

October 17, 2022

Agenda Item # 2b
2021 Annual Clearwater Sustainability Program Report to HOVMSD

Background

Member communities of the HOVMSD (Kaukauna, Kimberly, Little Chute, Combined Locks, and the Darboy Sanitary District) are required to file an annual Clearwater Sustainability Program report to the HOVMSD.

The City of Kaukauna's annual report is attached.

The intent of the annual report is to update the HOVMSD on the community's efforts toward maintaining a sustainable level of inflow and infiltration.

The governing body of each HOVMSD member community must review each year's annual report. A resolution stating that the governing body has reviewed and accepted the annual report is on the Common Council agenda tomorrow night.

Recommended Action

Accept and place on file the City of Kaukauna 2021 Annual Clearwater Sustainability Program Report to HOVMSD.

Clearwater Sustainability Program

2021 Annual Report to HOVMSD

October 17, 2022



Submitted By:
Jeffrey Bodoh
City of Kaukauna Engineering

Clearwater Sustainability Program 2021 Annual Report

CONTENTS

- 1) CMAR
- 2) WDNR Response
- 3) Construction and Non-Construction I&I Reduction Projects
- 4) Local Ordinance Changes
- 5) CMOM Updates and Changes

Section 1: 2021 CMAR

The City of Kaukauna submits a Compliance Maintenance Annual Report to Wisconsin DNR. Per Wisconsin DNR: Chapter NR 208, Wis. Adm. Code is more commonly known as the Compliance Maintenance Annual Report (CMAR) rule for publicly and privately owned domestic wastewater treatment works. The CMAR is a self-evaluation tool that promotes the owner's awareness and responsibility for wastewater collection and treatment needs, measures the performance of a wastewater treatment works during a calendar year, and assesses its level of compliance with permit requirements.

This report provides the following information to help:

- Describes the management and physical condition of the wastewater treatment works during the previous calendar year.
- Assesses system performance and wastewater maintenance activities.
- Evaluates compliance with WPDES permit requirements
- Provides an objective analysis to determine whether a more detailed evaluation of the wastewater facility is needed.
- Identifies proposed actions necessary to maintain regulatory compliance.

City of Kaukauna has achieved an overall grade of "A" in 2021, which requires no formal corrective actions. A Resolution acknowledging that the report is complete and reviewed is required and was adopted by the Common Council. Recommended collection system response and an overall comment/action items from the Council acknowledging the need to continue improvements to City sanitary sewer collection system was approved. A copy of the 2021 CMAR is attached to this section.

Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/17/2022 **2021**

Financial Management

<p>1. Provider of Financial Information</p> <p>Name: <input style="width: 300px;" type="text" value="William Van Rossum"/></p> <p>Telephone: <input style="width: 150px;" type="text" value="(920) 766-6312"/> (XXX) XXX-XXXX</p> <p>E-Mail Address (optional): <input style="width: 300px;" type="text" value="wvanrossum@kaukauna-wi.org"/></p>																	
<p>2. Treatment Works Operating Revenues</p> <p>2.1 Are User Charges or other revenues sufficient to cover O&M expenses for your wastewater treatment plant AND/OR collection system ?</p> <p>● Yes (0 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ No (40 points)</p> <p>If No, please explain: <input style="width: 750px; height: 20px;" type="text"/></p> <p>2.2 When was the User Charge System or other revenue source(s) last reviewed and/or revised? Year: <input style="width: 150px;" type="text" value="2021"/></p> <p>● 0-2 years ago (0 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ 3 or more years ago (20 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ N/A (private facility)</p> <p>2.3 Did you have a special account (e.g., CWFP required segregated Replacement Fund, etc.) or financial resources available for repairing or replacing equipment for your wastewater treatment plant and/or collection system?</p> <p>● Yes (0 points)</p> <p>○ No (40 points)</p>	0																
<p>REPLACEMENT FUNDS [PUBLIC MUNICIPAL FACILITIES SHALL COMPLETE QUESTION 3]</p>																	
<p>3. Equipment Replacement Funds</p> <p>3.1 When was the Equipment Replacement Fund last reviewed and/or revised? Year: <input style="width: 150px;" type="text" value="2021"/></p> <p>● 1-2 years ago (0 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ 3 or more years ago (20 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ N/A</p> <p>If N/A, please explain: <input style="width: 750px; height: 20px;" type="text"/></p>																	
<p>3.2 Equipment Replacement Fund Activity</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">3.2.1 Ending Balance Reported on Last Year's CMAR</td> <td style="width: 5%;"></td> <td style="width: 5%; text-align: right;">\$</td> <td style="width: 30%; text-align: right;"><input style="width: 150px;" type="text" value="5,661,171.00"/></td> </tr> <tr> <td>3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)</td> <td style="text-align: center;">-</td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 150px;" type="text" value="126,617.00"/></td> </tr> <tr> <td>3.2.3 Adjusted January 1st Beginning Balance</td> <td></td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 150px;" type="text" value="5,534,554.00"/></td> </tr> <tr> <td>3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)</td> <td style="text-align: center;">+</td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 150px;" type="text" value="3,141,848.00"/></td> </tr> </table>	3.2.1 Ending Balance Reported on Last Year's CMAR		\$	<input style="width: 150px;" type="text" value="5,661,171.00"/>	3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)	-	\$	<input style="width: 150px;" type="text" value="126,617.00"/>	3.2.3 Adjusted January 1st Beginning Balance		\$	<input style="width: 150px;" type="text" value="5,534,554.00"/>	3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)	+	\$	<input style="width: 150px;" type="text" value="3,141,848.00"/>	
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Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/17/2022 **2021**

3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below*) -

\$ 2,483,659.00

3.2.6 Ending Balance as of December 31st for CMAR Reporting Year

\$ 6,192,743.00

All Sources: This ending balance should include all Equipment Replacement Funds whether held in a bank account(s), certificate(s) of deposit, etc.

3.2.6.1 Indicate adjustments, equipment purchases, and/or major repairs from 3.2.5 above.

2021 Sanitary Sewer Utility Budget, shows 2020 expenses. Detailed ledger is available upon request.

3.3 What amount should be in your Replacement Fund? \$ 1.00

Please note: If you had a CFWP loan, this amount was originally based on the Financial Assistance Agreement (FAA) and should be regularly updated as needed. Further calculation instructions and an example can be found by clicking the SectionInstructions link under Info header in the left-side menu.

3.3.1 Is the December 31 Ending Balance in your Replacement Fund above, (#3.2.6) equal to, or greater than the amount that should be in it (#3.3)?

- Yes
- No

If No, please explain.

4. Future Planning

4.1 During the next ten years, will you be involved in formal planning for upgrading, rehabilitating, or new construction of your treatment facility or collection system?

- Yes - If Yes, please provide major project information, if not already listed below.
- No

Project #	Project Description	Estimated Cost	Approximate Construction Year
1	Grignon Park and Riverside Park Sanitary Sewer Relay	500000	2022
2	Kenneth Ave Area Phase 2 of 2	900000	2022
3	Manhole Lining/Repair Project	50000	2022
4	Reaume Ave Area	950000	2023
5	Presidential Streets Phase 1 of 2	700000	2025
6	Presidential Streets Phase 2 of 2	800000	2026
7	Lift Station Force Main Upgrades	200000	2023
8	River Street Sanitary Sewer and Easement CIPP	150000	2024
9	Thilmany Interceptor	90000	2024
10	CE Lift Station Interceptor to KHS	400000	2023

5. Financial Management General Comments

None.

ENERGY EFFICIENCY AND USE

6. Collection System

6.1 Energy Usage

6.1.1 Enter the monthly energy usage from the different energy sources:

COLLECTION SYSTEM PUMPAGE: Total Power Consumed

Number of Municipally Owned Pump/Lift Stations:

Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/17/2022 **2021**

	Electricity Consumed (kWh)	Natural Gas Consumed (therms)
January	9,725	
February	10,425	
March	9,379	
April	9,931	
May	9,939	
June	9,305	
July	10,432	
August	10,916	
September	11,145	
October	9,216	
November	9,398	
December	9,416	
Total	119,227	0
Average	9,936	0

6.1.2 Comments:

Total and average kWh were down in 2021. 2020 = 129,223 Total and 10,769 avg.

