

# Watermain Capital Improvement Plan

## November 11, 2022



## Background

- Based on commission and HPU feedback from the initial draft WCIP
  - 5 year project priority list increased from \$11.50M to \$26.95M
    - Results in an increase of system replacement annually from 0.8% to 1.9%
- Additional Data included in Draft Document
  - 5 year project background
  - Tabulation of watermain system characteristics
  - Hydrant flushing reports



# Watermain Capital Improvement Plan Overview

## 2023 - 2033 Watermain Capital Improvements

Hibbing Public Utilities

0 1000 2000  
SCALE: FEET



Figure 1: Project Location Map (NW Quad)

October 2022



# Watermain Capital Improvement Plan Overview

## 2023 - 2033 Watermain Capital Improvements

Hibbing Public Utilities

SCALE  
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FEET





# Watermain Capital Improvement Plan Overview

**2023 - 2033 Watermain Capital Improvements**  
Hibbing Public Utilities

Hibbing, MN 2023-2033 Watermain Capital Improvement Map dated 10/10/2023 12:15:21 AM



## Watermain Capital Improvement Plan Overview

Watermain Capital Improvements 2023 - 2027					
Project	2023	2024	2025	2026	2027
Stuntz Drive & Hematite Street	\$ 2,077,000.00	-	-	-	-
18th Avenue & 27th Street	\$ 2,248,000.00	-	-	-	-
Minnesota Street & 8th Avenue	\$ 2,617,000.00		-	-	-
3rd Avenue East (31st to 22nd)	-	\$ 4,523,000.00		-	-
5th Avenue East (31st to 24th)	-	-	\$ 3,405,000.00		-
First Avenue (4th to 1st - Kelly Lake)	-	-	\$ 2,119,000.00	-	-
West Wegner Road to 41st St.	-	-	-	\$ 5,264,000.00	-
41st Street (12th Ave E to 19th St E)	-	-	-	-	\$ 2,367,000.00
19th Avenue E (28th St to 34th St)	-	-	-	-	\$ 2,326,500.00
<b>Total</b>	<b>\$ 6,942,000.00</b>	<b>\$ 4,523,000.00</b>	<b>\$ 5,524,000.00</b>	<b>\$ 5,264,000.00</b>	<b>\$ 4,693,500.00</b>

Future Projects 2028 - 2032	
Old Highway 169	Existing 12" HDPE installed 2016, dead end main not in service.
Kitzville Loop (11th St to 1st St)	Existing 6" main 11th Street to RR Xing, 4" main RR Xing to 1st Street, inactive due to leaks.
Scranton Meter to Well House	Existing 12" main, Scranton well no longer in use.
19th Avenue East (34th St to 169)	Existing 8" main, high break frequency.
3rd Avenue (4th to 1st - Kelly Lake)	Existing 6" main installed 1918, high break frequency.
City-wide Hydrant Maintenance	Repair or replacement of broken or malfunctioning hydrants.



## 2023 Recommended Priority

### Stuntz Drive & Hematite Street

- Existing 4" Cast Iron Pipe
- Installation Date Unknown
- Breaks recorded: 10
- City paving project 2024



## 2023 Recommended Priority

### 18<sup>th</sup> Avenue East & 27<sup>th</sup> Street

- Existing 6" Cast Iron Pipe on 18<sup>th</sup> Avenue, 4" Cast Iron Pipe on 27<sup>th</sup> Street and 26<sup>th</sup> Street
- Installation date 1925
- Breaks recorded: 3
- Main frozen in spring 2022



2023 Recommended Priority

## Minnesota Street & 8<sup>th</sup> Avenue East

- Existing 6" Cast Iron Pipe
- Installation Date 1923
- Breaks recorded: 5
- City paving project 2025



## 2024 Project

### 3<sup>rd</sup> Avenue East (31<sup>st</sup> Street to 22<sup>nd</sup> Street)

- Existing 6" Cast Iron Pipe
- Installation date 1914 and 1917
- Breaks recorded: 5
- Water Service Operations and Maintenance
  - West side located under pavement
  - East side located between two large communications ducts



## 2025 Project

### 5<sup>th</sup> Avenue East (31<sup>st</sup> Street to 24<sup>th</sup> Street)

- Existing 6" Cast Iron Pipe
- Installation date 1919 and 1916
- Breaks recorded: 4



## 2025 Project

### First Avenue (1<sup>st</sup> Street to 4<sup>th</sup> Street) – Kelly Lake

- Existing 6" Cast Iron Pipe
- Installation date unknown
- Breaks recorded: 10



## 2026 Project

### West Wegener Road to 41<sup>st</sup> Street

- Existing 30" Ductile Iron Pipe
- Installation date 1967
- Breaks recorded: 1
- High risk asset due to high volume water losses spring 2022



## 2027 Project

### 41<sup>st</sup> Street (12<sup>th</sup> Avenue East to 19<sup>th</sup> Avenue East)

- Existing 8" Cast Iron Pipe
- Installation date unknown
- Breaks recorded: 7



## Overall Benefit

- How much of the system have we replaced in 5 years?
  - 9.7% system replacement
- Indirect Factors
  - Maintenance staff utilization
  - System operations
- What does the 10 year outlook include for replacement?
  - Evaluation of needs and goals
  - Budgetary considerations
  - Funding opportunities



WATERMAIN CAPITAL IMPROVEMENT PLAN  
2023 - 2027



**DRAFT UPDATE  
11-15-22**



Real People. Real Solutions.

