in its efforts to meet water quality standards.

Feel free to contact us with any questions regarding this report.

Sincerely,

Larry Seals

Larry Seals
Director of Public Works
City of Ottumwa
641-683-0680

Enclosures

Cc: Terry Kirschenman, Iowa DNR
John Crotty, Iowa DNR

2020 STORMWATER REPORT

Projects listed in the Administrative Consent Order

(See previous report for past projects)

PHASE 8, BLAKE'S BRANCH SEPARATION (Est. completion of Dec. 31, 2025)
The major item currently under way designated by the Long Term Control Plan is the Blakes Branch, Phase 8 Sewer Separation. See attached **Figure 1**. The preliminary cost estimate for all of Phase 8 is $40 million. Construction for Phase 8 has begun. The project has been divided into mulitiple phases for funding and constructability. Phase 8 Division I construction services has been awarded to Langman Construction. The design for Phase 8 Division 1A is currently under design and will extend the backbone to Fourth Street.

This work will be split into 4 to 6 major Divisions of construction as depicted on **Figure 2**. A subdivision (Division I-a) has been added to pick up an additional neighborhood under this current contract. An approximate timeline is shown below. We are working on funding options and constructability timelines for the remaining phases.

Division I Let	March	2020	Currently under construction	$12,750,000
Division I-A		2021	Under design	$ 2,000,000
Division II Design	July	21/22	Construction 22/23	
Division III Design	July	21/22	Construction 22/24	
Division IV Design	July	21/25	Construction 22/25	

Projects related to compliance but not individually listed in the Administrative Consent Order.

DOWNTOWN MAIN STREET RECONSTRUCTION (JEFFERSON TO COURT)
This project has been completed. In addition to installing new sanitary sewer and a separate storm system, this project is a streetscape project that includes BMP such as permeable paver, bioswales and tree plantings.

GREEN STREET STORM SEWER
This project is currently under a design contract with JEO and will finish the separation of both Main Street (Jefferson to Vine) project by the installation of a 42" trunk line between Main Street and the river along Green Street. Installation of this line will serve as a backbone and allows for future separation opportunities along the Green Street, Jefferson Street, and Collage Ave to Fourth and Fifth Street areas. (See figure 4)

OTTUMWA STREET RECONSTRUCTION
This project is a small residential reconstruction project that serves a new apartment complex, along with a small neighborhood of single family homes. This project includes removing three intakes from the sanitary sewer, and tying them into a previously installed

storm line that is connected to a separated system from our Phase 4 sewer separation project. The project include picking up a detention basin outfall.

MARION STREET RECONSTRUCTION

This is an upcoming reconstruction project that will include the installation of a new sanitary and storm line designed for future separation. The Design has been completed with a letting of January 2021 and construction completed end of 2021.

WOODLAND AVENUE RECONSTRUCTION

This is an upcoming reconstruction project that will include the installation of new sanitary sewer, as well as a new storm system. The design has been completed for a spring 2021 letting. This storm system will tie into the upper end of the Blake's Branch sewer and is designed to be picked up in Phase 8 Div. 3D. Construction should be completed by spring of 2022.

NINE MINIMUM CONTROLS

City crews continued its efforts to clean and maintain the sewer system. During 2020, the City cleaned 144,473 LF of sewers removing approximately 277 tons of material. In addition, 393 catch basins were cleaned removing approximately 41 tons of material. The street sweepers cleaned 7,039 lane miles collecting approximately 3,328 tons of material.

The City had 2 public side sewer back-ups. Public Works crews made 32 sewer spot repairs, repaired or replaced 19 manholes and repaired or replaced 27 catch basins.

CROSS COUNTRY SEWER EASEMENT CLEARING

The City has under taken City wide cross county sewer easement clearing. We are in our seventh year of clearing, and were able to get an additional **.02 miles cleared in 2020. In total, we have cleared 3.11** miles of cross country sewer. While completing this work, crews have raised buried manholes and added armor in exposed creek crossings. This allows for routine inspection and access for cleaning.

