



City of Mora
Kanabec County, Minnesota
Meeting Agenda
Public Utilities Commission

Mora City Hall
101 Lake St. S
Mora, MN 55051

Tuesday, *February 21, 2023*

3:30 PM

Mora City Hall

- 1. Call to Order**
- 2. Roll Call**
- 3. Adopt Agenda** *(No item of business shall be considered unless it appears on the agenda for the meeting. Council members may add items to the agenda prior to adoption of the agenda.)*
- 4. Consent Agenda** *(Those items listed under Consent Agenda are considered to be routine by the City Council and will be acted upon by one motion under this agenda item. There will be no separate discussion of these items, unless a Council Member so requests, in which event, the item will be removed from the consent agenda and considered immediately after the adoption of the consent agenda.)*
 - a. *Meeting Minutes*
 - b. *Claims*
 - c. *Probation Release – Riley Priebe*
- 5. Open Forum** *(Individuals may address the council about any item not contained on the regular agenda. There is a maximum of fifteen (15) minutes set aside for open forum. A maximum of three (3) minutes is allotted per person. The City Council will take no official action on items discussed at the forum, with the exception of referral to staff for future report.)*
- 6. Special Business**
 - a. *Wellness Fund Contribution*
- 7. New Business**
 - a. *Offer of Employment – Electric Manager*
 - b. *MMUA Tom Bovitz Scholarship Participation*
- 8. Old Business**
 - a. *Street Plan Infrastructure Capital Improvement Final Plan - SEH*
- 9. Communications**
 - a. *None*
- 10. Reports**
 - a. *Public Utilities General Manager –*
 - b. *Public Works Director*
 - c. *Commissioner Heggernes*
 - d. *Commissioner Chmiel*
 - e. *Commissioner Christianson*
 - f. *Commissioner Baldwin*
 - g. *Chair Ardner*
- 11. Adjournment**

Pursuant to due call and notice thereof, Commissioner Ardner called to order the regular meeting of the Mora Public Utilities Commission at 3:00pm on Monday, January 17, 2023, in the city hall council chambers.

2. Oath of Office: Joe Hegerness took the Oath of Office as Public Utilities Commissioner.

3. Roll Call: Present: Commissioners Greg Ardner, Brett Baldwin, Ryan Christianson, Dave Chmiel and Joe Hegerness.

Staff Present: Public Utilities General Manager Glenn Anderson, Administrative Service Director Natasha Segelstrom, Public Works Director Joe Kohlgraf, and Utility Billing Clerk Jessica Bliss.

4. Adopt Agenda: MOTION made by Chmiel, seconded by Christianson, and unanimously carried by the PUC to approve the agenda as presented.

a. Regular Meeting Minutes

b. Claims

5. Consent Agenda: MOTION made by Baldwin, seconded by Chmiel, and unanimously carried to approve the consent agenda as presented.

6. Open Forum: No one spoke at open forum.

7. Special Business:

a. **Cross Training Proposal:** Segelstrom brought forward a utility staffing strategy and proposed costs associated with cross-training for Jessica Gravening, currently a Utility Billing Clerk II to perform Utility Billing Clerk I duties and additional time would be available for GIS mapping as needed for Bliss. Segelstrom explained that the job descriptions for both positions have been forwarded to David Drown and Associates and included the updated GIS duties from Bliss along with a proposal from Banyon Data Systems which would provide added training for multiple staff. Within the staffing strategy, communication took place for a contract worker for up to 160 hours of work at \$22.50 per hour. After further discussion with staff, the use of a contract worker may not be necessary. Anderson expanded on the cross-training plan and noted the critical role of the Utility Billing Clerk and impact for an extended period. The PUC further discussed the benefits of cross training, and the consensus was to move forward with the proposal and use of contract work as needed. Anderson stated the training plan was not in the 2023 budget. The PUC acknowledged the total cost was not a large amount. MOTION made by Baldwin, seconded by Christianson and unanimously carried to approve the Banyon Data proposal and software training, approve cross training for Jessica Gravening and approve the temporary hire for contract worker not to exceed 160 hours. MOTION made by Christianson, seconded by Baldwin, and unanimously carried to table discussion on the Utility Billing Clerk I & II job descriptions, classification, and compensation until staff received results from David Drown & Associates.

8. New Business:

a. **Distributed Energy Report:** Bliss presented the Distributed Energy Report and explained each year the annual document submission. Bliss explained the first schedule outlined the amount that would be returned to the net solar customers, second schedule was SMMPA's average cost to the utility and the third outlined current solar customers and how much was received and delivered. It was noted there were four current customers.

MOTION made by Christianson, seconded by Baldwin, and unanimously carried to approve the Distributed Energy Report.

- b. Accountant Offer of Employment- K. Christianson:** Segelstrom brought forward an offer of employment for Kelly Christianson to fill the vacant accountant position for the City and Mora Municipal Utilities at a grade 10, step C. Due to the urgency of the position and upcoming annual financial audit fieldwork, the offer of employment would have a start date of January 18, 2023 and Christianson would be available to start the following day. Anderson explained the interview committee comprised of City Administrator/General Manager, department heads Kohlgraf, Segelstrom and Mayor Mathison. The unanimous recommendation from the committee was to hire Kelly Christianson. Chmiel questioned the hiring process for employees whose wages were paid for by the Utilities and recommend hiring for a candidate they have not met. Anderson explained that for department heads, a PUC representative would participate in the interview process. The accountant position was not a department head position and is why a commissioner was not included in the interview process. Anderson recommended that commissioner Ryan Christianson abstain from voting due to a conflict of interest with Kelly Christianson. MOTION made by Chmiel, seconded by Baldwin and carried to recommend to the City Council to move forward in the hiring process and appoint Kelly Christianson as the accountant for the City of Mora. Commissioner Christianson abstained.

9. Old Business

- a. Fee Schedule – Electric Rate Correction:** Segelstrom brought forward a correction to the 2023 fee schedule for large general electric service kWh rate and stated there had been an error with the calculation and it did not align with the previously approved 21.6% increase. MOTION made by Baldwin, seconded by Christianson, and unanimously approve the large general electric service kWh rate \$0.0714 to reflect the 21.6% increase as previously approved.

10. Communications: The PUC Reviewed the Communications.

- a. Quarterly EV Charger Report
- b. Quarterly Utility Account Adjustment
- c. Quarterly Utility Balance Update
- d. 2022 Outage Report

11. Reports:

- a. **Public Utilities General Manager:** Anderson discussed if any conflicts of interest were presented, Commissioner Christianson would need to obtain from PUC decision due to the PUC's recommendation to hire Kelly Christianson as the City of Mora / MMU's accountant. Anderson acknowledged the positive feedback with the monthly ECE meetings.
- b. **Public Works Director:** Provided an update on the tree trimming, staff test completion, and electric training. Kohlgraf stated that the use of ECE has been limited to after hours and during emergency. The electric pole replacement has not begun due to pole availability and project would occur in the spring.
- c. **Commissioner Hegerness:** Nothing new to report.
- d. **Commissioner Chmiel:** Asked if electric lines would be buried to eliminate outages. Kohlgraf stated that was planned with new developments.
- e. **Commissioner Baldwin:** Nothing new to report.

- f. Commissioner Christianson:** Nothing new to report.
 - g. Chairperson Ardner:** Welcomed Hegernes back to the PUC.
- 12. Adjournment:** MOTION made by Hegerness, seconded by Christianson, and unanimously carried to adjourn at 3:39 pm.

Chair

Secretary

**CITY OF MORA
CHECK LIST-PUC**

CHECK #	Search Name	Fund Descr	Dept Descr	Last Dim Descr	Comments	Amount
CHECK # 001284 COMPLETE MERCHANT SOLUTIONS						
001284	COMPLETE MERCHANT	ELECTRIC FUN	ELECTRIC ADMINIST	Payment Processing E	CREDIT CARD PYMT PROCESSI	\$450.00
001284	COMPLETE MERCHANT	WATER FUND	WATER ADMINISTR	Payment Processing E	CREDIT CARD PYMT PROCESSI	\$225.00
001284	COMPLETE MERCHANT	SEWER FUND	SEWER ADMINISTR	Payment Processing E	CREDIT CARD PYMT PROCESSI	\$225.00
						\$900.00
CHECK # 001284 COMPLETE MERCHANT SOLUTIONS						
CHECK # 001285 MORA MUNICIPAL UTILITIES						
001285	MORA MUNICIPAL UTILI	ELECTRIC FUN	GENERATION & PO	Water	UTILITIES	\$101.37
001285	MORA MUNICIPAL UTILI	ELECTRIC FUN	GENERATION & PO	Sewer	UTILITIES	\$21.27
001285	MORA MUNICIPAL UTILI	ELECTRIC FUN	GENERATION & PO	Storm Water	UTILITIES	\$18.83
001285	MORA MUNICIPAL UTILI	WATER FUND	WATER SUPPLY	Electricity	UTILITIES	\$1,123.12
001285	MORA MUNICIPAL UTILI	WATER FUND	WATER SUPPLY	Storm Water	UTILITIES	\$23.36
001285	MORA MUNICIPAL UTILI	WATER FUND	WATER TREATMENT	Electricity	UTILITIES	\$1,258.70
001285	MORA MUNICIPAL UTILI	WATER FUND	WATER TREATMENT	Storm Water	UTILITIES	\$11.68
001285	MORA MUNICIPAL UTILI	WATER FUND	WATER DISTRIBUTI	Storm Water	UTILITIES	\$13.04
001285	MORA MUNICIPAL UTILI	WATER FUND	WATER DISTRIBUTI	Electricity	UTILITIES	\$110.94
001285	MORA MUNICIPAL UTILI	SEWER FUND	SEWER LIFT STATIO	Storm Water	UTILITIES	\$11.68
001285	MORA MUNICIPAL UTILI	SEWER FUND	SEWER LIFT STATIO	Electricity	UTILITIES	\$1,130.20
001285	MORA MUNICIPAL UTILI	SEWER FUND	WASTEWATER TREA	Electricity	UTILITIES	\$3,849.08
001285	MORA MUNICIPAL UTILI	SEWER FUND	WASTEWATER TREA	Water	UTILITIES	\$137.96
001285	MORA MUNICIPAL UTILI	SEWER FUND	WASTEWATER TREA	Storm Water	UTILITIES	\$24.03
						\$7,835.26
CHECK # 001285 MORA MUNICIPAL UTILITIES						
CHECK # 001286 ONLINE COLLECTIONS						
001286	ONLINE COLLECTIONS	ELECTRIC FUN	ELECTRIC ADMINIST	Cust UB/Collection	NEW UB CUSTOMER CREDIT C	\$41.84
						\$41.84
CHECK # 001286 ONLINE COLLECTIONS						
CHECK # 001288 MN DEPT OF REVENUE						
001288	MN DEPT OF REVENUE	ELECTRIC FUN		Sales Tax Payable	SALES & USE TAX PYMT - DEC	\$28,329.00
001288	MN DEPT OF REVENUE	WATER FUND		Sales Tax Payable	SALES & USE TAX PYMT - DEC	\$1,036.00
						\$29,365.00
CHECK # 001288 MN DEPT OF REVENUE						
CHECK # 001290 PAYLIANCE						
001290	PAYLIANCE	ELECTRIC FUN	ELECTRIC ADMINIST	Payment Processing E	E-CHECK PYMT PROCESSING F	\$49.84
001290	PAYLIANCE	WATER FUND	WATER ADMINISTR	Payment Processing E	E-CHECK PYMT PROCESSING F	\$24.93
001290	PAYLIANCE	SEWER FUND	SEWER ADMINISTR	Payment Processing E	E-CHECK PYMT PROCESSING F	\$24.93
						\$99.70
CHECK # 001290 PAYLIANCE						
CHECK # 001291 SMMPA						
001291	SMMPA	ELECTRIC FUN		Accounts Payable	POWER PURCHASED	\$360,896.68
						\$360,896.68
CHECK # 001291 SMMPA						
CHECK # 001293 NEIGHBORHOOD NATIONAL BANK						
001293	NEIGHBORHOOD NATIO	ELECTRIC FUN	ELECTRIC ADMINIST	Bad Debts/NSF Check	MONTHLY RETURNED CHECK	\$10.00
001293	NEIGHBORHOOD NATIO	ELECTRIC FUN	ELECTRIC ADMINIST	Payment Processing E	MONTHLY BUSINESS ONLINE	\$10.00
001293	NEIGHBORHOOD NATIO	ELECTRIC FUN	ELECTRIC ADMINIST	Payment Processing E	MONTHLY UB ACH FILE FEE	\$30.00
						\$50.00
CHECK # 001293 NEIGHBORHOOD NATIONAL BANK						
CHECK # 001294 NEIGHBORHOOD NATIONAL BANK						
001294	NEIGHBORHOOD NATIO	ELECTRIC FUN	ELECTRIC ADMINIST	Bad Debts/NSF Check	NSF CHARGE BACK FEE - T CA	\$10.00
						\$10.00
CHECK # 001294 NEIGHBORHOOD NATIONAL BANK						
CHECK # 059584 EAST CENTRAL ENERGY-ECE SERV						
059584	EAST CENTRAL ENERGY	ELECTRIC FUN		Accounts Payable	NOV & DEC TOLL FREE CHARG	\$41.00
						\$41.00
CHECK # 059584 EAST CENTRAL ENERGY-ECE SERV						

**CITY OF MORA
CHECK LIST-PUC**

02/16/23 7:39 AM

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CHECK #	Search Name	Fund Descr	Dept Descr	Last Dim Descr	Comments	Amount
CHECK # 059585 MN ENERGY RESOURCES CORP						
059585	MN ENERGY RESOURCE	ELECTRIC FUN		Accounts Payable	NATURAL GAS-GENERATION	\$64.59
059585	MN ENERGY RESOURCE	ELECTRIC FUN		Accounts Payable	NATURAL GAS-BOILER	\$1,786.32
059585	MN ENERGY RESOURCE	WATER FUND		Accounts Payable	NATURAL GAS	\$330.85
059585	MN ENERGY RESOURCE	WATER FUND		Accounts Payable	NATURAL GAS	\$123.73
059585	MN ENERGY RESOURCE	SEWER FUND		Accounts Payable	NATURAL GAS	\$1,161.10
						<u>\$3,466.59</u>
CHECK # 059585 MN ENERGY RESOURCES CORP						
CHECK # 059586 AMAZON CAPITAL SERVICES						
059586	AMAZON CAPITAL SERV	ELECTRIC FUN	ELECTRIC ADMINIST	Office Supplies	PROJECT PLANNER-NATASHA	\$1.75
059586	AMAZON CAPITAL SERV	ELECTRIC FUN	ELECTRIC ADMINIST	Small Tools & Equipm	WEB CAMERA - GLENN	\$16.46
059586	AMAZON CAPITAL SERV	WATER FUND	WATER TREATMENT	Other Operating Suppl	PAPER TOWELS	\$13.76
059586	AMAZON CAPITAL SERV	WATER FUND	WATER ADMINISTR	Small Tools & Equipm	WEB CAMERA - GLENN	\$8.23
059586	AMAZON CAPITAL SERV	WATER FUND	WATER ADMINISTR	Office Supplies	PROJECT PLANNER-NATASHA	\$0.87
059586	AMAZON CAPITAL SERV	SEWER FUND	SEWER ADMINISTR	Other Operating Suppl	PAPER TOWELS	\$13.77
059586	AMAZON CAPITAL SERV	SEWER FUND	SEWER ADMINISTR	Small Tools & Equipm	WEB CAMERA - GLENN	\$8.23
059586	AMAZON CAPITAL SERV	SEWER FUND	SEWER ADMINISTR	Office Supplies	PROJECT PLANNER-NATASHA	\$0.87
						<u>\$63.94</u>
CHECK # 059586 AMAZON CAPITAL SERVICES						
CHECK # 059592 CARLSON, MARTIN & PEGGY						
059592	CARLSON, MARTIN & PE	ELECTRIC FUN		Undistributed Receipts	2022 SOLAR CREDIT - 1753 20	\$221.58
						<u>\$221.58</u>
CHECK # 059592 CARLSON, MARTIN & PEGGY						
CHECK # 059596 J MARTIN CARLSON TRUST						
059596	J MARTIN CARLSON TR	ELECTRIC FUN		Undistributed Receipts	2022 SOLAR CREDIT - 101 S P	\$1,652.93
						<u>\$1,652.93</u>
CHECK # 059596 J MARTIN CARLSON TRUST						
CHECK # 059605 QUILL CORPORATION						
059605	QUILL CORPORATION	ELECTRIC FUN	ELECTRIC ADMINIST	Other Operating Suppl	HAND SOAP REFILL	\$8.60
059605	QUILL CORPORATION	ELECTRIC FUN	ELECTRIC ADMINIST	Office Supplies	OFFICE SUPPLIES	\$133.87
059605	QUILL CORPORATION	WATER FUND	WATER ADMINISTR	Office Supplies	OFFICE SUPPLIES	\$7.25
059605	QUILL CORPORATION	SEWER FUND	SEWER ADMINISTR	Office Supplies	OFFICE SUPPLIES	\$7.25
						<u>\$156.97</u>
CHECK # 059605 QUILL CORPORATION						
CHECK # 059612 WATER CONSERVATION SERVICE INC						
059612	WATER CONSERVATION	WATER FUND	WATER DISTRIBUTI	Repair/Maint - Bldg &	LEAK LOCATES - 3RD ST & WE	\$959.38
						<u>\$959.38</u>
CHECK # 059612 WATER CONSERVATION SERVICE INC						
CHECK # 059621 AJ MOORE ELECTRIC						
059621	AJ MOORE ELECTRIC	ELECTRIC FUN	ELECTRIC DISTRIBU	Miscellaneous	REPLACE BROKEN TAIL LIGHT	\$53.53
						<u>\$53.53</u>
CHECK # 059621 AJ MOORE ELECTRIC						
CHECK # 059622 AMAZON CAPITAL SERVICES						
059622	AMAZON CAPITAL SERV	ELECTRIC FUN	ELECTRIC ADMINIST	Office Supplies	OFFICE SUPPLIES	\$169.54
059622	AMAZON CAPITAL SERV	WATER FUND	WATER ADMINISTR	Office Supplies	OFFICE SUPPLIES	\$63.98
059622	AMAZON CAPITAL SERV	SEWER FUND	SEWER ADMINISTR	Office Supplies	OFFICE SUPPLIES	\$63.98
						<u>\$297.50</u>
CHECK # 059622 AMAZON CAPITAL SERVICES						
CHECK # 059631 FELGER, MATT						
059631	FELGER, MATT	ELECTRIC FUN	GENERATION & PO	Uniforms	WINTER BOOTS	\$236.69
						<u>\$236.69</u>
CHECK # 059631 FELGER, MATT						
CHECK # 059634 LOR, KAO						
059634	LOR, KAO	ELECTRIC FUN		Undistributed Receipts	REFUND OVERPYMT-404 BLUE	\$45.08
						<u>\$45.08</u>
CHECK # 059634 LOR, KAO						

**CITY OF MORA
CHECK LIST-PUC**

CHECK #	Search Name	Fund Descr	Dept Descr	Last Dim Descr	Comments	Amount
CHECK # 059635 LUEDTKE, JACK & BROOKE						
059635	LUEDTKE, JACK & BROO	ELECTRIC FUN		Undistributed Receipts	REFUND DEPOSIT-431 W CEN	\$84.81
						\$84.81
CHECK # 059635 LUEDTKE, JACK & BROOKE						
CHECK # 059638 MN MUNICIPAL UTILITIES ASSN						
059638	MN MUNICIPAL UTILITI	ELECTRIC FUN	ELECTRIC ADMINIST	Dues & Subscriptions	2023 ELECT UTIL MEMBER DU	\$9,982.00
059638	MN MUNICIPAL UTILITI	ELECTRIC FUN	ELECTRIC ADMINIST	Meetings, Training, &	STULC/BERGSTADT-2023 SUBS	\$1,030.00
						\$11,012.00
CHECK # 059638 MN MUNICIPAL UTILITIES ASSN						
CHECK # 059644 ST CLOUD STAMP & SIGN						
059644	ST CLOUD STAMP & SIG	ELECTRIC FUN	ELECTRIC ADMINIST	Office Supplies	NOTARY STAMP-GRAVENING	\$20.38
059644	ST CLOUD STAMP & SIG	WATER FUND	WATER ADMINISTR	Office Supplies	NOTARY STAMP-GRAVENING	\$10.20
059644	ST CLOUD STAMP & SIG	SEWER FUND	SEWER ADMINISTR	Office Supplies	NOTARY STAMP-GRAVENING	\$10.20
						\$40.78
CHECK # 059644 ST CLOUD STAMP & SIGN						
CHECK # 059649 CARDMEMBER SERVICE						
059649	CARDMEMBER SERVICE	ELECTRIC FUN	ELECTRIC ADMINIST	Meetings, Training, &	STULC CONTINUING ED FOR E	\$352.00
						\$352.00
CHECK # 059649 CARDMEMBER SERVICE						
CHECK # 059650 CENTURYLINK						
059650	CENTURYLINK	SEWER FUND	SEWER ADMINISTR	Telephone	WWTP PHONE	\$128.78
						\$128.78
CHECK # 059650 CENTURYLINK						
CHECK # 059654 MN PUBLIC FACILITIES AUTHORITY						
059654	MN PUBLIC FACILITIES	WATER FUND	WATER ADMINISTR	Interest Expense	LOAN REPAYMENT ON G.O. BO	\$6,451.83
059654	MN PUBLIC FACILITIES	SEWER FUND	SEWER ADMINISTR	Interest Expense	LOAN REPAYMENT ON G.O. BO	\$11,305.00
						\$17,756.83
CHECK # 059654 MN PUBLIC FACILITIES AUTHORITY						
CHECK # 059670 KODRU-MOONEY						
059670	KODRU-MOONEY	SEWER FUND	WASTEWATER TREA	Repair/Maint - Bldg &	VALVE REPAIR	\$3,070.64
						\$3,070.64
CHECK # 059670 KODRU-MOONEY						
CHECK # 059672 MED COMPASS						
059672	MED COMPASS	ELECTRIC FUN	ELECTRIC ADMINIST	Professional Services -	ANNUAL HEARING TEST-KOHL	\$11.90
059672	MED COMPASS	ELECTRIC FUN	ELECTRIC ADMINIST	Professional Services -	ANNUAL HEARING TESTS-2 EL	\$119.00
059672	MED COMPASS	WATER FUND	WATER ADMINISTR	Professional Services -	ANNUAL HEARING TESTS-3 W/	\$89.25
059672	MED COMPASS	WATER FUND	WATER ADMINISTR	Professional Services -	ANNUAL HEARING TEST-KOHL	\$5.95
059672	MED COMPASS	SEWER FUND	SEWER ADMINISTR	Professional Services -	ANNUAL HEARING TEST-KOHL	\$5.95
059672	MED COMPASS	SEWER FUND	SEWER ADMINISTR	Professional Services -	ANNUAL HEARING TESTS-3 W/	\$89.25
						\$321.30
CHECK # 059672 MED COMPASS						
CHECK # 059673 MIDCO						
059673	MIDCO	ELECTRIC FUN	ELECTRIC ADMINIST	Telephone	PHONE/INTERNET	\$128.75
059673	MIDCO	WATER FUND	WATER ADMINISTR	Telephone	PHONE/INTERNET	\$182.78
059673	MIDCO	SEWER FUND	SEWER ADMINISTR	Telephone	INTERNET	\$270.39
						\$581.92
CHECK # 059673 MIDCO						
CHECK # 059674 NEONLINK LLC						
059674	NEONLINK LLC	ELECTRIC FUN	ELECTRIC ADMINIST	Payment Processing E	PAYMENT PROCESSING	\$151.80
059674	NEONLINK LLC	WATER FUND	WATER ADMINISTR	Payment Processing E	PAYMENT PROCESSING	\$75.90
059674	NEONLINK LLC	SEWER FUND	SEWER ADMINISTR	Payment Processing E	PAYMENT PROCESSING	\$75.90
						\$303.60
CHECK # 059674 NEONLINK LLC						
CHECK # 059678 ST CLOUD STATE UNIVERSITY						
059678	ST CLOUD STATE UNIVE	ELECTRIC FUN	ELECTRIC ADMINIST	Meetings, Training, &	YODER TO CLERK & FINANCE	\$92.50
059678	ST CLOUD STATE UNIVE	ELECTRIC FUN	ELECTRIC ADMINIST	Meetings, Training, &	MCFOA ANNUAL CONFERENCE	\$88.74

**CITY OF MORA
CHECK LIST-PUC**

CHECK #	Search Name	Fund Descr	Dept Descr	Last Dim Descr	Comments	Amount
059678	ST CLOUD STATE UNIVE	WATER FUND	WATER ADMINISTR	Meetings, Training, &	YODER TO CLERK & FINANCE	\$46.25
059678	ST CLOUD STATE UNIVE	WATER FUND	WATER ADMINISTR	Meetings, Training, &	MCFOA ANNUAL CONFERENCE	\$44.38
059678	ST CLOUD STATE UNIVE	SEWER FUND	SEWER ADMINISTR	Meetings, Training, &	MCFOA ANNUAL CONFERENCE	\$44.38
059678	ST CLOUD STATE UNIVE	SEWER FUND	SEWER ADMINISTR	Meetings, Training, &	YODER TO CLERK & FINANCE	\$46.25
CHECK # 059678 ST CLOUD STATE UNIVERSITY						\$362.50
CHECK # 059679 STRATEGIC EQUIPMENT						
059679	STRATEGIC EQUIPMENT	ELECTRIC FUN	ELECTRIC ADMINIST	Dues & Subscriptions	CAPITAL PLANNING SOFTWARE	\$600.00
CHECK # 059679 STRATEGIC EQUIPMENT						\$600.00
CHECK # 059680 WILKINSON, JANET						
059680	WILKINSON, JANET	ELECTRIC FUN	ELECTRIC ADMINIST	Energy Conservation	FURNACE FAN MOTOR REBATE	\$50.00
CHECK # 059680 WILKINSON, JANET						\$50.00
CHECK # 059682 BERGSTADT, GARY						
059682	BERGSTADT, GARY	ELECTRIC FUN	ELECTRIC ADMINIST	Meetings, Training, &	MMUA METER SCHOOL MEALS	\$192.17
CHECK # 059682 BERGSTADT, GARY						\$192.17
CHECK # 059684 EAST CENTRAL ENERGY-ELECT						
059684	EAST CENTRAL ENERGY	SEWER FUND	SEWER LIFT STATIO	Electricity	JAN ELECTRICITY	\$150.87
CHECK # 059684 EAST CENTRAL ENERGY-ELECT						\$150.87
CHECK # 059688 MN ENERGY RESOURCES CORP						
059688	MN ENERGY RESOURCE	ELECTRIC FUN	GENERATION & PO	Natural Gas - Heat	JAN NATURAL GAS-BOILER	\$1,447.63
059688	MN ENERGY RESOURCE	ELECTRIC FUN	GENERATION & PO	Generation Exp	JAN NATURAL GAS-GENERATI	\$3,450.02
059688	MN ENERGY RESOURCE	WATER FUND	WATER SUPPLY	Natural Gas - Heat	JAN NATURAL GAS	\$103.55
059688	MN ENERGY RESOURCE	WATER FUND	WATER TREATMENT	Natural Gas - Heat	JAN NATURAL GAS	\$282.58
059688	MN ENERGY RESOURCE	SEWER FUND	WASTEWATER TREA	Natural Gas - Heat	JAN NATURAL GAS	\$1,060.57
CHECK # 059688 MN ENERGY RESOURCES CORP						\$6,344.35
CHECK # 059692 VERIZON WIRELESS						
059692	VERIZON WIRELESS	ELECTRIC FUN	ELECTRIC ADMINIST	Telephone	CELL/IPAD	\$150.40
059692	VERIZON WIRELESS	WATER FUND	WATER ADMINISTR	Telephone	CELL/IPAD	\$53.23
059692	VERIZON WIRELESS	SEWER FUND	SEWER ADMINISTR	Telephone	CELL/IPAD	\$84.25
CHECK # 059692 VERIZON WIRELESS						\$287.88
CHECK # 059693 ACE HARDWARE						
059693	ACE HARDWARE	SEWER FUND	SEWER COLLECTION	Repair/Maint - Bldg &	OVERPAYMENT ON PROPANE/	-\$4.99
059693	ACE HARDWARE	SEWER FUND	WASTEWATER TREA	Repair/Maint - Bldg &	SLIP JOINT & BATTERY	\$9.58
059693	ACE HARDWARE	SEWER FUND	WASTEWATER TREA	Cleaning Supplies	LYSOL	\$6.99
CHECK # 059693 ACE HARDWARE						\$11.58
CHECK # 059696 ARAMARK						
059696	ARAMARK	SEWER FUND	WASTEWATER TREA	Other Operating Suppl	WWTP RUGS	\$213.10
CHECK # 059696 ARAMARK						\$213.10
CHECK # 059697 AUTO VALUE MORA						
059697	AUTO VALUE MORA	ELECTRIC FUN	ELECTRIC DISTRIBU	Truck Expense	LOW BEAM BULB	\$16.99
059697	AUTO VALUE MORA	ELECTRIC FUN	ELECTRIC DISTRIBU	Truck Expense	TRUCK STROBE LIGHT	\$4.99
CHECK # 059697 AUTO VALUE MORA						\$21.98
CHECK # 059698 BORDER STATES ELECTRIC						
059698	BORDER STATES ELECT	ELECTRIC FUN	ELECTRIC DISTRIBU	Line Transformer Exp	XFRMR PAD CORNER GUARDS	\$380.04
059698	BORDER STATES ELECT	ELECTRIC FUN	ELECTRIC DISTRIBU	Maint of Overhead Lin	OH WIRE CLEVIS W/ INSULAT	\$233.88
059698	BORDER STATES ELECT	ELECTRIC FUN	ELECTRIC DISTRIBU	Maint of Underground	URD WIRE TAGS	\$1,743.08
059698	BORDER STATES ELECT	ELECTRIC FUN	ELECTRIC DISTRIBU	Maint of Overhead Lin	OH WIRE SCREWS	\$172.78

CITY OF MORA
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02/16/23 7:39 AM

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CHECK #	Search Name	Fund Descr	Dept Descr	Last Dim Descr	Comments	Amount
CHECK # 059698	BORDER STATES ELECTRIC					\$2,529.78
CHECK # 059700	CINTAS					
059700	CINTAS	ELECTRIC FUN	GENERATION & PO	Other Operating Suppl	MATS, MOPS	\$77.36
CHECK # 059700	CINTAS					\$77.36
CHECK # 059703	EAST CENTRAL ENERGY-ECE SERV					
059703	EAST CENTRAL ENERGY	ELECTRIC FUN	ELECTRIC DISTRIBU	ECE Services	JAN LABOR/EQUIPMENT	\$398.97
059703	EAST CENTRAL ENERGY	ELECTRIC FUN	ELECTRIC DISTRIBU	ECE Services	JAN DISPATCH SERVICES	\$192.69
CHECK # 059703	EAST CENTRAL ENERGY-ECE SERV					\$591.66
CHECK # 059705	FREEDOM MAILING SERVICES INC					
059705	FREEDOM MAILING SER	ELECTRIC FUN	ELECTRIC ADMINIST	Cust UB/Collection	BILL PROCESSING	\$500.38
059705	FREEDOM MAILING SER	WATER FUND	WATER ADMINISTR	Cust UB/Collection	BILL PROCESSING	\$250.19
059705	FREEDOM MAILING SER	SEWER FUND	SEWER ADMINISTR	Cust UB/Collection	BILL PROCESSING	\$250.19
CHECK # 059705	FREEDOM MAILING SERVICES INC					\$1,000.76
CHECK # 059706	GLENS TIRE OPERATIONS INC					
059706	GLENS TIRE OPERATIO	WATER FUND	WATER DISTRIBUTI	Tires	TIRES	\$830.00
CHECK # 059706	GLENS TIRE OPERATIONS INC					\$830.00
CHECK # 059707	GOPHER STATE ONE-CALL INC					
059707	GOPHER STATE ONE-CA	ELECTRIC FUN	ELECTRIC DISTRIBU	Professional Services -	JAN LOCATES	\$2.70
059707	GOPHER STATE ONE-CA	ELECTRIC FUN	ELECTRIC DISTRIBU	Professional Services -	2023 ANN'L FACILITY OPERAT	\$10.00
059707	GOPHER STATE ONE-CA	WATER FUND	WATER DISTRIBUTI	Professional Services -	JAN LOCATES	\$2.70
059707	GOPHER STATE ONE-CA	WATER FUND	WATER DISTRIBUTI	Professional Services -	2023 ANN'L FACILITY OPERAT	\$10.00
059707	GOPHER STATE ONE-CA	SEWER FUND	SEWER COLLECTION	Professional Services -	JAN LOCATES	\$2.70
059707	GOPHER STATE ONE-CA	SEWER FUND	SEWER COLLECTION	Professional Services -	2023 ANN'L FACILITY OPERAT	\$10.00
CHECK # 059707	GOPHER STATE ONE-CALL INC					\$38.10
CHECK # 059708	HAWKINS INC					
059708	HAWKINS INC	WATER FUND	WATER TREATMENT	Chemicals	CHEMICALS	\$4,145.79
CHECK # 059708	HAWKINS INC					\$4,145.79
CHECK # 059709	HOME SERVE USA					
059709	HOME SERVE USA	WATER FUND		Leak Protection Premi	JAN 2023 SERVLIN PREMIUM	\$860.00
059709	HOME SERVE USA	SEWER FUND		Leak Protection Premi	JAN 2023 SERVLIN PREMIUM	\$914.00
CHECK # 059709	HOME SERVE USA					\$1,774.00
CHECK # 059710	IRBY TOOL & SAFETY					
059710	IRBY TOOL & SAFETY	ELECTRIC FUN	ELECTRIC DISTRIBU	Maint of Overhead Lin	OH WIRE & SPLICES	\$1,742.49
CHECK # 059710	IRBY TOOL & SAFETY					\$1,742.49
CHECK # 059711	JEFFS MACHINE & WELDING LLC					
059711	JEFFS MACHINE & WEL	ELECTRIC FUN	GENERATION & PO	Maint of Gen Equip	TUBE FOR #5 OIL FILTER PRO	\$70.96
059711	JEFFS MACHINE & WEL	ELECTRIC FUN	GENERATION & PO	Maint of Gen Equip	#5 OIL FILTER PROJECT - BEN	\$45.00
CHECK # 059711	JEFFS MACHINE & WELDING LLC					\$115.96
CHECK # 059712	JOHNSONS HARDWARE & RENTAL					
059712	JOHNSONS HARDWARE	ELECTRIC FUN	GENERATION & PO	Small Tools & Equipm	BITS, ANCHOR BOLTS FOR PO	\$50.97
059712	JOHNSONS HARDWARE	ELECTRIC FUN	ELECTRIC DISTRIBU	Small Tools & Equipm	TOOL HANGING BAR	\$10.99
059712	JOHNSONS HARDWARE	SEWER FUND	SEWER COLLECTION	Repair/Maint - Bldg &	TRASH BAGS	\$5.99
059712	JOHNSONS HARDWARE	SEWER FUND	WASTEWATER TREA	Repair/Maint - Bldg &	SAMPLE TUBE RPR PARTS	\$37.94
059712	JOHNSONS HARDWARE	SEWER FUND	WASTEWATER TREA	Small Tools & Equipm	SALT SPREADER & SOCKET SE	\$88.47
CHECK # 059712	JOHNSONS HARDWARE & RENTAL					\$194.36

CITY OF MORA
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CHECK #	Search Name	Fund Descr	Dept Descr	Last Dim Descr	Comments	Amount
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059714	KWIK TRIP - GAS PURC	ELECTRIC FUN	ELECTRIC DISTRIBU	Truck Expense	FUEL	\$395.96
059714	KWIK TRIP - GAS PURC	WATER FUND	WATER DISTRIBUTI	Motor Fuels	FUEL	\$162.12
059714	KWIK TRIP - GAS PURC	SEWER FUND	SEWER COLLECTION	Motor Fuels	FUEL	\$699.94
						\$1,258.02
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CHECK # 059715 MCMASTER-CARR SUPPLY CO.						
059715	MCMASTER-CARR SUPP	ELECTRIC FUN	GENERATION & PO	Maint of Gen Equip	#5 OIL FILTER PROJECT PART	\$408.25
						\$408.25
CHECK # 059715 MCMASTER-CARR SUPPLY CO.						
CHECK # 059719 NORTHERN STATES SUPPLY						
059719	NORTHERN STATES SUP	ELECTRIC FUN	ELECTRIC DISTRIBU	Misc Distribution Exp	URD VINYL ELECT TAPE	\$439.53
						\$439.53
CHECK # 059719 NORTHERN STATES SUPPLY						
CHECK # 059720 OXYGEN SERVICE CO, INC						
059720	OXYGEN SERVICE CO, I	ELECTRIC FUN	GENERATION & PO	Landfill Gen Exp	LFG NITROGEN CYLINDER REN	\$13.29
059720	OXYGEN SERVICE CO, I	ELECTRIC FUN	GENERATION & PO	Repair/Maint - Bldg &	OXYGEN CYLINDER RENTAL	\$31.00
059720	OXYGEN SERVICE CO, I	ELECTRIC FUN	ELECTRIC DISTRIBU	Maint of Substation E	SUBST CYLINDER RENTAL	\$53.36
059720	OXYGEN SERVICE CO, I	WATER FUND	WATER DISTRIBUTI	Repair/Maint - Bldg &	CARB DIOX CYLINDER RENTAL	\$17.58
						\$115.23
CHECK # 059720 OXYGEN SERVICE CO, INC						
CHECK # 059721 QUALITY DISPOSAL						
059721	QUALITY DISPOSAL	ELECTRIC FUN	GENERATION & PO	Garbage Removal	GARBAGE	\$86.23
059721	QUALITY DISPOSAL	SEWER FUND	WASTEWATER TREA	Garbage Removal	GARBAGE	\$209.78
						\$296.01
CHECK # 059721 QUALITY DISPOSAL						
CHECK # 059723 RESCO						
059723	RESCO	ELECTRIC FUN	ELECTRIC DISTRIBU	Maint of Overhead Lin	OH WIRE	\$700.61
						\$700.61
CHECK # 059723 RESCO						
CHECK # 059724 RJ MECHANICAL INC						
059724	RJ MECHANICAL INC	ELECTRIC FUN	GENERATION & PO	Maint of Gen Equip	STEEL PIPE FOR #5 OIL FILTE	\$807.07
059724	RJ MECHANICAL INC	SEWER FUND	WASTEWATER TREA	Repair/Maint - Bldg &	DIGESTER VALVE REPLACEME	\$6,600.00
						\$7,407.07
CHECK # 059724 RJ MECHANICAL INC						
CHECK # 059725 RMB ENVIRONMENTAL LABS INC						
059725	RMB ENVIRONMENTAL	WATER FUND	WATER TREATMENT	Professional Services -	LAB TESTING	\$70.79
059725	RMB ENVIRONMENTAL	SEWER FUND	WASTEWATER TREA	Professional Services -	LAB TESTING	\$455.20
						\$525.99
CHECK # 059725 RMB ENVIRONMENTAL LABS INC						
CHECK # 059728 T&R ELECTRIC						
059728	T&R ELECTRIC	ELECTRIC FUN		Distribution Inventory	454 KVA 3-PH PADMOUNT TRA	\$12,190.13
						\$12,190.13
CHECK # 059728 T&R ELECTRIC						
CHECK # 059730 VIKING ELECTRIC SUPPLY						
059730	VIKING ELECTRIC SUPP	ELECTRIC FUN	ELECTRIC DISTRIBU	Maint of Substation E	SUBST INDICATOR LIGHTS	\$176.00
						\$176.00
CHECK # 059730 VIKING ELECTRIC SUPPLY						
						\$484,837.86



MORA MUNICIPAL UTILITIES
PUBLIC UTILITIES COMMISSION CHECK LIST

THE DECEMBER 2022 - FEBRUARY 2023 CLAIMS HAVE BEEN APPROVED FOR PAYMENT BY:

CHAIRMAN

COMMISSION MEMBER

COMMISSION MEMBER

COMMISSION MEMBER

COMMISSION MEMBER

SECRETARY



MEMORANDUM



Date: 2/17/2023
To: Public Utilities Commission
From: Joseph Kohlgraf, Public Works Director
RE: Riley Priebe Probationary period release

ITEM SUMMARY

Release of Riley Priebe probationary period effective February 8th, 2023.