**WATERMAIN CAPITAL IMPROVEMENT PLAN  
2023 – 2027  
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## I. INTRODUCTION

A Watermain Capital Improvement Plan(WCIP) is a flexible document based on long-range planning of major improvements that may be implemented over the next five years including future projects that reach to ten years. Flexibility is maintained through annual review and subsequent revision of the WCIP. Reviewing the plan annually allows Hibbing Public Utilities Commission to incorporate long-range project forecasting into the budgetary process in any given year. Annual review will assure that the program continues to be relevant and provides a necessary tool navigate change in demands as well as changing patterns in cost and financial resources.

The Watermain Capital Improvement Plan can help assure:

1. A systematic approach to planning and initiating capital projects affording the opportunity to plan the location, timing, and financing of necessary public improvements;
2. The development of a realistic program of capital spending within Hibbing Public Utilities Commission's projected fiscal capability to finance such projects, avoiding sudden change in tax levy or debt capacity;
3. The coordination of public and private improvement projects permitting adequate time for design and engineering to eliminate duplication of effort and expense;
4. The expenditure of public funds that is compatible with the long-term goals of the Commission;
5. That the public is informed of the proposed future projects and expenditures;
6. Aid in achieving federal and/or state participation by providing the necessary planning and lead time for a successful application while meeting the prerequisites for certain federal and state grants.

## II. PROJECT IDENTIFICATION

Projects identified for inclusion in the WCIP were the result of a coordinated effort between Hibbing Public Utilities staff and the City of Hibbing. Elements used in developing the WCIP are provided below.

### A. Hibbing Public Utilities Documentation

Documentation of the existing watermain distribution was provided by Hibbing Public Utilities. Hydrant flushing reports were also provided that indicated location and condition.

### B. Other Agency Planning Documents

Planning documents from the City of Hibbing and St. Louis County were also reviewed for potential impacts to the watermain distribution system. These documents include the City of Hibbing paving project schedule and the St. Louis County CIP.

Name:

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**C. Staff and Commission Input**

Input from the Commission and staff were significant in guiding the development of the WCIP. Multiple meetings were conducted with Hibbing Public Utilities staff that included review of existing documentation and prioritizing infrastructure needs within the water distribution system.

**D. Future Projects 2028 – 2032**

The WCIP covers the years 2023 – 2027. During the development of this plan there were multiple projects identified that were prioritized beyond that timeframe. Additional projects have been identified and prioritized as future projects(See Figures 1 – 4). No cost estimates or other information was developed or prioritized as part of the WCIP.

### III. WCIP PROJECT OVERVIEW

Projects were identified and subsequently prioritized based on several criteria including break frequency, infrastructure age, hydrant functionality, and system optimization. These criteria represent issues directly related to the PUC distribution system operations and maintenance.