Elimination of Septic System

We had two residential homes and one commercial property eliminate septic tank systems and connect to our public sanitary sewer system.

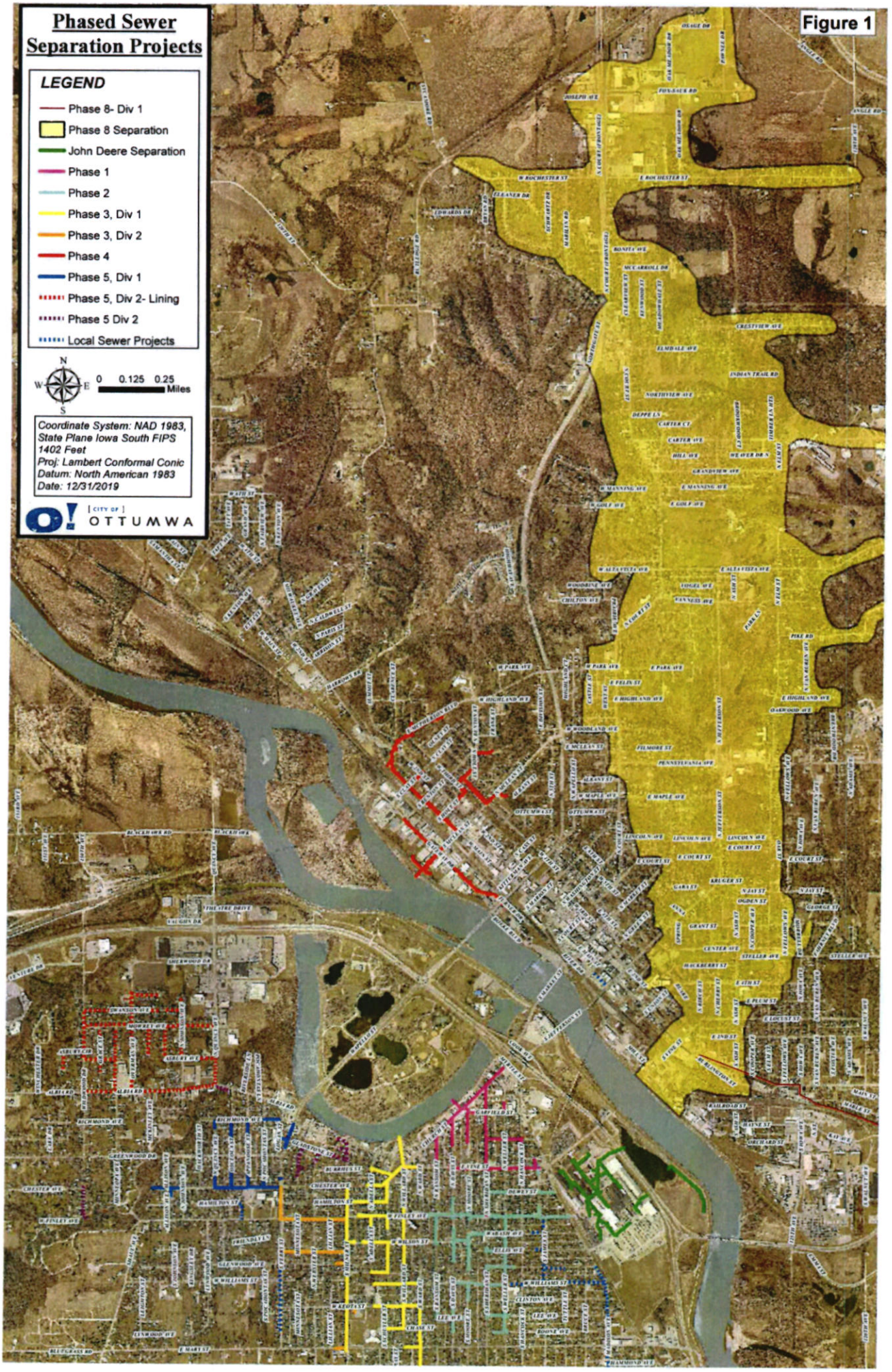
Figures referred to in this report and for general informational purposes:

Figure 1- Sewer Separation Map: This map offers an overview of the various phases of sewer separation that have taken place and that are planned, within the City of Ottumwa.