6.2 Energy Related Processes and Equipment

6.2.1 Indicate equipment and practices utilized at your pump/lift stations (Check all that apply):

- Comminution or Screening
- Extended Shaft Pumps
- Flow Metering and Recording
- Pneumatic Pumping
- SCADA System
- Self-Priming Pumps
- Submersible Pumps
- Variable Speed Drives
- Other:

6.2.2 Comments:

None.

6.3 Has an Energy Study been performed for your pump/lift stations?

- No
- Yes

Year:

By Whom:

Describe and Comment:

Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/17/2022 **2021**

6.4 Future Energy Related Equipment

6.4.1 What energy efficient equipment or practices do you have planned for the future for your pump/lift stations?

During the systematic upgrades to lift-stations, energy efficiency will be a determining factor for equipment choice. Pump selection for 10th Street Lift station included selection of an alternate pump model/style with increased efficiency.

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/17/2022 2021

Sanitary Sewer Collection Systems

1. Capacity, Management, Operation, and Maintenance (CMOM) Program

1.1 Do you have a CMOM program that is being implemented?

- Yes
- No

If No, explain:

1.2 Do you have a CMOM program that contains all the applicable components and items according to Wisc. Adm Code NR 210.23 (4)?

- Yes
- No (30 points)
- N/A

If No or N/A, explain:

1.3 Does your CMOM program contain the following components and items? (check the components and items that apply)

- Goals [NR 210.23 (4)(a)]

Describe the major goals you had for your collection system last year:

Specific 2021 Numerical Goals and Results are found in Appendix IV of City CMOM. A summary is attached.

Overall System Goals:

- 1) No sanitary sewer overflows
- 2) No basement back-ups due to lack of mainline maintenance
- 3) No infrastructure failure (street or sewer collapse) due to lack of maintenance
- 4) Maintain capacity for community and industrial growth within the City and HOVMSD interceptor
- 5) Review and update City Sewer Use Ordinance and maintain compliance with WIDNR and HOVMSD ordinances
- 6) Assist HOVMSD in implementation of a FOG control program.
- 7) Continue to identify and eliminate illegal sump pump discharges, cross connections, and other illicit connections.
- 8) Design and implement an on-going sewer condition evaluation program
- 9) Maintain an adequate budget to perform necessary maintenance of sewer system
- 10) Maintain and update records to ensure accurate and efficient data management

Did you accomplish them?

- Yes
- No

If No, explain:

Experienced 1 basement back-up in 2021 - related to system maintenance. We believe the change in maintenance schedule for this area will prevent future backups.

- Organization [NR 210.23 (4) (b)]

Does this chapter of your CMOM include:

- Organizational structure and positions (eg. organizational chart and position descriptions)
- Internal and external lines of communication responsibilities
- Person(s) responsible for reporting overflow events to the department and the public

- Legal Authority [NR 210.23 (4) (c)]

What is the legally binding document that regulates the use of your sewer system?

Municipal Ordinance - Sewer Use Ordinance

If you have a Sewer Use Ordinance or other similar document, when was it last reviewed and revised? (MM/DD/YYYY)

2021-12-07

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Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/17/2022 **2021**

Does your sewer use ordinance or other legally binding document address the following:

- Private property inflow and infiltration
- New sewer and building sewer design, construction, installation, testing and inspection
- Rehabilitated sewer and lift station installation, testing and inspection
- Sewage flows satellite system and large private users are monitored and controlled, as necessary
- Fat, oil and grease control
- Enforcement procedures for sewer use non-compliance
- Operation and Maintenance [NR 210.23 (4) (d)]

Does your operation and maintenance program and equipment include the following:

- Equipment and replacement part inventories
- Up-to-date sewer system map
- A management system (computer database and/or file system) for collection system information for O&M activities, investigation and rehabilitation
- A description of routine operation and maintenance activities (see question 2 below)
- Capacity assessment program
- Basement back assessment and correction
- Regular O&M training
- Design and Performance Provisions [NR 210.23 (4) (e)]

What standards and procedures are established for the design, construction, and inspection of the sewer collection system, including building sewers and interceptor sewers on private property?

- State Plumbing Code, DNR NR 110 Standards and/or local Municipal Code Requirements
- Construction, Inspection, and Testing
- Others:

0

- Overflow Emergency Response Plan [NR 210.23 (4) (f)]

Does your emergency response capability include:

- Responsible personnel communication procedures
- Response order, timing and clean-up
- Public notification protocols
- Training
- Emergency operation protocols and implementation procedures

- Annual Self-Auditing of your CMOM Program [NR 210.23 (5)]

Special Studies Last Year (check only those that apply):

- Infiltration/Inflow (I/I) Analysis
- Sewer System Evaluation Survey (SSES)
- Sewer Evaluation and Capacity Management Plan (SECAP)
- Lift Station Evaluation Report
- Others:

2. Operation and Maintenance

2.1 Did your sanitary sewer collection system maintenance program include the following maintenance activities? Complete all that apply and indicate the amount maintained.

Cleaning	18	% of system/year
Root removal	0	% of system/year
Flow monitoring	100	% of system/year
Smoke testing	0	% of system/year

Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/17/2022 **2021**

Sewer line televising	<input type="text" value="5.6"/>	% of system/year
Manhole inspections	<input type="text" value="20"/>	% of system/year
Lift station O&M	<input type="text" value="54"/>	# per L.S./year
Manhole rehabilitation	<input type="text" value="2.1"/>	% of manholes rehabbed
Mainline rehabilitation	<input type="text" value="1.4"/>	% of sewer lines rehabbed
Private sewer inspections	<input type="text" value="1"/>	% of system/year
Private sewer I/I removal	<input type="text" value="1"/>	% of private services
River or water crossings	<input type="text" value="100"/>	% of pipe crossings evaluated or maintained
Please include additional comments about your sanitary sewer collection system below:		
<input type="text"/>		

3. Performance Indicators

3.1 Provide the following collection system and flow information for the past year.

<input type="text" value="34.45"/>	Total actual amount of precipitation last year in inches
<input type="text" value="31.08"/>	Annual average precipitation (for your location)
<input type="text" value="85"/>	Miles of sanitary sewer
<input type="text" value="7"/>	Number of lift stations
<input type="text" value="0"/>	Number of lift station failures
<input type="text" value="0"/>	Number of sewer pipe failures
<input type="text" value="2"/>	Number of basement backup occurrences
<input type="text" value="30"/>	Number of complaints
<input type="text" value="2.69"/>	Average daily flow in MGD (if available)
<input type="text" value="4.82"/>	Peak monthly flow in MGD (if available)
<input type="text" value="20.22"/>	Peak hourly flow in MGD (if available)

3.2 Performance ratios for the past year:

<input type="text" value="0.00"/>	Lift station failures (failures/year)
<input type="text" value="0.00"/>	Sewer pipe failures (pipe failures/sewer mile/yr)
<input type="text" value="0.00"/>	Sanitary sewer overflows (number/sewer mile/yr)
<input type="text" value="0.02"/>	Basement backups (number/sewer mile)
<input type="text" value="0.35"/>	Complaints (number/sewer mile)
<input type="text" value="1.8"/>	Peaking factor ratio (Peak Monthly:Annual Daily Avg)
<input type="text" value="7.5"/>	Peaking factor ratio (Peak Hourly:Annual Daily Avg)

4. Overflows

Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/17/2022 **2021**

LIST OF SANITARY SEWER (SSO) AND TREATMENT FACILITY (TFO) OVERFLOWS REPORTED **

Date	Location	Cause	Estimated Volume
None reported			

** If there were any SSOs or TFOs that are not listed above, please contact the DNR and stop work on this section until corrected.

5. Infiltration / Inflow (I/I)

5.1 Was infiltration/inflow (I/I) significant in your community last year?

- Yes
- No

If Yes, please describe:

I&I could be detected at meter stations, specifically after rain events and changes in river level.

5.2 Has infiltration/inflow and resultant high flows affected performance or created problems in your collection system, lift stations, or treatment plant at any time in the past year?

- Yes
- No

If Yes, please describe:

5.3 Explain any infiltration/inflow (I/I) changes this year from previous years:

Approximately 6,500 feet of deteriorated clay, concrete, and truss main and approximately 109 service laterals were replaced or rehabilitated as part of City rehabilitation projects in 2021. In addition, some temporary manhole improvements were made in the river to reduce inflow.