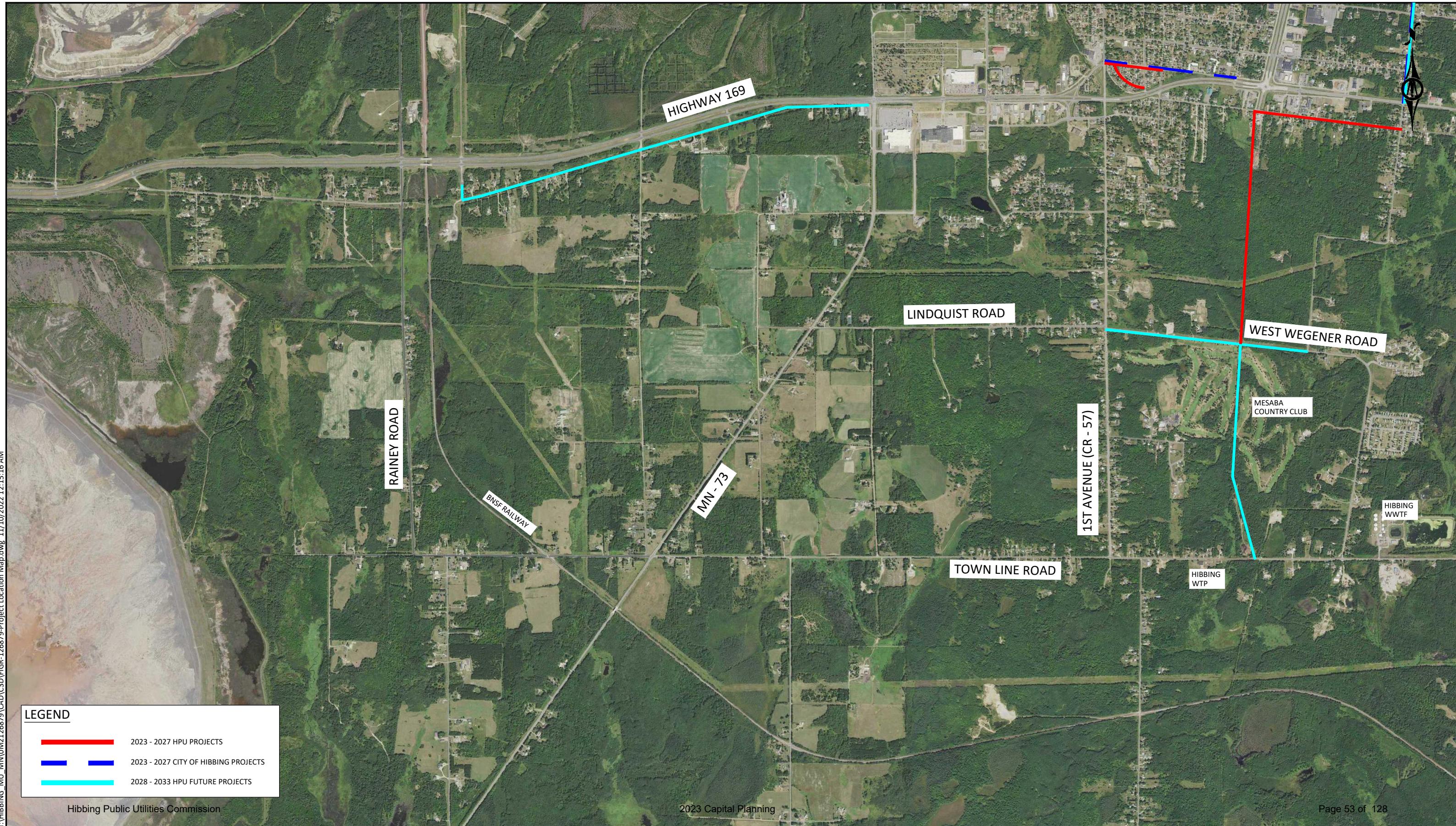
Watermain Capital Improvements 2023 - 2027						
Project	2023	2024	2025	2026	2027	
Stuntz Drive & Hematite Street*	\$ 2,077,000.00	-	-	-	-	
18th Avenue & 27th Street	\$ 2,248,000.00	-	-	-	-	
Minnesota Street & 8th Avenue*	\$ 2,617,000.00	-	-	-	-	
3rd Avenue East (31st to 22nd)	-	\$ 4,523,000.00	-	-	-	
5th Avenue East (31st to 24th)	-	-	\$ 3,405,000.00	-	-	
First Avenue (4th to 1st - Kelly Lake)	-	-	\$ 2,119,000.00	-	-	
West Wegener Road to 41st St.	-	-	-	\$ 5,264,000.00	-	
41st Street (12th Ave E to 19th St E)	-	-	-	-	\$ 2,367,000.00	
19th Avenue E (28th St to 34th St)	-	-	-	-	\$ 2,326,500.00	
<b>Total</b>	<b>\$ 6,942,000.00</b>	<b>\$ 4,523,000.00</b>	<b>\$ 5,524,000.00</b>	<b>\$ 5,264,000.00</b>	<b>\$ 4,693,500.00</b>	

\*In coordination with State-Aid paving operations

Future Projects 2028 - 2032	
Old Highway 169 Kitzville Loop (11th St to 1st St) Scranton Meter to Well House 19th Avenue East (34th St to 169) 3rd Avenue (4th to 1st - Kelly Lake) West Wegener Road to Townline City-wide Hydrant Maintenance	Existing 12" HDPE installed 2016, dead end main not in service. Existing 6" main 11th Street to RR Xing, 4" main RR Xing to 1st Street, inactive due to leaks. Existing 12" main, Scranton well no longer in use. Existing 8" main, high break frequency. Existing 6" main installed 1918, high break frequency. Existing 30" main, high volume water losses during breaks. Repair or replacement of broken or malfunctioning hydrants.









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Date:

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## IV. PROJECT BACKGROUND 2023 – 2027

### A. 2023

1. Stuntz Drive and Hematite Street Watermain Reconstruction
  - a) Existing 4" CIP
  - b) Installation date unknown
  - c) Breaks recorded: 10
  - d) City paving project 2024
2. 18<sup>th</sup> Avenue and 27<sup>th</sup> Street Watermain Reconstruction
  - a) Existing 6" CIP (18<sup>th</sup> Avenue), 4" CIP (27<sup>th</sup> Street, 26<sup>th</sup> Street)
  - b) Installation date 1925
  - c) Breaks recorded: 3
  - d) Main frozen spring 2022
3. Minnesota Street and 8<sup>th</sup> Avenue Watermain Reconstruction
  - a) Existing 6" CIP
  - b) Installation date 1923
  - c) Breaks recorded: 5
  - d) City paving project 2025

### B. 2024

1. 3<sup>rd</sup> Avenue East Watermain Reconstruction
  - a) Existing 6" CIP
  - b) Installation date 1914 and 1917
  - c) Breaks recorded: 5
  - d) Curb stops located under pavement on west side, located between fiber ducts on east side

### C. 2025

1. 5<sup>th</sup> Avenue East Watermain Reconstruction
  - a) Existing 6" CIP
  - b) Installation date 1919/1916
  - c) Breaks recorded: 4
2. First Avenue – Kelly Lake Watermain Reconstruction
  - a) Existing 6" CIP
  - b) Installation date unknown
  - c) Breaks recorded: 10

Name:

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D. 2026

1. West Wegener Road Watermain Reconstruction
  - a) Existing 30" DIP
  - b) Installation date 1967
  - c) Breaks recorded: 1
  - d) High risk asset due to high volume water losses spring 2022