BACKGROUND INFORMATION

Riley Priebe's probation has been met as of February 8th, 2023. He has all the driver related requirements and at this time we are asking for release of the 6-month probation but will continue to monitor his water and wastewater licensure requirements coming due in September of 2023. He is currently at grade 8.5- step A /\$26.98 and will move up to grade 8.5 step B /\$27.66.

OPTIONS & IMPACTS

This step is currently budgeted for this position.

RECOMMENDATIONS

Approve release of Riley Priebe probation to current pay period.

Memorandum

Attachments:



M E M O R A N D U M



Date: 2/17/2023
To: Public Utilities Commission
From: Natasha Segelstrom, Administrative Services Director
RE: Wellness Fund Contribution

ITEM SUMMARY

The PUC will consider a contribution to the Steering Committee’s Wellness Fund.

BACKGROUND INFORMATION

The Steering Committee consists of City and Utility Staff, a PUC Commissioner, and a seat from the City Council. The Committee’s purpose is “To work together to promote workplace wellness and teamwork through employee engagement and to discuss and attempt to resolve issues of mutual concern.” The wellness committee meets the six times per year to discuss employee recognition, staffing updates, and to coordinate wellness activities that encourages healthy habits and an active lifestyle.

In the past, wellness funds have gone towards the employee recognition dinner and wellness activity reimbursements up to \$25.00 per employee such as registration for the Snake River Canoe Race or membership to the Welia Health Center to access the walking track.

RECOMMENDATIONS

Staff requests the PUC considers making a Motion to approve a \$500 contribution to the wellness fund.

Memorandum

Attachments:



MEMORANDUM

Date February 21, 2023
To Public Utilities Commission
From Joseph Kohlgraf- Public Work Director
RE Consideration of hire of Electric Manager

SUMMARY

The PUC will review a recommendation to hire from the PUC Chair and Commissioners, from the February 21, 2023 work session, to fill the advertised position of Electric Manager.

BACKGROUND INFORMATION

A work session was held at 3 pm on February 21, 2023 to interview a candidate for the electric manager position. A recommendation will be considered at the regular meeting to extend an offer of employment to Derrick W. Lass to fill the Electric Manager position, starting salary would be a Grade 13, with the PUC to decide upon an offer of Step F: \$90,938.00 or Step G: \$93,246 of the 2023 Consolidated Salary Schedule; the start date will be Monday, March 13, 2023.

Additional terms, conditions, and employment data may be found on the attached Conditional Offer of Employment Letter.

OPTIONS & IMPACTS

This is a position that has been open for some time and will complement the utilities with additional focus on upcoming projects and future direction for the electric utility. This is a budgeted position.

RECOMMENDATIONS

The PUC will consider the recommendation of the candidate and move forward in the hiring process and a motion will be needed to appoint Derrick W. Lass to the Electric Manger position for the City of Mora/Mora Municipal Utilities, at a pay grade 13, step _____.

Attachments/ Conditional Offer of Employment Letter



MEMORANDUM

Date 2/21/2023
To Public Utilities Commission
From Natasha Segelstrom, Administrative Services Director
RE: MMUA Bovitz Scholarship

SUMMARY

In 2022 Staff brought forward a scholarship opportunity from MMUA for High School Students. Staff has prepared a summary of the Minnesota Municipal Utilities Association Scholarship Opportunity available to high school seniors upon completion of 500–750-word original essay.

BACKGROUND INFORMATION

Minnesota Municipal Utilities Association has budgeted \$5,000 for the Tom Bovitz Memorial Scholarship Award program. The program was created as a public relations tool to increase awareness of public power and creates goodwill for the community and its utility. The scholarship fund has been split into various prizes and will be awarded to essay contest winners who plan to attend a post-secondary educational institution. Local governing body of the municipal utility will review the essay submissions and select one candidate who will then be entered in the MMUA statewide scholarship contest.

OPTIONS & IMPACTS

Forward the Scholarship Program to Mora High School to promote public power and goodwill for utilities. There is no financial impact to MMU, as the scholarship awards are funded from MMUA Tom Bovitz Memorial Scholarship fund. Due to time constraints and PUC review, recommended that all scholarship essays be submitted to City Hall by April 12, 2023, and included in the PUC meeting packet for the April 18, 2022 meeting.

Due to the size of our community, staff will redact the name of applicants during the review and selection process with the Public Utilities Commission. Once the PUC has designated an essay winner, the city will submit the essay to MMUA by April 20, 2023, in which a committee of MMUA staff and members will select the winners. Awarded scholarships will be released mid-May.

RECOMMENDATIONS

Motion to recommend the scholarship promotion with Mora High School and essay submission deadline of 4:00 PM on April 12, 2023.

Attachments

Guidelines of 2023 MMUA Tom Bovitz Memorial Scholarship Award
Scholarship Program for HS



Minnesota Municipal Utilities Association

Tom Bovitz Memorial Scholarship Program

MMUA has budgeted \$5,000 for its Tom Bovitz Memorial Scholarship Award program. This program was created as a public relations tool to increase the awareness of the impact of hometown utilities and create goodwill in your city for your utility. Our fund is split into four prizes and awarded to essay contest winners who plan to attend a post-secondary educational institution.

Please share this letter, along with the guidelines sheet and the entry form, with guidance counselors at your local high schools, both public and private.

Details

Students can submit a 500 to 750 word, typed, double spaced essay reflecting on one or more of the following prompts:

- What is the benefit of a city maintaining local control of its utilities?
- How does your hometown provide reliable, sustainable, and affordable utility service?
- How does your municipal utility make life easier for its customers?

The local governing body of the utility picks a local winner. Every MMUA member may then enter the one local essay contest winner to the state contest. **The deadline for having utilities forward local winners to MMUA is April 20, 2023.** Local deadlines will need to be set earlier, to allow the local governing board (or its designee) time to review the entries.

Many members award their own scholarships locally to encourage participation. A group of MMUA members will select the first, second, third and fourth place winners statewide. MMUA will announce the winners by mid-May.

Students can find resource materials at www.mmua.org, the American Public Power Association website, and often from the local utility.

Please call Christian Glanville at 763-746-0727 if you have any questions.



Guidelines: 2023 MMUA Tom Bovitz Memorial Scholarship Award

Prompt

Write a 500 to 750 word, typed, double spaced essay reflecting on one or more of the following prompts:

- What is the benefit of a city maintaining local control of its utilities?
- How does your hometown provide reliable, sustainable, and affordable utility service?
- How does your municipal utility make life easier for its customers?

Prizes

The scholarship fund is split into \$2,000, \$1,500, \$1,000 and \$500 scholarships, and awarded to essay contest winners who plan to attend a post-secondary educational institution.

Guidelines for submission

Because decisions by judges and disqualifications according to the guidelines are final, entrants should read and follow these guidelines closely:

- Judges will look particularly for originality and the relevance of the prompts to the writer and his/her city.
- High school seniors are eligible. Those eligible must be, or have as a legal guardian, a customer of an MMUA-member municipal electric or gas utility.
- Essays are to be original and from 500 to 750 words, typed and double-spaced.
- All essays should include a cover page, with the writer's name and address.
- **Deadline for submitting essays to MMUA is April 20, 2023.** Entries shall be submitted to the governing body of the municipal utility. The local governing body may appoint a separate individual or group to judge entries. The local governing body will send the winning essay to MMUA for entry into the statewide contest. A committee of MMUA members will select the winners, with an announcement by mid-May.
- An independent person or body may be designated to select the winner of the local essay. If there is an independent body selecting the winner and they do not know who wrote which essay, relatives of utility personnel are eligible to enter the contest.

Payment

Scholarship money will be payable upon receipt of fee statement copy from an accredited post-secondary educational institution. The award check will be made payable to the contest winner and the post-secondary institution. If the contest winner does not attend an accredited post-secondary educational institution within two years, the money will revert to a trust fund and become available to future contest winners.

Capital Improvement Program

City of Mora, Minnesota

MORA0 168345 | February 15, 2023



Building a Better World
for All of Us®

Engineers | Architects | Planners | Scientists



Building a Better World
for All of Us®

February 15, 2023

RE: Capital Improvement Program
City of Mora, Minnesota
SEH No. MORA0 168345 4.00

Honorable Mayor and City Council
City of Mora
101 Lake Street South
Mora, MN 55051

Short Elliott Hendrickson Inc. (SEH®) is pleased to submit this report for the City's Capital Improvement Program.

The information within the report is the compilation of data and information we collected in the field and from City staff. The report presents our findings as well as some potential funding options.

Thank you for the opportunity to provide this service to the City of Mora. If you have any questions, please contact me at 612.720.5883.

Sincerely,

A handwritten signature in black ink, appearing to read "Greg F. Anderson".

Greg F. Anderson, PE
City Engineer
(Lic. MN)

ah

x:\ko\m\mora0\168345\4-prelim-dsgn-rpts\cip report\cip rpt.docx

Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 3535 Vadnais Center Drive, St. Paul, MN 55110-3507

651.490.2000 | 800.325.2055 | 888.908.8166 fax | sehinc.com

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Capital Improvement Program

City of Mora, Minnesota

SEH No. MORA0 168345

December 15, 2022

I hereby certify that this report was prepared by me or under my direct supervision, and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.



Greg F. Anderson, PE

Date: February 15, 2023

License No.: 26859

Reviewed By: Zach Schmitz

Date: February 15, 2023

Short Elliott Hendrickson Inc.
3535 Vadnais Center Drive
St. Paul, MN 55110-3507
651.490.2000



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Title Page
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- Appendix A Rating System

Capital Improvement Program

Prepared for City of Mora, Minnesota

1 Purpose of A Capital Improvement Program

A Capital Improvement Program is a comprehensive document whose purpose is to list major improvements necessary and desirable to meet the needs of the community over the near future. The program is established through the compiling of project needs and requests by the various Departments, Commissions, and the City Council. The Capital Improvement Program is a valuable tool which City officials can use to rank the priority of public improvement projects and determine the level and method of financing required each year to support these projects.

The objectives of a Capital Improvements Program are to:

- Anticipate major capital improvements so that large expenditures can be budgeted over a period of several years.
- Develop a realistic list of needs which relate to the ability to finance improvements, thereby minimizing the impact on tax rates.
- Implement the goals and objectives contained in the comprehensive plan.
- Enable proper scheduling of various projects and improvements, thereby allowing adequate time for detailed design and engineering of the projects, preparation of environmental impact statements, processing of grant applications, and exploring alternative methods of financing.
- Provide an opportunity for sound coordination between City departments, various units of special and general local government, and public utilities.
- Enable the local officials to focus their attention on the needs of the entire community, and to put in perspective, pressures from special interest groups, and proponents of special projects.
- Enable the local officials to forecast and anticipate needed maintenance projects so that the public's investment in the infrastructure can be preserved.

The Capital Improvement Program includes major expenditures of public funds, beyond maintenance and operating costs, for the construction of a needed physical facility or projects. Salaries, supplies, equipment, and other overhead expenditures are considered maintenance and operational costs and are provided for in the annual budget.

2 Capital Improvement Fiscal Policy

2.1 General Policy

Mora Capital Improvement Program (CIP) reflects an assessment of the community's needs and its' ability to pay for major improvements. It is founded on the policy that reinvestment required for replacement, maintenance, or the increased efficiency of existing systems, shall have priority over investments for expansion of existing systems or the provision of new services when utilizing general obligation funding sources. The extension of new services and/or improvements shall be funded from revenues generated through impact or dedication fees.

2.2 Funding Priorities

Capital spending proposals will generally be funded on the following priority basis:

- Those projects necessary for contributing to the public health, safety and welfare.
- Those projects which will help to maintain an existing system.
- Those projects that will make an existing system more efficient.
- Those projects representing the expansion of an existing system for new service or completely new public facility or service.

2.3 Funding Principles

As a result, the following principles should govern the implementation of the recommended Capital Improvements Program:

- The City will attempt to make all capital improvements in accordance with the adopted Capital Improvements Program.
- The City will develop a multi-year plan for Capital Improvements and update it annually.
- The City will coordinate development of the Capital Improvement Program with development of the annual operating budget. Future operating costs associated with new capital improvements will be projected and included in operating budget forecasts.
- The City will maintain all its capital assets at a level adequate to protect the City's investment and to minimize future maintenance and replacement costs.
- The City will identify the estimated costs and potential funding sources for each capital project proposal before it is submitted to council for approval.
- The City will consider the life cycle costs and utilize the most feasible method for all capital projects.

3 Project Financing Policy

3.1 Introduction

It has been and will continue to be the policy of the City Council that when public improvements are made, which are of special benefit to certain areas, special assessments will be levied for the benefits received. The procedures used by the City are those specified by Minnesota Statutes, Chapter 429, which provide that all, or a part of the cost of the improvements, may be assessed against benefiting properties in accordance with the benefits received. The statute, however, does not provide a guide as to how these benefits are measured or how the costs are to be apportioned. It is recommended that the City adopt a formal assessment policy. Previous

projects have been assessed in similar methods, but an adopted policy will establish a consistent standard for the apportionment of special assessments.

3.2 Types Of Improvements

This policy shall relate to those public improvements allowable under Minnesota Statute 429. Generally, the improvements include: street and street lighting improvements; sanitary and water utility improvements; and storm sewer and drainage improvements.

This policy would outline how new construction, reconstruction, and major maintenance shall be financed under each type of project.

Project costs shall include: the construction costs; engineering; testing; permitting; legal; administrative; land or easement acquisition; fiscal; capitalized interest; data processing and publication fees.

3.3 Special Assessment Methods

Without an adopted assessment policy, benefiting properties generally are assessed based on the City of Mora's past assessment practices. It is recommended the City adopt a formal assessment policy to use moving forward.

3.4 Financing Options

The City of Mora has various methods and options for financing necessary road improvements. Improvements can be financed by using existing funds or reserves, by additional property taxation, by special assessments or by the establishment of a road reconstruction program.

To pay for roadway improvements the most common method employed by cities is bonding. Listed below are some typical revenue sources.

- General property taxes
- Special Property tax assessments to benefiting property (as discussed above).
- Utility rates which include capital improvement components for maintenance and replacement and improvements.

3.5 Street Reconstruction Bonds

An alternative to typical revenue sources is street reconstruction bonds

In 2002, the Legislature made a variety of changes in the powers of local governments to issue bonds and incur other forms of debt. A new subdivision 3b was added to Minnesota Statutes, Section 475.58 authorizing municipalities to issue bonds without a referendum under street reconstruction programs. Granting municipalities, the authority to issue bonds under Minnesota Statutes, Chapter 475 for street reconstruction without regard to election requirements provides the city with the opportunity of financing this type of improvement without having to specially assess at least 20% of the project costs.

The law authorizes issuance of debt obligations without an election for reconstruction of streets if the bonds are issued under a 5-year street reconstruction plan.

To qualify for the referendum exemption, the following qualifications must be met:

- The city council must approve the street reconstruction plan unanimously after a public hearing. The public hearing notice must be published in the official newspaper at least 10 days but not more than 28 days prior to the hearing.
- The plan must include the following:
 - The streets to be reconstructed
 - The estimated costs
 - Any planned reconstruction of other streets in the municipality over the next five years.
- Approval of the bond issuance must be made by a unanimous vote of the City Council.
- Issuance of the bonds is subject to referendum approval, if a petition signed by voters equal to 5% of the voters in the last general election is filed with the municipal clerk within 30 days of the public hearing.

Because these types of bonds are subject to the debt limits, even if they would be exempt under another law (e.g., because they were payable from special assessments) we recommend that the City consult their Financial Advisor, Bond Counsel, and City Attorney for analysis before contemplating or issuing this type of debt. The City of Mora has used Street Reconstruction Bonds in the past to fund street projects.

4 Existing Conditions

Information regarding the City's underground water, sanitary sewer, and storm sewer was gathered from City staff, City records, and as built plans. Areas proposed for utility reconstruction were determined from the condition, age, and history of the utility. The areas for proposed reconstruction were considered along with the pavement rating of the street to rank improvement projects. Utility reconstruction should be continually considered during pavement management projects.

4.1 Pavement Rating

To rate the condition of the roadways the Asphalt PASER Manual was used. PASER was developed to help assist municipalities with rating the condition of asphalt pavement. The manual provides a system that rates the pavement on a one to ten scale. Each rating has appropriate management and maintenance measures. Figure 1 shows the pavement rating assigned to each section of street within the City.

For consistency purposes, the same SEH staff person performed all the street ratings. Ratings were performed on City maintained streets only. If roadways within the city limits are private, Mn/DOT, or Kanabec County roads, they are noted as such in the street rating spread sheet in Table 1.

Curb and gutter was rated on a one to three scale. A rating of three represents curb and gutter which is functioning properly with no major drainage problems. A two rating represents curb and gutter that has a few minor problems and may need spot repair. A one rating represents curb and gutter that is failing or near failure and major repair may be needed.

The City has been working on a sidewalk/trail plan for areas to "fill-in", extensions or replacements. Existing trail locations as well as proposed trail locations are shown on Figure 2.

When sidewalk project areas matched proposed street projects, those sidewalk improvement costs were included in the total project costs for found in Table 2 for each proposed project identified by this plan.

Appendix A shows the basis and typical pavement conditions associated with the PASER rating system. Table 1 and Figure 1 show the inventory and rating of the City's roadway and curb and gutter.

4.2 Sanitary Sewer

The Sanitary Sewer map book pages at the end of this report show the City's existing sanitary sewer system. To rate and evaluate the existing sanitary sewer system we reviewed the following conditions:

- The physical condition of the pipes.
- The capacity of the mains
- The pipe material and age (if known); and
- Known issues with the pipe by public works (i.e., frequent back-ups, known root issues, areas unable to clean/jet)

As a rule, areas with known Vitrified Clay Pipe (VCP) were included in replacement when the overlaying street pavement was found to need replacement. Through discussion with city staff areas that were of special concern such as cleaning issues/history of back-ups/etc. were noted as areas of concern on the map books. Those areas were given more attention with respect to ranking project for order of completion. The areas of concern are highlighted on the sanitary sewer map books.

When those areas corresponded with poor street pavement, those streets were included as a reconstruction project. Areas of concern that are either under streets with good pavement, not under City maintained streets or areas that are difficult to replace via open trench methods, we have prepared a list of sanitary sewer mains that could be considered for a slip lining or other trenchless repair option. Those project areas are listed below:

1. The 18-inch RCP trunk main that runs from the west ditch of TH 65 to 9th Street along the north side of Mora Lake.
2. Villa Ave from the cul-de-sac to the Birch Street ROW, then south to 4th Street.
3. The north end of Woodland Street from Fair Avenue to north cul-de-sac.
4. The existing sanitary sewer main in the Railroad Corridor from Walnut Street to Vine Street.
5. The existing sanitary sewer main in the fairgrounds.

4.3 Water System

The Water Main map books at the end of this report show the City's existing water distribution system. The existing condition of water supply, treatment, distribution, and storage facilities have been considered in this analysis. These factors were the basis for recommended capital improvements.

4.3.1 Recommended Improvements

Available fire flow rates are variable throughout the Mora distribution system. Flow will tend to be robust where static pressures are higher and large looped water mains are located nearby. In addition, proximity to water storage facilities will have a positive impact on available flow. Portions of the city with low pressures, and on dead-end or small diameter mains, will have lower fire flow availability.

By current design standards, water mains that are used for fire protection should be no smaller than 6-inches in diameter, and no smaller than 8 inches on a dead end. In general, dead-ends should be kept to a minimum. Mora currently has several 4-inch mains throughout the older parts of the water system. Low fire flow availability in these areas is an example of the effects of dead-ends and small main sizes. The City has plans to replace these mains over time in conjunction with street repairs. There are additional plans to complete loops in the water system. These system upgrades will continue to improve fire flow.

Based on the model and discussions with public work staff and the fire chief, a list of upgrades was prepared and shown in Water Main map book as well as listed below:

- Loop watermain from Sunset Lane to Villa Drive to eliminate 2 dead-ends.
- Loop water main in West Central Avenue out to West Maple Avenue, then back south to 3rd Street to improve water quality on West Central Avenue.
- Loop watermain in Locust Street between Forest Avenue and Grove Street to eliminate individual services lines that currently run down to Forest Avenue for the Locust Steet homes.
- Loop watermain in Fair Avenue between McLean Street and Park Street to improve looping in this area of the City.
- Loop water main in existing easement between West Forest Avenue and Bean Avenue to eliminate the West Forest dead-end main and provide better looping on the Bean Avenue main.
- Loop water main in Commercial Place between Little Ranches Road and Rowland Road to eliminate 2 dead ends.

4.4 Storm Sewer System

The City's existing storm sewer system is shown on the Storm Sewer map book pages at the end of this report. For the identified street reconstruction areas, storm sewer quantities and costs consistent with urban street design were included as needed in the costs prepared for the identified street improvement projects based on the pavement ratings.

The City does have a storm water utility in place that has been used to help fund drainage/storm sewer improvements included in street reconstruction projects as well as standalone drainage projects. It is recommended that the City regularly review the utility amount to make sure it provides the needed funds to address their drainage needs.

4.4.1 Cemetery Outlet Pipe

A standalone storm water/drainage project identified during the 7th Street Project in 2012 was an outlet pipe for the storm water pond created at the north end of Oakwood Cemetery as part of the 7th Street Project. This project location is shown on page 1 of the Storm Sewer map books. The outlet pipe was included as a bid alternate on the 7th Street project, but not awarded due to the need for a permanent easement from the property owner west of the cemetery to allow the outlet

pipe to reach the Snake River. To date the pond in the cemetery has not impacted much of the cemetery, but a significant amount of drainage from the new high school and associated parking lots and internal roads ultimately flows to the cemetery pond. The City should monitor the cemetery pond level and budget for the outlet pipe project to be completed prior to the cemetery pond impacting cemetery lots or the Veteran's Memorial. The estimated cost of the Cemetery Outlet Pipe is \$320,000.

5 Analysis

5.1 Pavement Management Options

There are five different pavement management techniques typically considered to maintain and/or improve existing pavement conditions. The City of Mora regularly uses each of these techniques to maintain their pavement system. The five techniques are:

- Crack Sealing,
- Seal Coat,
- Crack Sealing and Seal Coat,
- Overlay, and
- Reconstruction.

Many factors were considered including condition (PASER rating) of the existing pavement, the existing stormwater system within the street section, and the condition of the sanitary sewer and/or water mains under the street section in determining the appropriate pavement management technique.

5.1.1 Crack Sealing

Crack sealing consists of injecting hot pour rubber into joints and cracks in the bituminous pavement. Sealing cracks prevents water and salts from penetrating the bituminous mat and aggregate base. Preventing water and salts penetration will extend the life of the roadway. Crack sealing is recommended on roadways with longitudinal and traverse cracking. Crack sealing is not recommended on roadways with block cracking and alligator cracking. The City currently has a crack sealing program and we recommend that be continued.

5.1.2 Seal Coat

Seal coating is a thin bituminous surface followed by cover aggregate used to protect existing bituminous surfaces. The seal coat resists water seepage, salts, and wear from exposure to the sun, thus extending life of pavement. Seal coating also increases the esthetic properties of the pavement. Seal coating is not a solution to excessively cracking or structurally failing pavement. Seal coating is generally recommended to occur within 5-8 years of construction/reconstruction of the street pavement.

5.1.3 Crack Sealing and Seal Coat

This method combines the activities described above into a project using both techniques. This method is recommended when the combination will address existing cracks while preserving the existing bituminous surface with a seal coat.

City Public Work staff is currently working on a seal coating schedule. SEH will work with Public Works to develop a schedule of streets from this report that should be considered for crack sealing and/or seal coating to extend the useful life of the pavement. Streets candidates for crack sealing and seal coating are streets that are generally in the 6 to 8 range on the PACER table and do not have utility or stormwater issues to address.

5.1.4 Overlay

Overlay management technique consists of overlaying the existing roadway with typically a 2-inch bituminous surface. Overlaying will create a new smooth sealed surface. Overlaying will increase the structural integrity of the roadway and smooth out rutting and potholes in the roadway. Overlay will typically provide a useful life of 5 to 15 years based on existing conditions and future maintenance.

Candidates for a mill and overlay project are streets that are generally in the 4-6 rating range on the PACER table and do not have significant utility or stormwater issues to address.

5.1.5 Street Reconstruction

Reconstruction consists of complete reconstruction of the roadway. The proposed reconstruction includes a 7 to 9 ton pavement section, generally a 32-foot-wide roadway, with new concrete curb & gutter, driveway aprons, and sidewalks (as dictated by the City's sidewalk plan). The new street section generally will include 4-inch bituminous street with 8-inch crushed aggregate base. New curb and gutter will be Mn/DOT B-618. Reconstruction of the street will provide a useful life of 25+ years with proper maintenance. This reconstruction represents the typical residential roadway with no major heavy traffic.

Candidates for a full reconstruction are generally scored 3 or less on the PACER table. When considering a full pavement reconstruction, the condition of the existing sanitary sewer, water mains, and storm sewers should be reviewed. Utilities needing to be addressed or added to the street should be completed as part of the full reconstruction. This minimizes future disruption of the new pavement surface.

5.2 Major Reconstruction Projects

Combining all the findings from pavement, sanitary sewer, water main, and storm sewer condition reviews the following projects were identified and are listed according to their priority. Figure 2 shows these project areas and Table 1 at the back of this report provides the detailed corresponding costs of each proposed project area. Table 5-1 below is a summary of the projects listed in their suggested priority order and their estimated total cost:

Table 5-1 – Project List

Project	Estimated Total Project Cost
West Maple Avenue/Lake Outlet Pipe	\$1,100,000
West Forest Ave	\$2,000,000
4 th & Cedar Street Area	\$2,500,000
North Wood Street	\$2,700,000
2 nd , 3 rd and Evergreen Streets	\$1,700,000

Project	Estimated Total Project Cost
Railroad Avenue Area	\$3,000,000
Fair Avenue	\$1,500,000
Bean Avenue	\$800,000
Summit & Acorn Lanes	\$2,500,000
Portage Avenue	\$1,900,000
Morrison Street	\$2,400,000
Watkins Street	\$3,000,000
McLean Street	\$3,100,000
Dion Avenue	\$1,000,000
Edwards Avenue	\$900,000
West Central Avenue	\$1,500,000
Edgewood Lane	\$1,050,000
Clark Street	\$2,000,000
Division Street & Frankie Lane	\$2,600,000
Lake & Vine Streets	\$3,000,000
Little Ranches Rd, Commercial Place, Rowland Road	\$900,000
Complete Industrial Park Road & Utilities	\$1,100,000
Total	\$42,250,000

5.2.1 W. Maple Avenue (Union Street to Grove Street) & Lake Outlet Pipe

This project includes the reconstruction of W. Maple Avenue from Union Street to Grove Street. Also included in this project is the proposed outlet pipe for Mora Lake. This project would be in conjunction with Kanabec County. Maple Avenue from Union Street to the Snake River is CSAH 6 and is owned and maintained by Kanabec County. The project is shown on Figure 2.

The street reconstruction portion of this project would be led and funded by Kanabec County. It would be advantageous for the City to include the replacement of the water main and sanitary sewer along with services as part of the County Project. Also included in this project is a 36-inch outlet pipe from Mora Lake to the pond next to the public works facility, just west of Grove Street. The storm sewer improvements to capture and convey the street runoff on this section of Maple Avenue would also be part of the County Project.

5.2.2 West Forest Avenue (Grove Street to west end)

This project includes the reconstruction of W. Forest Avenue from Grove Street, west down the hill to the west end near the Kanabec County History Center. Locust Street is also included in this project. The project is shown on Figure 2. Also included in this project is a water main extension in Locust Street with the replacement of the Locust Street pavement. W. Forest Avenue had a pavement rating in this area of 3 or 4 on a scale of 1 to 10. Locust Street pavement was also rated at a 3.

Public works staff identified this area as having sanitary sewer issues due to the existing clay pipe with offset joints and numerous cracked pipe sections. The existing water main in Forest Avenue is a 6-inch Cast Iron Pipe (CIP) that has experienced several water main breaks in recent winters and is need of replacement.

There currently is no storm sewer in Forest Avenue. Drainage and rainfall flow overland out to the Forest Avenue & Grove Street Intersection on the east end. From Locust Street to the west, the drainage and rainfall flows overland down the hill to the very end of the street. New storm sewer inlets and pipe would be added on the west end to collect the runoff prior to the end of the street and better direct it off the street. Relying too much on overland flow for drainage can lead to standing water in some areas as well as washouts at the end of the street during heavy rain events. Standing water on the street can hinder traffic as well as lead to pavement deterioration.

The looping of water main in Locust Street is suggested to be included with this project. A stub into Locust Street was installed off of Grove Street as part of the Grove Street Project in 2022. Public works also recommended a water main loop between Forest Avenue and Bean Avenue in an existing drainage & utility easement. This loop would help with water quality and pressure in this portion of the City.

The estimated cost for this project is \$1,680,000 for the street project, \$190,000 for the water main loop in Locust Street, and \$130,000 for the water main loop between Forest and Bean Avenues for a total project cost of \$2,000,000.

5.2.3 4th Street & Cedar Street

This project includes the reconstruction of 4th Street, east of Wood Street N., Cedar Street north of 4th Street as well as 1st and 2nd Streets between Grove Street and Park Street. The block of Park Street between 1st and 2nd Streets north of Library Park is also included. The project is shown on Figure 2. Most of the streets included in this project area had a pavement rating of 3 or 4, with two blocks rating a 6 on a scale of 1 to 10.

Public works staff identified the 4th and Cedar Streets as having sanitary sewer issues due to the existing clay pipe with offset joints and numerous cracked pipe sections. The existing water main in the project area is a 4-inch CIP that has experienced several water main breaks in recent winters and is in need of replacement. The water main in Cedar Street is not looped nor is the water main in the 1st St, Park St, 2nd St loop north of Library Park.

Currently 4th and Cedar Streets do not have curb and gutter. The only storm sewer in these streets is a culvert at the intersection of the two streets that drainage towards Mora Lake. The drainage in the rest of the project streets is overland flow with a set of catch basins and an outlet to Mora Lake in the intersection of Park Street and 2nd Street.

This project would be a full street and utility reconstruction project. The blocks of 1st and 2nd Streets between Grove and Wood could be pavement only projects. The estimated total cost for this entire project is \$2,500,000.

5.2.4 North Wood Street

This project includes the reconstruction of North Wood Street from Maple Avenue to 7th Street. This project has been discussed as part of the bike trail grant request into MnDOT. The pavement is in good shape as it was overlaid in 2021 in anticipation of the Grove Street Project in 2022 and the new high school opening in 2023 leading to increased traffic on Wood Street. The project is shown on Figure 2. Most of Wood Street rated an 8 with the block along Library Park rating as a 6 on a scale of 1 to 10.

Wood Street jogs in the existing right-of-way (ROW) between 4th and 7th Streets. The east side of Wood Street is very close to being out of the ROW on the north end. This can be seen as it does not line up with the section of Wood Street north of 7th Street. If the City moves ahead with the bike trail project, the west curb line of wood Street will need to be replaced and this section of Wood Street will need to be shifted to be centered in the ROW. Public works has also noted concerns with the street pavement and storm sewer along Mora Lake.