5.4 What is being done to address infiltration/inflow in your collection system?

The City is systematically replacing the collection system, including main and laterals to the home. Televising and flow monitoring continue to identify priority areas for rehabilitation. Clearwater inspections are performed on a 10 year cycle in all homes and businesses; and also at time reconstruction projects in each neighborhood. Mini-Storm and Storm sewer lateral installations, along with mandatory sump pump connections have also helped decrease I&I cross connections. Additional work on river manholes is scheduled for 2022.

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/17/2022 2021

Grading Summary

WPDES No: 0047341

SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Financial	A	4	1	4
Collection	A	4	3	12
TOTALS			4	16
GRADE POINT AVERAGE (GPA) = 4.00				

Notes:

- A = Voluntary Range (Response Optional)
- B = Voluntary Range (Response Optional)
- C = Recommendation Range (Response Required)
- D = Action Range (Response Required)
- F = Action Range (Response Required)

Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/17/2022 2021

Resolution or Owner's Statement

Name of Governing Body or Owner:	<input type="text" value="City of Kaukauna Common Council"/>
Date of Resolution or Action Taken:	<input type="text" value="2022-06-21"/>
Resolution Number:	<input type="text"/>
Date of Submittal:	<input type="text"/>
ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO SPECIFIC CMAR SECTIONS (Optional for grade A or B. Required for grade C, D, or F):	
Financial Management: Grade = A	<input type="text" value="None."/>
Collection Systems: Grade = A (Regardless of grade, response required for Collection Systems if SSOs were reported)	<input type="text" value="None."/>
ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO THE OVERALL GRADE POINT AVERAGE AND ANY GENERAL COMMENTS (Optional for G.P.A. greater than or equal to 3.00, required for G.P.A. less than 3.00) G.P.A. = 4.00	
<input type="text" value="Continue systematic inspection, rehabilitation, and replacement of sanitary sewer collection system to maintain zero sanitary sewer overflows and assure capacity of the system for future growth."/>	

Section 2: WDNR Response to CMAR

The WDNR's response to the CMAR was to continue systematic inspection, and replacement of sanitary sewer collection system to maintain zero sanitary sewer overflows and ensure capacity of the system for future growth.

Compliance Maintenance Annual Report

Kaukauna Sewage Collection System

Last Updated: Reporting For:
6/30/2022 2021

DNR Response to Resolution or Owner's Statement

Name of Governing
Body or Owner:

City of Kaukauna Common Council

Date of Resolution or
Action Taken:

2022-06-21

Resolution Number:

2022-5347

Date of Submittal:

6/30/2022

ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO SPECIFIC CMAR SECTIONS (Optional for grade A or B. Required for grade C, D, or F):

Financial Management: Grade = A

Permittee Response:

None.

DNR Response:

Collection Systems: Grade = A

(Regardless of grade, response required for Collection Systems if SSOs were reported)

Permittee Response:

None.

DNR Response:

ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO THE OVERALL GRADE POINT AVERAGE AND ANY GENERAL COMMENTS

(Optional for G.P.A. greater than or equal to 3.00, required for G.P.A. less than 3.00)

G.P.A. = 4

Permittee Response:

Continue systematic inspection, rehabilitation, and replacement of sanitary sewer collection system to maintain zero sanitary sewer overflows and assure capacity of the system for future growth.

DNR G.P.A. Response:

DNR CMAR Overall Response:

Thank you for submitting the 2021 CMAR on time. The Department is appreciative of all of your efforts to implement your CMOM with energy efficiency in mind.

DNR Reviewer: Oumarou, Barti

Phone: (920) 424-4013

Address: 625 E County Road Y, Suite 700, Oshkosh, WI 54901

Date: 8/11/2022

Section 3: Construction and Non-Construction I&I Reduction Projects

2021 Construction Projects

Project 1-21 Concrete Street Paving

This project incorporated the installation of 19 internal manhole chimney seals in newly paved areas, including Alyssa Street, Mera Lane, Mase Street, Welhouse Drive, Butterclay Court and the Ducharme Street.

There were also 3 storm sewer laterals installed as part of the paving project.

Project 2-21 9th Street Area Utility Relay

This project included a sanitary sewer main and lateral relay on Brill Road, Ninth Street, Eden Avenue, Kenneth Avenue, Hendricks Avenue, Ducharme Street, and Sullivan Street as well as replacement of sewer in adjacent easements. Approximately 40 lineal feet of 12" sanitary sewer, 292 lineal feet of 10" sanitary sewer, 4,195 lineal feet of 8" sanitary sewer, 5,729 lineal feet of private lateral pipe (101 homes) and 150 vertical feet of sanitary manholes replaced the existing deteriorated clay pipe sanitary sewer system. A map of the project area is attached to this section.

Outagamie County Paving

During the Outagamie County paving of 10th Street and State Street the City installed 17 chimney seals.

2021 Non-Construction Projects

On-going Clearwater (Illicit Cross Connection) Inspections

In addition to inspection of private laterals by City staff in reconstruction project limits, the City contracts with Kaukauna Utilities (KU) to perform Clearwater inspections while they are in a property for Cross Connection Control and Backflow Prevention inspections.

In 2021, the City inspected 42 homes and businesses for illicit connections; we found and issued orders repairs for 5 violations. Violations included a variety of issues including, non-compliant private sewer lateral and sump to floor drain connections.

Sewer Cleaning and Inspections

The majority of sewer main cleaning in 2021 was between the Fox River and C.T.H. "CE" east of the Konkapot Creek, shown in red. CCTV inspections include annual televising contract in various areas (see CCTV map), post televising for the sewer rehab areas and some miscellaneous lines that were suspect of having issues. 25,239 lineal feet of sewer main and 109 laterals were televised in 2021. See maps at the end of this section.

1-21 CONCRETE STREET PAVING

Project Area

NEW CONSTRUCTION:

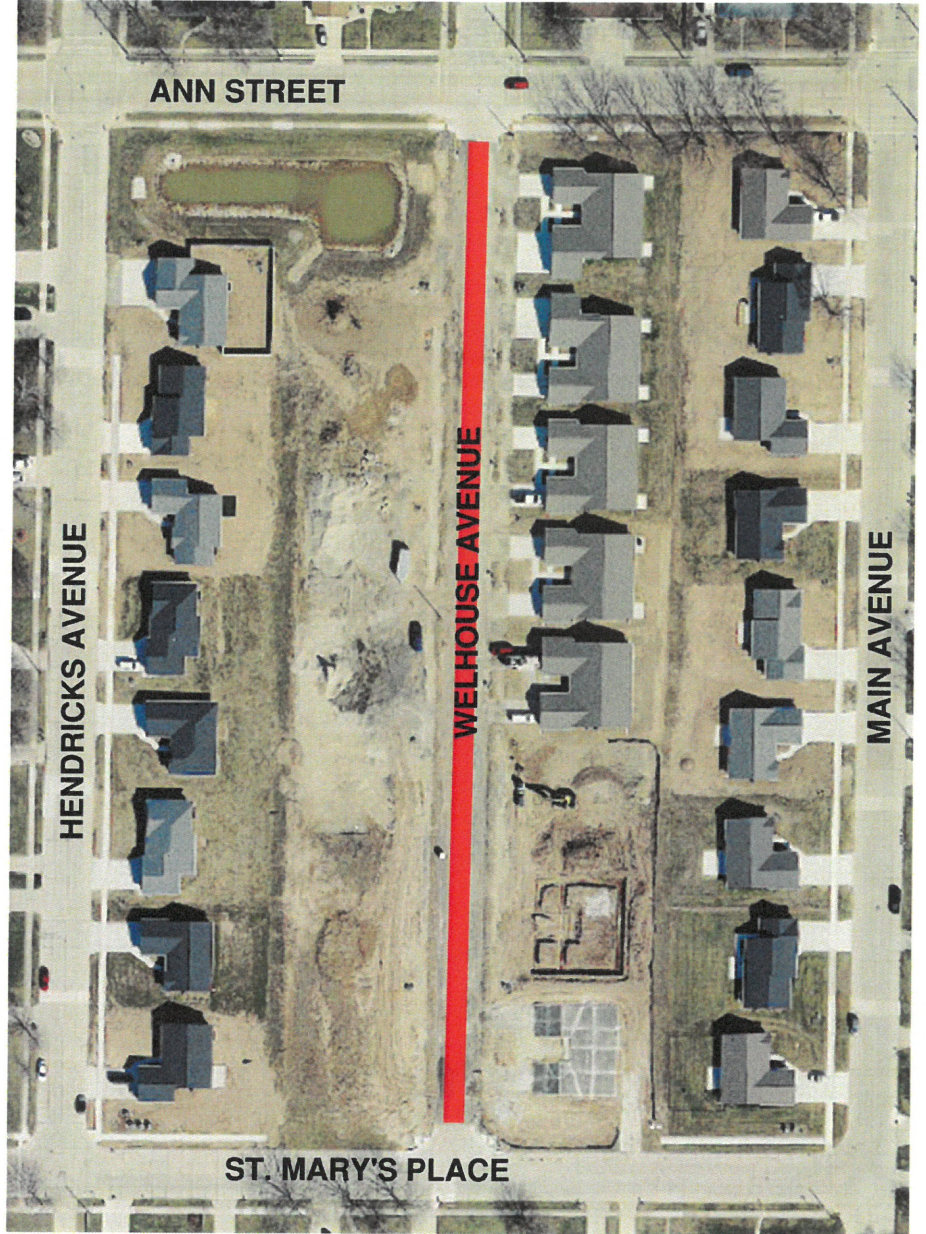
Mase Drive, Mera Lane & Alyssa Street



Project Area

NEW CONSTRUCTION:

Welhouse Drive

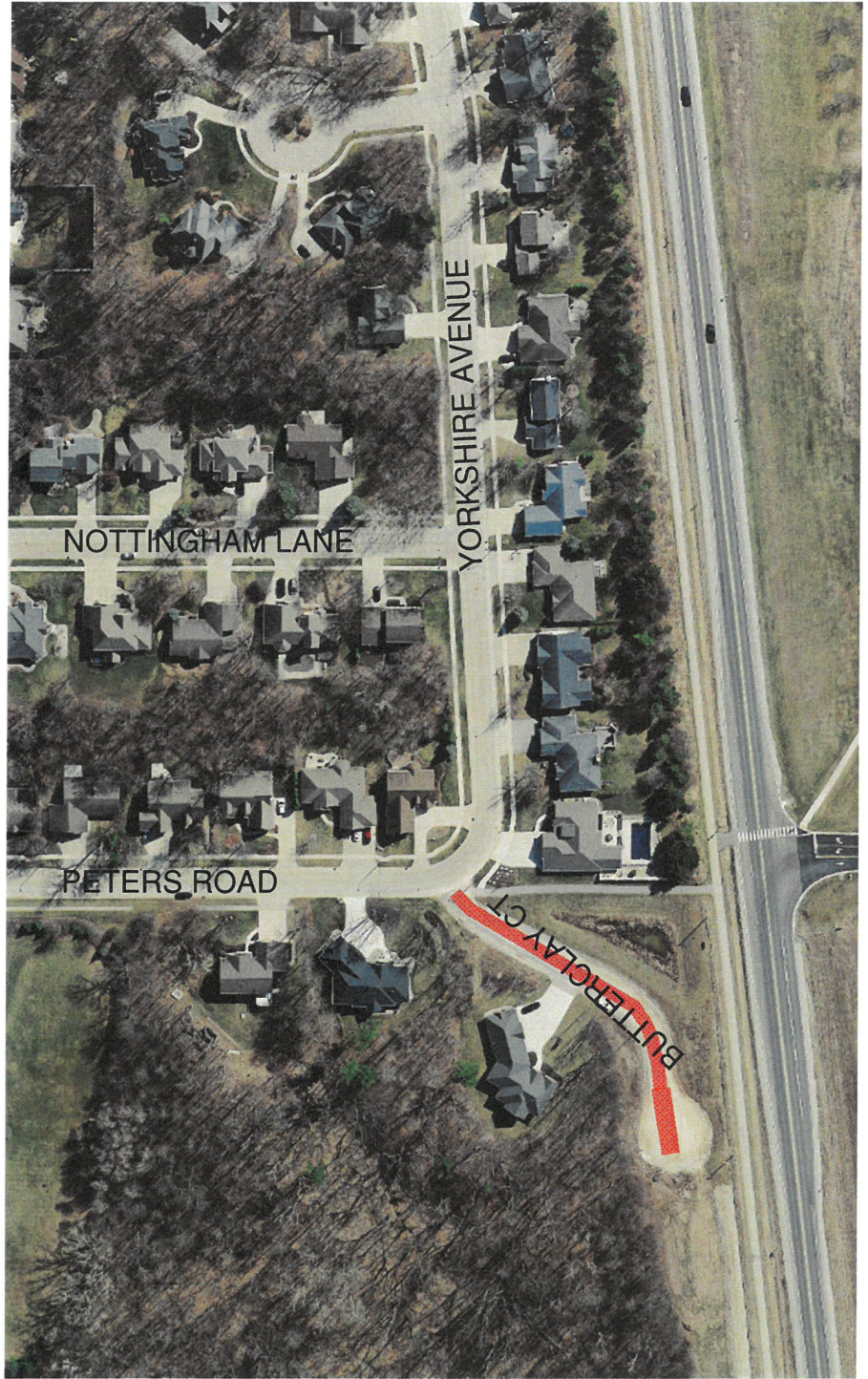


1-21 CONCRETE STREET PAVING

Project Area

NEW CONSTRUCTION:

Butterclay Court



1-21 CONCRETE STREET PAVING

Project Area

RE-CONSTRUCTION:

Ducharme Street

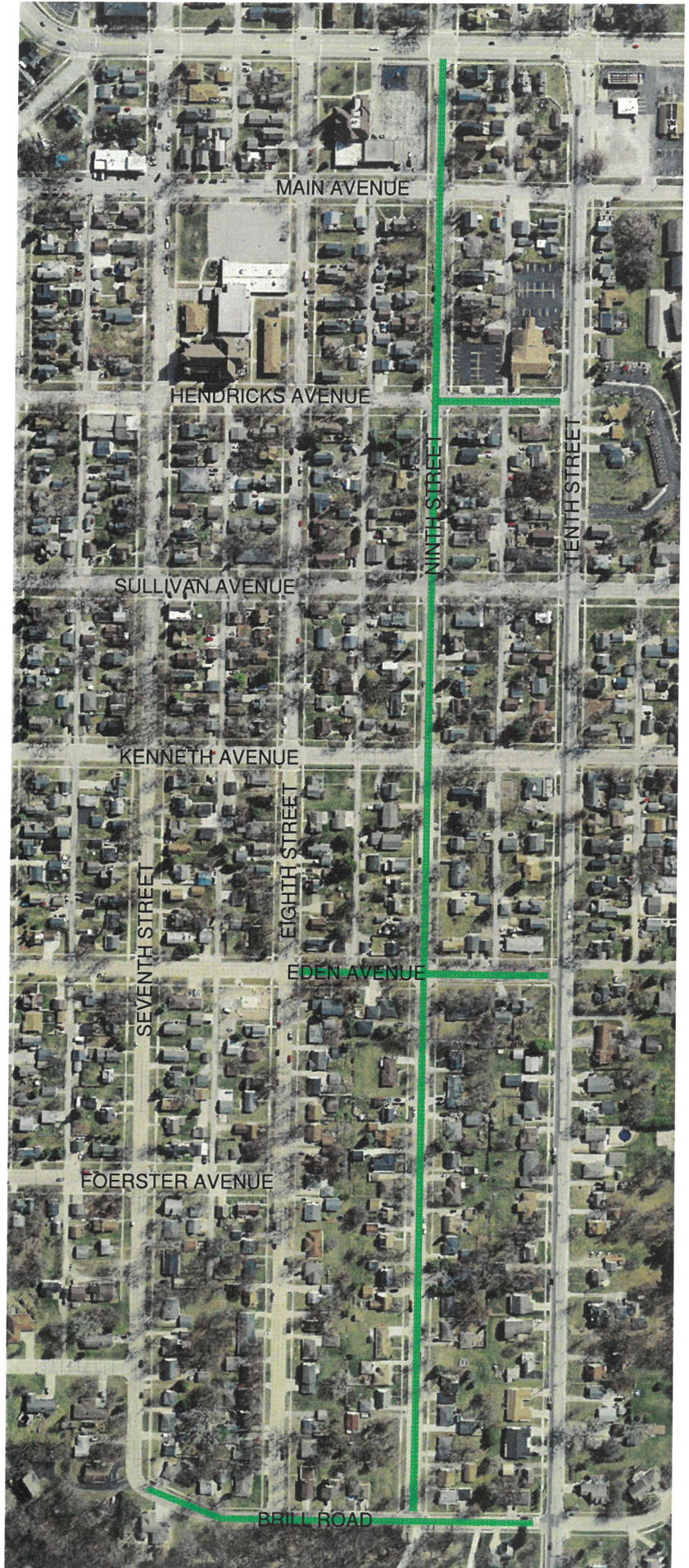


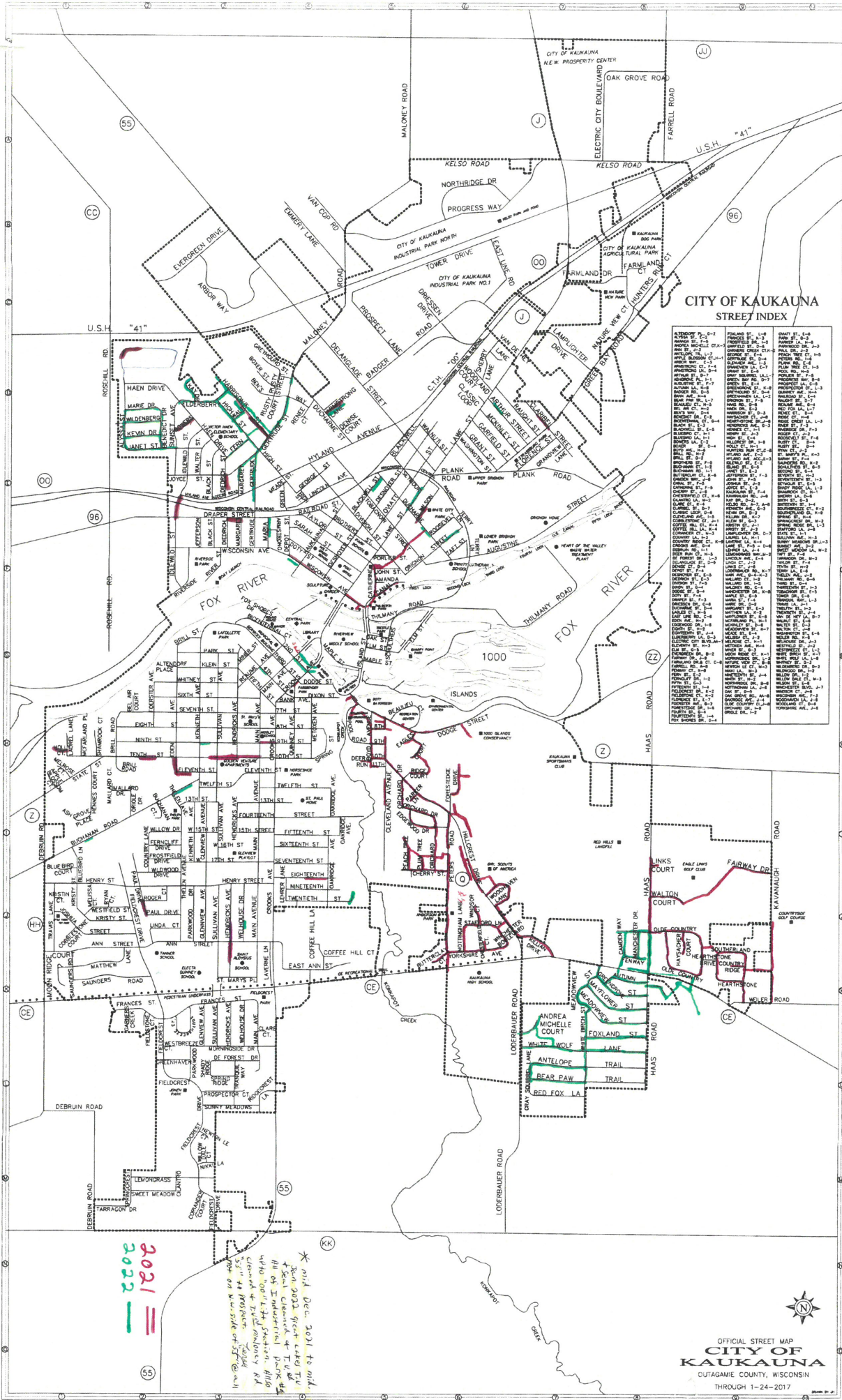
2-21 STREET AREA UTILITY RELAY

Project Area

UTILITY RELAY:

Brill Road, Ninth Street, Eden Avenue, Kenneth Avenue, Sullivan Avenue & Hendricks





**CITY OF KAUKAUNA
STREET INDEX**

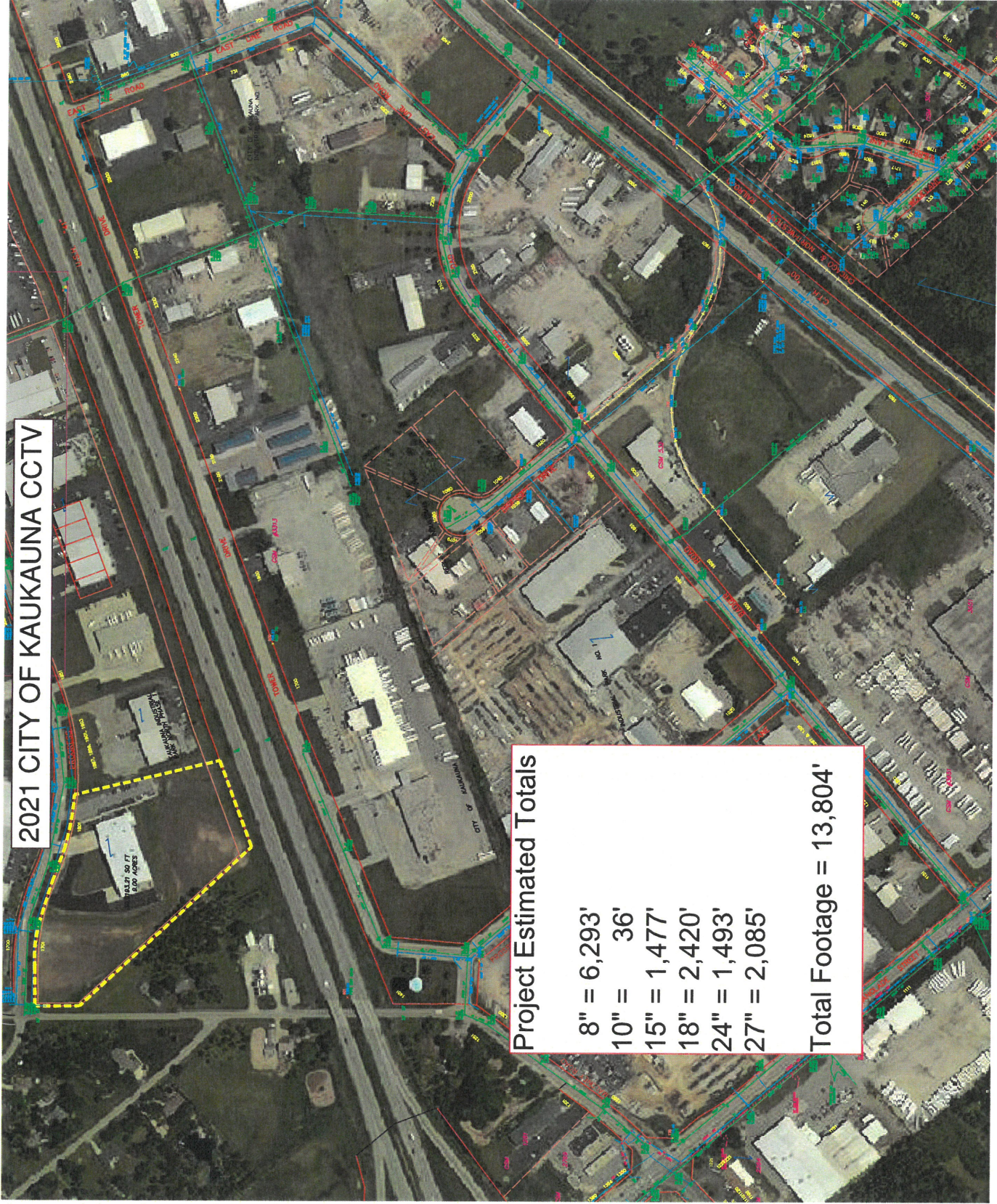
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2021
2022