Figure 2- Phase 8 Divisions: This map offers an overview of the various divisions that the Phase 8 sewer separation project has been split into.

Figure 3- Phase 8 Estimated costs: This spreadsheet shows the quantities of sanitary and storm sewer installed during each separation project.

Figure 4 – Downtown Green Street Basin Area


Phased Sewer Separation Projects
LEGEND
Phase 8- Div 1
Phase 8 Separation
John Deere Separation
Phase 1
Phase 2
Phase 3, Div 1
Phase 3, Div 2
Phase 4
Phase 5, Div 1
Phase 5, Div 2- Lining
Phase 5 Div 2
Local Sewer Projects
N
W
E
S
0 0.125 0.25 Miles
Coordinate System: NAD 1983, State Plane Iowa South FIPS 1402 Feet
Proj: Lambert Conformal Conic
Datum: North American 1983
Date: 12/31/2019
[CITY OF] OTTUMWA
Figure 1

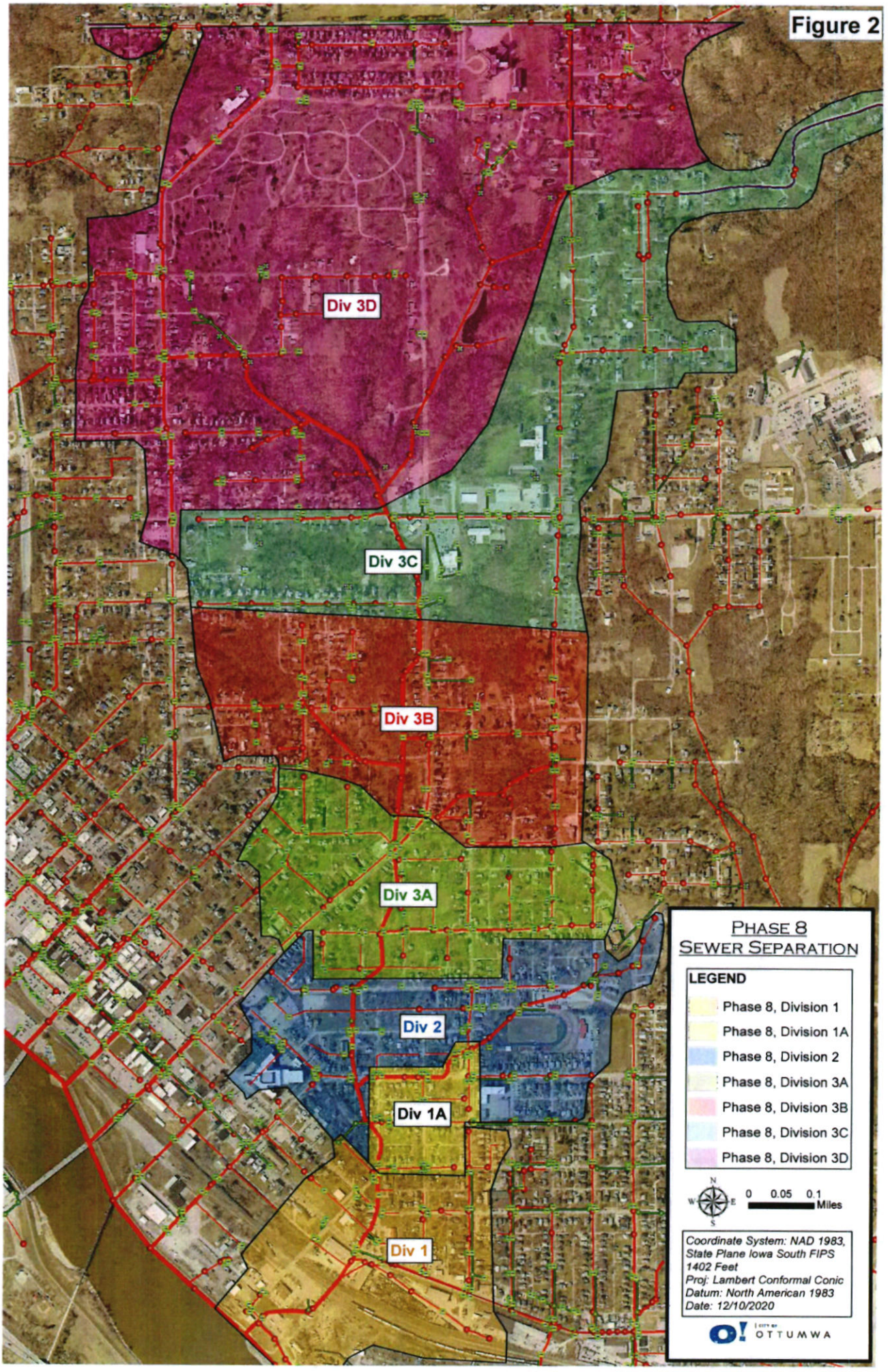


Figure 2
Div 3D
Div 3C
Div 3B
Div 3A
Div 2
Div 1A
Div 1
PHASE 8
SEWER SEPARATION
LEGEND
Phase 8, Division 1
Phase 8, Division 1A
Phase 8, Division 2
Phase 8, Division 3A
Phase 8, Division 3B
Phase 8, Division 3C
Phase 8, Division 3D
N
W
E
S
0 0.05 0.1
Miles
Coordinate System: NAD 1983, State Plane Iowa South FIPS 1402 Feet
Proj: Lambert Conformal Conic
Datum: North American 1983
Date: 12/10/2020
OTTUMWA

Updated: December 31, 2020

Figure 3

Sewer Project Quantities (Installed to Date)