Public works staff identified the Wood Street sanitary sewer main with numerous issues due to the existing clay pipe with offset joints, flat sections, and numerous cracked pipe sections. The existing water main in the project area is a 6-inch CIP. It has not had that has experienced significant water main breaks, but since it is CIP it is recommended to replace it as part of the street project. The water main in Cedar Street is not looped nor is the water main in the 1st St, Park St, 2nd St loop north of Library Park.

Currently the only storm sewer in Wood Street is catch basins and an outlet to Mora Lake just north of 2nd Street. Most of the drainage flows overland on Wood Street to either the storm sewer at 2nd Street or to the north or south end where storm sewer exists in 7th Street and Maple Avenue.

This project would be a full street and utility reconstruction project. In addition to the jog in the ROW, Wood Street has blocks of varying width. The estimated total cost for this entire project is \$2,700,000. This cost includes the cost for a 10-foot bike trail. Should the City receive MnDOT funding for the bike trail, that would be in the amount of \$360,000 and would be available in 2027/2028 for use.

5.2.5 2nd, 3rd, and Evergreen Streets

This project includes the reconstruction of 3rd Street from Maple Avenue (CSAH 6) to Grove Street. 2nd Street from Maple Avenue to Evergreen Street and Evergreen Street. The project is shown on Figure 2. The project streets in this area rated from 3 to 5 on a scale of 1 to 10.

Public works staff identified 3rd and 2nd Streets as having sanitary sewer issues due to the existing clay pipe with offset joints and numerous cracked pipe sections. The existing water main in the project area believed to be a 6-inch CIP. While this water main has not been noted to have issues with water main breaks since it is CIP it is recommended to replace it as part of the street project.

Evergreen Street has an existing storm sewer system that collects drainage from 3rd Street as well as 2nd Street and conveys it to the north ditch of Maple Avenue near the DNR building where the water flows to the existing pond east of the DNR building. The storm sewer system runs through the existing easement on the section of Evergreen Street between 2nd and 3rd Streets that was removed. There are no known issues with the storm sewer system.

This project would be a full street & utility reconstruction project. The estimated total project cost is \$1,700,000.

5.2.6 Railroad Avenue Area

This project includes Railroad Avenue from Grove Street to Vine Street. Between Park Street and Lake Street, Railroad Avenue has a north and south section. Also included in this project is

the section of Wood Street between Maple Avenue and Forest Avenue. The project is shown on Figure 2. The project streets in this area rated from 5 to 7 on a scale of 1 to 10.

This section of Railroad Avenue does not have sanitary sewer or water running its entire length. There is some sanitary sewer in north Railroad Avenue between Union and Vine Streets and in the block between Grove and Wood Streets. Public works did note root issues in the sanitary sewer between Grove and Wood Streets as this main is clay pipe where root intrusion is a common issue. The real impetus of this project is the existing storm sewer under north and south Railroad Avenue. It is significantly undersized for the drainage area it serves.

A drainage study completed for the City in 2018 identified this storm sewer system as being significantly undersized. During significant rain events this system becomes backed up causing storm water to run overland from the area near city hall and the north end of Union Street, south toward the Paradise Theater, sometimes entering the theater, then west on Hersey Avenue towards Grove Street where it contributes to the street ponding on South Grove Street near Bean Avenue. A new storm sewer system in the Railroad Avenue corridor along with upsizing the storm sewer outlets in Lake and Vine Streets at Mora Lake will alleviate these flooding issues.

This project would be a full street reconstruction with a new storm sewer system. This project might be an opportunity to make boulevard improvements in the downtown area as there currently is a green space and parking areas along Railroad Avenue between Park and Lake Streets. The estimated total project cost is \$3,000,000.

5.2.7 Fair Avenue

This project includes the reconstruction of Fair Avenue from Park Street to Clark Street. The project is shown on Figure 2. The street pavement in these sections of Fair Avenue rated a 5 or 6 on a scale of 1 to 10.

The only block of Fair Avenue in the project area with sanitary sewer is between Park and Union Streets. This section of sewer main is likely clay. In the rest of the project area the sanitary sewer crosses Fair Avenue at the cross streets. Public works did identify a new water main in Fair Avenue to improve looping for maintenance, reliability and fire protection in this portion of the City. A new 8-inch water main would be installed from Clark Street to Park Street to provide the desired looping.

Fair Avenue has storm sewer in the east and west block of the project area. The rest of the project area relies on overland flow to convey drainage to the nearest storm sewer system. The existing storm sewer sections in Fair Avenue will likely be replaced as part of the project.

This project would be a full street reconstruction with a new water main and storm sewer. The sanitary sewer will also be replaced as part of the project. The estimated total project cost for this project is \$1,500,000.

5.2.8 Bean Avenue

This project includes the reconstruction of Bean Avenue from Grove Street to the west end near the Kanabec County History Center. The project is shown on Figure 2. The street pavement in these sections of Bean Avenue rated a 6 on a scale of 1 to 10.

According to public works the existing sanitary sewer main in Bean Avenue is Poly Vinyl Chloride (PVC). That would not need to be replaced. With the sanitary sewer being PVC, we would anticipate the water main to be Ductile Iron Pipe (DIP) which also would not need to be replaced unless there are known issues which we are not aware of. The impetus of this project is storm sewer.

As mentioned in the Railroad Avenue Project discussion, the low point in Grove Street South, just south of the Bean Avenue intersection experiences street flooding on significant rain events. Bean Avenue only has storm sewer currently at the intersection with Riverside Street and at the west end near the history center parking lot. This project would install a new storm sewer main from near Grove Street all the way to the west end of Bean Avenue. A new outlet/discharge structure would be installed near the history center and a connection to the existing storm sewer main in Grove Street would be included in the project.

This project would be a full street reconstruction with new storm sewer. The existing sanitary sewer and water main would remain in place unless conflicts with the new storm sewer or issues were found in the field. The estimated total project cost for this project is \$800,000.

5.2.9 Summit and Acorn Lanes

This project includes the reconstruction of Summit and Acorn Lanes between Portage Avenue and Carol Avenue. Also included in the project is Carol Avenue between Summit Lane and the Frontage Road. The project is shown on Figure 2. The street pavement on the sections these project streets rated a 6 on a scale of 1 to 10.

The sanitary sewer main and water main pipe materials in this area are not known. Public works did note there are no known issues with those mains.

Due to the topography of the project area, most of the drainage is conveyed overland to either the existing storm sewer system in Portage Avenue or the existing catch basins and outlet to the MnDOT ditch near the Dairy Queen off of Carol Avenue.

This project would be a full street and utility reconstruction project. The estimated total project cost for this project is \$2,500,000.

5.2.10 Portage Avenue

This project includes the reconstruction of Portage Avenue from Howe Avenue to the Frontage Road near Mora Chevrolet. The project is shown on Figure 2. The street pavement on these sections of Portage Avenue rated a 4 or 5 on a scale of 1 to 10. Portage Avenue received a significant amount of traffic due to its proximity to Coborn's Grocery Store and access to TH 65.

While the pipe material type for the sanitary sewer and water mains is not known for sure, given the age of the street it is anticipated that they are clay and CIP respectively. Therefore it is anticipated that they would be replaced as part of this project.

Portage Avenue has a storm sewer system between Summit Lane and Frankie Lane. This system carries a significant amount of drainage given the topography of the neighborhood making Portage the low point. The storm sewer system would be replaced as part of this project.

This project would be a full street and utility reconstruction project. The estimated total project cost for this project is \$1,900,000.

5.2.11 McLean Street

This project includes the reconstruction of McLean Street from Howe Avenue to the Frontage Road near Kwik Trip. The project is shown on Figure 2. The street pavement on these sections of McLean Street rated from 4 to 6 on a scale of 1 to 10. McLean Avenue received a significant amount of traffic due to its proximity to Kwik Trip and access to TH 65.

Public works staff identified the McLean Street sanitary sewer main with numerous issues due to the existing clay pipe with offset joints, flat sections, and numerous cracked pipe sections. The existing water main in the project area is 4-inch and 6-inch CIP. Public works did not note that this main has experienced significant water main breaks, but since it is CIP, it is recommended to replace it as part of the street project.

McLean Street has storm sewer at the intersections of all the side streets in the project area. There is a storm sewer main in the block between Dion and Fair Avenues. The storm sewer mains in McLean Street will be replaced as part of the project.

This project would be a full street and utility reconstruction project. The estimated total project cost for this project is \$2,400,000.

5.2.12 Watkins Street

This project includes the reconstruction of Watkins Street from Howe Avenue to the Ford Street near Kwik Trip. Also included in this project is Howe Avenue between Union Street and McLean Street as well as the block of Lake Street between Howe Avenue and Forest Avenue. The project is shown on Figure 2. The street pavement on these street sections rated from 4 to 7 on a scale of 1 to 10.

Public works staff identified the Watkins Street sanitary sewer main with numerous issues due to the existing clay pipe with offset joints, flat sections, and numerous cracked pipe sections. The existing water main in the project area is 4-inch and 6-inch CIP. Public works did not note that this main has experienced significant water main breaks, but since it is CIP, it is recommended to replace it as part of the street project.

Watkins Street has storm sewer at the intersections with most of the side streets in the project area. There is a storm sewer main in the blocks between Howe and Dion Avenues. The block of Lake Street also has storm sewer that drains a portion of Forest Avenue. In the intersection of Watkins and Dion, there are two options for the downstream discharge. The storm sewer mains in Watkins Street will be replaced as part of the project and some rerouting of the storm sewer will be addressed as part of the project.

This project would be a full street and utility reconstruction project. The estimated total project cost for this project is \$3,000,000.

5.2.13 Morrison Street

This project includes the reconstruction of Morrison Street from Howe Avenue to the Frontage Road. Also included in this project is Howe Avenue between Clark Street and McLean Street as well as the block of Vine Street between Howe Avenue and Forest Avenue. The project is shown on Figure 2. The street pavement on these sections rated from 4 to 6 on a scale of 1 to 10. The south block of Morrison Street from Fair Avenue to the Frontage Road is gravel. One of the few gravel roads left in the City.

Public works staff identified the Morrison Street sanitary sewer main with numerous issues due to the existing clay pipe with offset joints, flat sections, and numerous cracked pipe sections. The existing water main in the project area is 4-inch and 6-inch CIP. Public works did not note that this main has experienced significant water main breaks, but since it is CIP, it is recommended to replace it as part of the street project.

Morrison Street has storm sewer at the intersections of all the side streets in the project area. There is a storm sewer main in the block between Dion and Fair Avenues. The gravel section of Morrison Street, south of Fair Avenue, still has ditches that will need to be addressed as part of the project. The storm sewer mains in rest of Morrison Street will be replaced as part of the project.

This project would be a full street and utility reconstruction project. The estimated total project cost for this project is \$3,100,000.

5.2.14 Dion Street

This project includes the reconstruction of Dion Street from Clark Street to Union Street. The project is shown on Figure 2. The street pavement on these sections of Dion Street rated mostly a 4 with one block rating a 6 on a scale of 1 to 10.

Public works staff identified the Dion Street sanitary sewer main with numerous issues due to the existing clay pipe with offset joints, tree roots, flat sections, and numerous cracked pipe sections. There is not existing water main in Dion Street. The water main crossing Dion Street at the cross streets. With the proposed water main extension in Fair Avenue, there wouldn't appear to be a need for the extension of water main in Dion Street.

Dion Street has an existing storm sewer system in all blocks of the project area. The Dion Street storm sewer provides drainage for portions of Morrison and Clark Streets due to the topography of the neighborhood. The connection of the Dion Street storm sewer with the storm sewer in Watkins Street was discussed under the Watkins Street Project section. Since the Dion Street storm sewer drains to the Watkins storm sewer, it makes sense to complete the Watkins Street project prior to Dion Street. The storm sewer system in Dion Street will be replaced as part of the project.

This project would be a full street and utility reconstruction project. The estimated total project cost for this project is \$1,000,000.

5.2.15 Edwards Avenue

This project includes the reconstruction of Edwards Avenue from Clark Street to Union Street. The project is shown on Figure 2. The street pavement on these sections of Edwards Avenue rated from 4 to 7 on a scale of 1 to 10.

Edwards Avenue does not have sanitary sewer main in it. The sanitary sewer mains cross Edwards Avenue at the side streets. There is water main in Edwards Avenue between McLean and Union Streets. While public works did not note specific issues with this water main, given the age of this water main, it is recommended that this water main be replaced as part of the project. With existing water main in Howe Avenue one block north, there wouldn't appear to be a need for the extension of water main in Dion Street between McLean Street and Clark Street.

Watkins Avenue has an existing storm sewer system in all blocks of the project area. The Watkins Avenue storm sewer provides drainage for portions of Morrison and Clark Streets due to the topography of the neighborhood. The connection of the Edwards Avenue storm sewer with the storm sewer in Watkins Street was discussed under the Watkins Street Project section. Since the Edwards Avenue storm sewer drains to the Watkins storm sewer, it makes sense to complete the Watkins Street project prior to Edwards Avenue. The storm sewer system in Edwards Avenue will be replaced as part of the project.

This project would be a full street and utility reconstruction project. The estimated total project cost for this project is \$900,000.

5.2.16 West Central Avenue

This project includes the reconstruction of West Central Avenue from Grove Street to Maple Avenue (CSAH 6). The project is shown on Figure 2. The street pavement on West Central Avenue rated a 6 on a scale of 1 to 10. West Central Avenue is currently a rural section road meaning it does not have curb & gutter or storm sewer.

The existing sanitary sewer only covers the east end of W. Central Avenue, from Grove Street to entrance to the Meadow Ridge Apartments. Similarly, the water main only extends part way on W. Central from Grove Street heading west. There are a couple parcels on the west end of Central Avenue that may need city utilities in the future. But with Oakwood Cemetery on the north side of W. Central Avenue, extending sanitary sewer may not be needed. Public works suggests extending the water main in W. Central Avenue all the way to Maple Avenue (CSAH 6), then back south to 3rd Street to provide a looped condition, improving water quality, maintenance and fire flow in this portion of the City.

West Central Avenue is currently a rural section road, meaning it has ditches the help collect and convey drainage. The estimated costs in this report assume that the street become an urban section with concrete curb & gutter and storm sewer.

The Meadow Ridge Apartment Building, just south of West Central Avenue, drains to a landlocked drainage pond between Central Avenue and 3rd Street. This project may be an opportunity to install an outlet for this pond in Central Avenue that drains to the ditch along Maple Avenue and ultimately towards Snake River.

This project would be a full street and utility reconstruction project. The estimated total project cost for this project is \$1,500,000. The looping of the water main along Maple Avenue and back to 3rd Street is estimated at \$150,000 and is included in the total project cost.

5.2.17 Edgewood Lane

This project includes the reconstruction of Edgewood Lane from Portage Avenue to Division Street. The project is shown on Figure 2. The street pavement on Edgewood Lane rated a 6 on a scale of 1 to 10.

Edgewood Lane has sanitary sewer and water main in it. Public works did not note any issues with the sanitary sewer. This sanitary sewer carries most of the City's flow from areas generally east of TH 65 and south of TH 23. Public works did note issues with the existing water main in Edgewood Lane. It is anticipated that both the sewer and water main would be replaced as part of this project.

Currently Edgewood Lane does not have a storm sewer in it. Drainage flows either north to Portage Avenue or south to Division Street where it's collected into existing storm sewer systems.

This project would be a full street and utility reconstruction project. The estimated total project cost for this project is \$1,050,000.

5.2.18 Clark Street

This project includes the reconstruction of Clark Street from Forest Avenue to the Frontage Road. The project is shown on Figure 2. The street pavement on these street sections rated a 7 on a scale of 1 to 10.

Public works staff identified the Clark sanitary sewer main with numerous issues due to the existing clay pipe with offset joints, flat sections, and numerous cracked pipe sections. The existing water main in the project area is 4-inch and 6-inch CIP. Public works did not note that this main has experienced significant water main breaks, but since it is CIP, it is recommended to replace it as part of the street project. It is anticipated that this section of water main is likely to have lead water services to some of the homes given the age of the housing stock. Lead services should be replaced as part of the project. As part of the City project, letters to the homeowners with lead services will be noticed that they should replace the main from the shut off to their water meter.

Clark Street does not have storm sewer in it. Drainage flows overland on Clark Street, then typically a block west to existing storm sewer systems. There is a storm sewer in the south block of Clark that drains into the MnDOT ditch along TH 65. It is anticipated that this main will be replaced and other flat areas reviewed for possible new storm sewer as part of the project.

This project would be a full street and utility reconstruction project. The estimated total project cost for this project is \$2,000,000.

5.2.19 Division Street and Frankie Lane

This project includes the reconstruction of Clark Street from Forest Avenue to the Frontage Road. The project is shown on Figure 2. The street pavement on these street sections rated from a 4 to a 7 on a scale of 1 to 10.

The existing sanitary sewer main in Division Street receives all the flow from the Edgewood Mobile Home Park. Public works staff identified the Clark sanitary sewer main with numerous issues due to the existing clay pipe with offset joints, flat sections, and numerous cracked pipe sections. The currently is not existing water main in Division Street or Frankie Lane, south of Portage Avenue. There is a 6-inch water main in the block of Frankie Lane between the Frontage Road and Portage Avenue. It is assumed that water main is CIP in material and would be replaced as part of the project. It is also assumed that new water main would be installed in Division Street and the rest of Frankie Lane as part of this project. Currently the water system in Edgewood Mobile Home Park is private.

There is storm sewer in Division Street at the intersection with Valley Lane. This system extends in Valley Lane all the way to Portage Avenue and is the outlet for the Portage Avenue storm sewer system. A portion of this storm sewer system lies under Frankie Lane, just south of Portage Lane. The north block of Frankie Lane, along Coborn's Grocery Store relies on overland flow to direct drainage south into the above existing storm sewer system. It is anticipated that all

of this storm sewer system would be replaced and possible a retention area needed along the south side of Division Street as part of this project.

This project would be a full street and utility reconstruction project. Given this project's proximity to the Edgewood Mobile Home Park, any improvements or significant changes to the mobile home park would likely trigger this project. The estimated total project cost for this project is \$2,600,000.

5.2.20 Lake and Vine Streets

This project includes the reconstruction of Lake and Vines Streets between Forest Avenue and Mora Lake. The project is shown on Figure 2. The street pavement on these sections of Edwards Avenue rated from 5 to 7 on a scale of 1 to 10.

Public works staff did not identify issues with the existing sanitary sewer mains in these streets but is anticipated that these are clay mains that should be replaced with the project. The existing water main in the project area is 4-inch and 6-inch CIP with a 12-inch raw water line in Vine Street near the fire hall that carries well water from well number 5 behind the firehall to water treatment plant. Public works did not note that this main has experienced significant water main breaks, but since it is CIP, it is recommended to replace it as part of the street project

Lake Street has an existing storm sewer system from Railroad Avenue that collects drainage near the area around city hall and carries it to Mora Lake. Similarly, Vine Street as a storm sewer main in its north block that discharges into Mora Lake. Public works as noted issues with these outlets due to the steep grade on the pipe and the pipe material wearing out. As noted in the Railroad Avenue Project discussion the downtown area needs additional storm water capacity. As part of this project, the new storm sewer mains would be sized to accommodate additional flow for larger storm events.

This project would be a full street and utility reconstruction project. The estimated total project cost for this project is \$3,000,000.

5.2.21 Little Ranches Road, Commercial Place and Rowland Road

This project includes the paving of Little Ranches Road, Commercial Place and Rowland Road. The project is shown on Figure 2. These roads are currently gravel and paving them has been previously discussed by the city. Also included in this project would be the installation of an 8-inch water main in Commercial Place to connect the existing dead-end water mains in Little Ranches and Rowland Roads.

This estimated total project cost for this project is \$900,000.

5.2.22 Industrial Park Phase 2

This project includes the installation of sanitary sewer and water main and construction of Industrial Road N, in the platted ROW of Phase 2 of the Industrial Park. The new water main would potentially extend to Industrial Park Boulevard to connect to the dead-end water main in Industrial Park Boulevard. The new street would be rural with ditches to match the existing sections of Industrial Road N.

The actual scope of this project is dependent on the potential development in Phase 2 of the park. If installed per the existing plat, the sanitary sewer and road would only extend far enough east to serve all the currently platted lots.

The estimated total project cost for this project is \$1,100,000.

5.3 Minor Projects

5.3.1 Mill and Overlay Projects

In addition to the major reconstruction projects, there are other streets that need to be reconstructed, but utilities in these streets are in good shape and has adequate capacity to handle current and future flows. These streets also have existing storm sewer systems.

In these streets, milling of existing pavement and adding curb and gutter, as needed, together with repaving can improve the status of these streets. Table 2 below and Figure 1 show the cost and locations of these streets.

Table 5-2 – Mill & Overlay Project List

Project	Cost
Industrial Road	\$850,000
Ford Ave, White Pine Ct, Westwood Circle	\$160,000
Villa Drive Neighborhood	\$250,000
Pine & Spruce Streets	\$105,000
Westside Streets	\$450,000
Oslin Road & Valhalla Circle	\$350,000
Total	\$2,165,000

The estimated costs for the mill and overlay project areas is \$2,165,000. Table 1 at the end of this report provides a breakdown of the estimated costs for these projects.

5.3.2 Sanitary Sewer and Trenchless Repair

In addition to the previous major and minor street construction, there are some streets that are in good condition, but the sewer pipes need some attention. The pipes may have some cracks or separated joints and trenchless repair can be the most economical way to take care of these problems without having to disturb a good to excellent street surface. These repairs can be accomplished by means of slip lining of sanitary sewer pipes; this will extend the life of the sanitary sewer system until it is time to reconstruct these streets. These repair areas were listed in Section 4.2. Their estimated costs are broken out in Table 1, with the total cost to line these areas estimated to be \$1,500,000.

5.4 Conclusion

We recommend that the City consult their financial advisor, bond counsel, attorney and the citizens of the community to confirm and refine the Capital Improvement Plan scope, schedule and finance plan.

Please note that the cost estimates, phasing, and schedule are intended to be used for planning and budgeting purposes. The construction costs were based on 2022 bid prices. A Feasibility Report/Engineering Report should be completed before design and bidding of projects as they are authorized.

Periodically the estimated project costs for the projects identified in this CIP should be reviewed and adjusted based on the Construction Cost Index (CCI) to keep the estimated project costs current for budgeting and planning purposes.

Tables

Table 1 – Detailed Cost Estimates

Description	FACILITYID	STREETCONC	Beginning Street	End Street	Pavement Rating	Length (Ft)	WM year	WM size	WM Cost	San cost	Storm Cost	Street Cost	Sidewalk Y/N	Sidewalk Cost	C&G Y/N	C&G Cost	Street Width	Total Cost
FOREST AVE W	211	FOREST AVE W	WEST END	LOCUST ST	4	971			\$203,910	\$262,170	\$203,910	\$189,345 N		\$0 Y		\$72,825	34	\$932,160
	107	FOREST AVE W	LOCUST ST	S GROVE ST	3	567			\$119,070	\$153,090	\$119,070	\$110,565 N		\$0 Y		\$42,525	36	\$544,320
	52	LOCUST ST	FOREST AVE W	S GROST ST	3	904			\$189,840	\$0	\$0	\$176,280 N		\$0 N		\$0	14	\$366,120
WM EXTENSION BETWEEN FOREST AVE W & BEAN AVE	N/A	N/A	FOREST AVE W	BEAN AVE	N/A	605			\$127,050	\$0	\$0	\$0		\$0		\$0		\$127,050
Total Project Cost																		\$1,969,650
4TH ST	164	4TH ST	WOOD ST		3	370			\$77,700	\$99,900	\$77,700	\$72,150 N		\$0 Y		\$27,750	37	\$355,200
	216	4TH ST		CEDAR ST	3	283			\$59,430	\$76,410	\$59,430	\$55,185 N		\$0 Y		\$21,225	23	\$271,680
	227	CEDAR ST	4TH ST	NORTH END	5	213			\$44,730	\$57,510	\$44,730	\$41,535 N		\$0 N		\$0	23	\$188,505
	77	N PARK ST	1ST ST	2ND ST	4	307			\$64,470	\$82,890	\$64,470	\$59,865 N		\$0 Y		\$23,025	26	\$294,720
	82	1ST ST	N GROVE ST	WOOD ST	6	378			\$79,380	\$102,060	\$79,380	\$73,710 N		\$0 Y		\$28,350	23	\$362,880
	221	1ST ST	WOOD ST	N PARK ST	3	334			\$70,140	\$90,180	\$70,140	\$65,130 N		\$0 Y		\$25,050	26	\$320,640
	119	2ND ST	N GROVE ST	WOOD ST	5	381			\$80,010	\$102,870	\$80,010	\$74,295 N		\$0 Y		\$28,575	28	\$365,760
	17	2ND ST	WOOD ST	N PARK ST	6	329			\$69,090	\$88,830	\$69,090	\$64,155 N		\$0 Y		\$24,675		\$315,840
	Total Project Cost																	
N WOOD ST	228	N WOOD ST	W MAPLE AVE	1ST ST	6	376			\$78,960	\$101,520	\$78,960	\$73,320 WEST SIDE		\$8,460 Y		\$28,200	50	\$369,420
	144	N WOOD ST	1ST ST	2ND ST	8	345			\$72,450	\$93,150	\$72,450	\$67,275 WEST SIDE		\$7,763 Y		\$25,875	37	\$338,963
	237	N WOOD ST	2ND ST	4TH ST	8	739			\$155,190	\$199,530	\$155,190	\$144,105 WEST SIDE		\$16,628 Y		\$55,425	37	\$726,068
	137	N WOOD ST	4TH ST		8	596			\$125,160	\$160,920	\$125,160	\$116,220 N		\$0 Y		\$44,700	38	\$572,160
	66	N WOOD ST		7TH ST	8	302			\$63,420	\$81,540	\$63,420	\$58,890 N		\$0 Y		\$22,650	38	\$289,920
Total Project Cost																		\$2,296,530
2ND ST, 3RD ST	233	2ND ST	W MAPLE AVE	EVERGREEN ST	6	567			\$119,070	\$153,090	\$119,070	\$110,565 N		\$0 Y		\$42,525	32	\$544,320
	84	3RD ST	W MAPLE AVE		4	698			\$146,580	\$188,460	\$146,580	\$136,110 N		\$0 Y		\$52,350	30	\$670,080
	208	3RD ST		N GROVE ST	5	432			\$90,720	\$116,640	\$90,720	\$84,240 N		\$0 Y		\$32,400	30	\$414,720
Total Project Cost																		\$1,629,120
RAILROAD AVE	39	NW RAILROAD AVE	N GROVE ST	N WOOD ST	7	385			\$80,850	\$103,950	\$103,950	\$75,075 N		\$0 NORTH SIDE		\$14,438	32	\$378,263
	73	NW RAILROAD AVE	N WOOD ST	N PARK ST	7	379			\$79,590	\$102,330	\$102,330	\$73,905 NORTH SIDE		\$8,528 NORTH SIDE		\$14,213	34	\$380,895
	169	NW RAILROAD AVE	N PARK ST	N UNION ST	7	386			\$81,060	\$104,220	\$104,220	\$75,270 NORTH SIDE		\$8,685 Y		\$28,950	58	\$402,405
	130	NE RAILROAD AVE	N UNION ST	N LAKE ST	5	380			\$79,800	\$102,600	\$102,600	\$74,100 NORTH SIDE		\$8,550 Y		\$28,500	54	\$396,150
	158	NE RAILROAD AVE	N LAKE ST	N VINE ST	6	382			\$80,220	\$103,140	\$103,140	\$74,490 N		\$0 NORTH SIDE		\$14,325	34	\$375,315
	239	RAILROAD AVE SE	S PARK ST	S UNION ST	6	386			\$81,060	\$104,220	\$81,060	\$75,270 SOUTH SIDE		\$8,685 Y		\$28,950	54	\$379,245
	60	RAILROAD AVE SE	S UNION ST	S LAKE ST	6	383			\$80,430	\$103,410	\$80,430	\$74,685 SOUTH SIDE		\$8,618 Y		\$28,725	47	\$376,298
	45	N WOOD ST	W MAPLE AVE	NW RAILROAD AVE	6	363			\$76,230	\$98,010	\$76,230	\$70,785 N		\$0 Y		\$27,225	37	\$348,480
	153	S WOOD ST	NW RAILROAD AVE	FOREST AVE W	6	457			\$95,970	\$123,390	\$95,970	\$89,115 N		\$0 Y		\$34,275	40	\$438,720
	Total Project Cost																	
FAIR AVE	29	FAIR AVE	WEST END	RIVERSIDE ST	6	467			\$0	\$0	\$0	\$35,025 N		\$0 Y		\$35,025	38	\$70,050
	99	FAIR AVE	RIVERSIDE ST	WOODLAND ST	6	391			\$0	\$0	\$0	\$29,325 N		\$0 Y		\$29,325	38	\$58,650
	125	FAIR AVE	WOODLAND ST	S GROVE ST	5	494			\$0	\$0	\$0	\$37,050 N		\$0 Y		\$37,050	37	\$74,100
	171	FAIR AVE	S GROVE ST	S WOOD ST	5	386			\$0	\$0	\$0	\$28,950 N		\$0 Y		\$28,950	38	\$57,900
	100	FAIR AVE	S WOOD ST	S PARK ST	5	370			\$0	\$0	\$0	\$27,750 N		\$0 Y		\$27,750	38	\$55,500
	219	FAIR AVE	S PARK ST	S UNION ST	5	385			\$0	\$0	\$0	\$28,875 N		\$0 Y		\$28,875	38	\$57,750
	242	FAIR AVE	S UNION ST	WATKINS ST	6	332			\$0	\$0	\$0	\$24,900 N		\$0 Y		\$24,900	37	\$49,800
	193	FAIR AVE	WATKINS ST	McLEAN ST	6	322			\$0	\$0	\$0	\$24,150 N		\$0 Y		\$24,150	37	\$48,300
	113	FAIR AVE	McLEAN ST	MORRISON ST	6	308			\$0	\$0	\$0	\$23,100 N		\$0 Y		\$23,100	37	\$46,200
	165	FAIR AVE	MORRISON ST	CLARK ST	6	327			\$0	\$0	\$0	\$24,525 N		\$0 Y		\$24,525	37	\$49,050
Total Project Cost																		\$567,300
BEAN AVE	90	BEAN AVE	WEST END	RIVERSIDE ST	6	551					\$148,770	\$107,445 N		\$0 Y		\$41,325	29	\$297,540
	55	BEAN AVE	RIVERSIDE ST	S GROVE ST	6	881					\$237,870	\$171,795 N		\$0 Y		\$66,075	36	\$475,740
Total Project Cost																		\$773,280
SUMMIT & ACORN	30	SUMMIT LN	PORTAGE AVE	CAROL AVE	6	943			\$198,030	\$254,610	\$198,030	\$183,885 N		\$0 Y		\$70,725	37	\$905,280
	120	SUMMIT LN	CAROL AVE	NORTH END	6	79			\$16,590	\$21,330	\$16,590	\$15,405 N		\$0 Y		\$5,925	37	\$75,840
	16	ACORN LN	PORTAGE AVE	COBORN'S ENT	6	485			\$101,850	\$130,950	\$101,850	\$94,575 N		\$0 Y		\$36,375	37	\$465,600
	155	ACORN LN	COBORN'S ENT	CAROL AVE	6	455			\$95,550	\$122,850	\$95,550	\$88,725 N		\$0 Y		\$34,125	37	\$436,800
	160	PINE GROVE ST	SOUTHEAST END	SOUTHWEST END	1	264			\$55,440	\$71,280	\$55,440	\$51,480 N		\$0 N		\$0	18	\$233,640
	185	CAROL AVE	SUBWAY	ACORN LN	5	68			\$14,280	\$18,360	\$14,280	\$13,260 N		\$0 Y		\$5,100	46	\$65,280
	61	CAROL AVE	ACORN LN	SUMMIT LN	6	408			\$85,680	\$110,160	\$85,680	\$79,560 N		\$0 Y		\$30,600	37	\$391,680
Total Project Cost																		\$2,574,120
PORTAGE AVE	190	PORTAGE AVE	SERVICE DR	EDGEWOOD LN	5	320			\$67,200	\$86,400	\$67,200	\$62,400 N		\$0 Y		\$24,000	38	\$307,200
	133	PORTAGE AVE	EDGEWOOD LN	FRANKIE LN	5	171			\$35,910	\$46,170	\$35,910	\$33,345 N		\$0 Y		\$12,825	38	\$164,160
	275	PORTAGE AVE	FRANKIE LN	MORA REGENCY A	4	252			\$52,920	\$68,040	\$52,920	\$49,140 N		\$0 Y		\$18,900	37	\$241,920
	276	PORTAGE AVE	MORA REGENCY A	ACORN LN	4	122			\$25,620	\$32,940	\$25,620	\$23,790 N		\$0 Y		\$9,150	37	\$117,120
	278	PORTAGE AVE	ACORN LN	MORA REGENCY B	4	271			\$56,910	\$73,170	\$56,910	\$52,845 N		\$0 Y		\$20,325	37	\$260,160
	277	PORTAGE AVE	MORA REGENCY B	SUMMIT LN	4	114			\$23,940	\$30,780	\$23,940	\$22,230 N		\$0 Y		\$8,550	37	\$109,440