* mid Dec. 2021 to mid
Jan 2022 great cedar bl
+ some clematis + 1/2 c. of
hill 68 Ind. + 1/2 c. of
with 100' L.H. + 1/2 c. of
clematis + 1/2 c. of
1/2 c. of + 1/2 c. of
1/2 c. of + 1/2 c. of



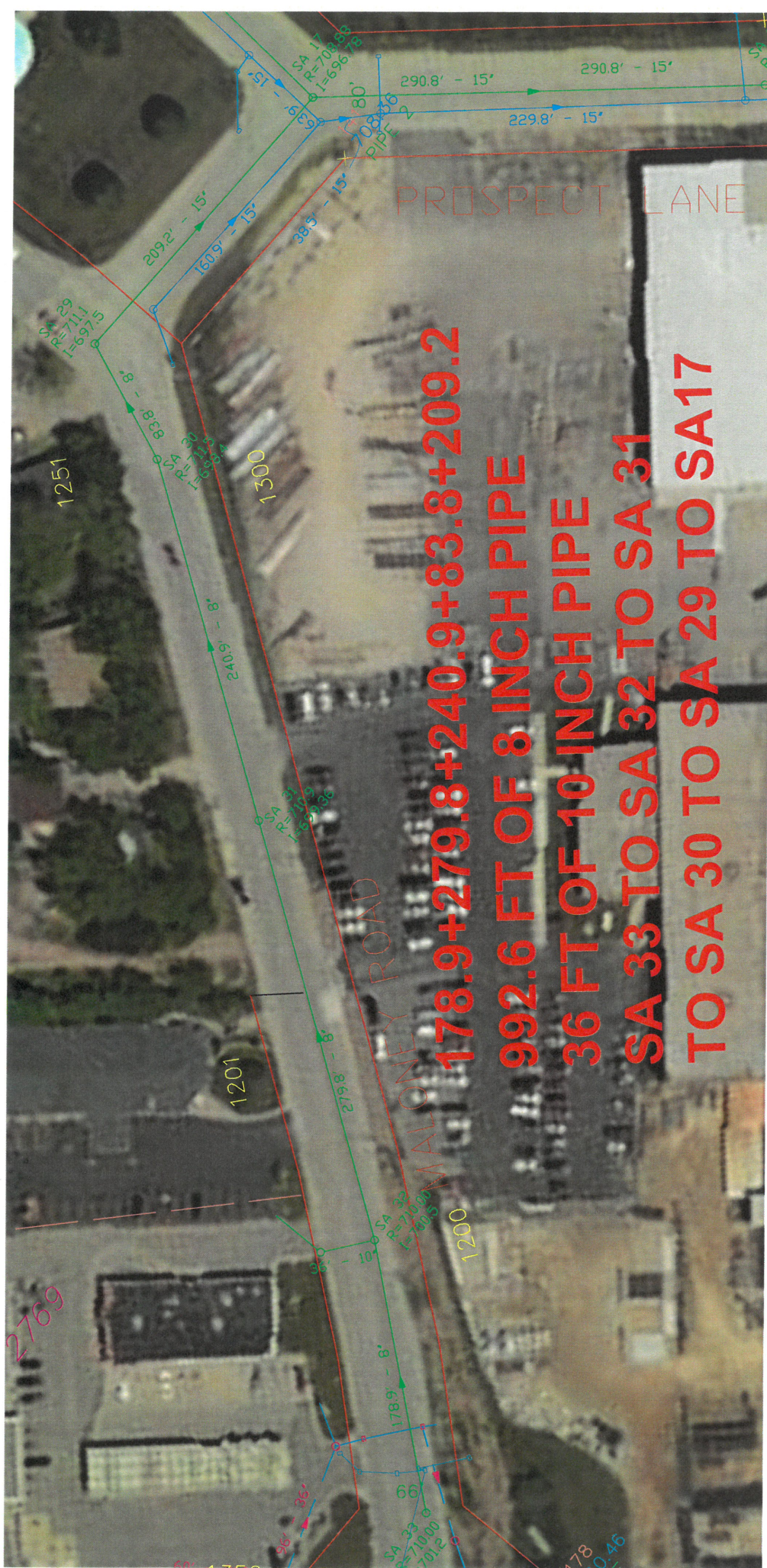
2021 CITY OF KAUKAUNA CCTV



Project Estimated Totals

8"	= 6,293'
10"	= 36'
15"	= 1,477'
18"	= 2,420'
24"	= 1,493'
27"	= 2,085'
Total Footage = 13,804'	

2021 CITY OF KAUKAUNA CCTV



PROSPECT LANE

MALONEY ROAD

**178.9+279.8+240.9+83.8+209.2
992.6 FT OF 8 INCH PIPE
36 FT OF 10 INCH PIPE
SA 33 TO SA 32 TO SA 31
TO SA 30 TO SA 29 TO SA 17**

SA 29
R=711.1
I=697.5

SA 17
R=708.8
I=696.18

SA 30
R=700.0
I=690.0

SA 31
R=715.8
I=694.8

SA 32
R=710.0
I=690.0

SA 33
R=710.0
I=690.0

1251

1201

1200

1300

2769

2780-46

2021 CITY OF KAUKAUNA CCTV



2021 CITY OF KAUKAUNA CCTV

U.S.H. "41"

DRIVE

TOWER

DRIVE

2100

2150

2200

2240

2300

2400

2500

105'

110'

125'

80'

860

800

750

731

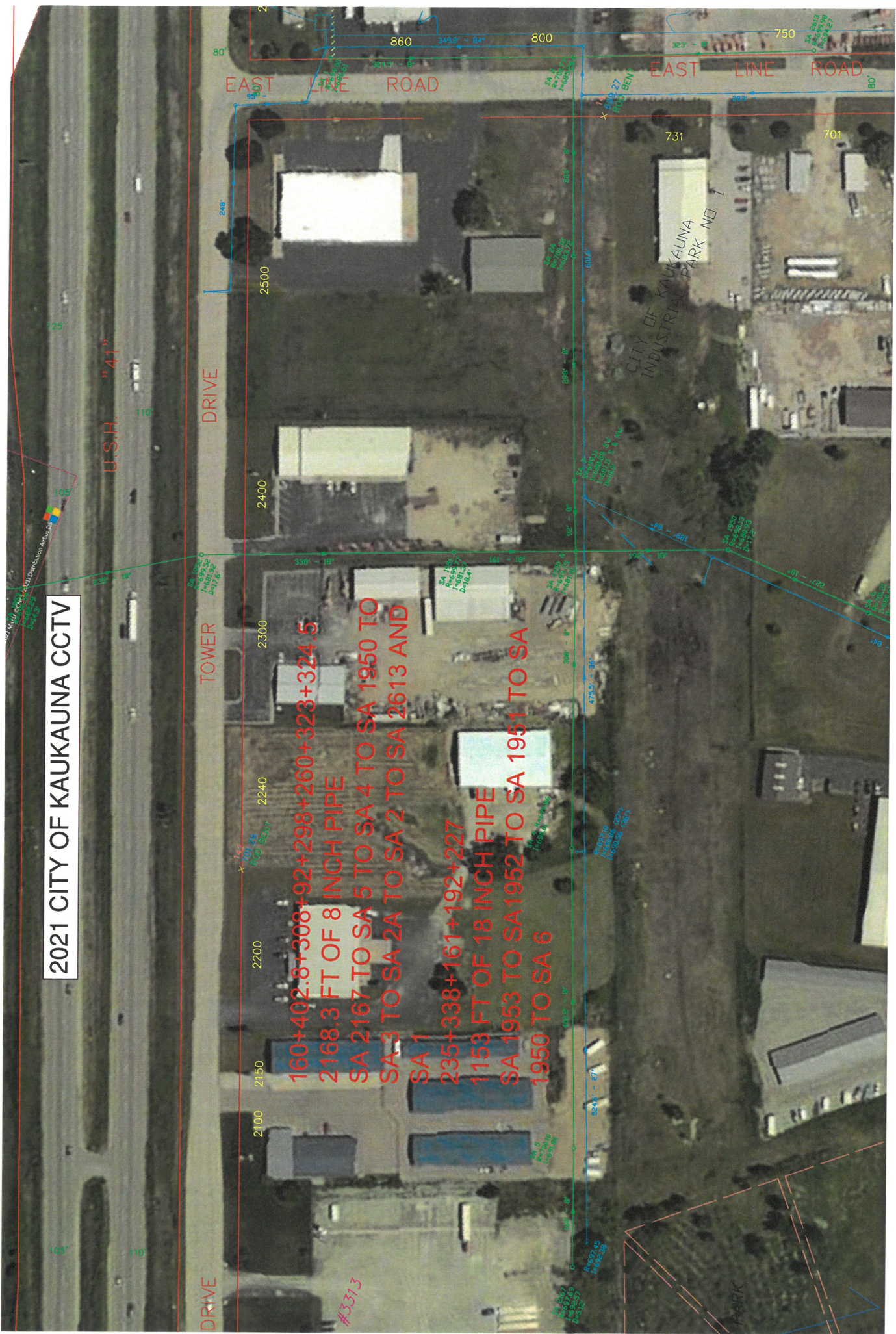
701

160+402.8+308+92+298+260+323+324.5
2168.3 FT OF 8 INCH PIPE
SA 2167 TO SA 5 TO SA 4 TO SA 1950 TO
SA 3 TO SA 2A TO SA 2 TO SA 2613 AND
SA 1
235+338+161+192+227
1153 FT OF 18 INCH PIPE
SA 1953 TO SA 1952 TO SA 1951 TO SA
1950 TO SA 6