E. 2027

1. 41<sup>st</sup> Street Watermain Reconstruction
  - a) Existing 8" CIP
  - b) Installation date unknown
  - c) Breaks recorded: 3
2. 19<sup>th</sup> Avenue East Watermain Reconstruction
  - a) Existing 8" CIP
  - b) Installation date unknown
  - c) Breaks recorded: 7



## PRELIMINARY ENGINEER'S ESTIMATE

STUNTZ & HEMATITE WATERMAIN RECONSTRUCTION  
HIBBING PUBLIC UTILITIES  
HIBBING, MINNESOTA

Updated: 11-08-2022

ITEM NO.	ITEM	QTY	UNIT	UNIT PRICE	TOTAL
1	MOBILIZATION	1	LS	\$113,000.00	\$113,000.00
2	TRAFFIC CONTROL	1	LS	\$25,000.00	\$25,000.00
3	REMOVE BITUMINOUS PAVEMENT	6050	SY	\$5.00	\$30,250.00
4	REMOVE STORM SEWER PIPE	70	LF	\$25.00	\$1,750.00
5	REMOVE MANHOLE OR CATCH BASIN	8	EA	\$500.00	\$4,000.00
6	REMOVE WATERMAIN	2420	LF	\$11.50	\$27,830.00
7	REMOVE GATE VALVE	11	EA	\$450.00	\$4,950.00
8	REMOVE HYDRANT	4	EA	\$1,000.00	\$4,000.00
9	REMOVE SANITARY SEWER PIPE	10	LF	\$10.00	\$100.00
10	REMOVE CURB AND GUTTER	2530	LF	\$5.00	\$12,650.00
11	REMOVE CONCRETE SIDEWALK	325	SY	\$14.00	\$4,550.00
12	COMMON EXCAVATION (INCLUDING BITUMINOUS) (P)	4030	CY	\$24.00	\$96,720.00
13	SUBGRADE EXCAVATION	303	CY	\$23.00	\$6,969.00
14	STABILIZING AGGREGATE	303	CY	\$50.00	\$15,150.00
15	BITUMINOUS PATCH SPECIAL, 4" THICK	6050	SY	\$65.00	\$393,250.00
16	CONCRETE CURB AND GUTTER DESIGN B618	2530	LF	\$22.00	\$55,660.00
17	CONCRETE WALK	358	SY	\$72.00	\$25,776.00
18	CONSTRUCT STORM SEWER CATCH BASIN & CASTING ASSEMBLY	7	EA	\$3,000.00	\$21,000.00
19	CONNECT TO EXISTING STORM SEWER	7	EA	\$1,000.00	\$7,000.00
20	12" STORM SEWER PIPE	70	LF	\$90.00	\$6,300.00
21	CONNECT TO EXISTING WATERMAIN	6	EA	\$2,500.00	\$15,000.00
22	3/4" WATER SERVICE	48	EA	\$3,200.00	\$153,600.00
23	6" WATERMAIN PIPE	60	LF	\$80.00	\$4,800.00
24	8" WATERMAIN PIPE	2670	LF	\$82.00	\$218,940.00
25	6" GATE VALVE & BOX	4	EA	\$3,200.00	\$12,800.00
26	8" GATE VALVE & BOX	9	EA	\$3,500.00	\$31,500.00
27	HYDRANT	4	EA	\$7,000.00	\$28,000.00
28	CONSTRUCT SANITARY SEWER MANHOLE	1	EA	\$5,000.00	\$5,000.00
29	CONNECT TO EXISTING SANITARY SEWER	3	EA	\$1,500.00	\$4,500.00
30	8" SANITARY SEWER PIPE	30	LF	\$80.00	\$2,400.00
31	TURF ESTABLISHMENT	4900	SY	\$8.50	\$41,650.00
32	EROSION & SEDIMENT CONTROL	1	LS	\$9,000.00	\$9,000.00
SUBTOTAL:					\$1,384,000.00
CONSTRUCTION CONTINGENCIES (20%):					\$277,000.00
<b>TOTAL ESTIMATED CONSTRUCTION COST:</b>					<b>\$1,661,000.00</b>
INDIRECT COSTS (25%):					\$416,000.00
<b>ESTIMATED PROJECT TOTAL:</b>					<b>\$2,077,000.00</b>