	271	PORTAGE AVE	SUMMIT LN	MORA REGENCY C	5	270	\$56,700	\$72,900	\$56,700	\$52,650 N	\$0 Y	\$20,250	37	\$259,200
	268	PORTAGE AVE	MORA REGENCY C	S WALNUT ST	5	271	\$56,910	\$73,170	\$56,910	\$52,845 N	\$0 Y	\$20,325	37	\$260,160
											\$0			
											\$0	Total Project Cost		\$1,719,360
MORRISON ST	58	MORRISON ST	FRONTAGE ROAD	FAIR AVE	0 (GRAVEL)	613	\$128,730	\$165,510	\$128,730	\$119,535 N	\$0 N	\$0		\$542,505
	142	MORRISON ST	FAIR AVE	DION AVE	6	566	\$118,860	\$152,820	\$118,860	\$110,370 N	\$0 Y	\$42,450	38	\$543,360
	223	MORRISON ST	DION AVE	EDWARDS AVE	6	473	\$99,330	\$127,710	\$99,330	\$92,235 Y	\$21,285 Y	\$35,475	38	\$475,365
	184	MORRISON ST	EDWARDS AVE	HOWE AVE	6	476	\$99,960	\$128,520	\$99,960	\$92,820 N	\$0 Y	\$35,700	38	\$456,960
	62	HOWE AVE	McLEAN ST	S VINE ST	5	114	\$23,940	\$30,780	\$23,940	\$22,230 N	\$0 Y	\$8,550	43	\$109,440
	103	HOWE AVE	S VINE ST	MORRISON ST	5	202	\$42,420	\$54,540	\$42,420	\$39,390 N	\$0 Y	\$15,150	37	\$193,920
	104	HOWE AVE	MORRISON ST	CLARK ST	4	322	\$67,620	\$86,940	\$67,620	\$62,790 N	\$0 Y	\$24,150	37	\$309,120
	70	S VINE ST	HOWE AVE	FOREST AVE E	5	290	\$60,900	\$78,300	\$60,900	\$56,550 N	\$0 Y	\$21,750	43	\$278,400
											\$0	Total Project Cost		\$2,909,070
WATKINS ST	134	WATKINS ST	FORD AVE	FAIR AVE	4	540	\$113,400	\$145,800	\$113,400	\$105,300 EAST SIDE	\$12,150 Y	\$40,500	37	\$530,550
	53	WATKINS ST	FAIR AVE	DION AVE	6	562	\$118,020	\$151,740	\$118,020	\$109,590 N	\$0 Y	\$42,150	37	\$539,520
	201	WATKINS ST	DION AVE	EDWARDS AVE	7	471	\$98,910	\$127,170	\$98,910	\$91,845 N	\$0 Y	\$35,325	37	\$452,160
	97	WATKINS ST	EDWARDS AVE	HOWE AVE	6	464	\$97,440	\$125,280	\$97,440	\$90,480 N	\$0 Y	\$34,800	37	\$445,440
	192	HOWE AVE	S UNION ST	WATKINS ST	3	341	\$71,610	\$92,070	\$71,610	\$66,495 N	\$0 Y	\$25,575	37	\$327,360
	191	HOWE AVE	WATKINS ST	S LAKE ST	5	50	\$10,500	\$13,500	\$10,500	\$9,750 N	\$0 Y	\$3,750	37	\$48,000
	65	HOWE AVE	S LAE ST	McLEAN ST	5	262	\$55,020	\$70,740	\$55,020	\$51,090 NORTH SIDE	\$5,895 Y	\$19,650	43	\$257,415
	206	S LAKE ST	HOWE AVE	FOREST AVE E	7	286	\$60,060	\$77,220	\$60,060	\$55,770 Y	\$12,870 Y	\$21,450	44	\$287,430
											\$0	Total Project Cost		\$2,887,875
McLEAN STREET	108	McLEAN ST	FRONTAGE ROAD	FAIR AVE	6	858	\$180,180	\$231,660	\$180,180	\$167,310 N	\$0 Y	\$64,350	37	\$823,680
	121	McLEAN ST	FAIR AVE	DION AVE	5	568	\$119,280	\$153,360	\$119,280	\$110,760 N	\$0 Y	\$42,600	37	\$545,280
	209	McLEAN ST	DION AVE	EDWARDS AVE	4	471	\$98,910	\$127,170	\$98,910	\$91,845 N	\$0 Y	\$35,325	37	\$452,160
	150	McLEAN ST	EDWARDS AVE	HOWE AVE	5	479	\$100,590	\$129,330	\$100,590	\$93,405 Y	\$21,555 Y	\$35,925	37	\$481,395
											\$0	Total Project Cost		\$2,302,515
DION AVE	199	DION AVE	S UNION ST	WATKINS ST	6	337		\$90,990	\$70,770	\$65,715 Y	\$15,165 Y	\$25,275	37	\$267,915
	168	DION AVE	WATKINS ST	McLEAN ST	7	168		\$45,360	\$35,280	\$32,760 N	\$0 Y	\$12,600	37	\$126,000
	96	DION AVE	McLEAN ST	MORRISON ST	4	313		\$84,510	\$65,730	\$61,035 N	\$0 Y	\$23,475	37	\$234,750
	67	DION AVE	MORRISON ST	CLARK ST	4	318		\$85,860	\$66,780	\$62,010 N	\$0 Y	\$23,850	37	\$238,500
											\$0	Total Project Cost		\$867,165
EDWARDS AVE	220	EDWARDS AVE	S UNION ST	WATKINS ST	7	340	\$71,400		\$71,400	\$66,300 N	\$0 Y	\$25,500	37	\$234,600
	212	EDWARDS AVE	WATKINS ST	McLEAN ST	5	316	\$66,360		\$66,360	\$61,620 N	\$0 Y	\$23,700	37	\$218,040
	229	EDWARDS AVE	McLEAN ST	MORRISON ST	5	316			\$66,360	\$61,620 N	\$0 Y	\$23,700	37	\$151,680
	102	EDWARDS AVE	MORRISON ST	CLARK ST	4	313			\$65,730	\$61,035 N	\$0 Y	\$23,475	37	\$150,240
											\$0	Total Project Cost		\$754,560
WEST CENTRAL AVE	195	W CENTRAL AVE	W MAPLE AVE	N GROVE ST	6	1375	\$288,750	\$371,250	\$288,750	\$268,125 N	\$0 Y	\$103,125	32	\$1,320,000
WATERMAIN	N/A	W MAPLE AVE	W CENTRAL ST	3RD ST		664	\$139,440	\$0	\$0	\$0 N	\$0 N	\$0		\$139,440
											\$0	Total Project Cost		\$1,459,440
EDGEWOOD LANE	115	EDGEWOOD LN	DIVISION ST	PORTAGE AVE	6	1082	\$227,220	\$292,140	\$227,220	\$210,990 N	\$0 Y	\$81,150	37	\$1,038,720
											\$0	Total Project Cost		\$1,038,720
CLARK ST	117	CLARK ST	FRONTAGE ROAD	FAIR AVE	7	147	\$30,870	\$39,690	\$30,870	\$28,665 N	\$0 Y	\$11,025	37	\$141,120
	76	CLARK ST	FAIR AVE	DION AVE	7	559	\$117,390	\$150,930	\$117,390	\$109,005 N	\$0 Y	\$41,925	37	\$536,640
	154	CLARK ST	DION AVE	EDWARDS AVE	7	474	\$99,540	\$127,980	\$99,540	\$92,430 N	\$0 Y	\$35,550	37	\$455,040
	94	CLARK ST	EDWARDS AVE	WELIA ENT	7	300	\$63,000	\$81,000	\$63,000	\$58,500 EAST SIDE	\$6,750 Y	\$22,500	37	\$294,750
	151	CLARK ST	WELIA ENT	HOWE AVE	7	168	\$35,280	\$45,360	\$35,280	\$32,760 EAST SIDE	\$3,780 Y	\$12,600	37	\$165,060
	31	CLARK ST	HOWE AVE	FOREST AVE E	7	346	\$72,660	\$93,420	\$72,660	\$67,470 N	\$0 Y	\$25,950	37	\$332,160
											\$0	Total Project Cost		\$1,924,770
DIV ST & FRANKIE LN	186	DIVISION ST	FRONTAGE ST	EDGEWOOD LN	7	179	\$37,590	\$48,330	\$48,330	\$34,905 N	\$0 N	\$0	28	\$169,155
	225	DIVISION ST	EDGEWOOD LN	ARTHUR LN	4	195	\$40,950	\$52,650	\$52,650	\$38,025 N	\$0 N	\$0	23	\$184,275
	129	DIVISION ST	ARTHUR LN	VALLEY LN	4	182	\$38,220	\$49,140	\$49,140	\$35,490 N	\$0 N	\$0	23	\$171,990
	14	DIVISION ST	VALLEY LN	MALMGREN LN	4	500	\$105,000	\$135,000	\$135,000	\$97,500 N	\$0 N	\$0	30	\$472,500
	86	DIVISION ST	MALMGREN LN	KRISTI LN	5	200	\$42,000	\$54,000	\$54,000	\$39,000 N	\$0 N	\$0	21	\$189,000
	21	DIVISION ST	KRISTI LN	FRANKIE LN	5	190	\$39,900	\$51,300	\$51,300	\$37,050 N	\$0 N	\$0	21	\$179,550
	19	FRANKIE LN	DIVISION ST	KENWOOD LN	7	130	\$27,300	\$35,100	\$35,100	\$25,350 N	\$0 N	\$0	21	\$122,850
	202	FRANKIE LN	KENWOOD LN	KRISTI LN	4	159	\$33,390	\$42,930	\$42,930	\$31,005 N	\$0 N	\$0	21	\$150,255
	13	FRANKIE LN	KRISTI LN	MALMGREN LN	4	319	\$66,990	\$86,130	\$86,130	\$62,205 N	\$0 N	\$0	21	\$301,455
	270	FRANKIE LN	MALMGREN LN	MORA REGENCY H	5	112	\$23,520	\$30,240	\$30,240	\$21,840 N	\$0 N	\$0	21	\$105,840
	269	FRANKIE LN	MORA REGENCY H	VALLEY LN	3	193	\$40,530	\$52,110	\$52,110	\$37,635 N	\$0 N	\$0	21	\$182,385
	174	FRANKIE LN	VALLEY LN	ARTHUR LN (EXT)	3	266	\$55,860	\$71,820	\$71,820	\$51,870 N	\$0 N	\$0	21	\$251,370
	138	FRANKIE LN	ARTHUR LN (EXT)	PORTAGE AVE	4	121	\$25,410	\$32,670	\$32,670	\$23,595 N	\$0 N	\$0	21	\$114,345
											\$0	Total Project Cost		\$2,594,970
LAKE & VINE ST	116	S LAKE ST	FOREST AVE E	RAILROAD AVE SE	7	353	\$74,130	\$95,310	\$74,130	\$68,835 Y	\$15,885 Y	\$26,475	54	\$354,765
	175	S LAKE ST	RAILROAD AVE SE	RAILROAD AVE NE	7	123	\$25,830	\$33,210	\$25,830	\$23,985 Y	\$5,535 Y	\$9,225	54	\$123,615
	187	N LAKE ST	RAILROAD AVE NE	E MAPLE AVE	7	353	\$74,130	\$95,310	\$74,130	\$68,835 Y	\$15,885 Y	\$26,475	49	\$354,765

Figures

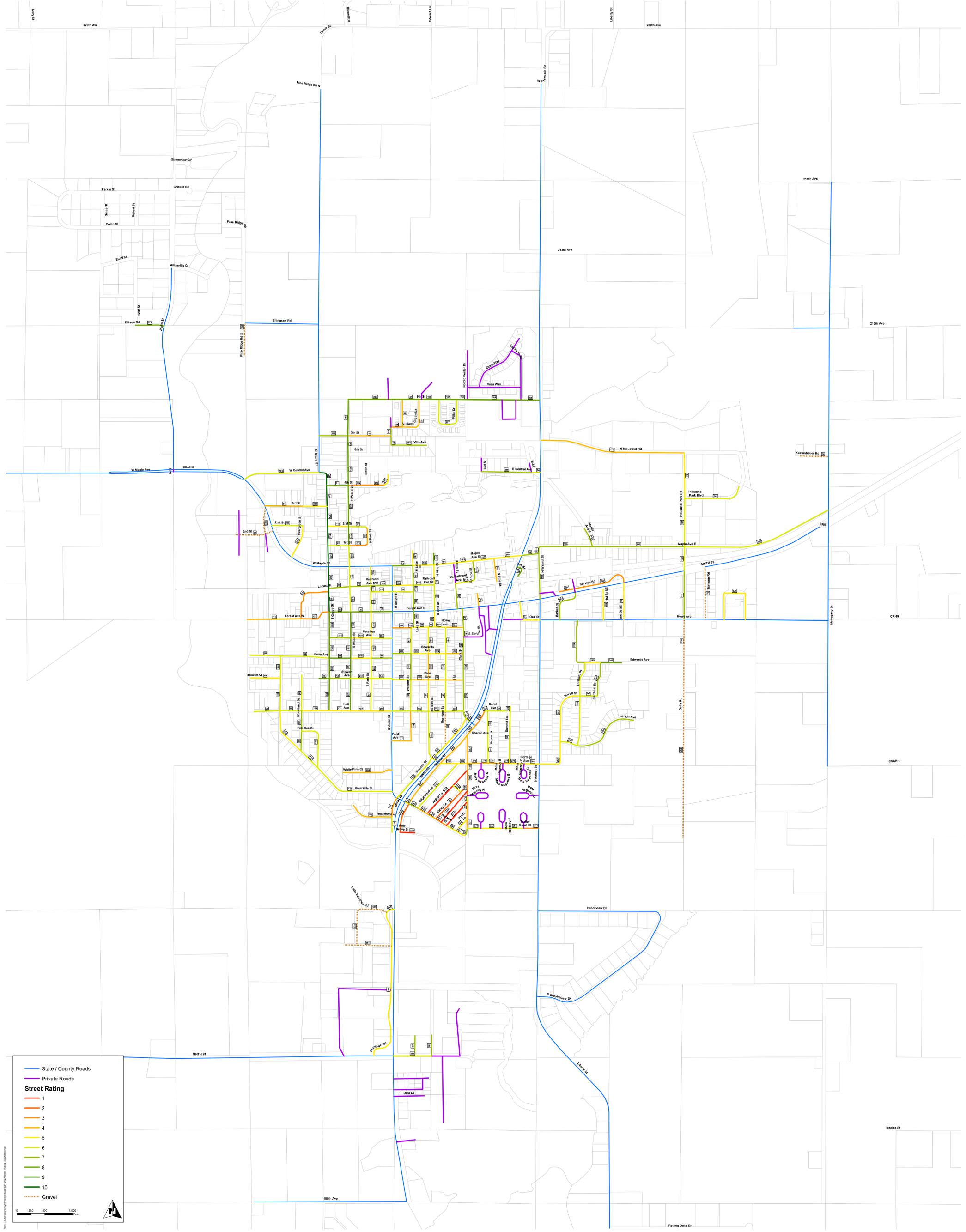
Street Rating (one page)

Project Locations (one page)

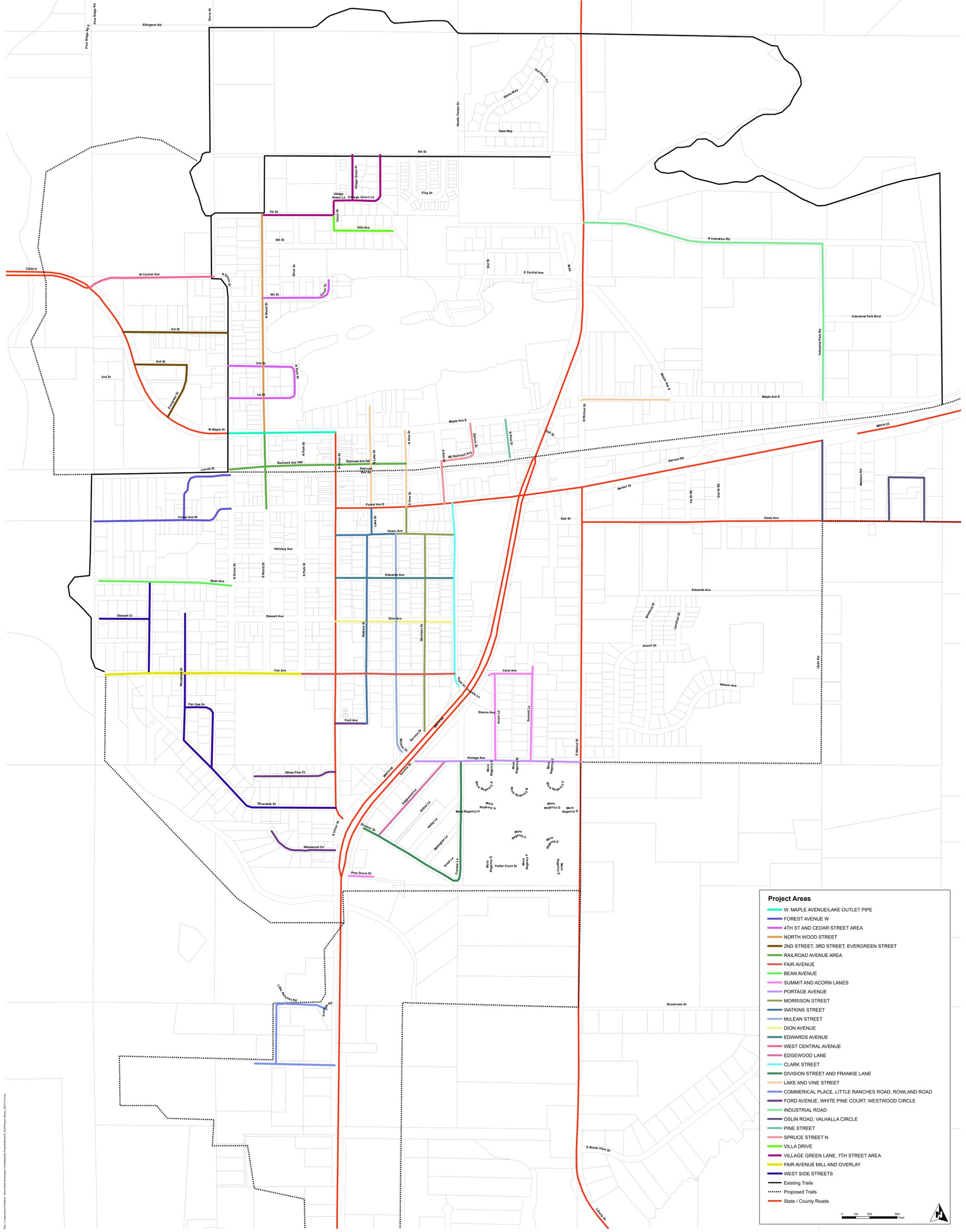
Sanitary Sewer Utilities (15 pages)

Storm Sewer Utilities (10 pages)

Water Utilities (10 pages)



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Project Areas

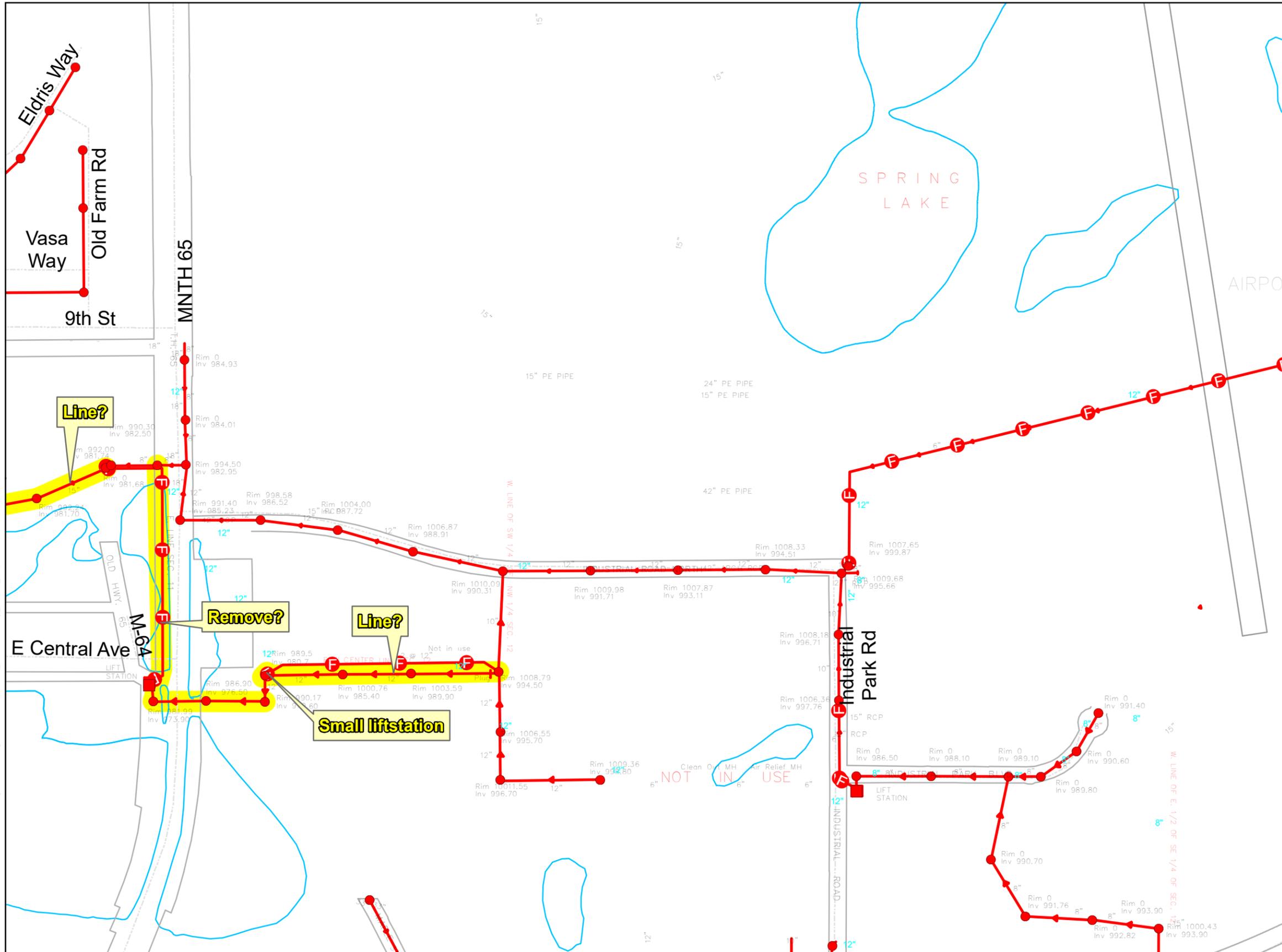
- W. MAPLE AVENUE/LAKE OUTLET PIPE
- FOREST AVENUE W
- 4TH ST AND CEDAR STREET AREA
- NORTH WOOD STREET
- 2ND STREET, 3RD STREET, EVERGREEN STREET
- RAILROAD AVENUE AREA
- FAIR AVENUE
- BEAN AVENUE
- SUMMIT AND ACORN LANES
- PORTAGE AVENUE
- MORRISON STREET
- WATKINS STREET
- MCLEAN STREET
- DION AVENUE
- EDWARDS AVENUE
- WEST CENTRAL AVENUE
- EDGEWOOD LANE
- CLARK STREET
- DIVISION STREET AND FRANKIE LANE
- LAKE AND VINE STREET
- COMMERCIAL PLACE, LITTLE RANCHES ROAD, ROWLAND ROAD
- FORD AVENUE, WHITE PINE COURT, WESTWOOD CIRCLE
- INDUSTRIAL ROAD
- OSLIN ROAD, VALHALLA CIRCLE
- PINE STREET
- SPRUCE STREET N
- VILLA DRIVE
- VILLAGE GREEN LANE, 7TH STREET AREA
- FAIR AVENUE MILL AND OVERLAY
- WEST SIDE STREETS
- Existing Trails
- Proposed Trails
- State / County Roads

0 150 300 600 Feet

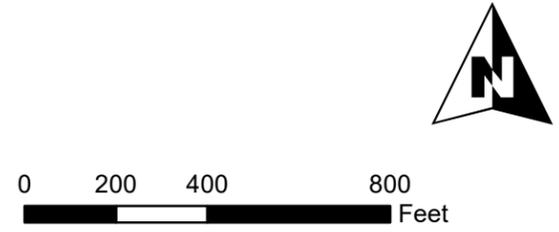
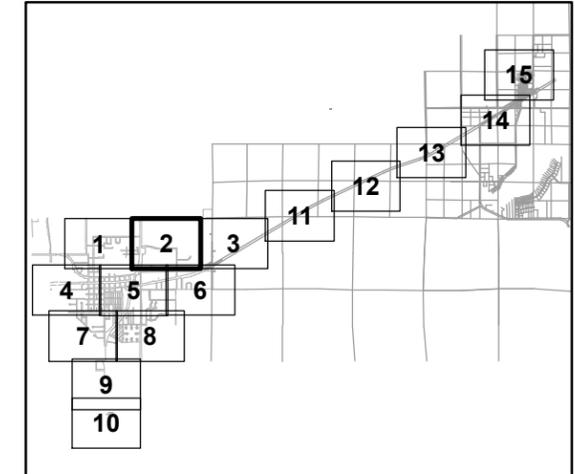
PROJECT AREAS Mora, Minnesota

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- Legend**
- Manhole
 - Liftstation
 - ▼ Cleanout and Air Release Valve
 - Sanitary Line
 - Ⓡ Sanitary Forcemain
 - Airport
 - Curb
 - Lotline
 - ROW
 - Trails
 - Road
 - Water
 - Sanitary Issues



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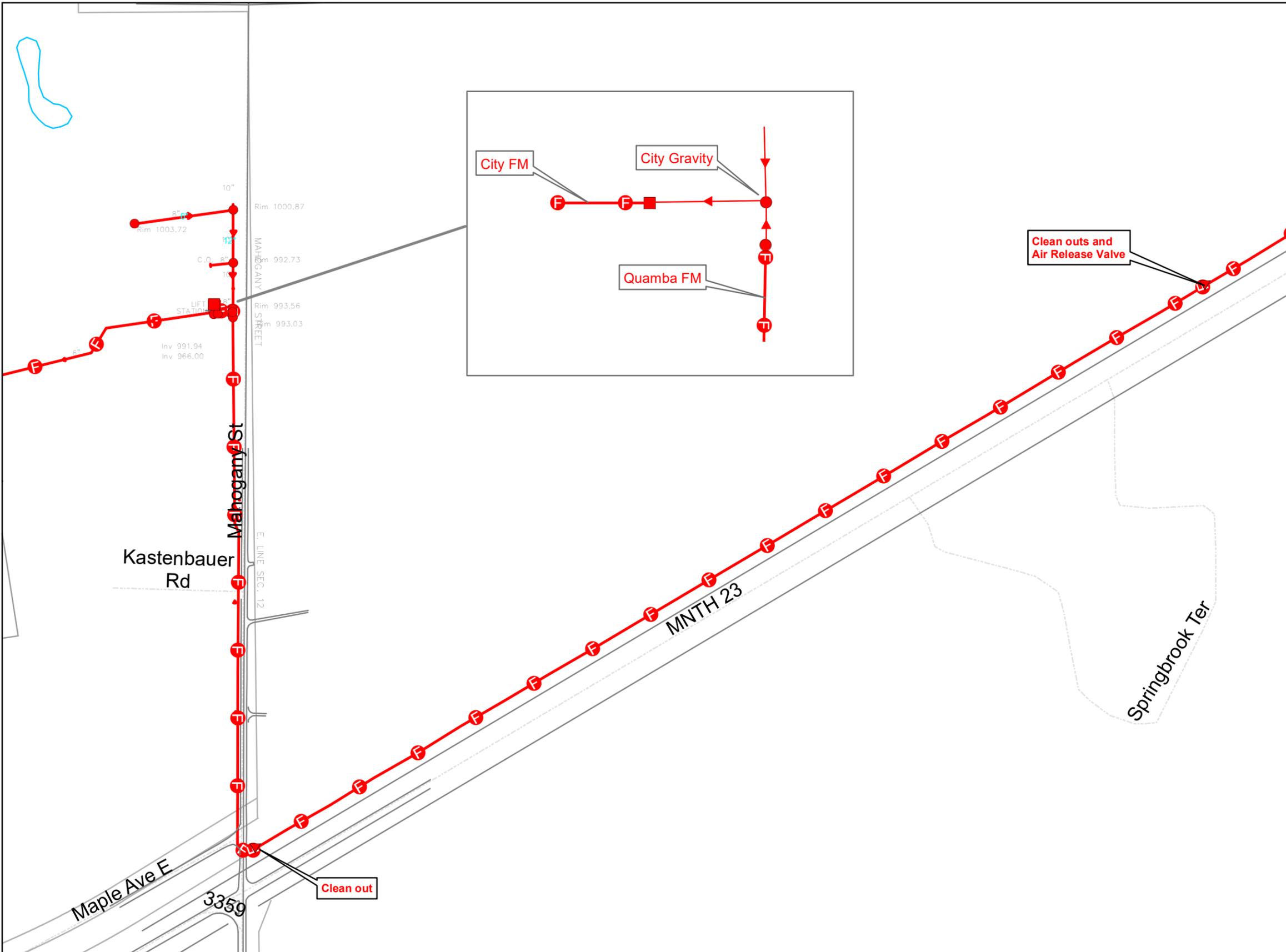
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Print Date: 9/21/2022

Map by: SRH
Projection: Kanabec CC
Source: SEH Inc and City of Mora

SANITARY SEWER UTILITES

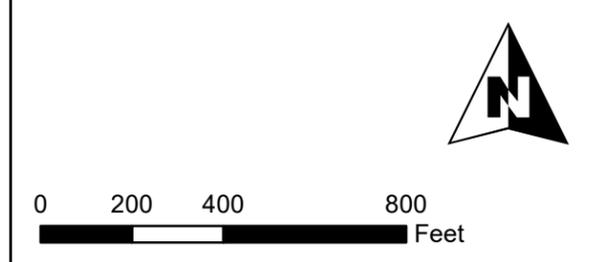
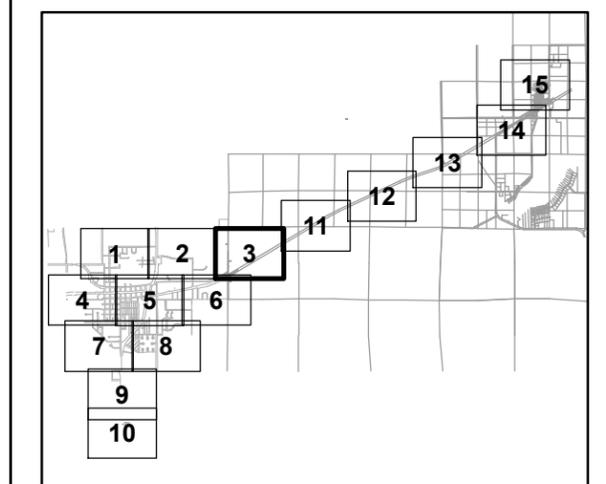
Mora, Minnesota

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Legend

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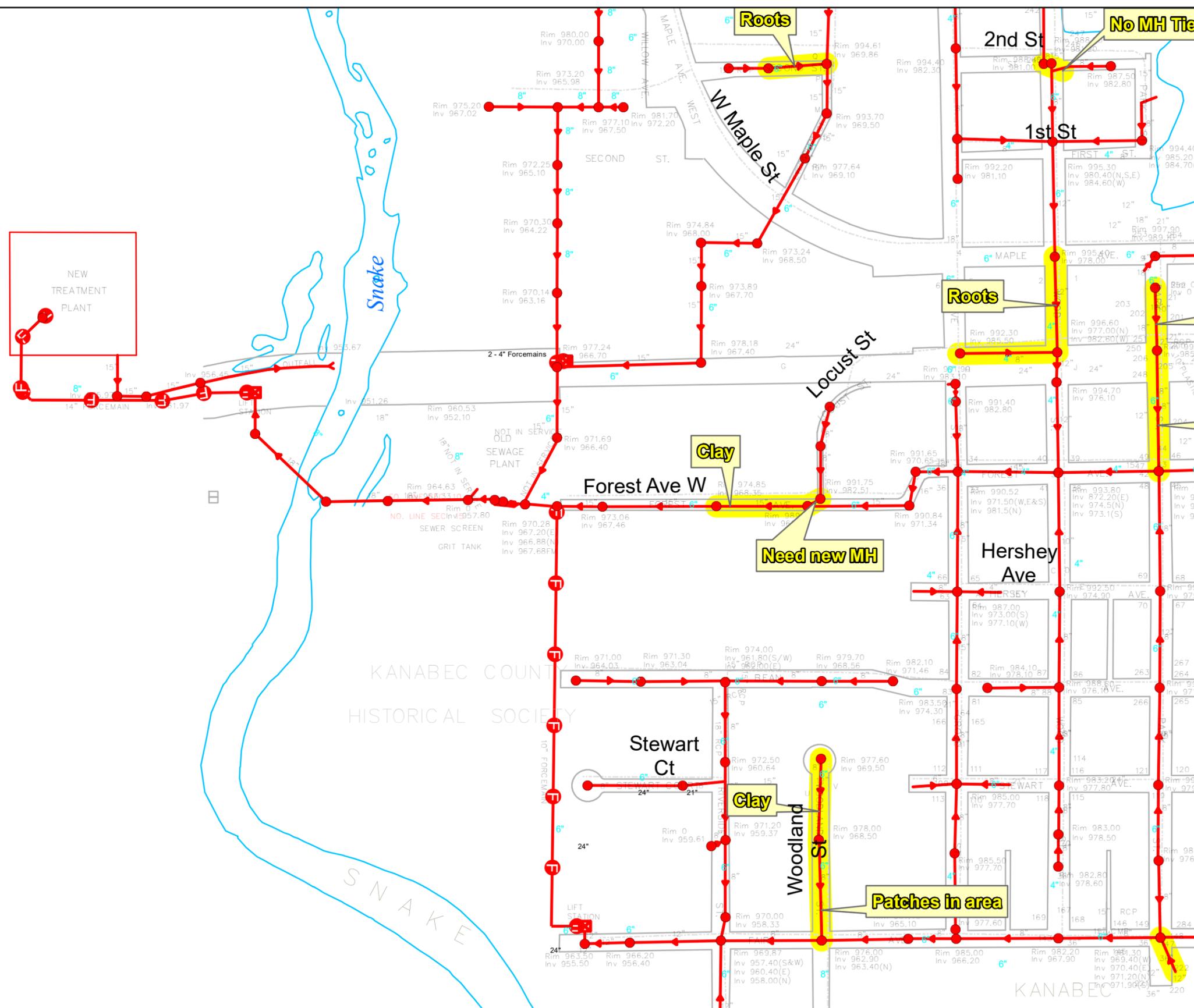
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Project: XXXXX 000000
Print Date: 9/21/2022
Map by: SRH
Projection: Kanabec CC
Source: SEH Inc and City of Mora

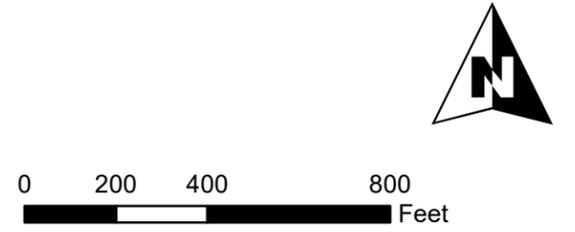
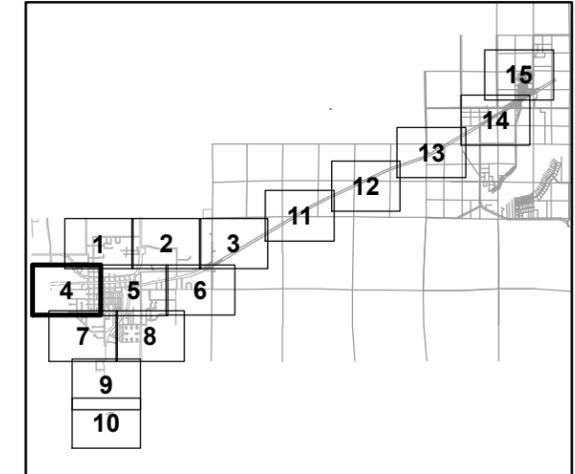
SANITARY SEWER UTILITES