#3313

CITY OF KAUKAUNA
INDUSTRIAL PARK NO. 1

PARK

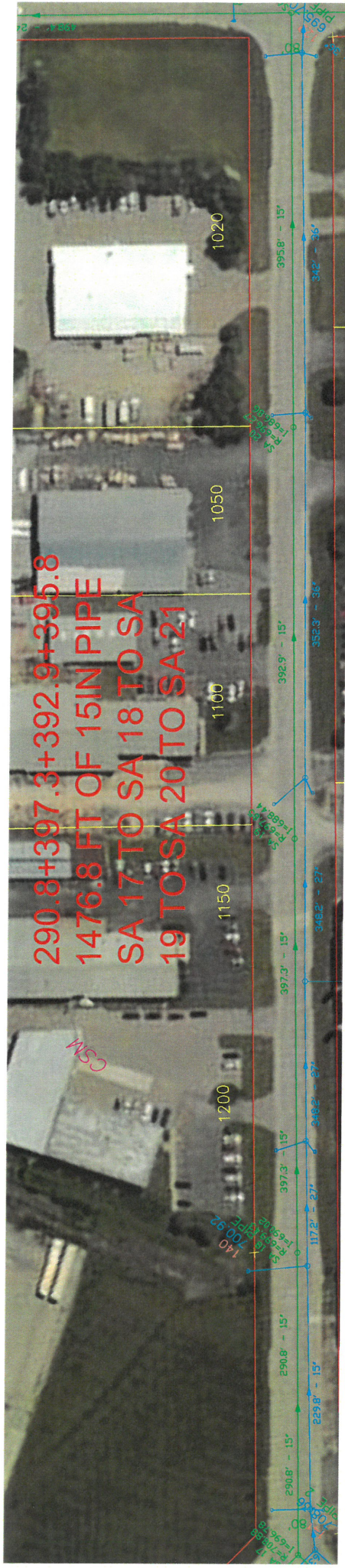


2021 CITY OF KAUKAUNA CCTV



334.2+332.5+330.3
997 FT OF 18 INCH PIPE
SA 81 TO SA 82 TO SA 28
TO SA 21

2021 CITY OF KAUKAUNA CCTV



290.8+397.3+392.9+395.8
1476.8 FT OF 15IN PIPE
SA 17 TO SA 18 TO SA
19 TO SA 20 TO SA 21

1020

1050

1100

1150

1200

CSM

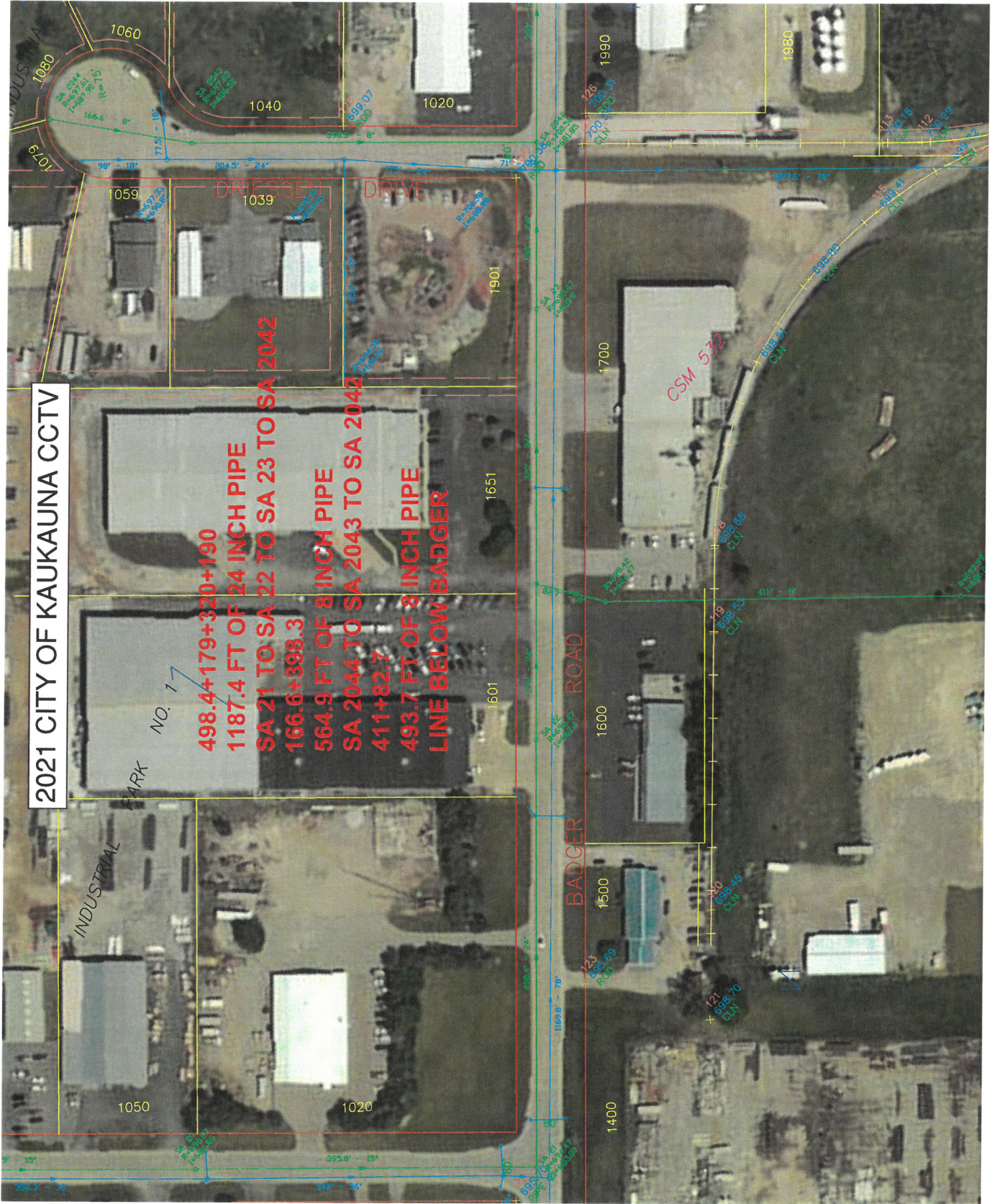
140

1020

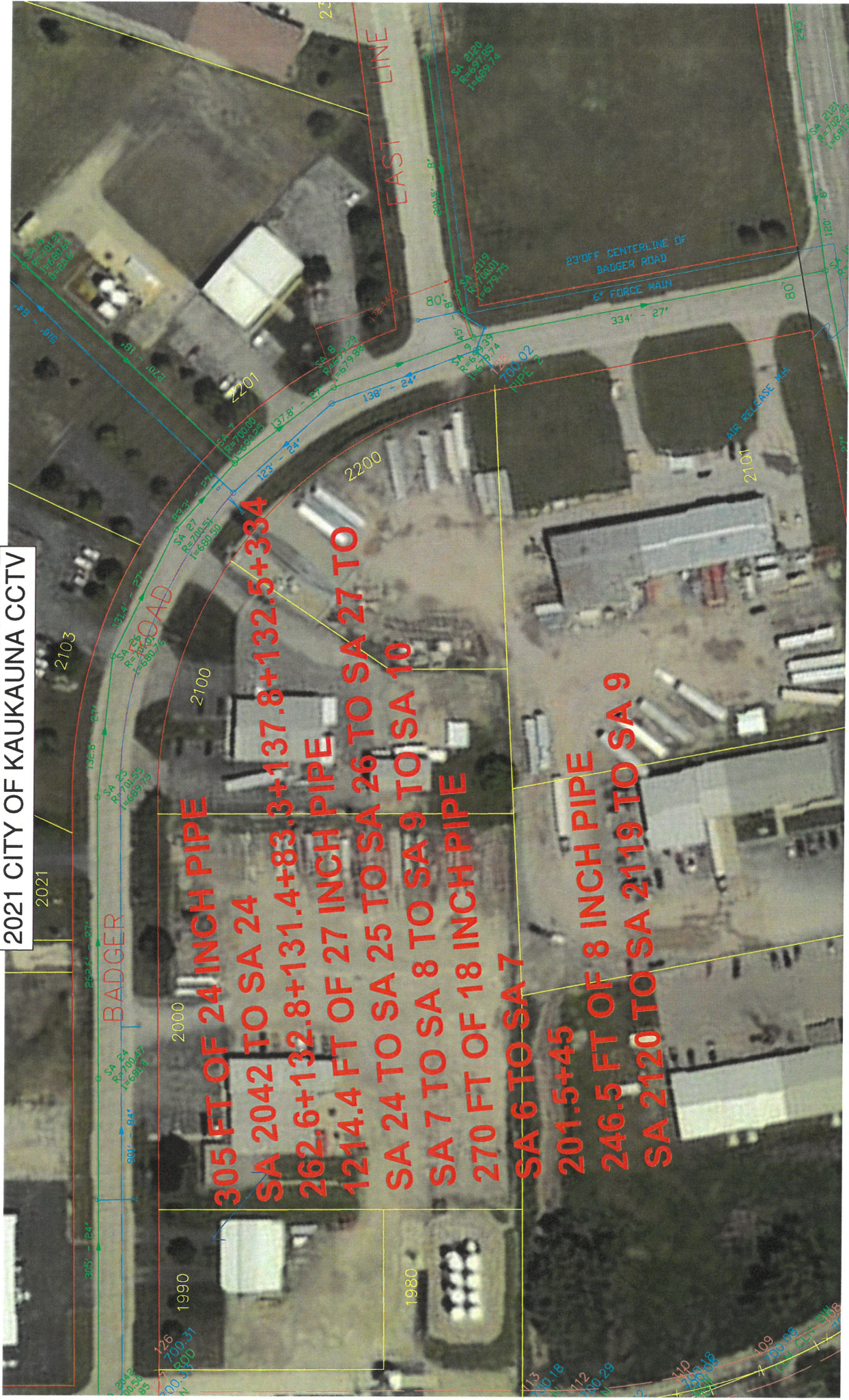
2021 CITY OF KAUKAUNA CCTV

PARK NO. 1

498.4+179+320+190
1187.4 FT OF 24 INCH PIPE
SA 21 TO SA 22 TO SA 23 TO SA 2042
166.6+398.3
564.9 FT OF 8 INCH PIPE
SA 2044 TO SA 2043 TO SA 2042
411+82.7
493.7 FT OF 8 INCH PIPE
LINE BELOW BADGER



2021 CITY OF KAUKAUNA CCTV



305 FT OF 24 INCH PIPE
SA 2042 TO SA 24
262.6+132.8+131.4+83.3+137.8+132.5+334
1214.4 FT OF 27 INCH PIPE
SA 24 TO SA 25 TO SA 26 TO SA 27 TO
SA 7 TO SA 8 TO SA 9 TO SA 10
270 FT OF 18 INCH PIPE
SA 6 TO SA 7
201.5+45
246.5 FT OF 8 INCH PIPE
SA 2120 TO SA 2119 TO SA 9

2021 CITY OF KAUKAUNA CCTV



Section 4: Local Ordinance Changes

Ordinance number 1848, amending Section 13.05(A) and (B) of the Kaukauna Municipal Code changed the user charge from \$6.75 per 100 cubic feet to \$7.00 per 100 cubic feet.

Section 5: CMOM Updates and Changes

The CMOM Plan is a working document that will require updates based upon annual reviews and performance of the system. The annual audit of the CMOM plan will be an important part of maintaining a high level of sewer service and sewer capacity. Reviews will occur in December of each calendar year.

There were no major updates/changes to the CMOM program in 2021. The City did update the appendix for annual maintenance goals and performance measures for 2021. An updated table is attached to the end of this section.

ANNUAL MAINTENANCE GOALS AND PERFORMANCE MEASURES

		2019	2020	2021	Comments
2021					
Sewer Mainline O&M					
MAINTENANCE ITEM	GOAL	% of System	2020	2021	Comments
Sewer Mainline Televised	4-mile per-year- 5% of system per year	5.0%	22,650 ft (5%)	25,239 ft (5.6%)	Project Areas, Subd., CCTV
Main Line Rehabilitation and Replacement	1 mile per year	1.2%	7,200 ft (1.6%)	6,468 ft (1.4%)	Utility Relays on 9th and Lawe
Clean Main Line Sewers	10 miles per year	12%	139,100ft (31%)	82,075 ft (18%)	Approx. 25% of Branch lines per year
Root Cutting	TBD - Per Cleaning/Televising	TBD	5%	0%	
Flow Monitoring	TBD - Project Areas	TBD	0%	0%	100% metered at meter stations and lift stations - Discuss future metering options for project areas
Dye Test /Smoke Test	TBD - Visual Inspections will dictate	TBD	0 ft	0 ft	