New Installation

Project	Status	Cost (To Date)	Storm Sewers																											Sanitary Sewer												
			Intakes	MH	4"	6"	8"	10"	11"x18"	12"	15"	16"	18"	21"	24"	27"	29" x 18"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"	8'x6'	TOTAL L.F. ST	MH	4"	6"	8"	10"	12"	14"	15"	16"	18"	24"	30"	48"	84"	TOTAL L.F. SS
Williams/James	Final	$757,900.40	27	11						546	1588		472	58	13			332	1054										4063															0
Phase 1	Final	$8,109,560.30	86	31						430	2119		569		1805	131		2293	1787	24								2834	11992	45	66	1361	633	6150	932	305	418		25					9890
Phase 2, Division 1	Final	$4,217,844.50	104	39			28			606.8	2380.9		4160.8	270.5	1020.3	540.5		1154.5	1449	656		362.3	1872					322	14825.6	17		791	486	100.8	137.2	43.8	8.5	52	32.8				108	1760.1
Phase 2, Division 2	Final	$1,030,809.31	37	9						43.5	778.5	51.5	1132.5		324			979.3		686									3995.3	1		376.5			129.5	20	17	13	21.5					577.5
Phase 3, Division 1	Final	$6,461,792.46	195	45	42.5						3257.4		4098	1899.8	3323.8	1042		118.5	886	837	911	2868.5	1367	1019.5	619.8				22296.8	8	115	1906	448.3		119.8	51	39		38.3	19				2736.4
Phase 3, Division 2	Final	$1,242,433.52	22	6						13.5	900.7		275		304			1371											2864.2	13		435.5	282	25.5	37		41		2	100.4	1955			2878.4
Ferry Street	Final	$1,083,156.75	20								327		132		745	616		33											1853	0			332											332
Phase 5, Division 1	Final	$1,397,313.57	43	21							656		3897		310			1320.8											6183.8	2		609			30			26.5	80.5	160				906
Phase 8, Div 1	24%	$2,815,415.23	29	8							1019.4		364.6		415			343	36	30.4									2208.4	12			390.2		803.6		34		595.8					1823.6
Harrows Branch	Final	$535,503.07																											0	18	169.7		31	1310					3254.8					4765.5
Airport 1 & 1	Final	$439,551.40																											0	11														0
Hamilton St	Final	$127,485.34	5	6							238		69		334.5		51												692.5																0
Penn Ave, Ph 2	Final	$2,652,866.00	32	3							826		1152		382			432	48										2840	9	488		143	1403	1550		189							3773
Quincy Ave	Final	$1,302,243.67	5	2							200				259.5				301		549								1309.5	1														0
Phase 5, Division 2	Final	$4,176,968.96	37	12							367	1562	2091																4020	27		1404	544	5	976		528	911	119	172				4659
Ph 4, Con-1, Division-1	Final	$4,234,585.06	50	8							421		371.3		469	54.2		32	684.3	330	604		301		416.8	702.4	602		4988															0
Ph 4, Con-1, Division-2	Final	$1,790,823.10																											0	12		718.8			488	608.2					205.3	22.5		2042.8
Ph 4, Con-2, Division-1	Final	$6,983,026.42	7	7			27			12	127		45.5		73.8				525.4	78.5	68.5	16.3	569				554		2097	1		100											100
Ph 4, Con-4, Division-1	Final	$4,811,838.33	44	31							164.9		363.7		549.6				258		1527	137	456						3456.2	14		646	74	59	512				1132.5			40		2463.5
Iowa Ave	Final	$2,660,530.75	19	16					82		715.5		1106.43		200			25.4											2129.33	5		380.5		547.1	111.4				138.75	739				1916.75
Johnson Avenue	Final	$192,087.89	3	1							64																		64																0
Canteen Alley	Final	$611,850.50		2							379																		379	2		189.5	432											621.5
E Main Street	99%	$2,826,675.73	19	3							695				839			76											1610	5		216.5	316	393	30				168			54		1177.5
Jefferson Street	Final	$837,850.07	8								384				645														1029	5		384		67	21				592					1064
Main Street Streetscape	99%	$5,255,217.28	14	6		126				86.7	1108.7				56.4					499.8									1877.4	6		149.3	743.7											893
Milner Street	67%	$1,674,201.41	3								32																		32																0
Ottumwa Street	77%	$192,308.80	4								344																		344																0
E Alta Vista	Final	$620,223.37	6								158																		158																0
TOTALS		$69,041,943.19	819	267	42.5		27	28	82	1738.5	19251	1613.5	20299.83	2228.3	12068.9	2383.7	51	8510.5	7028.7	3141.7	3660	3384.1	4565	1019.5	1036.6	702.4	1156	3156	97300.03	214	838.7	9667.6	4855.2	10060.4	5877.5	1028	1274.5	1002.5	6200.95	1395.7	1978	94	108	44380.55

Rehabilitation (Sewer Lining)

Project	Status	Cost (To Date)	Sanitary Sewer																
			MH (VF)	MH	6"			8"		10"	12"	14"	15"	16"	18"	24"	30"	84"		TOTAL L.F. SS
Airport 1 & 1	Final	pd above		19				2818		4412					1992					9222
Phase 5, Div 2	Final	pd above	631	70				8964		3792	664		3821							17241
Phase 5, Div 3		$1,559,825.99	632.2	69				3860		7161	10828.85		4246.8		913.9	1245.1				28255.8
																				0
TOTALS		$1,559,825.99	1263.2	158	0			15642		15365	11492.85	0	8067.8	0	2905.9	1245.1	0	0		54718.8