Mora, Minnesota

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- Legend**
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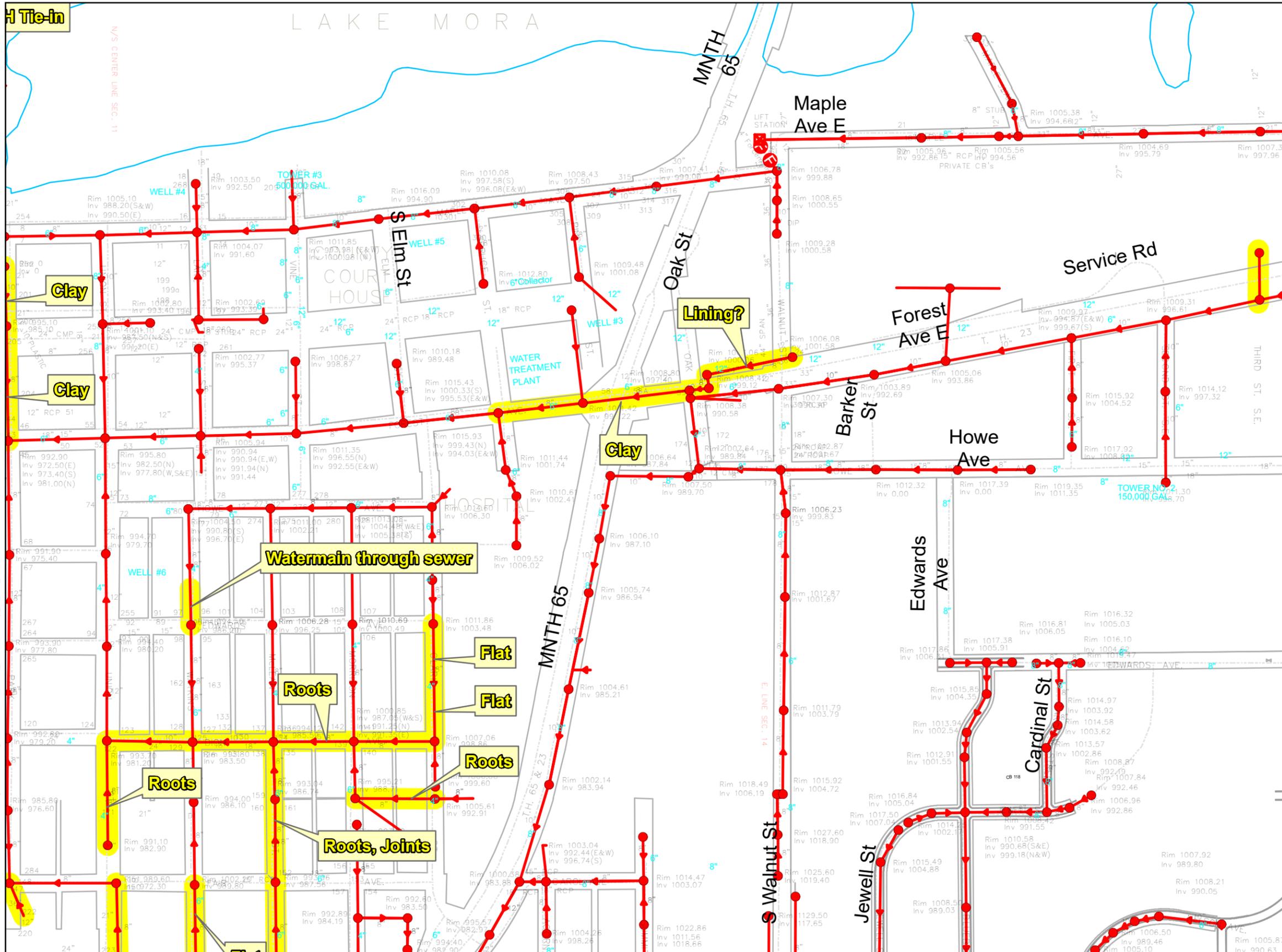
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 Projection: Kanabec CC
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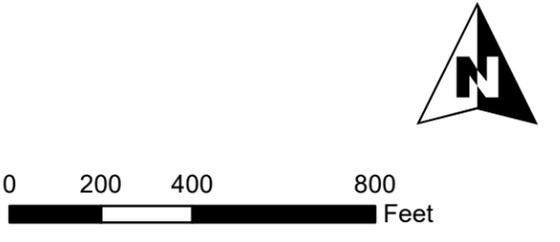
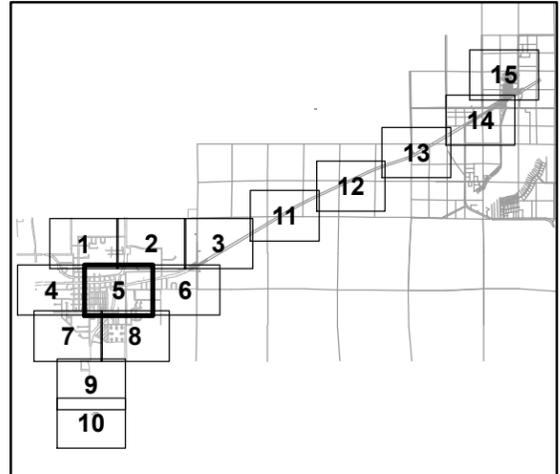
SANITARY SEWER UTILITES

Mora, Minnesota



Legend

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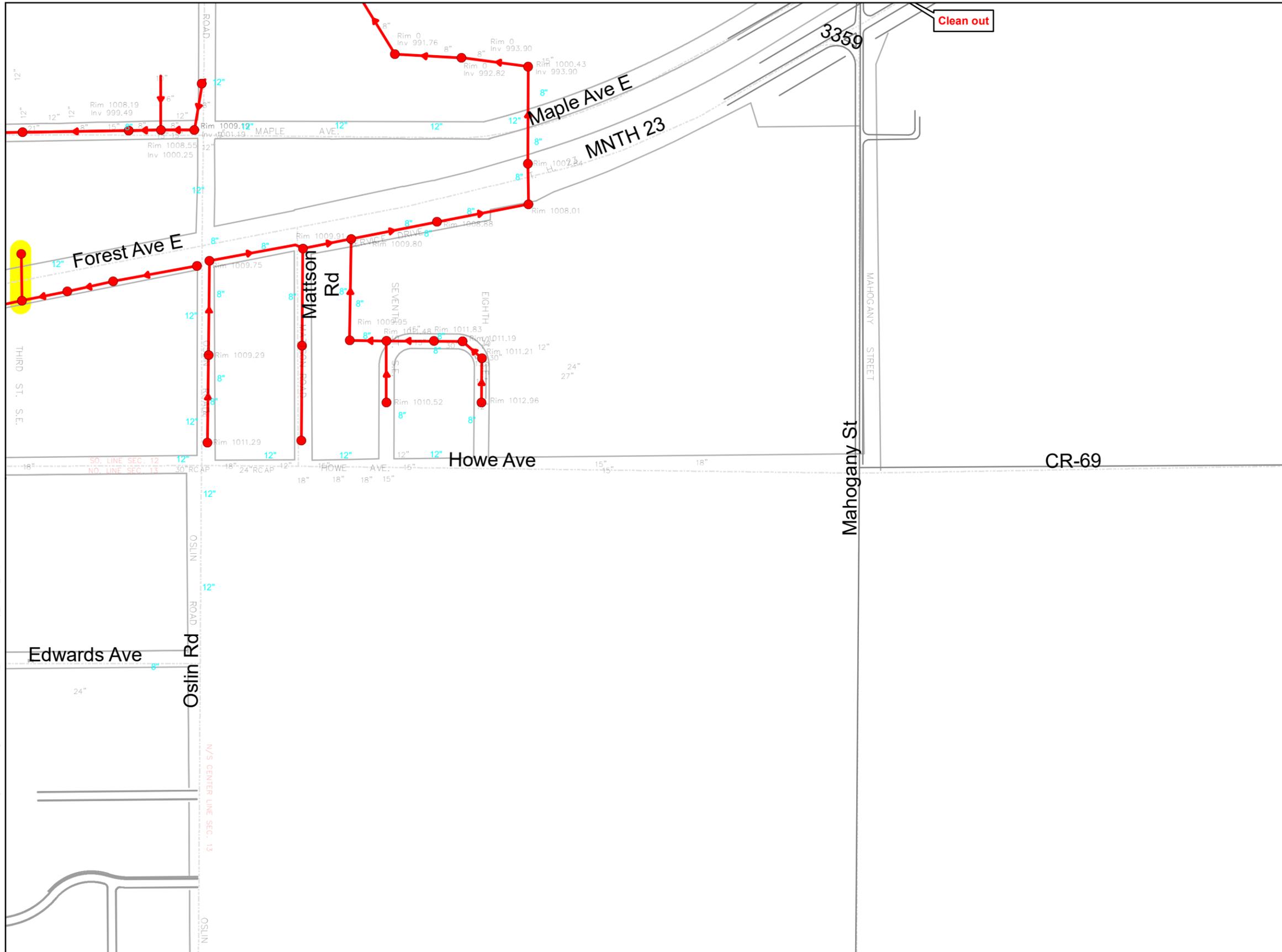
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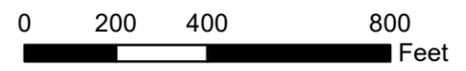
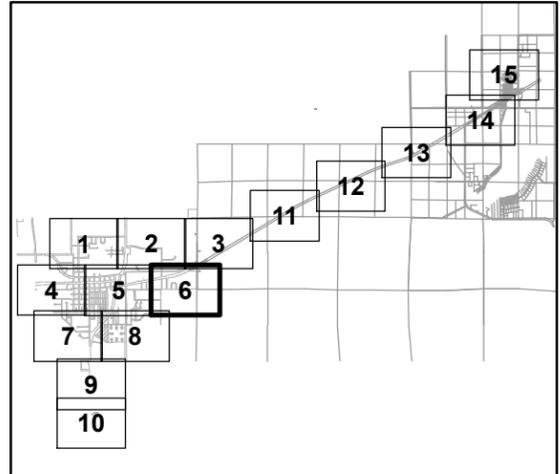
SANITARY SEWER UTILITES

Mora, Minnesota

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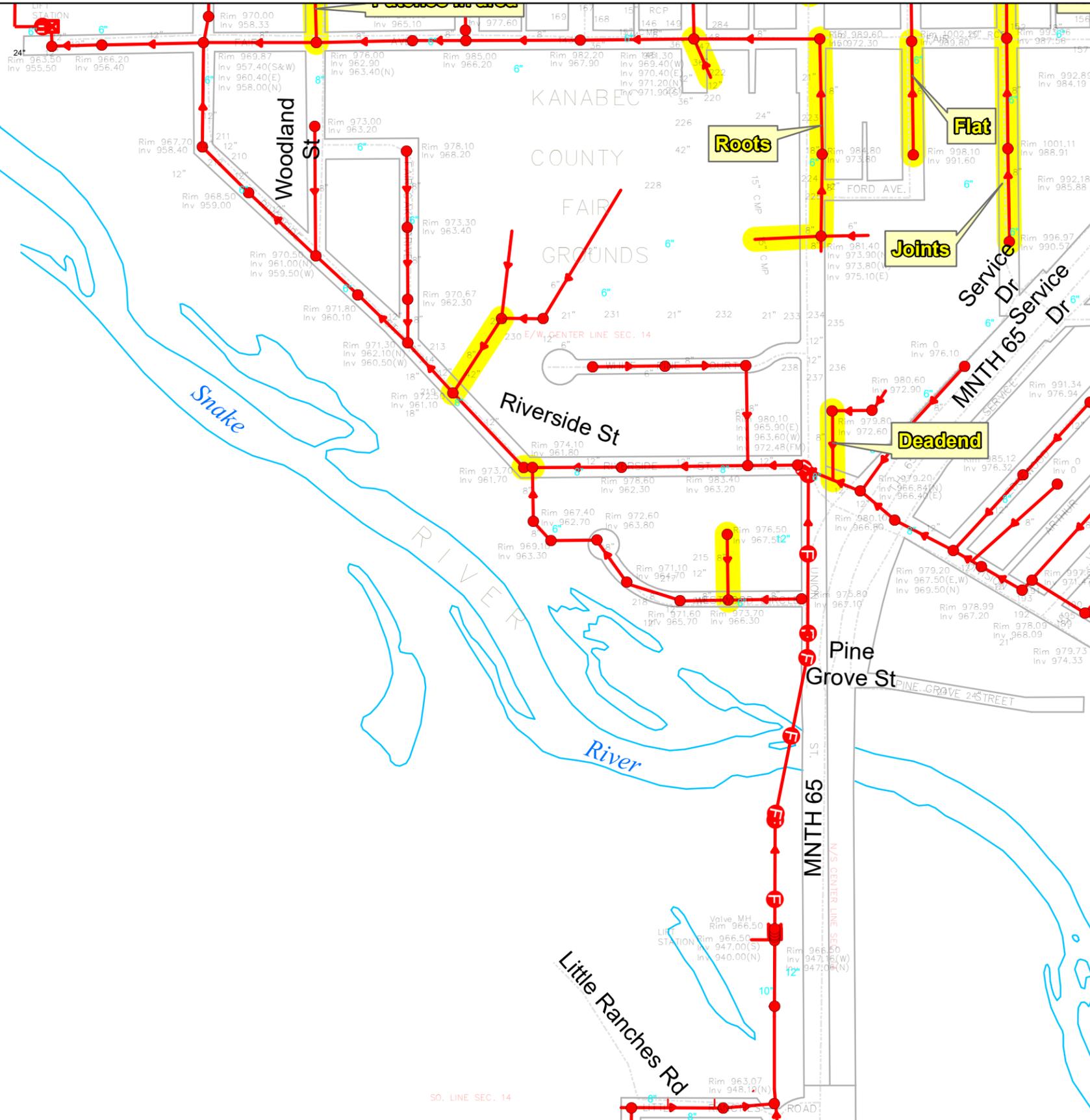
SANITARY SEWER UTILITIES

Mora, Minnesota

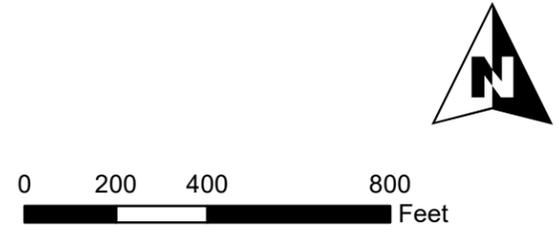
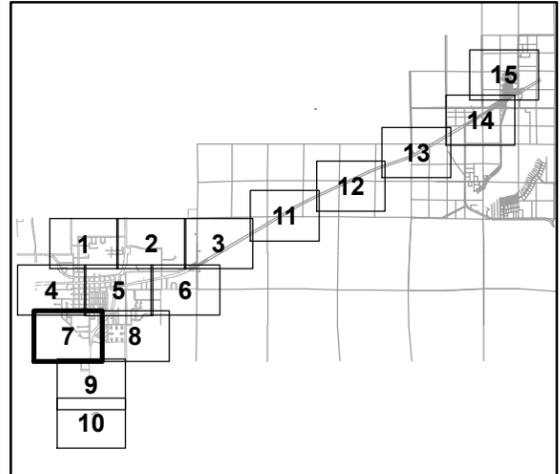
**Sanitary Sewer
Map Book**

**Page
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- Legend**
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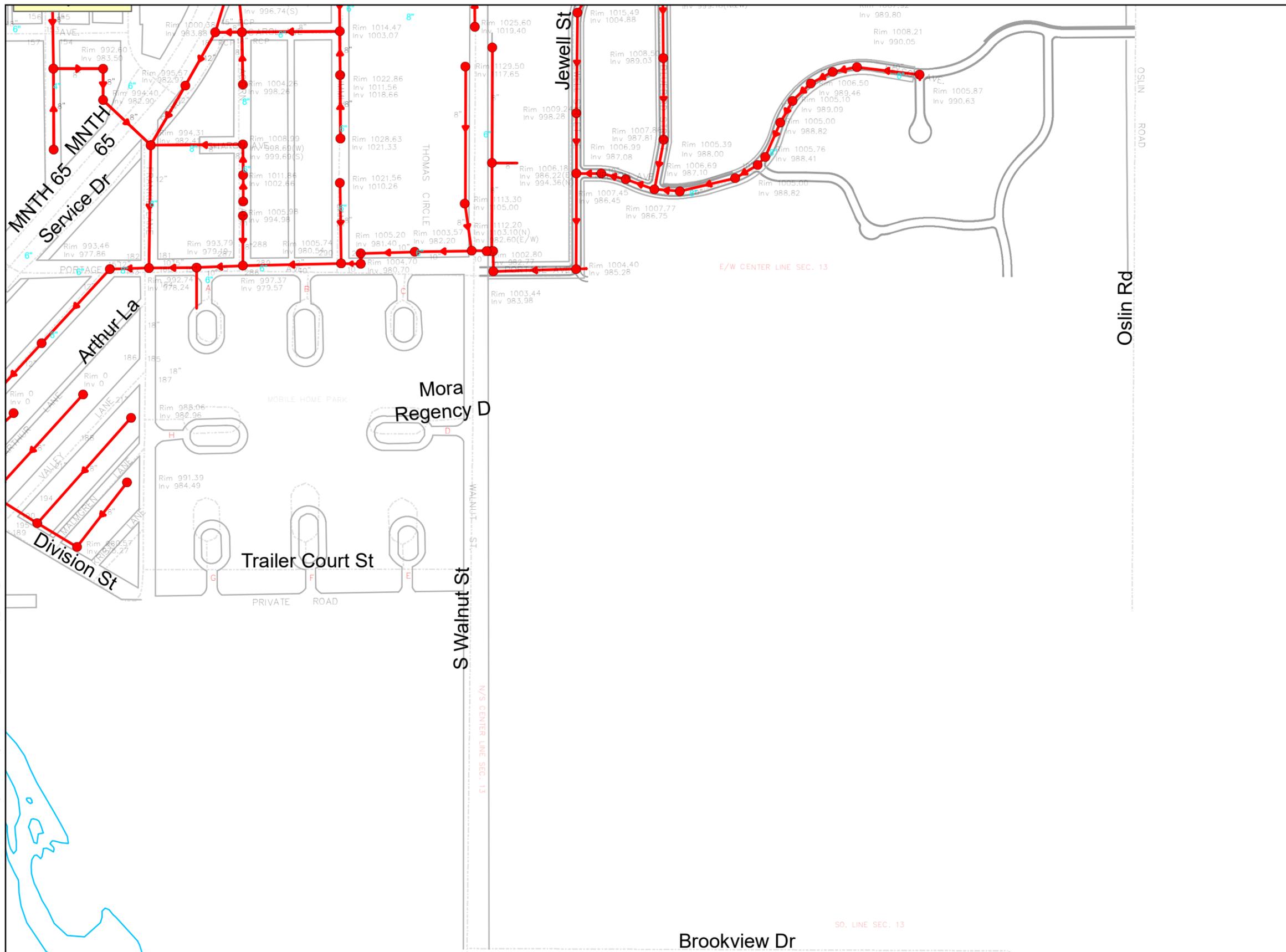
SANITARY SEWER UTILITES

Mora, Minnesota

**Sanitary Sewer
Map Book**

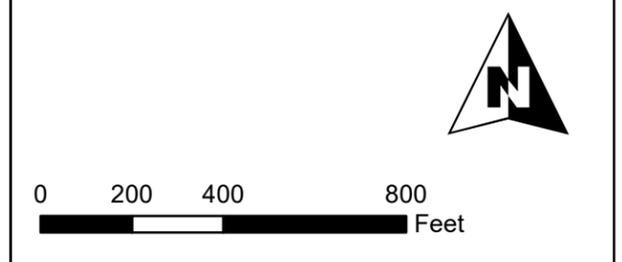
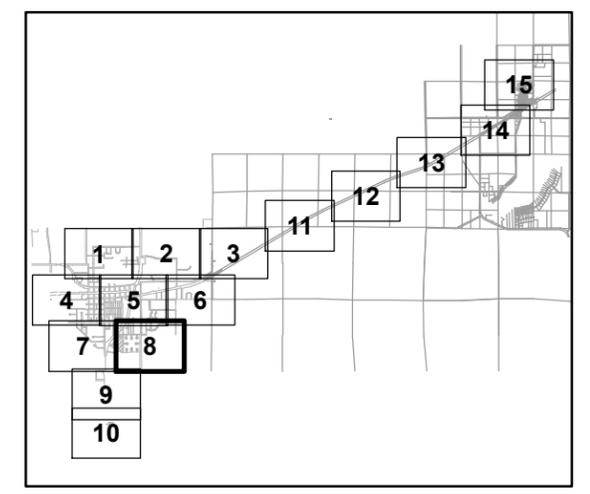
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7 of 15**

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Legend

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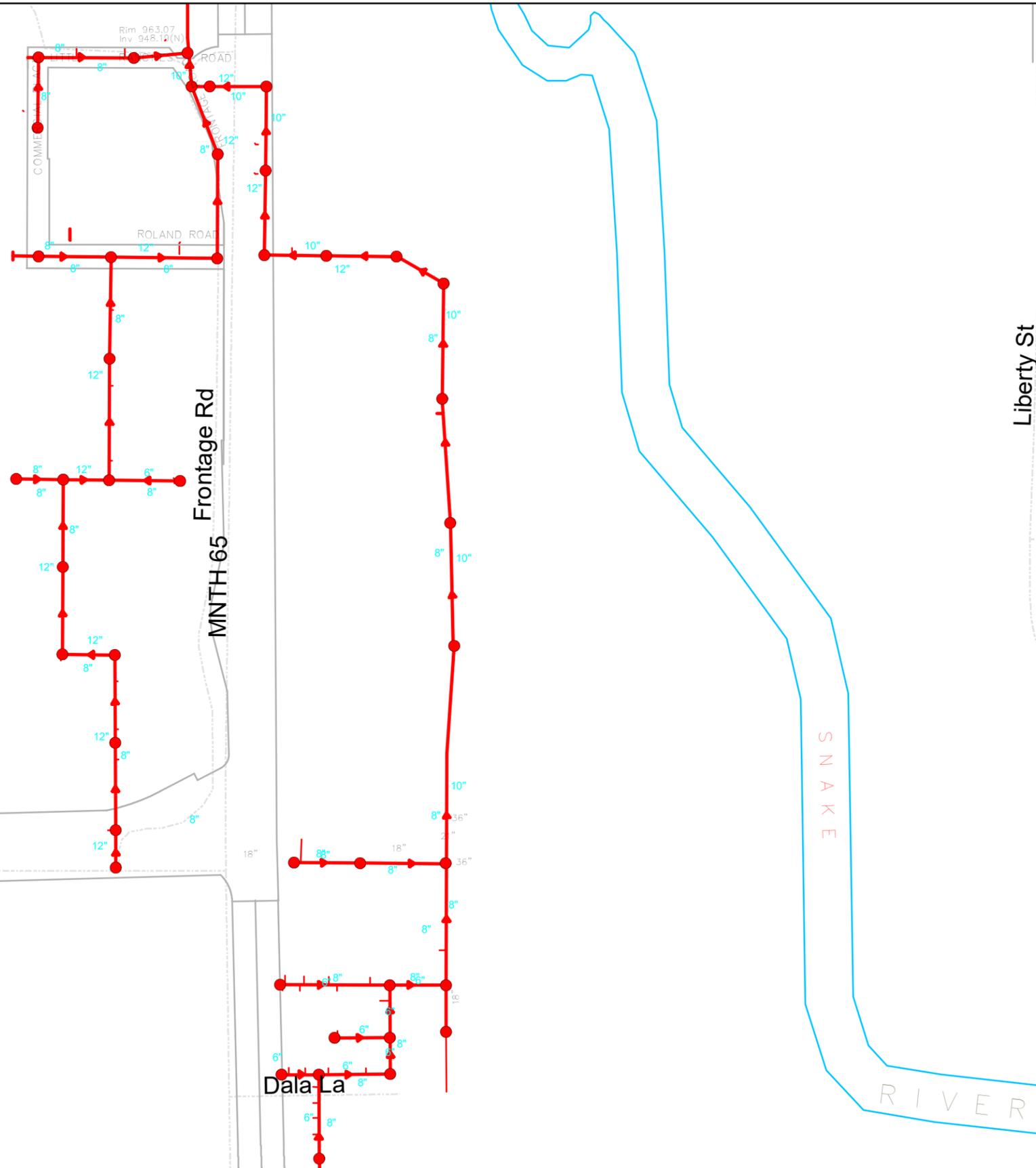
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SANITARY SEWER UTILITES

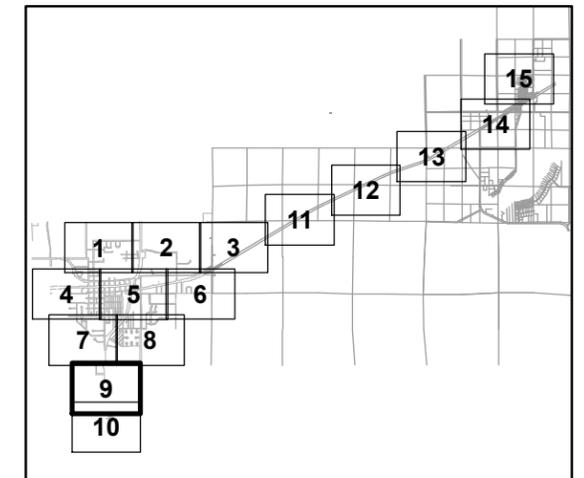
Mora, Minnesota

SO. LINE SEC. 14



Legend

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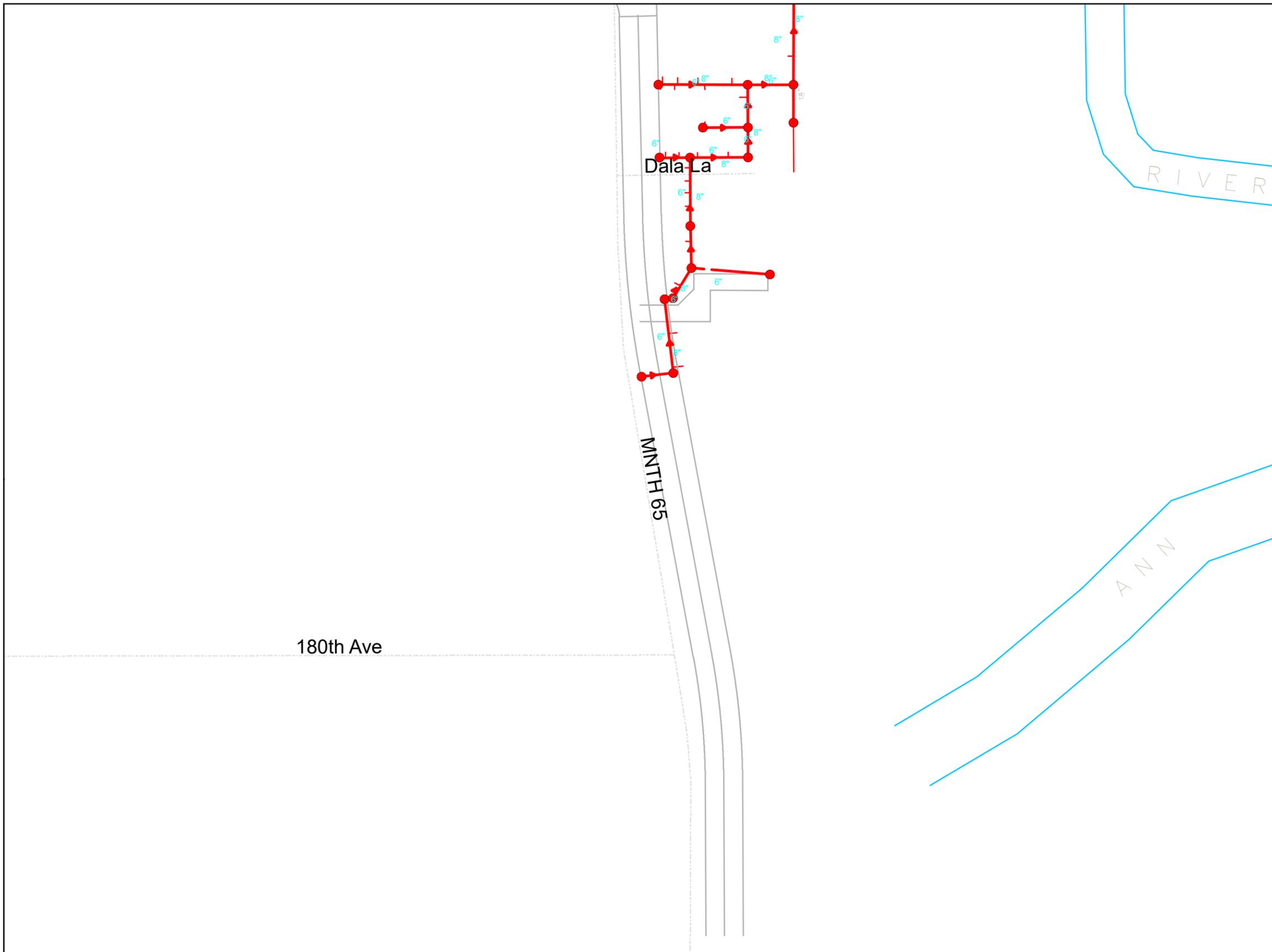


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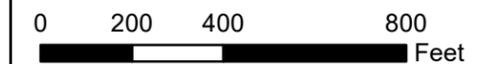
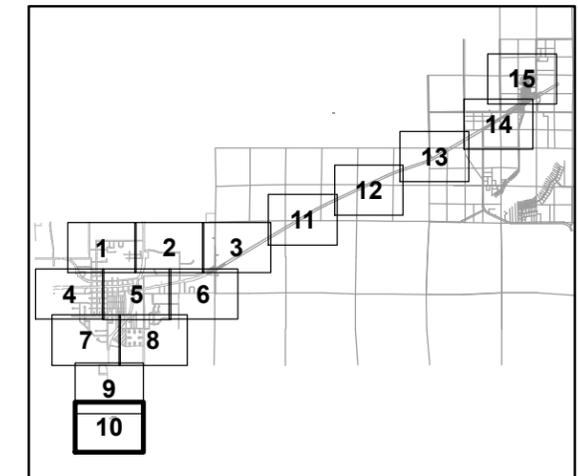
SANITARY SEWER UTILITES

Mora, Minnesota

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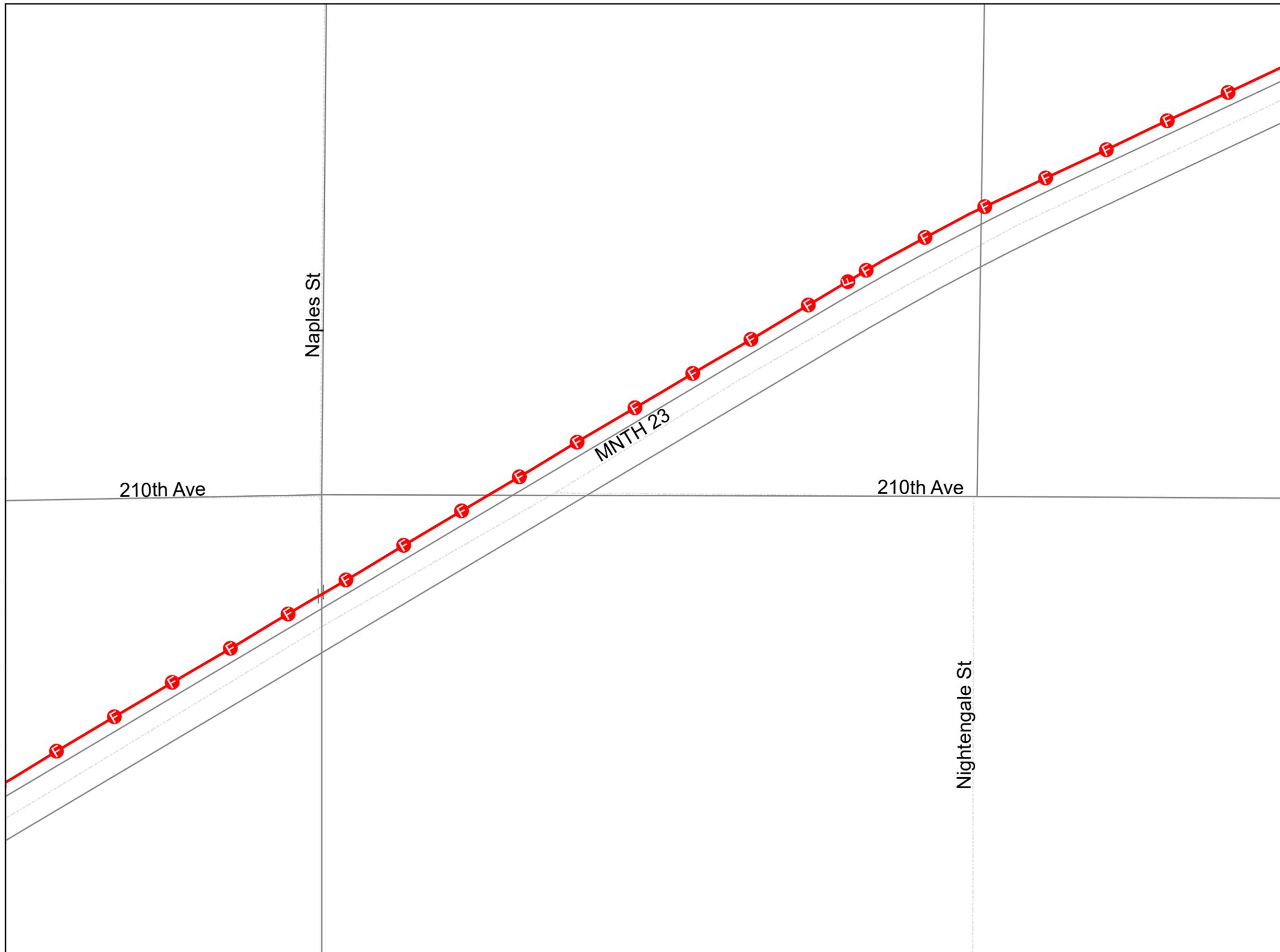
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Mora, Minnesota

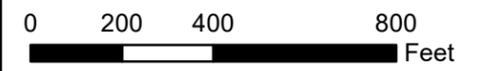
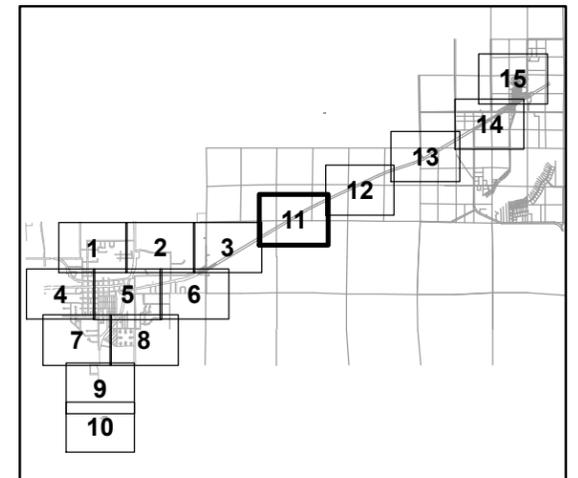
**Sanitary Sewer
Map Book**

**Page
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- Legend**
- Manhole
 - Liftstation
 - ▼ Cleanout and Air Release Valve
 - Sanitary Line
 - Ⓡ Sanitary Forcemain
 - Airport
 - Curb
 - Lotline
 - ROW
 - Trails
 - Road
 - Water
 - Sanitary Issues



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Project: XXXXX 000000
Print Date: 9/21/2022