Manholes O&M					
MAINTENANCE ITEM	GOAL	% of System	2020	2021	Comments
Visual Inspection of Critical and Easement MHs	Inspect 100% at least once annually	100%	100%	100%	
Visual Inspection of standard MHs	Inspect every 4 years	25%	660 (35%)	465 (25%)	Sewer Crew + CCTV + Project Areas
Manhole Rehabilitation/Replacement	Repair or replace 2% per year	2%	26 (1.3%)	41 (2.1%)	Paving and Lining
Lift Station O&M					
MAINTENANCE ITEM	GOAL	# Per Year	2020	2021	Comments
Lift Station Inspections	2 inspections per week of each station	104 per lift station	104	104	
Lift Station O&M Check	1 maintenance check per week	52 per lift station	52	52	
Clean and Degrease Lift Stations	2 times per year each	2 per lift station	3	2	
Easement O&M					
MAINTENANCE ITEM	GOAL	% of System	2020	2021	Comments
Visual Inspection of Easements	Inspect twice per year	100%	100%	100%	
Easement Maintenance	Maintain access to each mh and mark for visibility	As needed	NA	NA	
Private Lateral O&M					
MAINTENANCE ITEM	GOAL	#	2020	2021	Comments
Visual Inspection of Laterals	Inspect 100% of Laterals in Rehab Area	Varies	100%(83)	100%(109)	
Replace Private Laterals	Replace 95% of residential laterals - rehab project	Varies	100% (14 of 14)	85% (64 of 75)	
Inspect Private Properties for Illicit Connections	Inspect all properties within a 10 year cycle	10%	2%	2%	Mostly performed by Building Insp. & ENG - KU also performed 29.

RESOLUTION NO. 5360-2022

Resolution Accepting the City of Kaukauna
2021 Annual Clearwater Sustainability Program Report to the
Heart of the Valley Metropolitan Sewerage District (HOVMSD)

WHEREAS, it is a requirement of the HOVMSD that member communities file an annual report as part of its Clearwater Sustainability Program; and

WHEREAS, the governing body of the City of Kaukauna has reviewed the annual report to the HOVMSD; and

WHEREAS, the annual report contains the following components as required by the HOVMSD:

1. CMAR as submitted to the WDNR
2. WDNR response to CMAR
3. Summary of construction and non-construction inflow/infiltration reduction projects
4. Local ordinance changes related to inflow/infiltration
5. CMOM updates or changes

NOW, THEREFORE, BE IT RESOLVED by the Common Council of the City of Kaukauna that the report prepared by the City of Kaukauna Engineering Department has been accepted and shall be forwarded to the HOVMSD as per HOVMSD requirements.

Introduced and adopted this 18th day of October, 2022.

APPROVED: _____
Anthony J. Penterman, Mayor

ATTEST: _____
Sally Kenney, Clerk