## PRELIMINARY ENGINEER'S ESTIMATE

MINNESOTA STREET & 8TH AVENUE EAST WATERMAIN RECONSTRUCTION  
HIBBING, MINNESOTA

Updated: 11-08-2022

ITEM NO.	ITEM	QTY	UNIT	UNIT PRICE	TOTAL
1	MOBILIZATION	1	LS	\$142,000.00	\$142,000.00
2	TRAFFIC CONTROL	1	LS	\$32,000.00	\$32,000.00
3	REMOVE BITUMINOUS PAVEMENT	7200	SY	\$5.00	\$36,000.00
4	REMOVE STORM SEWER PIPE	90	LF	\$25.00	\$2,250.00
5	REMOVE MANHOLE OR CATCH BASIN	9	EA	\$500.00	\$4,500.00
6	REMOVE WATERMAIN	3055	LF	\$11.50	\$35,132.50
7	REMOVE GATE VALVE	19	EA	\$450.00	\$8,550.00
8	REMOVE HYDRANT	4	EA	\$1,000.00	\$4,000.00
9	REMOVE SANITARY SEWER PIPE	10	LF	\$10.00	\$100.00
10	REMOVE CURB AND GUTTER	3095	LF	\$5.00	\$15,475.00
11	REMOVE CONCRETE SIDEWALK	550	SY	\$14.00	\$7,700.00
12	COMMON EXCAVATION (INCLUDING BITUMINOUS) (P)	4800	CY	\$24.00	\$115,200.00
13	SUBGRADE EXCAVATION	360	CY	\$23.00	\$8,280.00
14	STABILIZING AGGREGATE	360	CY	\$50.00	\$18,000.00
15	BITUMINOUS PATCH SPECIAL, 4" THICK	7200	SY	\$65.00	\$468,000.00
16	CONCRETE CURB AND GUTTER DESIGN B618	3095	LF	\$22.00	\$68,090.00
17	CONCRETE WALK	605	SY	\$72.00	\$43,560.00
18	CONSTRUCT STORM SEWER MANHOLE & CASTING ASSEMBLY	1	EA	\$4,000.00	\$4,000.00
19	CONSTRUCT STORM SEWER CATCH BASIN & CASTING ASSEMBLY	8	EA	\$3,000.00	\$24,000.00
20	CONNECT TO EXISTING STORM SEWER	10	EA	\$1,000.00	\$10,000.00
21	12" STORM SEWER PIPE	90	LF	\$90.00	\$8,100.00
22	CONNECT TO EXISTING WATERMAIN	8	EA	\$2,500.00	\$20,000.00
23	3/4" WATER SERVICE	68	EA	\$3,200.00	\$217,600.00
24	6" WATERMAIN PIPE	90	LF	\$80.00	\$7,200.00
25	8" WATERMAIN PIPE	3370	LF	\$82.00	\$276,340.00
26	6" GATE VALVE & BOX	6	EA	\$3,200.00	\$19,200.00
27	8" GATE VALVE & BOX	12	EA	\$3,500.00	\$42,000.00
28	HYDRANT	6	EA	\$7,000.00	\$42,000.00
29	CONNECT TO EXISTING SANITARY SEWER	2	EA	\$1,500.00	\$3,000.00
30	8" SANITARY SEWER PIPE	10	LF	\$80.00	\$800.00
31	TURF ESTABLISHMENT	5680	SY	\$8.50	\$48,280.00
32	EROSION & SEDIMENT CONTROL	1	LS	\$12,000.00	\$12,000.00
SUBTOTAL:					\$1,744,000.00
CONSTRUCTION CONTINGENCIES (20%):					\$349,000.00
<b>TOTAL ESTIMATED CONSTRUCTION COST:</b>					<b>\$2,093,000.00</b>
INDIRECT COSTS (25%):					\$524,000.00
<b>ESTIMATED PROJECT TOTAL:</b>					<b>\$2,617,000.00</b>



## PRELIMINARY ENGINEER'S ESTIMATE

18TH AVENUE EAST & 27TH STREET WATERMAIN RECONSTRUCTION  
HIBBING, MINNESOTA

Updated: 11-08-2022

ITEM NO.	ITEM	QTY	UNIT	UNIT PRICE	TOTAL
1	MOBILIZATION	1	LS	\$122,000.00	\$122,000.00
2	TRAFFIC CONTROL	1	LS	\$27,000.00	\$27,000.00
3	REMOVE BITUMINOUS PAVEMENT	7230	SY	\$5.00	\$36,150.00
4	REMOVE STORM SEWER PIPE	30	LF	\$25.00	\$750.00
5	REMOVE MANHOLE OR CATCH BASIN	2	EA	\$500.00	\$1,000.00
6	REMOVE WATERMAIN	2330	LF	\$11.50	\$26,795.00
7	REMOVE GATE VALVE	11	EA	\$450.00	\$4,950.00
8	REMOVE HYDRANT	3	EA	\$1,000.00	\$3,000.00
9	REMOVE SANITARY SEWER PIPE	40	LF	\$10.00	\$400.00
10	REMOVE CURB AND GUTTER	2070	LF	\$5.00	\$10,350.00
11	REMOVE CONCRETE SIDEWALK	6	SY	\$14.00	\$84.00
12	COMMON EXCAVATION (INCLUDING BITUMINOUS) (P)	4825	CY	\$24.00	\$115,800.00
13	SUBGRADE EXCAVATION	370	CY	\$23.00	\$8,510.00
14	STABILIZING AGGREGATE	370	CY	\$50.00	\$18,500.00
15	BITUMINOUS PATCH SPECIAL, 4" THICK	7230	SY	\$65.00	\$469,950.00
16	CONCRETE CURB AND GUTTER DESIGN B618	2070	LF	\$22.00	\$45,540.00
17	CONCRETE WALK	10	SY	\$72.00	\$720.00
18	CONSTRUCT STORM SEWER MANHOLE & CASTING ASSEMBLY	1	EA	\$4,000.00	\$4,000.00
19	CONSTRUCT STORM SEWER CATCH BASIN & CASTING ASSEMBLY	2	EA	\$3,000.00	\$6,000.00
20	CONNECT TO EXISTING STORM SEWER	4	EA	\$1,000.00	\$4,000.00
21	12" STORM SEWER PIPE	20	LF	\$90.00	\$1,800.00
22	18" STORM SEWER PIPE	10	LF	\$110.00	\$1,100.00
23	CONNECT TO EXISTING WATERMAIN	7	EA	\$2,500.00	\$17,500.00
24	3/4" WATER SERVICE	55	EA	\$3,200.00	\$176,000.00
25	6" WATERMAIN PIPE	75	LF	\$80.00	\$6,000.00
26	8" WATERMAIN PIPE	2570	LF	\$82.00	\$210,740.00
27	6" GATE VALVE & BOX	5	EA	\$3,200.00	\$16,000.00
28	8" GATE VALVE & BOX	14	EA	\$3,500.00	\$49,000.00
29	HYDRANT	5	EA	\$7,000.00	\$35,000.00
30	CONNECT TO EXISTING SANITARY SEWER	8	EA	\$1,500.00	\$12,000.00
31	8" SANITARY SEWER PIPE	40	LF	\$80.00	\$3,200.00
32	TURF ESTABLISHMENT	6240	SY	\$8.50	\$53,040.00
33	EROSION & SEDIMENT CONTROL	1	LS	\$10,500.00	\$10,500.00