Map by: SRH
Projection: Kanabec CC
Source: SEH Inc and City of Mora

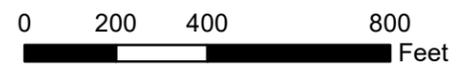
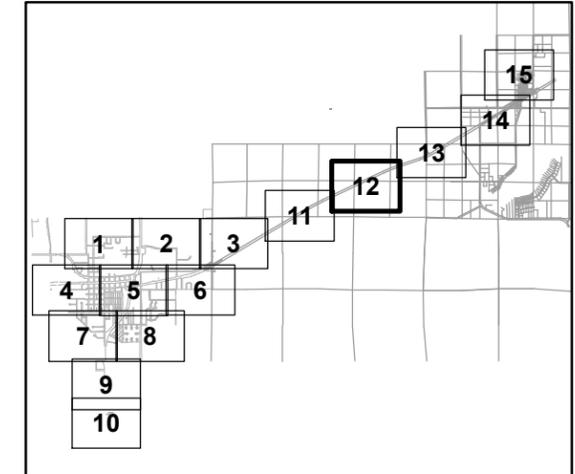
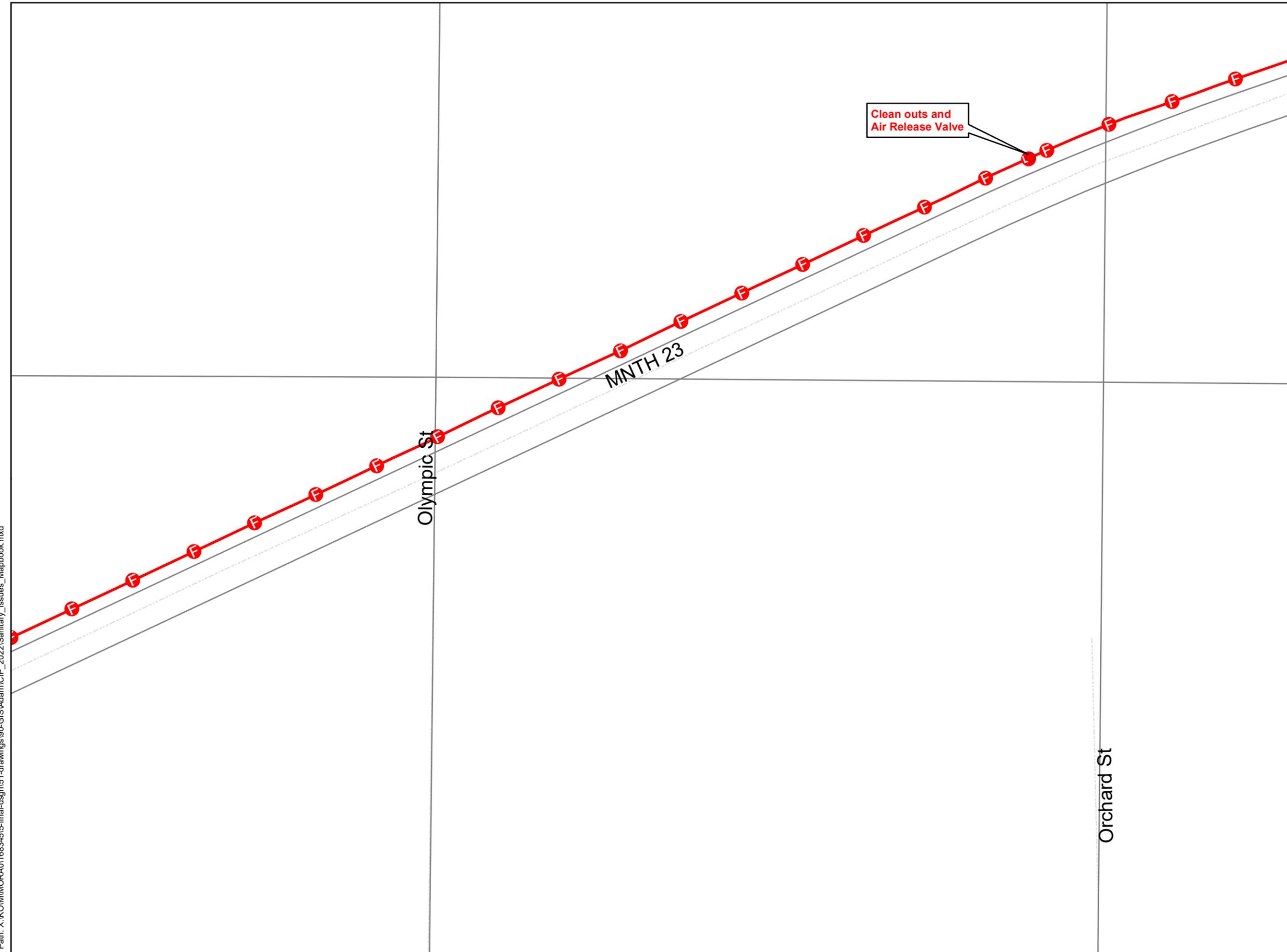
SANITARY SEWER UTILITES

Mora, Minnesota

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Legend

- Manhole
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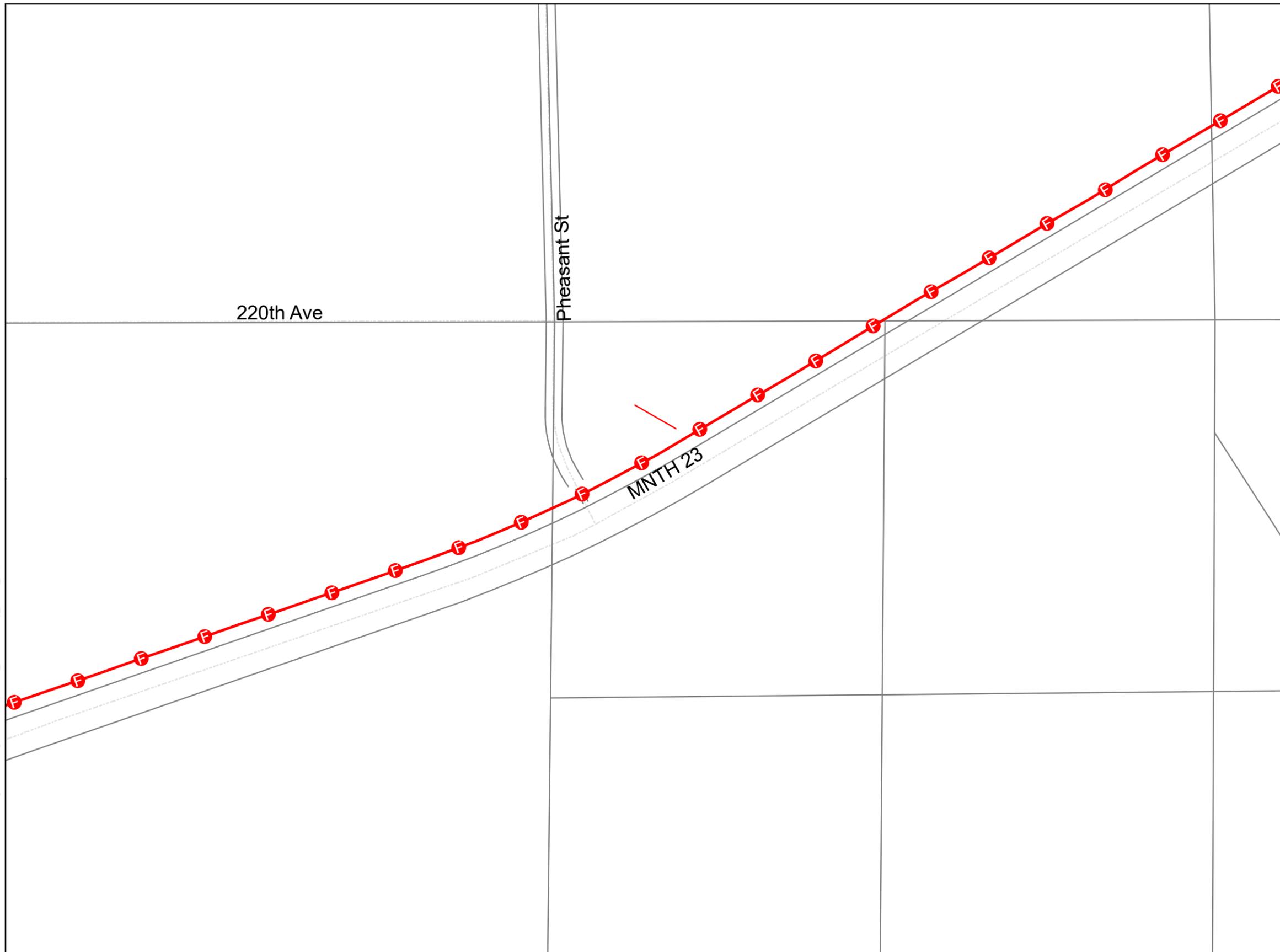


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SANITARY SEWER UTILITES

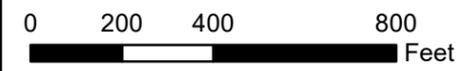
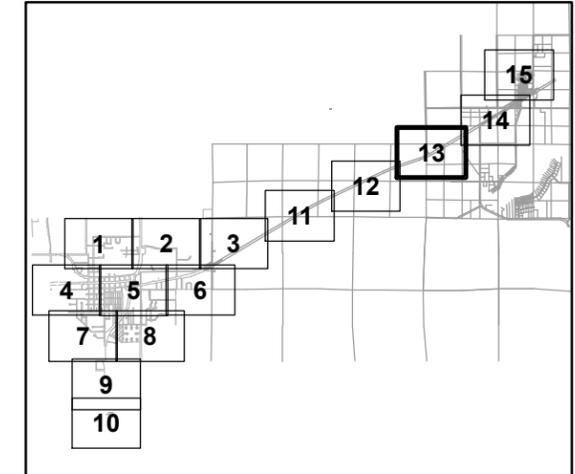
Mora, Minnesota

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Legend

- Manhole
- Liftstation
- ▼ Cleanout and Air Release Valve
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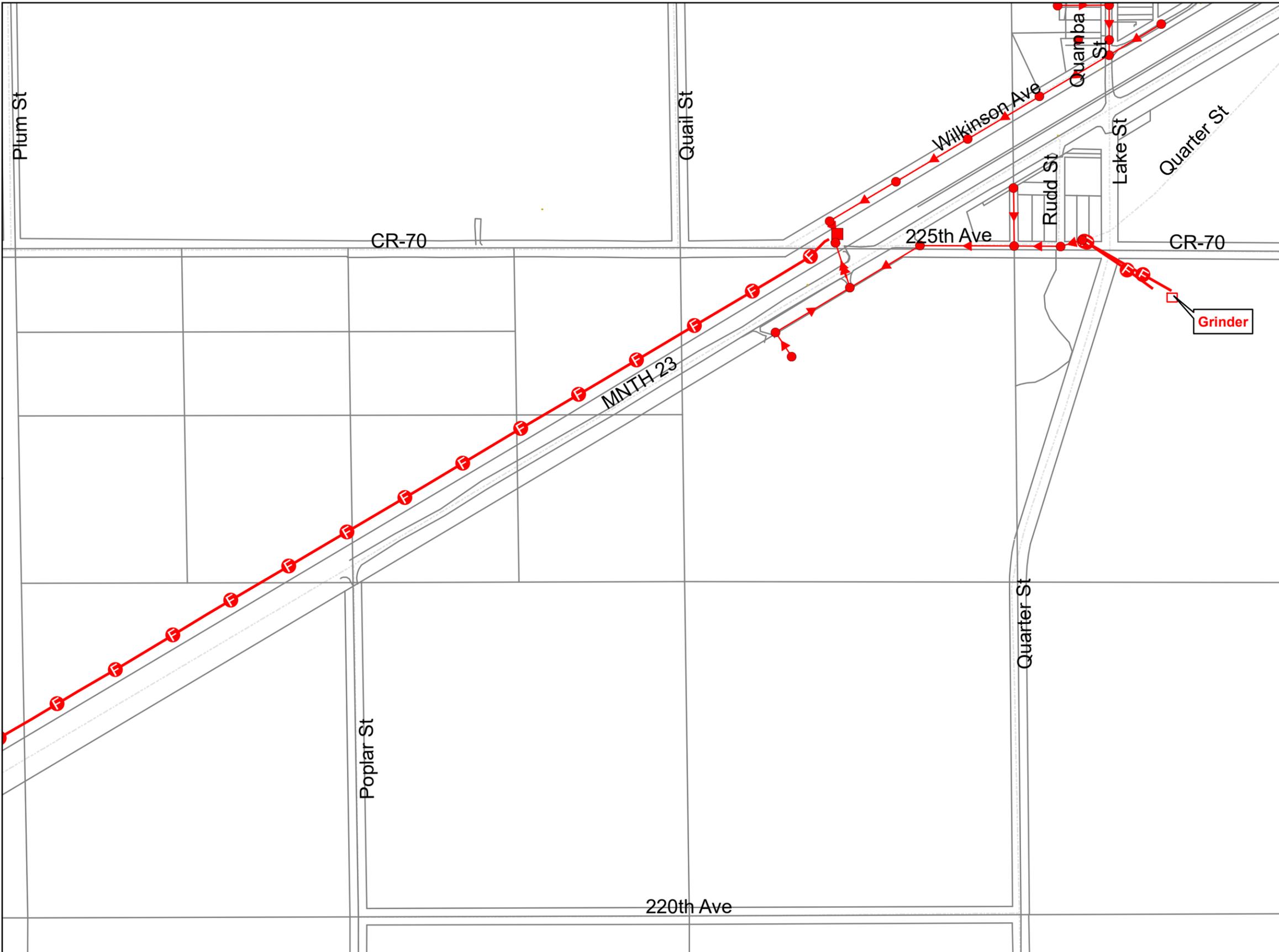
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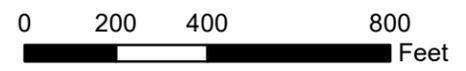
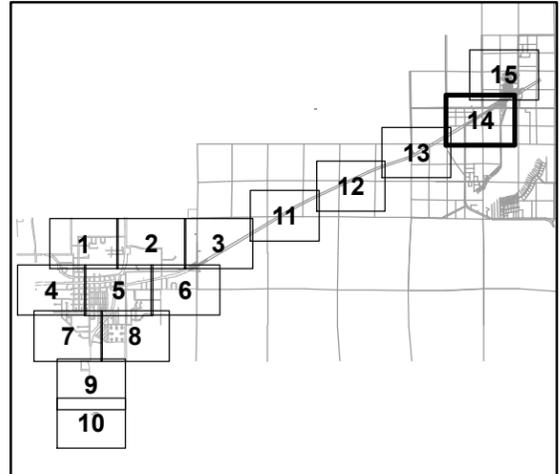
SANITARY SEWER UTILITES

Mora, Minnesota

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- Legend**
- Manhole
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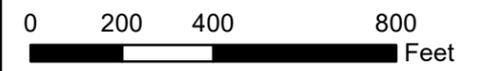
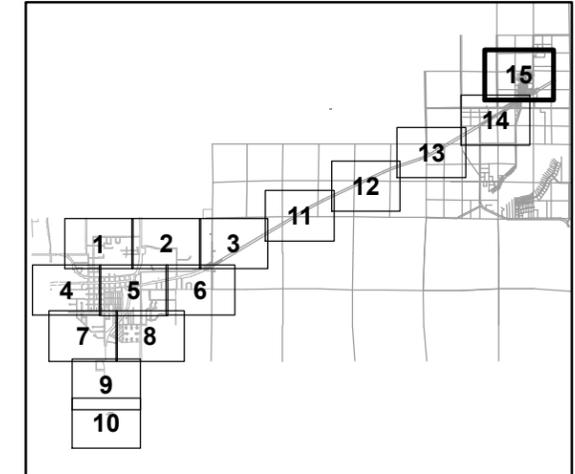
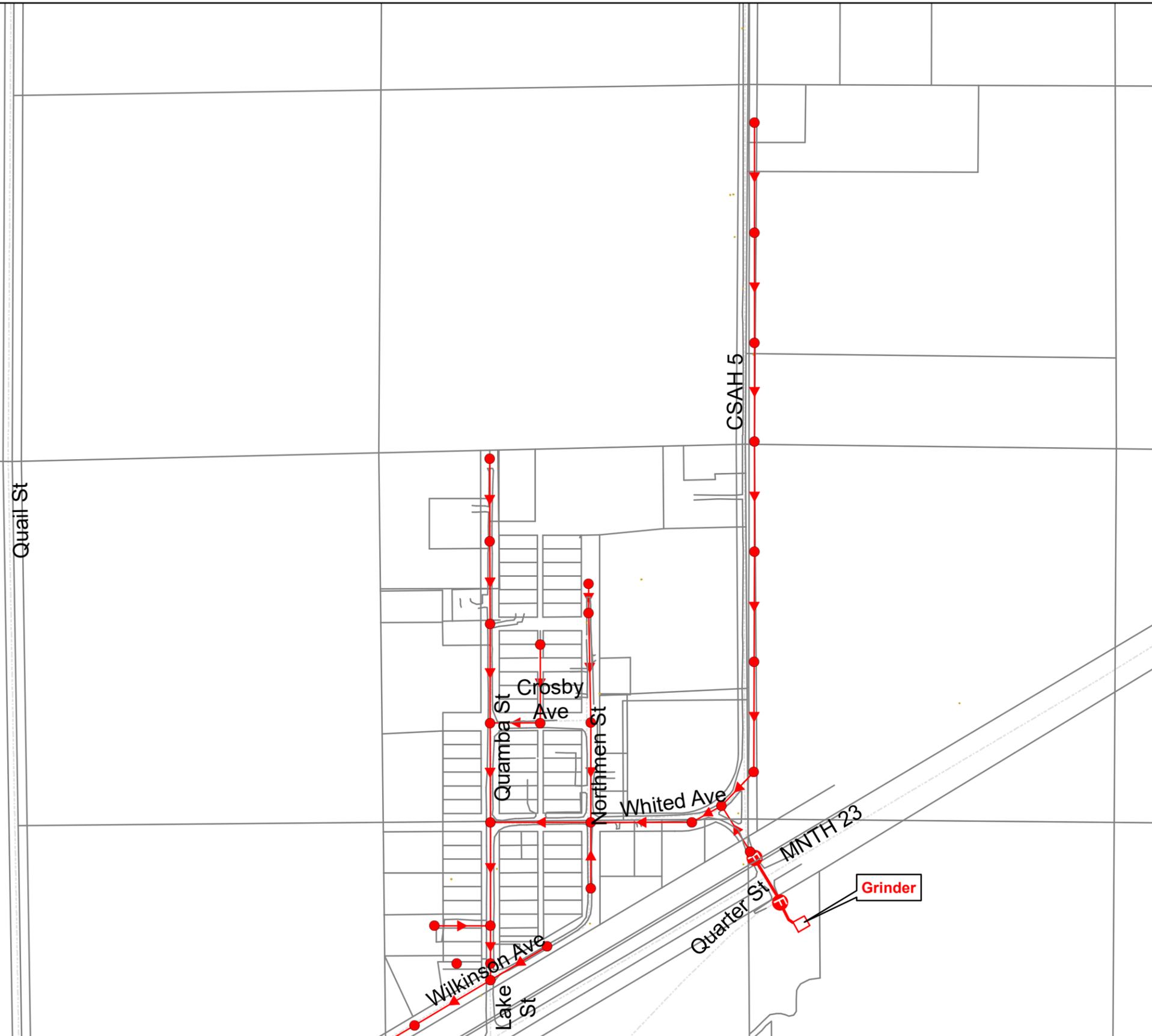
SANITARY SEWER UTILITES

Mora, Minnesota

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Legend

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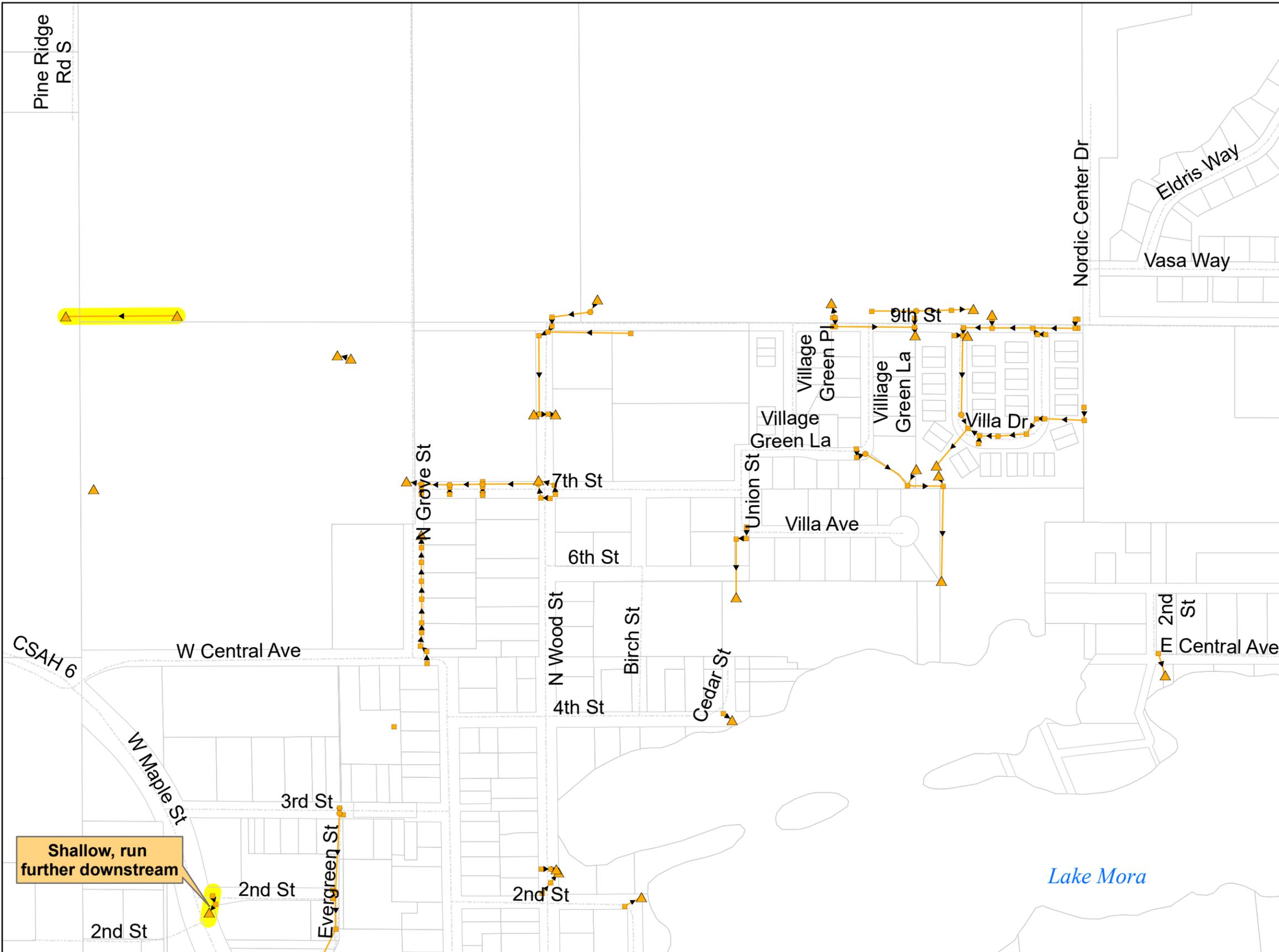
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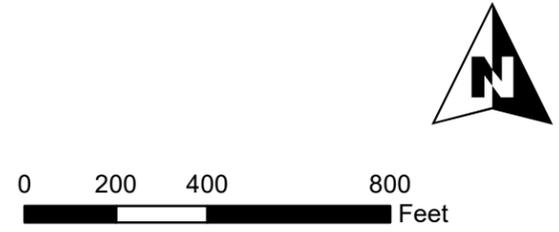
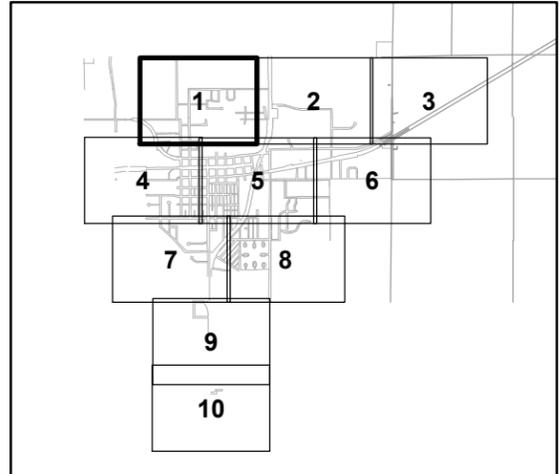
SANITARY SEWER UTILITES

Mora, Minnesota

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- Legend**
- FES
 - Manhole
 - Catchbasin
 - Storm Pipe
 - Storm Issues



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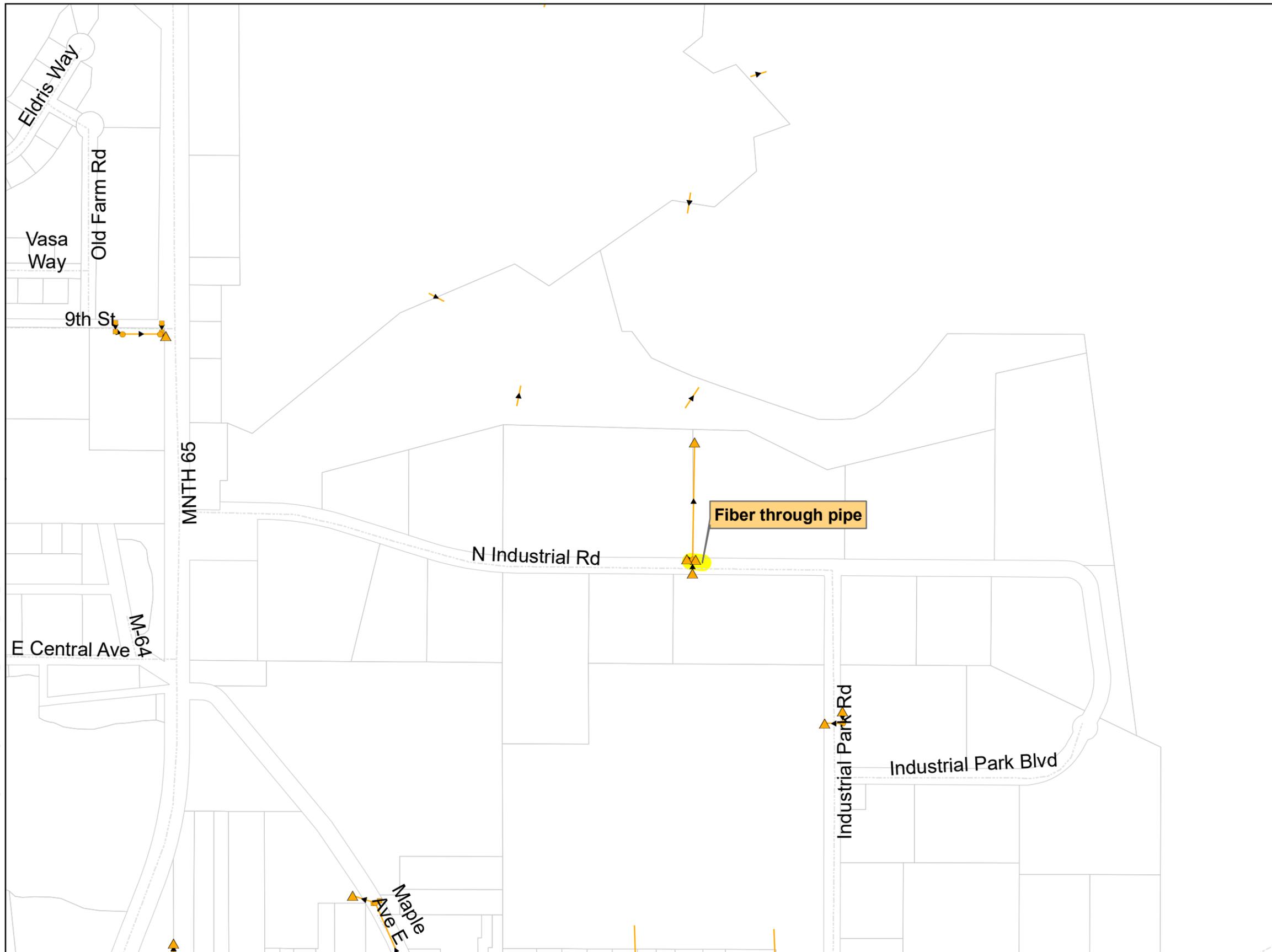
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Projection: Kanabec CC
Source: SEH Inc and City of Mora

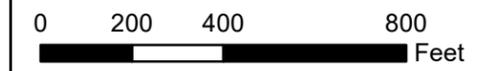
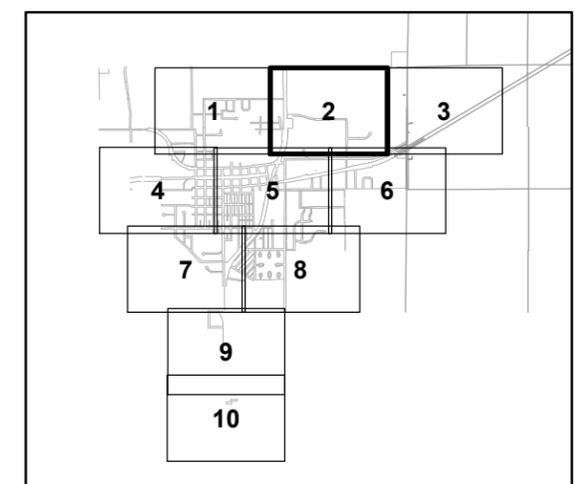
STORM SEWER UTILITES

Mora, Minnesota

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- Legend**
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STORM SEWER UTILITES

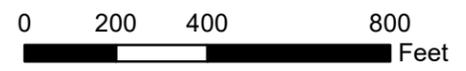
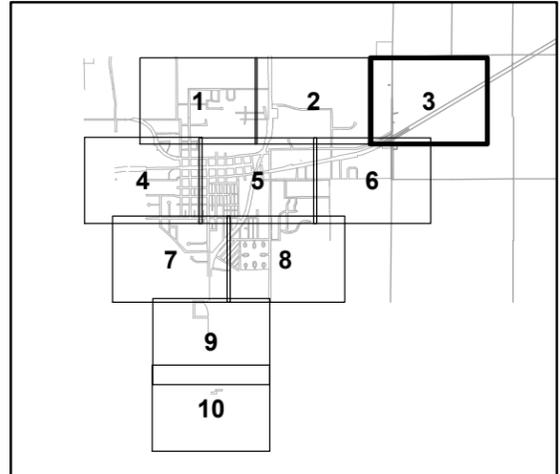
Mora, Minnesota

**Storm Sewer
Map Book**

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- Legend**
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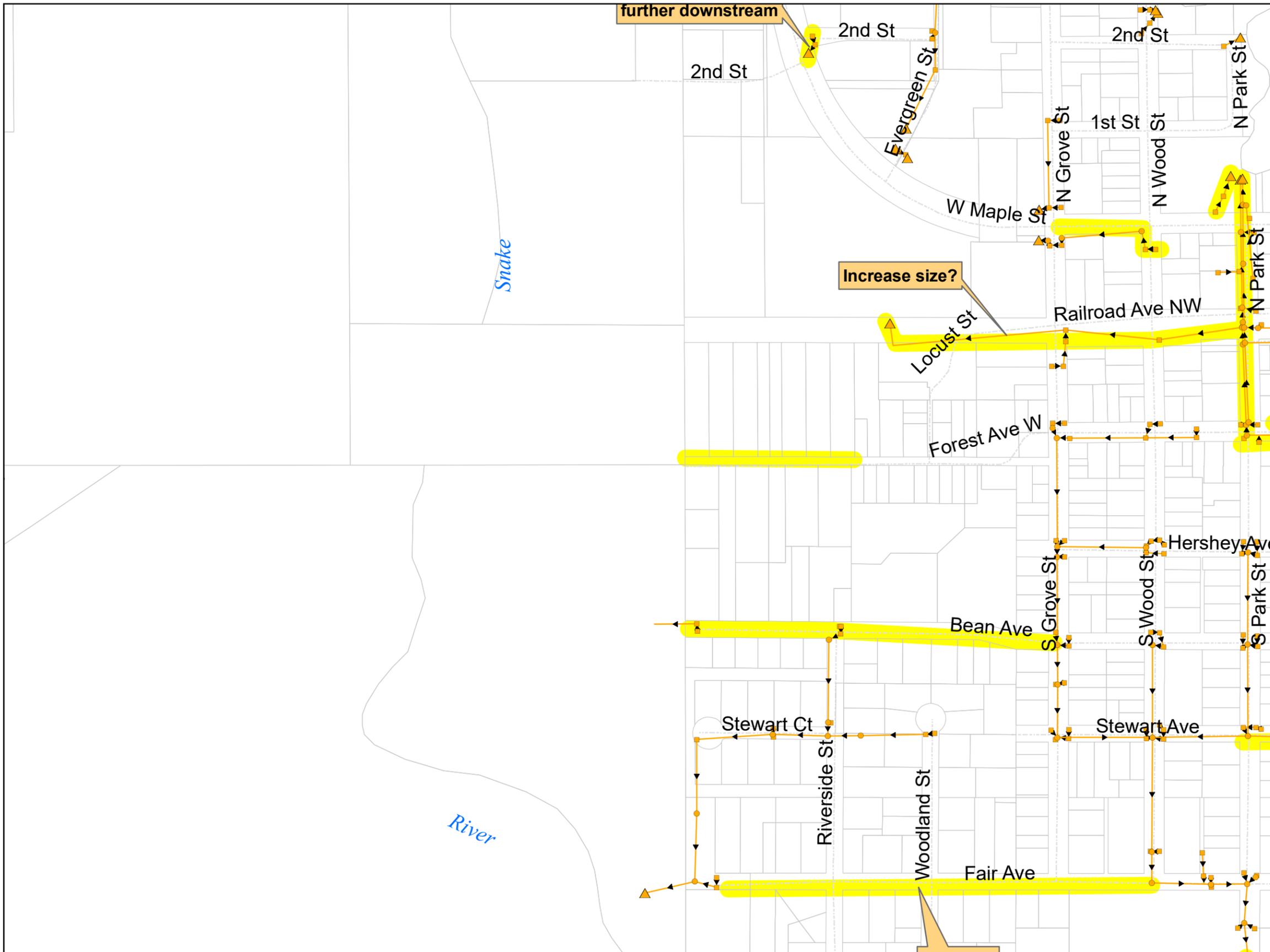
STORM SEWER UTILITES

Mora, Minnesota

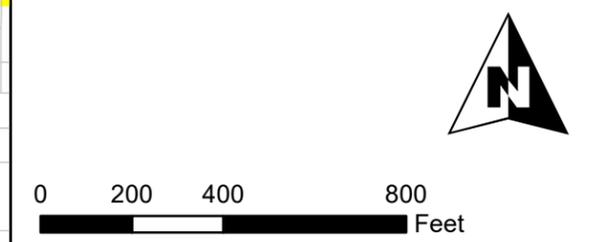
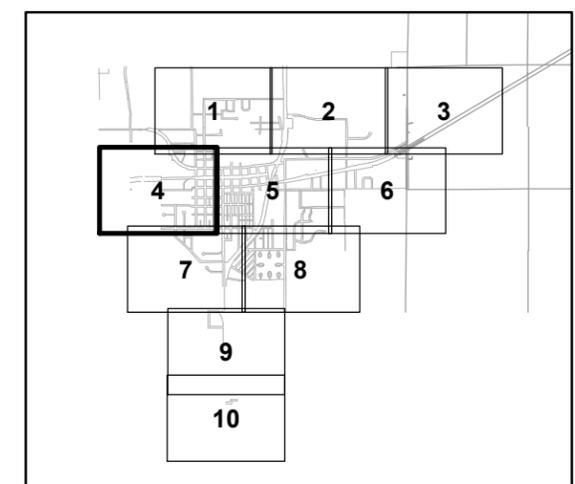
**Storm Sewer
Map Book**