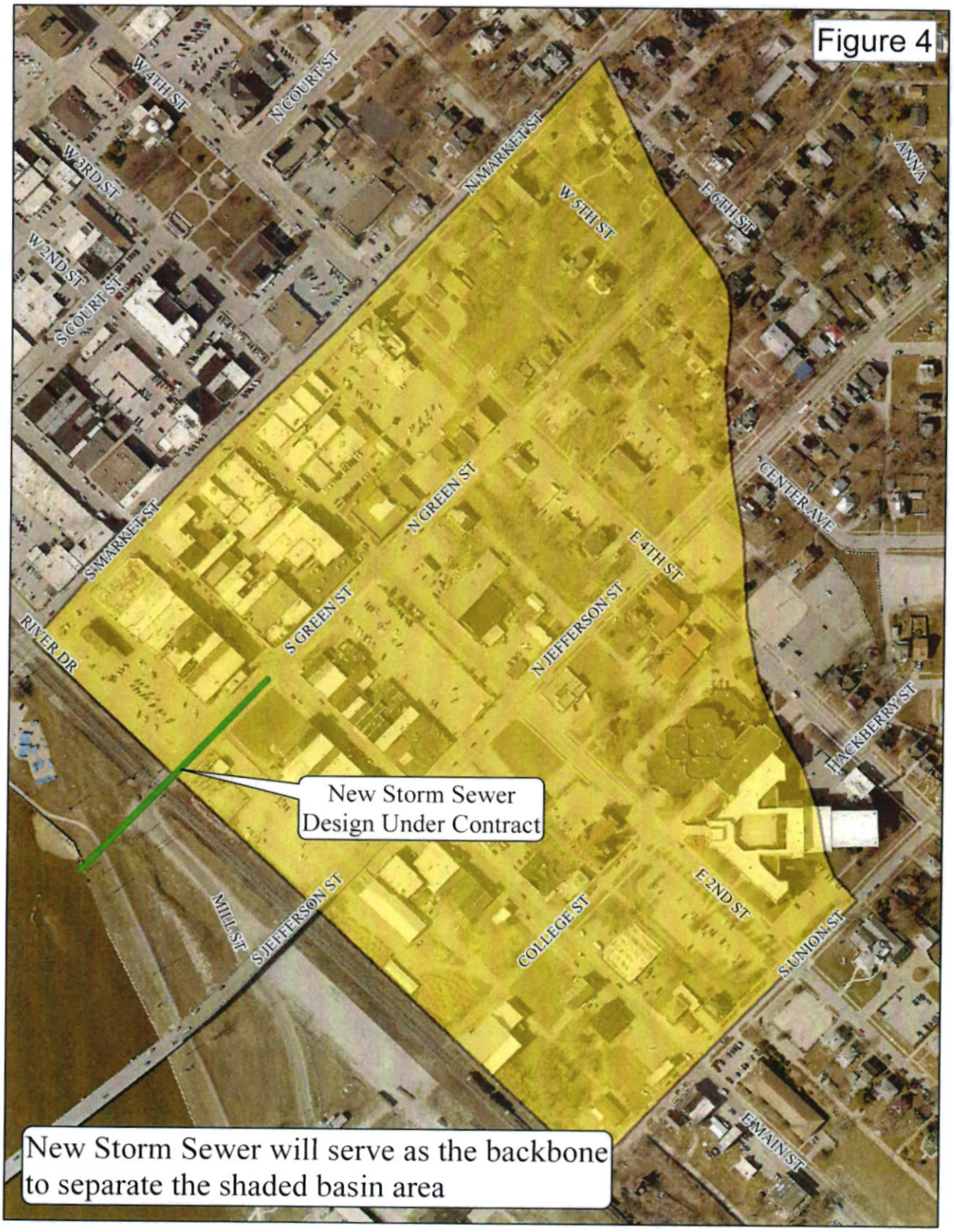


Figure 4
W 4TH ST
N COURT ST
W 3RD ST
N MARKET ST
W 5TH ST
E 6TH ST
ANNA
W 2ND ST
S COURT ST
CENTER AVE
S MARKET ST
N GREEN ST
E 4TH ST
S GREEN ST
N JEFFERSON ST
RIVER DR
HACKBERRY ST
New Storm Sewer
Design Under Contract
MILL ST
S JEFFERSON ST
COLLEGE ST
E 2ND ST
S UNION ST
E MAIN ST
New Storm Sewer will serve as the backbone
to separate the shaded basin area