SUBTOTAL: \$1,498,000.00  
CONSTRUCTION CONTINGENCIES (20%): \$300,000.00  
**TOTAL ESTIMATED CONSTRUCTION COST: \$1,798,000.00**  
INDIRECT COSTS (25%): \$450,000.00  
**ESTIMATED PROJECT TOTAL: \$2,248,000.00**



## PRELIMINARY ENGINEER'S ESTIMATE

3RD AVENUE EAST WATERMAIN RECONSTRUCTION  
HIBBING, MINNESOTA

Updated: 11-08-2022

ITEM NO.	ITEM	QTY	UNIT	UNIT PRICE	TOTAL
1	MOBILIZATION	1	LS	\$245,000.00	\$245,000.00
2	TRAFFIC CONTROL	1	LS	\$55,000.00	\$55,000.00
3	REMOVE BITUMINOUS PAVEMENT	14460	SY	\$5.00	\$72,300.00
4	REMOVE STORM SEWER PIPE	100	LF	\$25.00	\$2,500.00
5	REMOVE MANHOLE OR CATCH BASIN	10	EA	\$500.00	\$5,000.00
6	REMOVE WATERMAIN	4125	LF	\$11.50	\$47,437.50
7	REMOVE GATE VALVE	18	EA	\$450.00	\$8,100.00
8	REMOVE HYDRANT	5	EA	\$1,000.00	\$5,000.00
9	REMOVE SANITARY SEWER PIPE	30	LF	\$10.00	\$300.00
10	REMOVE CURB AND GUTTER	4545	LF	\$5.00	\$22,725.00
11	REMOVE CONCRETE SIDEWALK	1005	SY	\$14.00	\$14,070.00
12	COMMON EXCAVATION (INCLUDING BITUMINOUS) (P)	9650	CY	\$24.00	\$231,600.00
13	SUBGRADE EXCAVATION	730	CY	\$23.00	\$16,790.00
14	STABILIZING AGGREGATE	730	CY	\$50.00	\$36,500.00
15	BITUMINOUS PATCH SPECIAL, 4" THICK	14460	SY	\$65.00	\$939,900.00
16	CONCRETE CURB AND GUTTER DESIGN B618	4545	LF	\$22.00	\$99,990.00
17	CONCRETE WALK	1110	SY	\$72.00	\$79,920.00
18	CONSTRUCT STORM SEWER MANHOLE & CASTING ASSEMBLY	1	EA	\$4,000.00	\$4,000.00
19	CONSTRUCT STORM SEWER CATCH BASIN & CASTING ASSEMBLY	9	EA	\$3,000.00	\$27,000.00
20	CONNECT TO EXISTING STORM SEWER	10	EA	\$1,000.00	\$10,000.00
21	12" STORM SEWER PIPE	100	LF	\$90.00	\$9,000.00
22	CONNECT TO EXISTING WATERMAIN	10	EA	\$2,500.00	\$25,000.00
23	3/4" WATER SERVICE	126	EA	\$3,200.00	\$403,200.00
24	6" WATERMAIN PIPE	150	LF	\$80.00	\$12,000.00
25	8" WATERMAIN PIPE	4540	LF	\$82.00	\$372,280.00
26	6" GATE VALVE & BOX	10	EA	\$3,200.00	\$32,000.00
27	8" GATE VALVE & BOX	16	EA	\$3,500.00	\$56,000.00
28	HYDRANT	10	EA	\$7,000.00	\$70,000.00
29	CONNECT TO EXISTING SANITARY SEWER	6	EA	\$1,500.00	\$9,000.00
30	8" SANITARY SEWER PIPE	105	LF	\$80.00	\$8,400.00
31	TURF ESTABLISHMENT	8620	SY	\$8.50	\$73,270.00
32	EROSION & SEDIMENT CONTROL	1	LS	\$21,000.00	\$21,000.00
					SUBTOTAL: \$3,015,000.00
					CONSTRUCTION CONTINGENCIES (20%): \$603,000.00
					<b>TOTAL ESTIMATED CONSTRUCTION COST: \$3,618,000.00</b>
					INDIRECT COSTS (25%): \$905,000.00
					<b>ESTIMATED PROJECT TOTAL: \$4,523,000.00</b>