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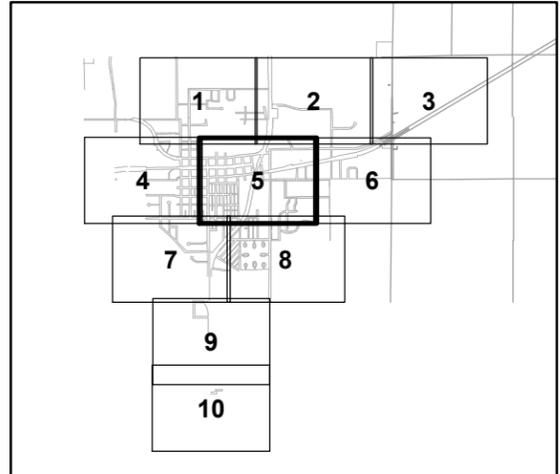
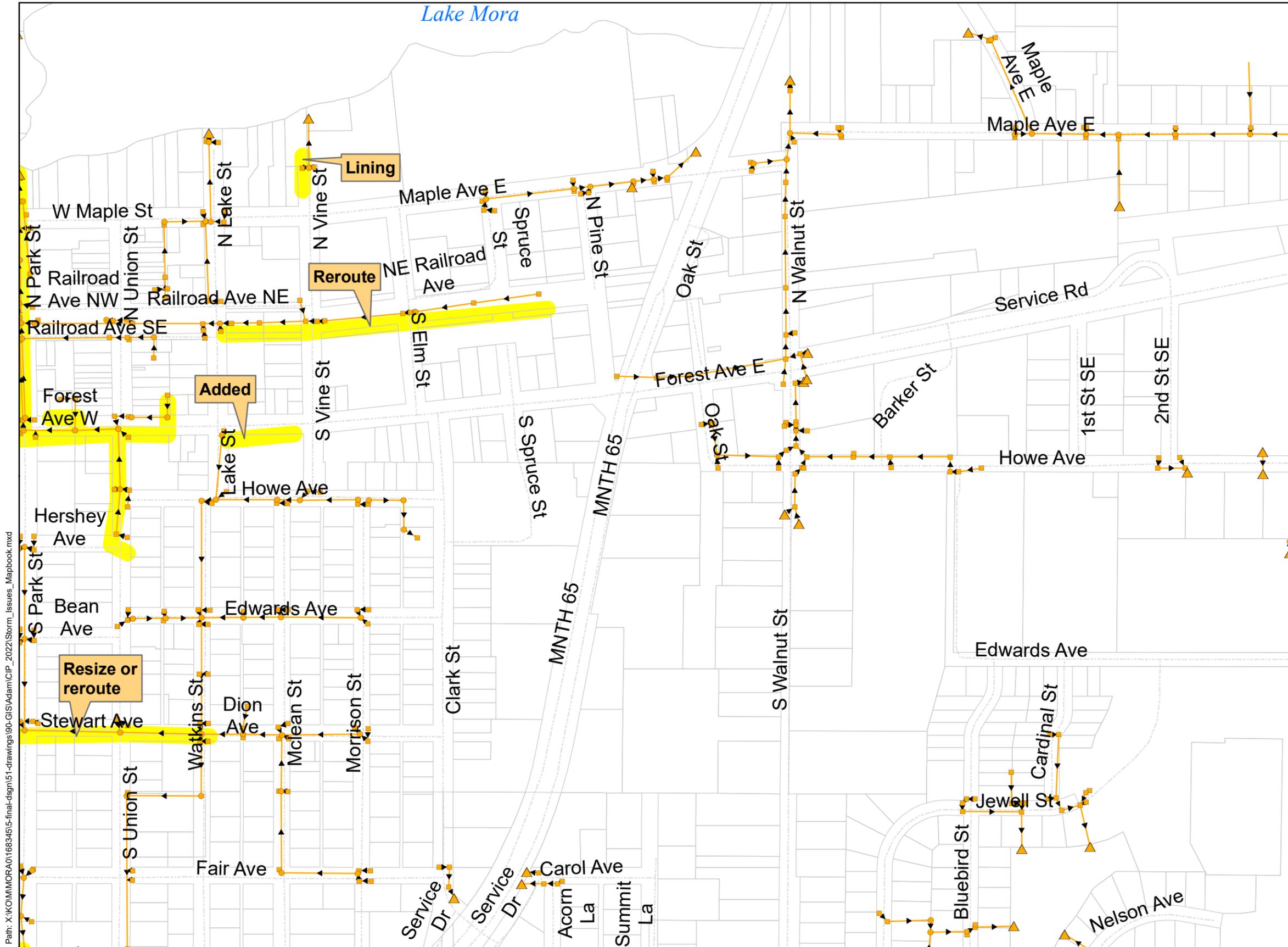
STORM SEWER UTILITES

Mora, Minnesota

Lake Mora

Legend

- ▲ FES
- Manhole
- Catchbasin
- Storm Pipe
- Storm Issues



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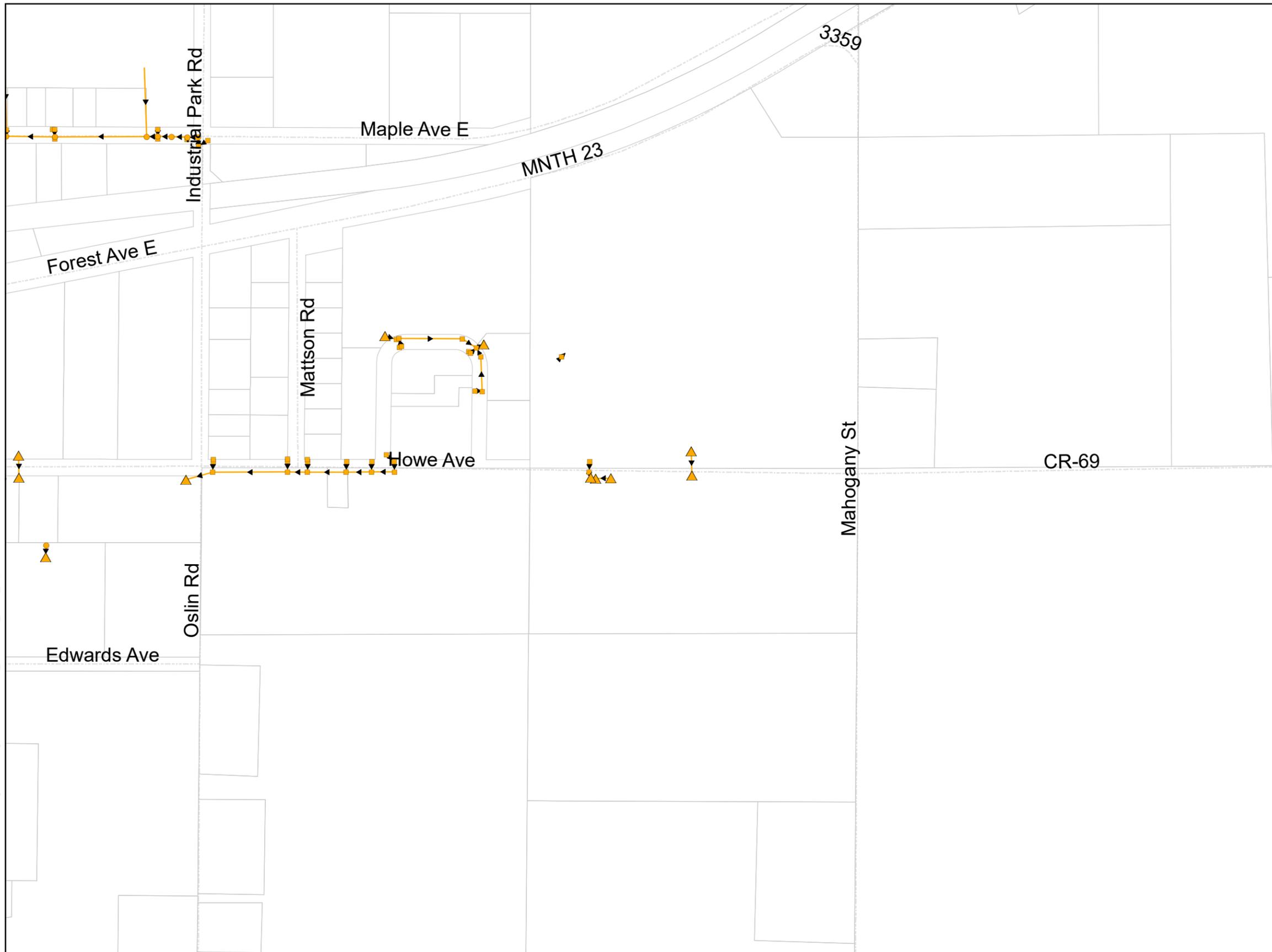
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STORM SEWER UTILITES

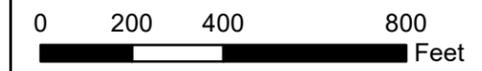
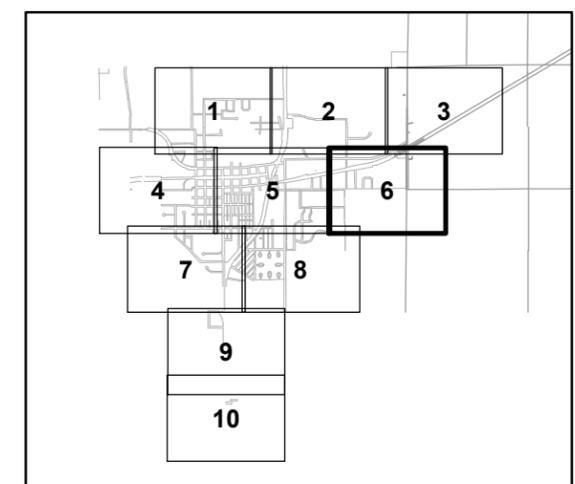
Mora, Minnesota

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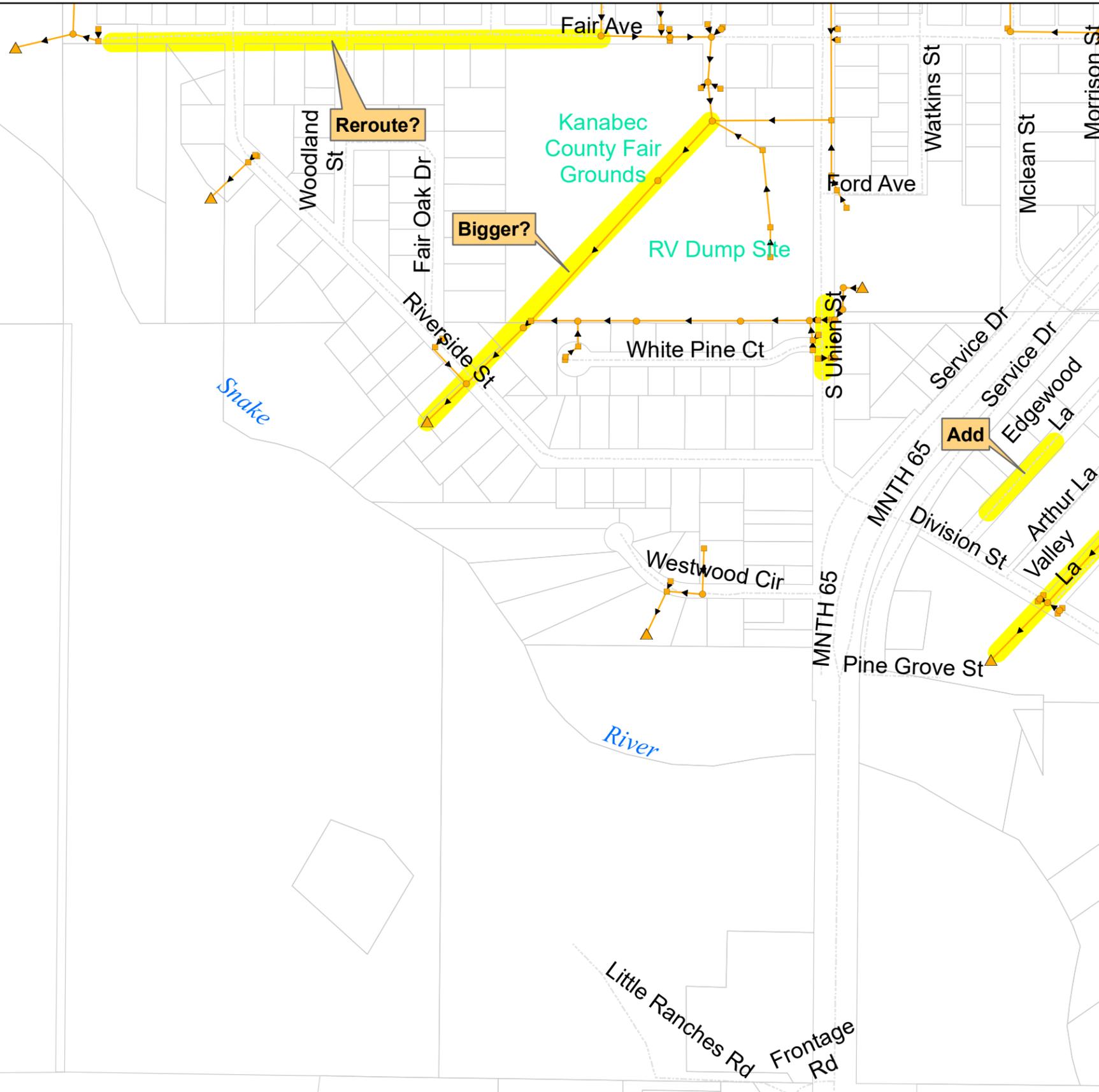
STORM SEWER UTILITES

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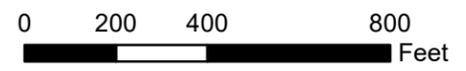
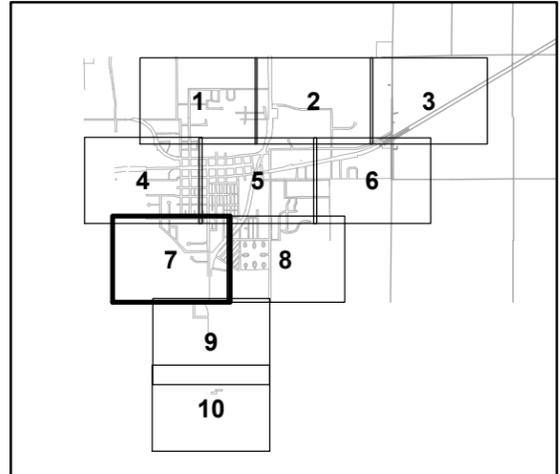
**Storm Sewer
Map Book**

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- Legend**
- ▲ FES
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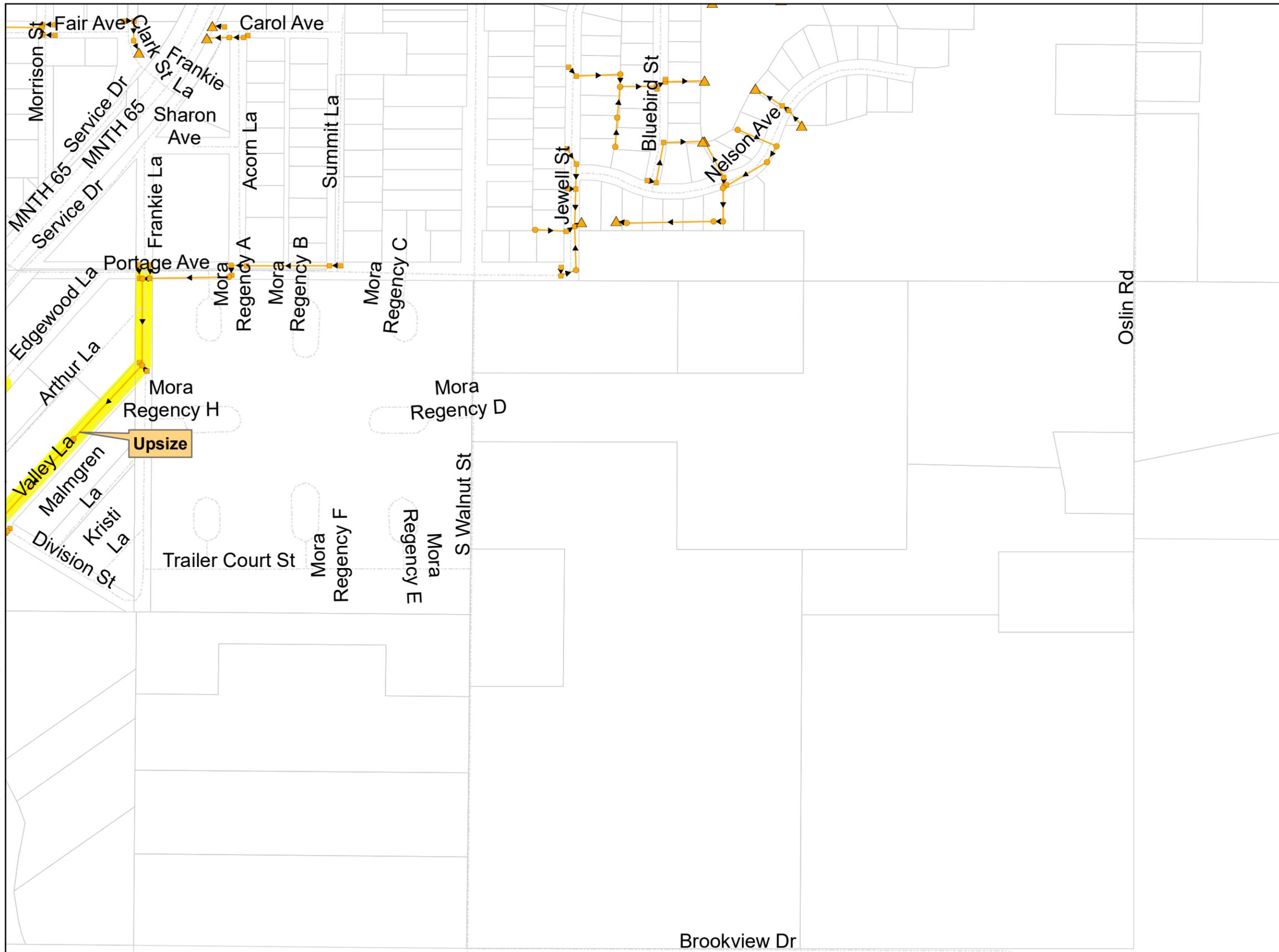


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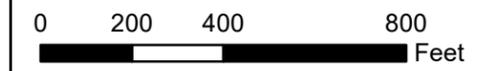
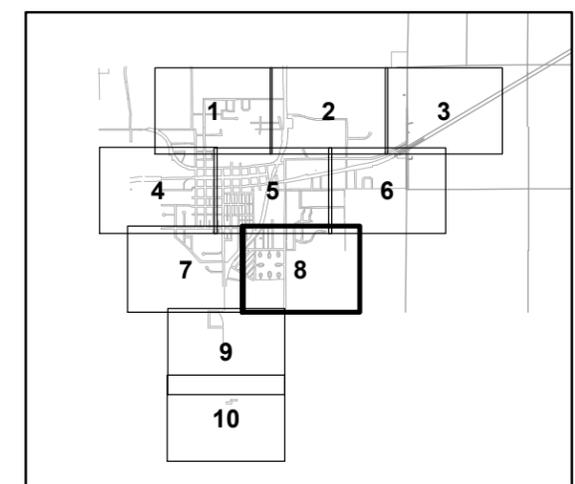
STORM SEWER UTILITES

Mora, Minnesota

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STORM SEWER UTILITES

Mora, Minnesota

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Little Ranches Rd

Frontage Rd

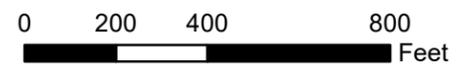
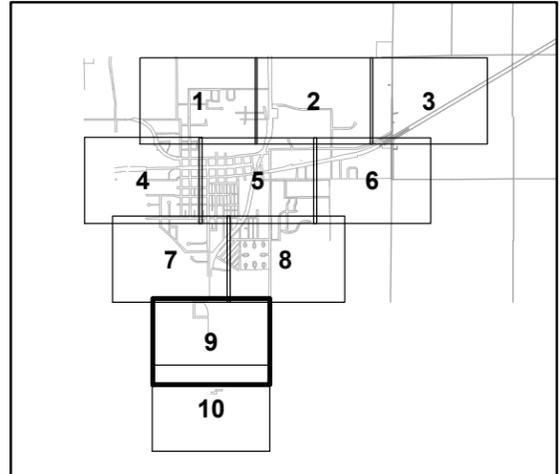
MNTH 65

MNTH 23

Liberty St

Dala La

- Legend**
-  FES
 -  Manhole
 -  Catchbasin
 -  Storm Pipe
 -  Storm Issues



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STORM SEWER UTILITES

Mora, Minnesota

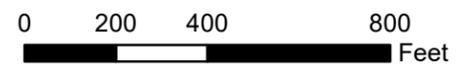
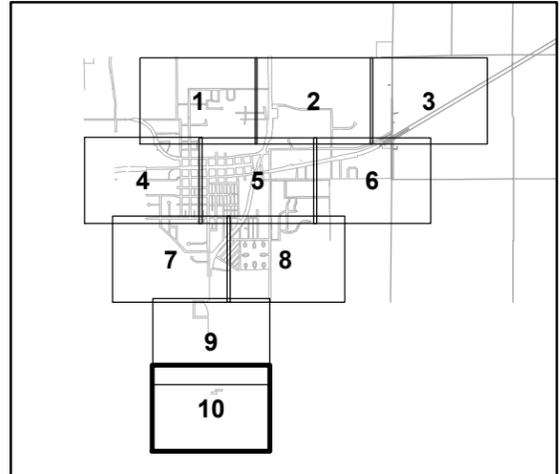
**Storm Sewer
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- Legend**
-  FES
 -  Manhole
 -  Catchbasin
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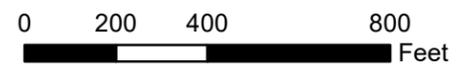
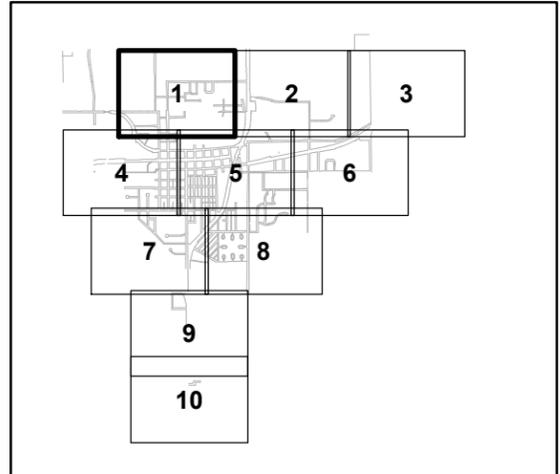
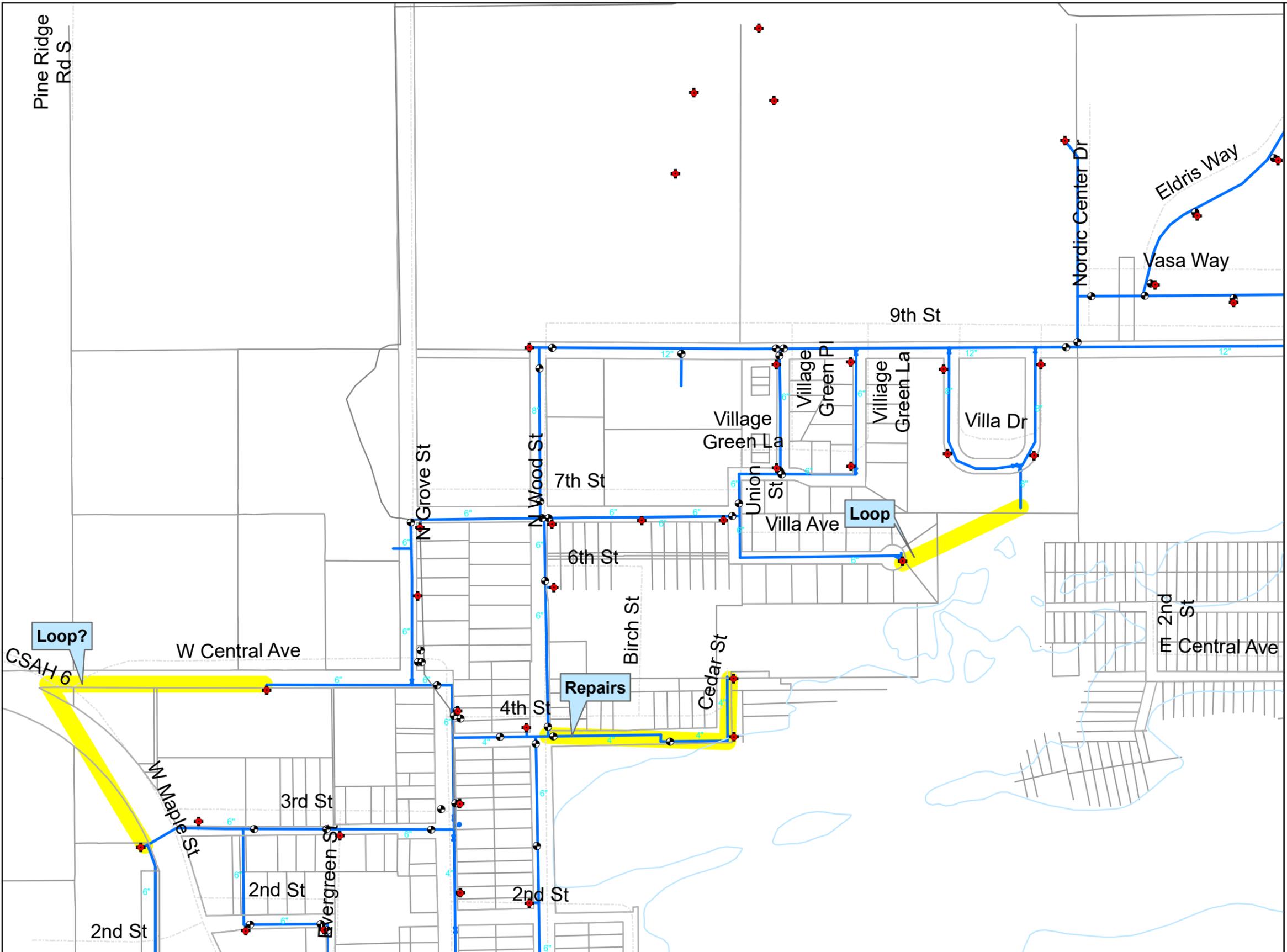
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Pine Ridge Rd S

Legend

- Hydrant
- Valves
- Water System
- Airport
- Curb
- Sidewalk
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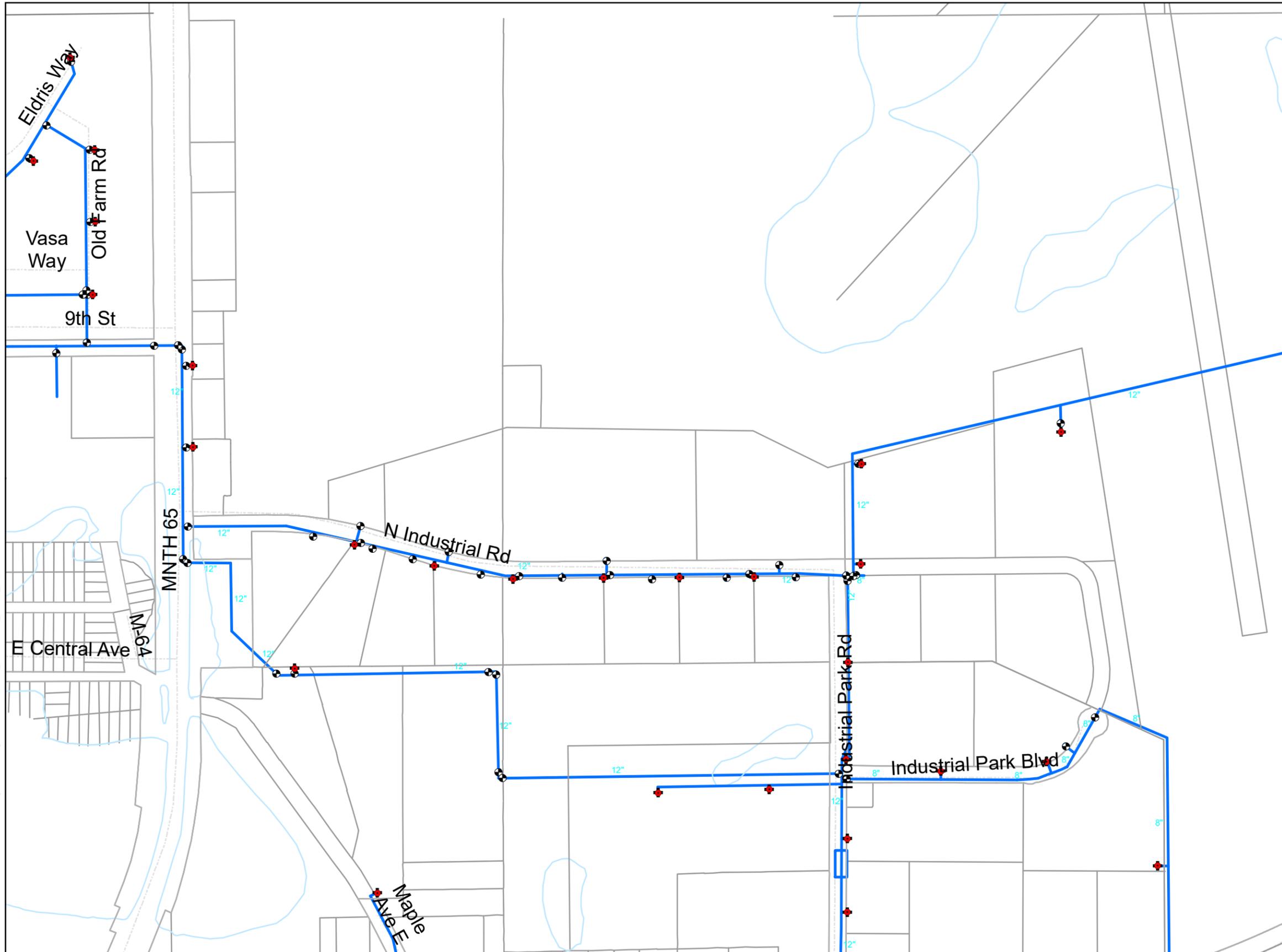
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Mora, Minnesota

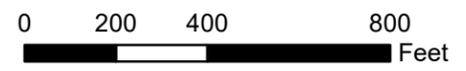
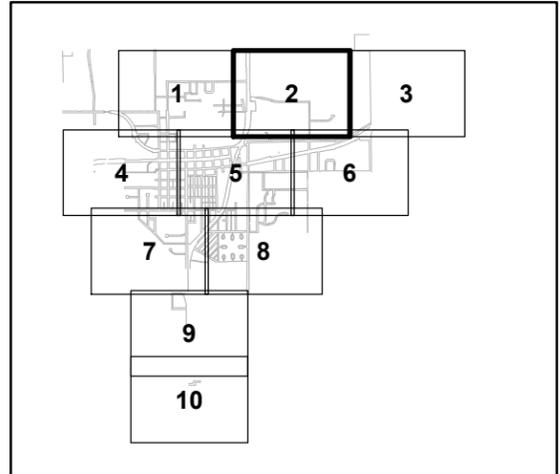
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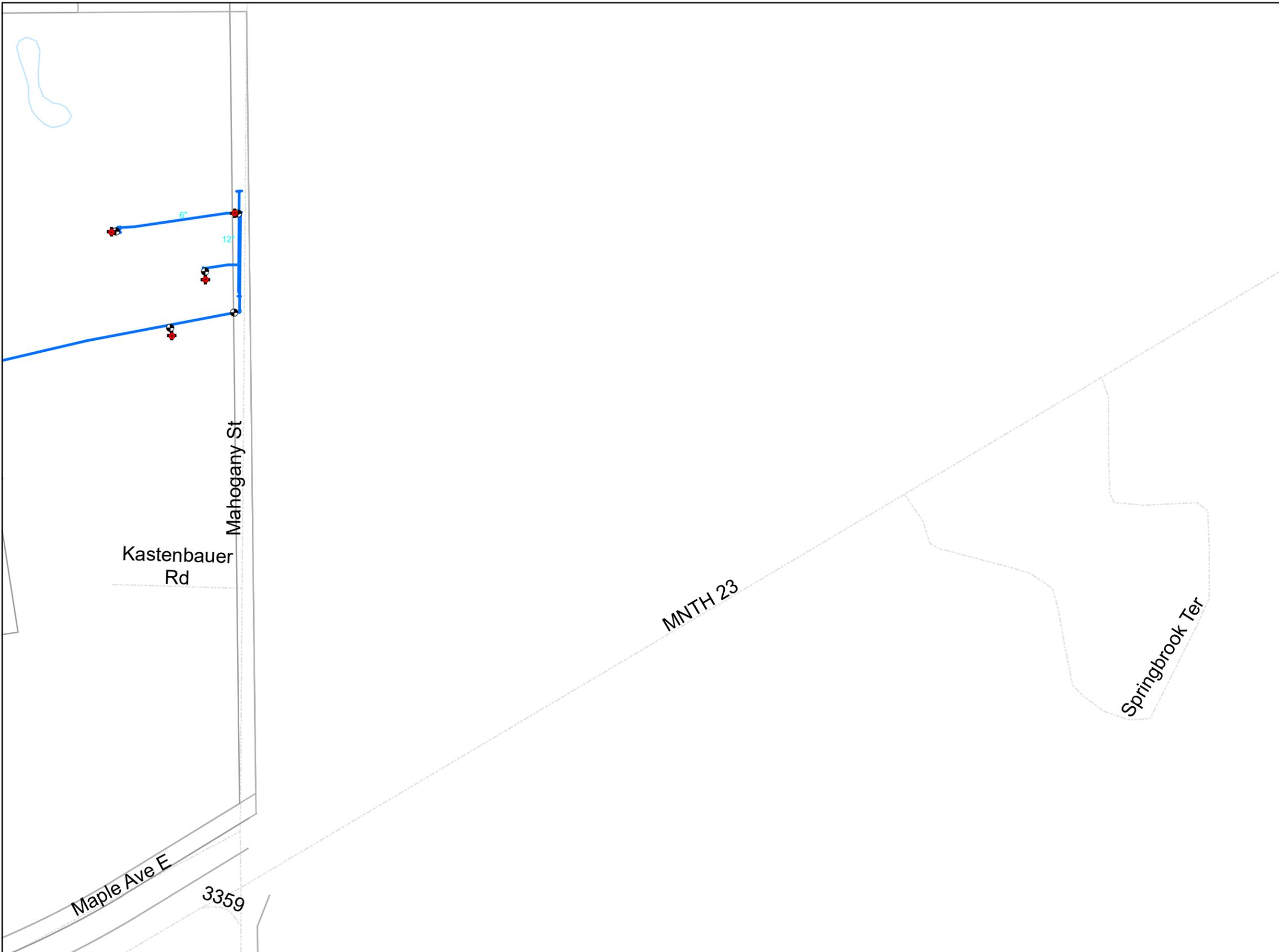
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Mora, Minnesota

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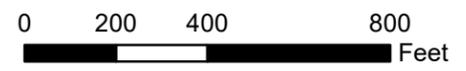
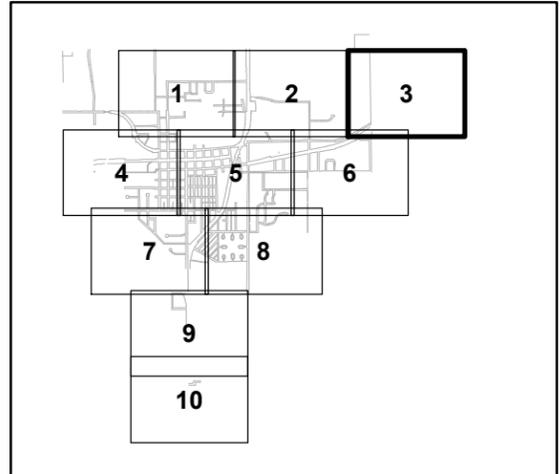
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Legend