## PRELIMINARY ENGINEER'S ESTIMATE

5TH AVENUE EAST WATERMAIN RECONSTRUCTION  
HIBBING, MINNESOTA

Updated: 11-08-2022

ITEM NO.	ITEM	QTY	UNIT	UNIT PRICE	TOTAL
1	MOBILIZATION	1	LS	\$184,000.00	\$184,000.00
2	TRAFFIC CONTROL	1	LS	\$41,000.00	\$41,000.00
3	REMOVE BITUMINOUS PAVEMENT	11050	SY	\$5.00	\$55,250.00
4	REMOVE STORM SEWER PIPE	70	LF	\$25.00	\$1,750.00
5	REMOVE MANHOLE OR CATCH BASIN	4	EA	\$500.00	\$2,000.00
6	REMOVE WATERMAIN	3375	LF	\$11.50	\$38,812.50
7	REMOVE GATE VALVE	15	EA	\$450.00	\$6,750.00
8	REMOVE HYDRANT	5	EA	\$1,000.00	\$5,000.00
9	REMOVE SANITARY SEWER PIPE	30	LF	\$10.00	\$300.00
10	REMOVE CURB AND GUTTER	3520	LF	\$5.00	\$17,600.00
11	REMOVE CONCRETE SIDEWALK	320	SY	\$14.00	\$4,480.00
12	COMMON EXCAVATION (INCLUDING BITUMINOUS) (P)	7370	CY	\$24.00	\$176,880.00
13	SUBGRADE EXCAVATION	560	CY	\$23.00	\$12,880.00
14	STABILIZING AGGREGATE	560	CY	\$50.00	\$28,000.00
15	BITUMINOUS PATCH SPECIAL, 4" THICK	11050	SY	\$65.00	\$718,250.00
16	CONCRETE CURB AND GUTTER DESIGN B618	3520	LF	\$22.00	\$77,440.00
17	CONCRETE WALK	360	SY	\$72.00	\$25,920.00
18	CONSTRUCT STORM SEWER CATCH BASIN & CASTING ASSEMBLY	4	EA	\$3,000.00	\$12,000.00
19	CONNECT TO EXISTING STORM SEWER	10	EA	\$1,000.00	\$10,000.00
20	12" STORM SEWER PIPE	70	LF	\$90.00	\$6,300.00
21	CONNECT TO EXISTING WATERMAIN	7	EA	\$2,500.00	\$17,500.00
22	3/4" WATER SERVICE	89	EA	\$3,200.00	\$284,800.00
23	6" WATERMAIN PIPE	135	LF	\$80.00	\$10,800.00
24	8" WATERMAIN PIPE	3720	LF	\$82.00	\$305,040.00
25	6" GATE VALVE & BOX	9	EA	\$3,200.00	\$28,800.00
26	8" GATE VALVE & BOX	14	EA	\$3,500.00	\$49,000.00
27	HYDRANT	9	EA	\$7,000.00	\$63,000.00
28	CONNECT TO EXISTING SANITARY SEWER	6	EA	\$1,500.00	\$9,000.00
29	8" SANITARY SEWER PIPE	30	LF	\$80.00	\$2,400.00
30	TURF ESTABLISHMENT	6840	SY	\$8.50	\$58,140.00
31	EROSION & SEDIMENT CONTROL	1	LS	\$16,000.00	\$16,000.00
SUBTOTAL:					\$2,270,000.00
CONSTRUCTION CONTINGENCIES (20%):					\$454,000.00
<b>TOTAL ESTIMATED CONSTRUCTION COST:</b>					<b>\$2,724,000.00</b>
INDIRECT COSTS (25%):					\$681,000.00
<b>ESTIMATED PROJECT TOTAL:</b>					<b>\$3,405,000.00</b>