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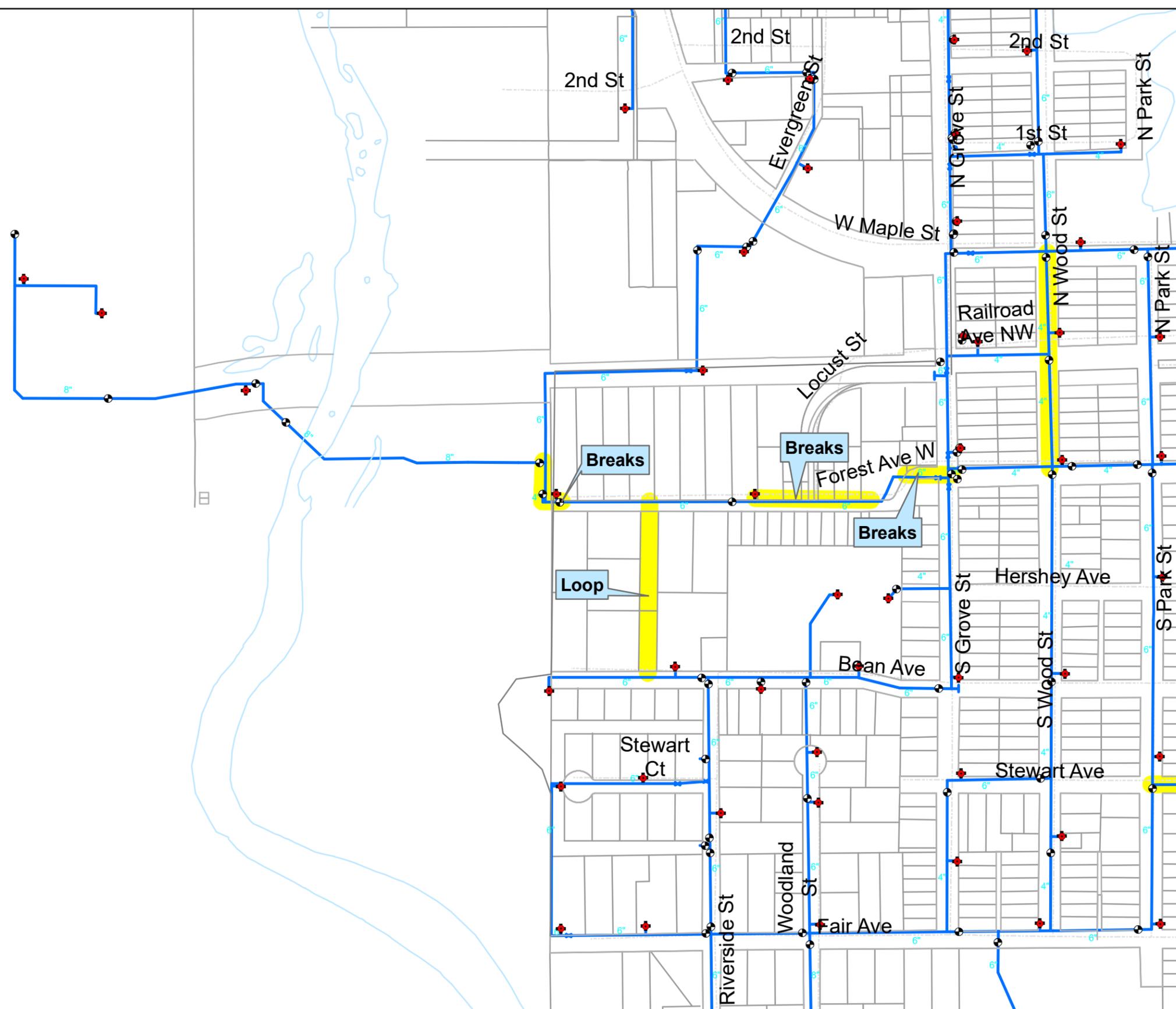
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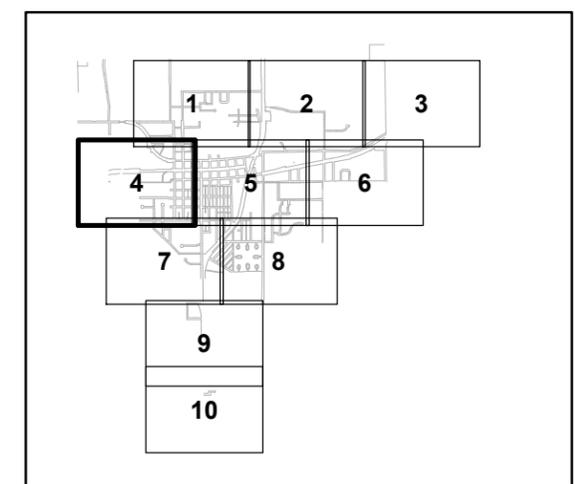
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Legend

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0 200 400 800 Feet

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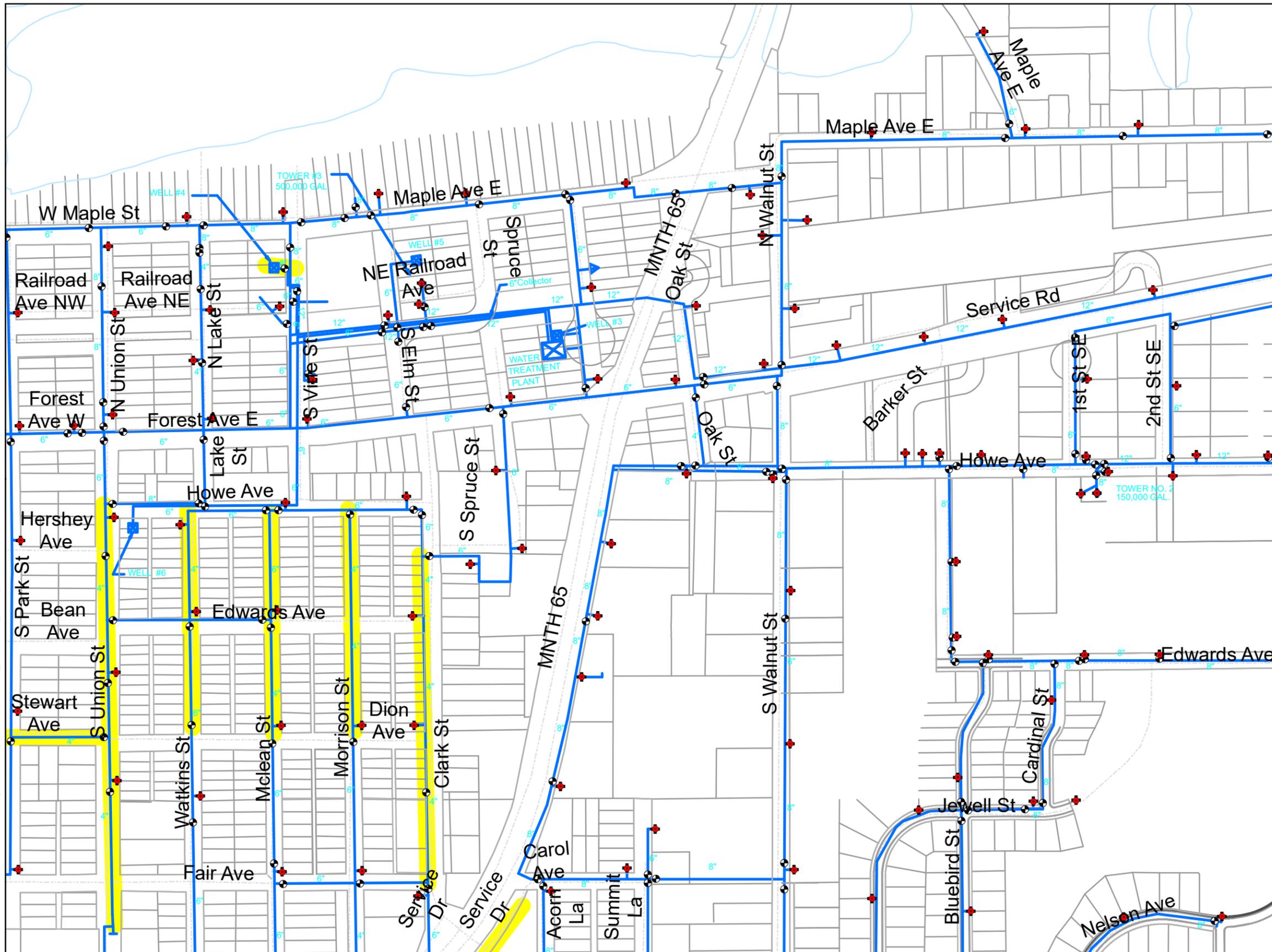
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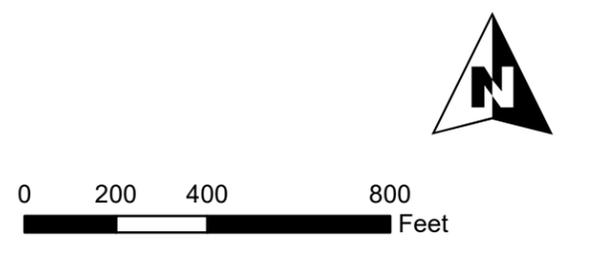
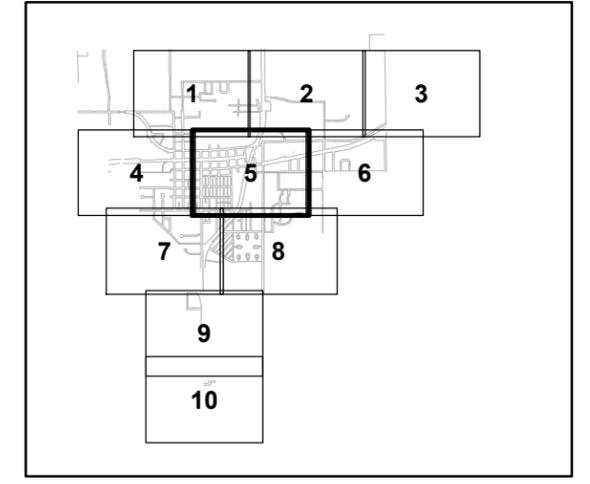
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Legend

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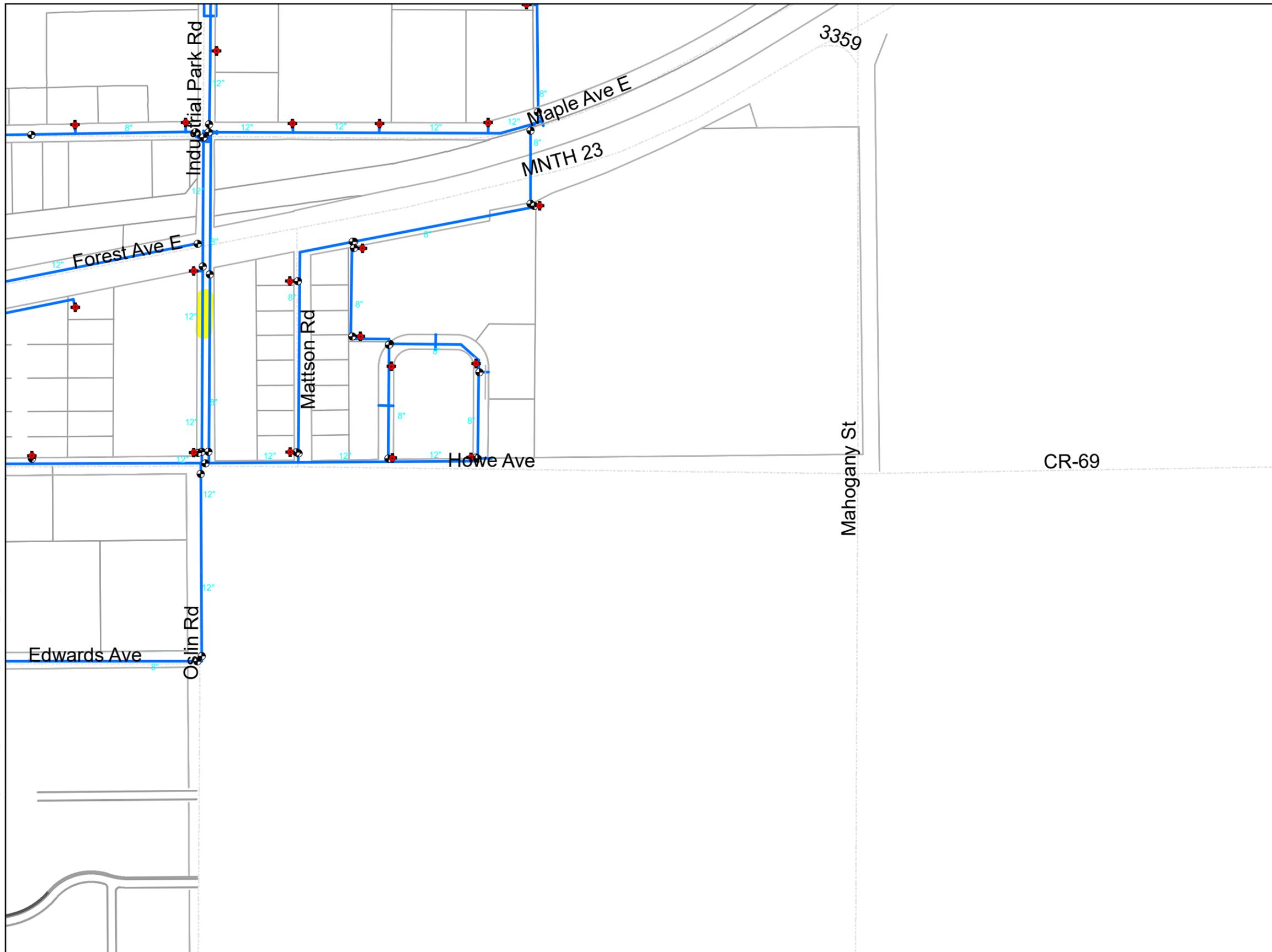
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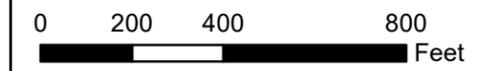
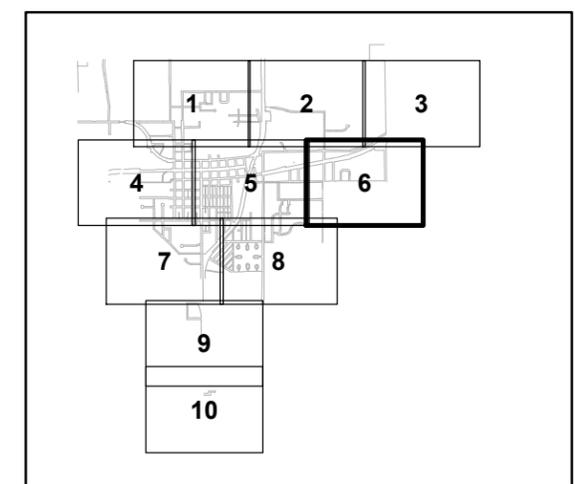
WATER UTILITES

Mora, Minnesota

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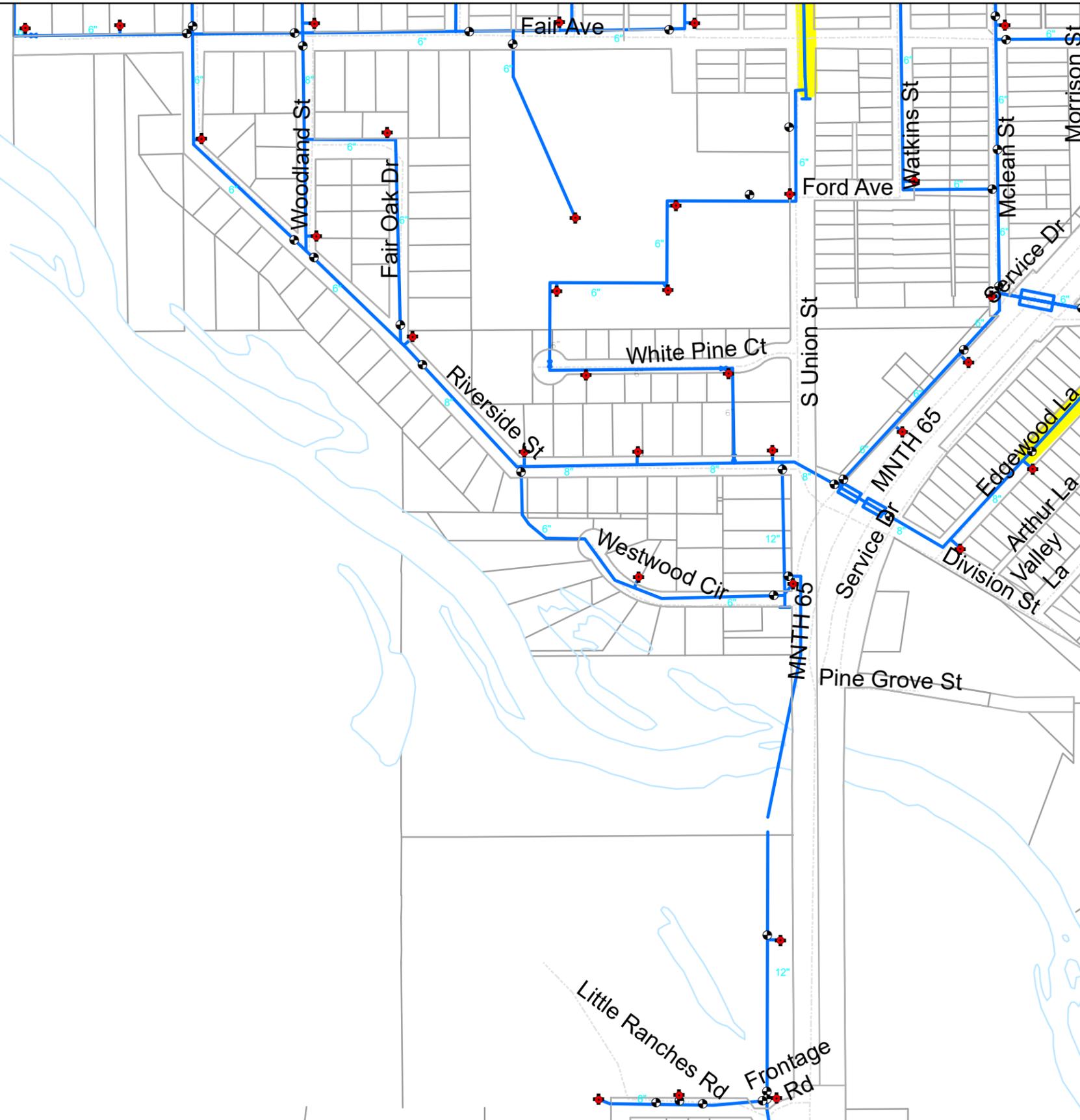
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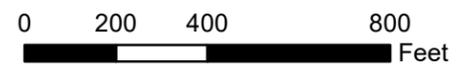
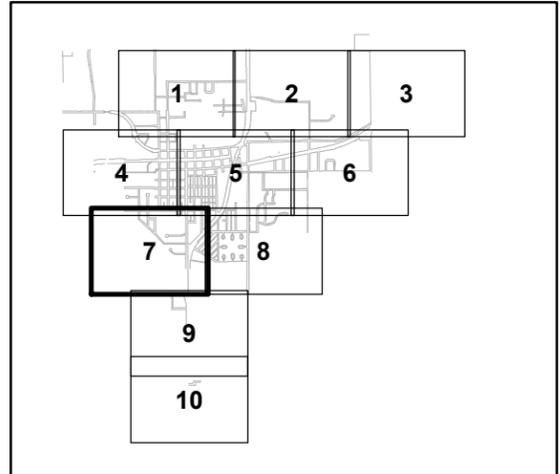
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Mora, Minnesota

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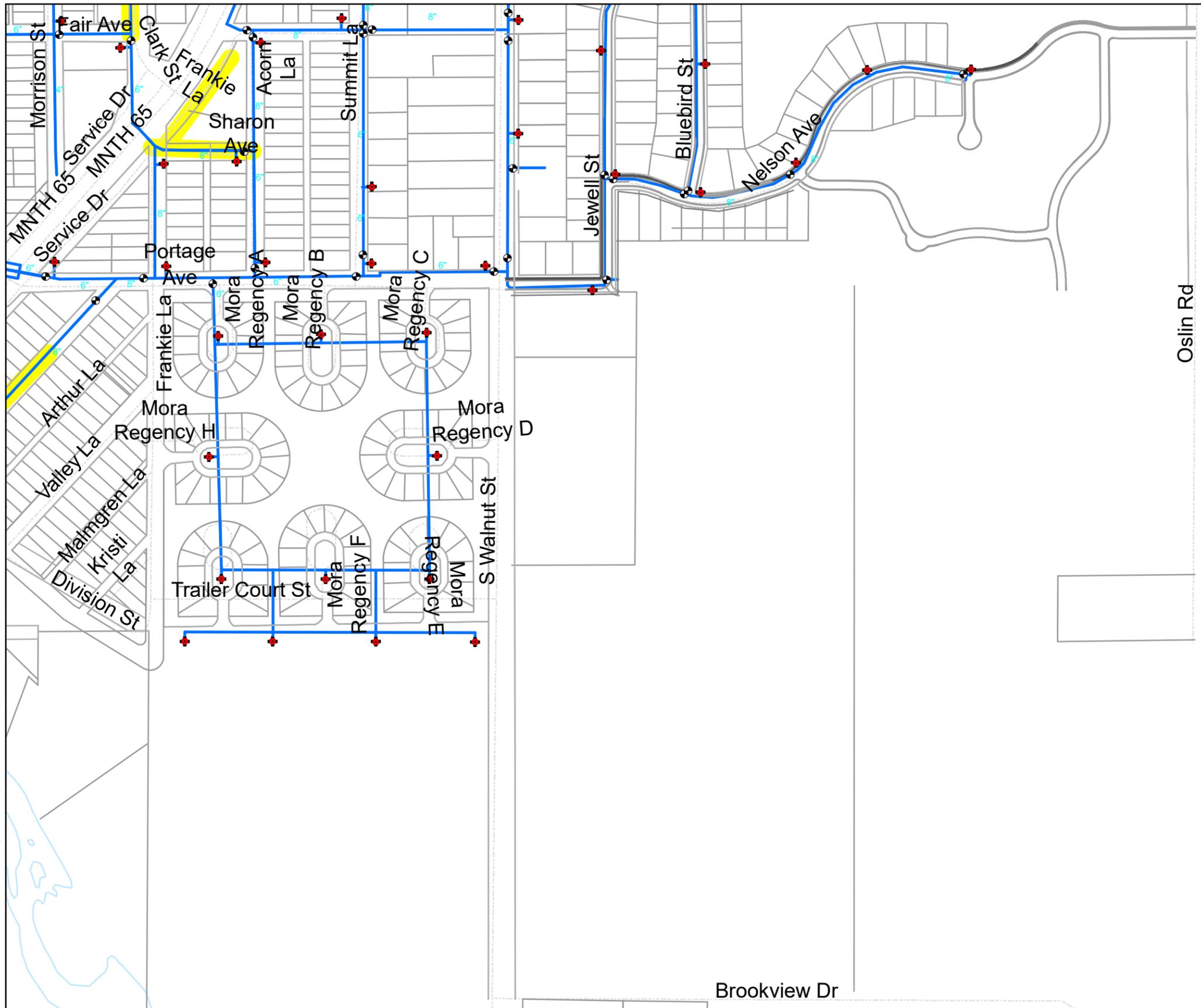
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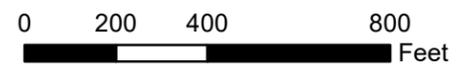
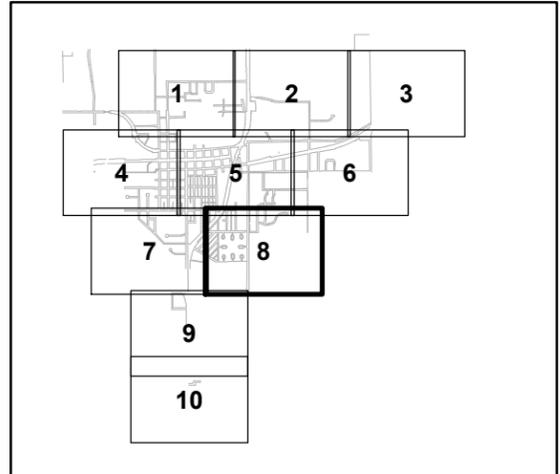
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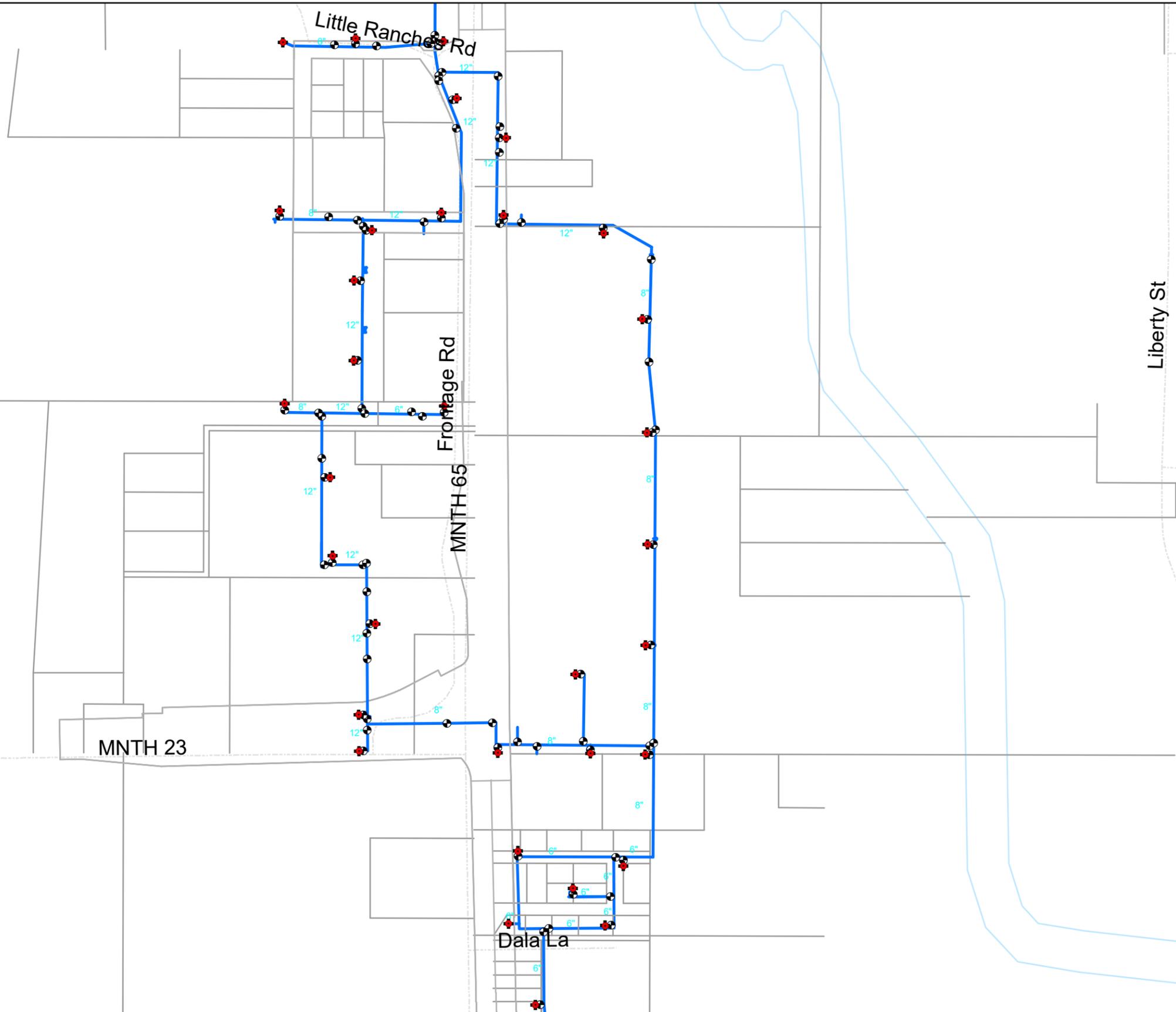
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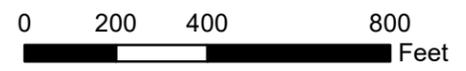
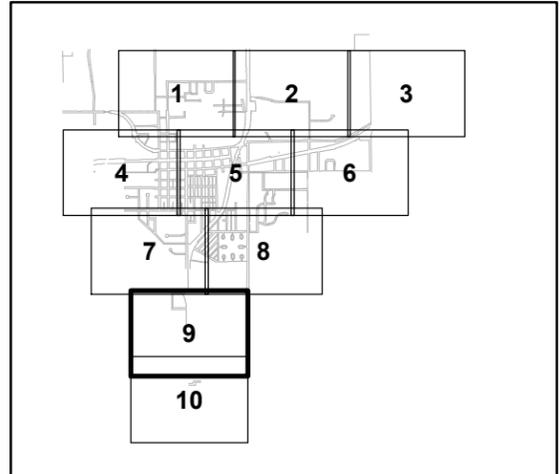
WATER UTILITES

Mora, Minnesota

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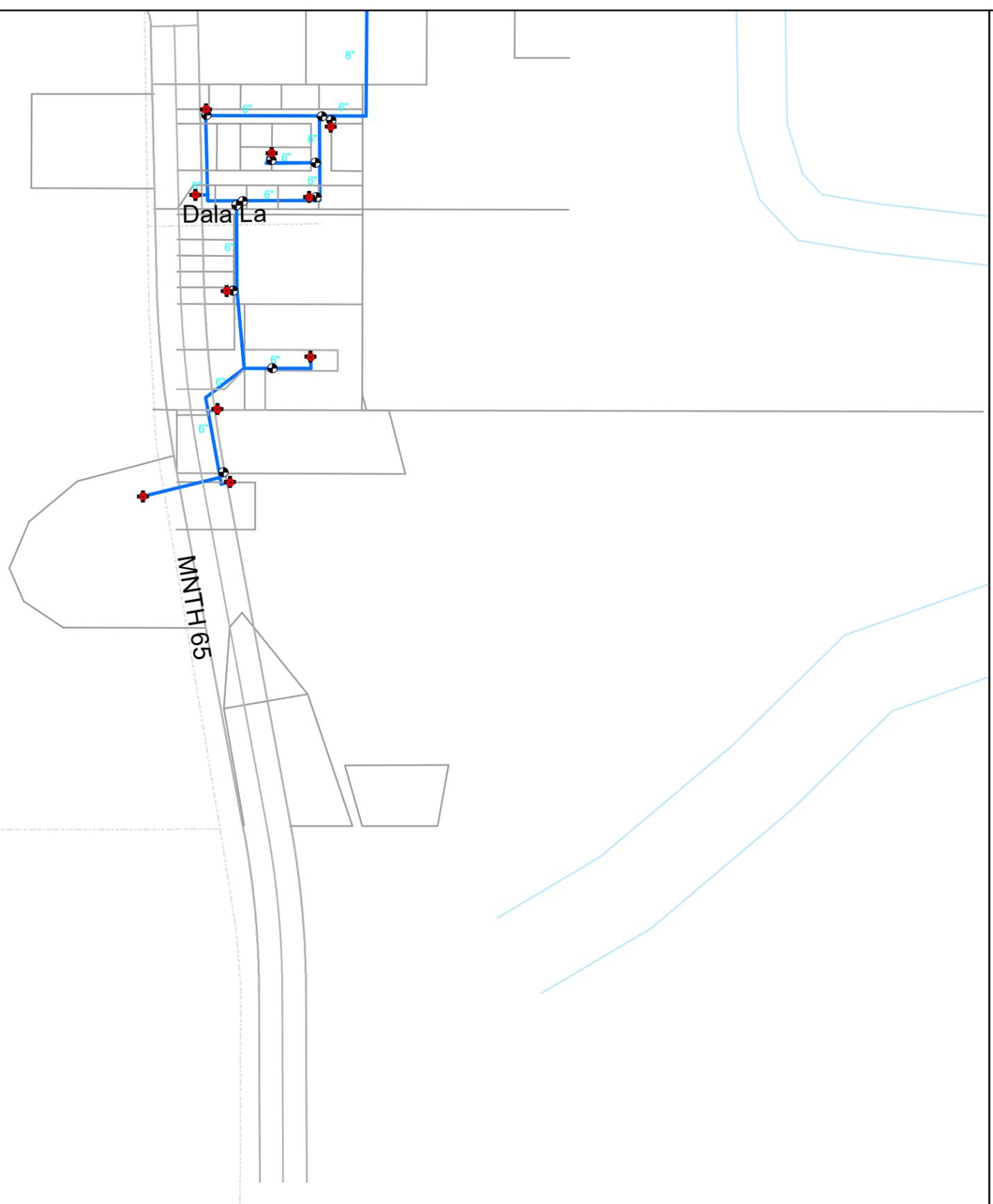
WATER UTILITES

Mora, Minnesota

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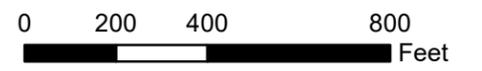
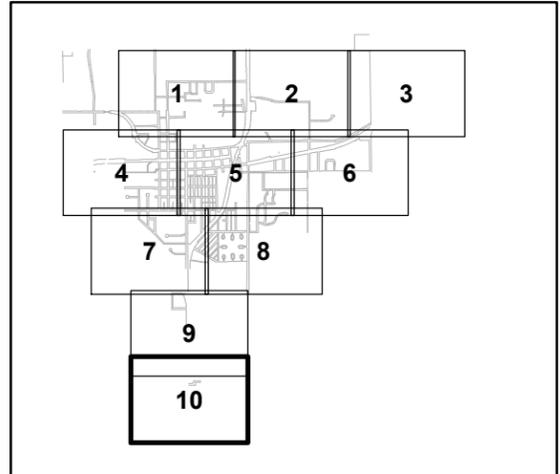
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WATER UTILITES

Mora, Minnesota

Appendix A

Rating System

Rating system

Surface rating	Visible distress*	General condition/ treatment measures
10 Excellent	None.	New construction.
9 Excellent	None.	Recent overlay. Like new.
8 Very Good	No longitudinal cracks except reflection of paving joints. Occasional transverse cracks, widely spaced (40' or greater). All cracks sealed or tight (open less than 1/4").	Recent sealcoat or new cold mix. Little or no maintenance required.
7 Good	Very slight or no raveling, surface shows some traffic wear. Longitudinal cracks (open 1/4") due to reflection or paving joints. Transverse cracks (open 1/4") spaced 10' or more apart, little or slight crack raveling. No patching or very few patches in excellent condition.	First signs of aging. Maintain with routine crack filling.
6 Good	Slight raveling (loss of fines) and traffic wear. Longitudinal cracks (open 1/4" - 1/2"), some spaced less than 10'. First sign of block cracking. Slight to moderate flushing or polishing. Occasional patching in good condition.	Shows signs of aging. Sound structural condition. Could extend life with sealcoat.
5 Fair	Moderate to severe raveling (loss of fine and coarse aggregate). Longitudinal and transverse cracks (open 1/2") show first signs of slight raveling and secondary cracks. First signs of longitudinal cracks near pavement edge. Block cracking up to 50% of surface. Extensive to severe flushing or polishing. Some patching or edge wedging in good condition.	Surface aging. Sound structural condition. Needs sealcoat or thin non-structural overlay (less than 2")
4 Fair	Severe surface raveling. Multiple longitudinal and transverse cracking with slight raveling. Longitudinal cracking in wheel path. Block cracking (over 50% of surface). Patching in fair condition. Slight rutting or distortions (1/2" deep or less).	Significant aging and first signs of need for strengthening. Would benefit from a structural overlay (2" or more).
3 Poor	Closely spaced longitudinal and transverse cracks often showing raveling and crack erosion. Severe block cracking. Some alligator cracking (less than 25% of surface). Patches in fair to poor condition. Moderate rutting or distortion (1" or 2" deep). Occasional potholes.	Needs patching and repair prior to major overlay. Milling and removal of deterioration extends the life of overlay.
2 Very Poor	Alligator cracking (over 25% of surface). Severe distortions (over 2" deep). Extensive patching in poor condition. Potholes.	Severe deterioration. Needs reconstruction with extensive base repair. Pulverization of old pavement is effective.
1 Failed	Severe distress with extensive loss of surface integrity.	Failed. Needs total reconstruction.

* Individual pavements will not have all of the types of distress listed for any particular rating. They may have only one or two types.

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