## PRELIMINARY ENGINEER'S ESTIMATE

FIRST AVENUE WATERMAIN RECONSTRUCTION (4TH STREET N TO 1ST STREET)  
HIBBING, MINNESOTA

Updated: 11-08-2022

ITEM NO.	ITEM	QTY	UNIT	UNIT PRICE	TOTAL
1	MOBILIZATION	1	LS	\$115,000.00	\$115,000.00
2	TRAFFIC CONTROL	1	LS	\$26,000.00	\$26,000.00
3	REMOVE BITUMINOUS PAVEMENT	7500	SY	\$5.00	\$37,500.00
4	REMOVE WATERMAIN	2650	LF	\$11.50	\$30,475.00
5	REMOVE GATE VALVE	8	EA	\$450.00	\$3,600.00
6	REMOVE HYDRANT	3	EA	\$1,000.00	\$3,000.00
7	REMOVE SANITARY SEWER PIPE	80	LF	\$10.00	\$800.00
8	COMMON EXCAVATION (INCLUDING BITUMINOUS) (P)	4700	CY	\$24.00	\$112,800.00
9	SUBGRADE EXCAVATION	380	CY	\$23.00	\$8,740.00
10	STABILIZING AGGREGATE	380	CY	\$50.00	\$19,000.00
11	BITUMINOUS PATCH SPECIAL, 4" THICK	7500	SY	\$65.00	\$487,500.00
12	CONNECT TO EXISTING WATERMAIN	4	EA	\$2,500.00	\$10,000.00
13	3/4" WATER SERVICE	49	EA	\$3,200.00	\$156,800.00
14	6" WATERMAIN PIPE	75	LF	\$80.00	\$6,000.00
15	8" WATERMAIN PIPE	2920	LF	\$82.00	\$239,440.00
16	6" GATE VALVE & BOX	5	EA	\$3,200.00	\$16,000.00
17	8" GATE VALVE & BOX	5	EA	\$3,500.00	\$17,500.00
18	HYDRANT	5	EA	\$7,000.00	\$35,000.00
19	CONNECT TO EXISTING SANITARY SEWER	16	EA	\$1,500.00	\$24,000.00
20	8" SANITARY SEWER PIPE	80	LF	\$80.00	\$6,400.00
21	TURF ESTABLISHMENT	5500	SY	\$8.50	\$46,750.00
22	EROSION & SEDIMENT CONTROL	1	LS	\$9,500.00	\$9,500.00
					SUBTOTAL: \$1,412,000.00
					CONSTRUCTION CONTINGENCIES (20%): \$283,000.00
					<b>TOTAL ESTIMATED CONSTRUCTION COST:</b> \$1,695,000.00
					INDIRECT COSTS (25%): \$424,000.00
					<b>ESTIMATED PROJECT TOTAL:</b> \$2,119,000.00



## PRELIMINARY ENGINEER'S ESTIMATE

WEST WEGENER ROAD TO EAST 41ST STREET WATERMAIN RECONSTRUCTION  
HIBBING, MINNESOTA

Updated: 11-08-2022

ITEM NO.	ITEM	QTY	UNIT	UNIT PRICE	TOTAL
1	MOBILIZATION	1	LS	\$284,000.00	\$284,000.00
2	TRAFFIC CONTROL	1	LS	\$63,000.00	\$63,000.00
3	CLEARING & GRUBBING	6.5	AC	\$2,000.00	\$13,000.00
4	REMOVE BITUMINOUS PAVEMENT	1175	SY	\$5.00	\$5,875.00
5	REMOVE MANHOLE OR CATCH BASIN	3	EA	\$500.00	\$1,500.00
6	REMOVE WATERMAIN	5960	LF	\$11.50	\$68,540.00
7	REMOVE GATE VALVE	16	EA	\$450.00	\$7,200.00
8	REMOVE HYDRANT	2	EA	\$1,000.00	\$2,000.00
9	REMOVE SANITARY SEWER PIPE	40	LF	\$10.00	\$400.00
10	COMMON EXCAVATION (INCLUDING BITUMINOUS) (P)	1500	CY	\$24.00	\$36,000.00
11	SUBGRADE EXCAVATION	140	CY	\$23.00	\$3,220.00
12	STABILIZING AGGREGATE	140	CY	\$50.00	\$7,000.00
13	BITUMINOUS PATCH SPECIAL, 4" THICK	1175	SY	\$65.00	\$76,375.00
14	CONNECT TO EXISTING WATERMAIN	3	EA	\$2,500.00	\$7,500.00
15	3/4" WATER SERVICE	6	EA	\$3,200.00	\$19,200.00
16	6" WATERMAIN PIPE	550	LF	\$80.00	\$44,000.00
17	30" WATERMAIN PIPE	5500	LF	\$360.00	\$1,980,000.00
18	6" GATE VALVE & BOX	3	EA	\$3,200.00	\$9,600.00
19	30" GATE VALVE & BOX	11	EA	\$50,000.00	\$550,000.00
20	HYDRANT	2	EA	\$7,000.00	\$14,000.00
21	CONNECT TO EXISTING SANITARY SEWER	8	EA	\$1,500.00	\$12,000.00
22	8" SANITARY SEWER PIPE	40	LF	\$80.00	\$3,200.00
23	TURF ESTABLISHMENT	32500	SY	\$8.50	\$276,250.00
24	EROSION & SEDIMENT CONTROL	1	LS	\$25,000.00	\$25,000.00
					SUBTOTAL: \$3,509,000.00
					CONSTRUCTION CONTINGENCIES (20%): \$702,000.00
					<b>TOTAL ESTIMATED CONSTRUCTION COST: \$4,211,000.00</b>
					INDIRECT COSTS (25%): \$1,053,000.00
					<b>ESTIMATED PROJECT TOTAL: \$5,264,000.00</b>



## PRELIMINARY ENGINEER'S ESTIMATE

41ST STREET (12TH AVENUE EAST TO 19TH AVENUE EAST)  
HIBBING, MINNESOTA

Updated: 11-08-2022

ITEM NO.	ITEM	QTY	UNIT	UNIT PRICE	TOTAL
1	MOBILIZATION	1	LS	\$128,000.00	\$128,000.00
2	TRAFFIC CONTROL	1	LS	\$29,000.00	\$29,000.00
3	REMOVE BITUMINOUS PAVEMENT	8100	SY	\$5.00	\$40,500.00
4	REMOVE WATERMAIN	3600	LF	\$11.50	\$41,400.00
5	REMOVE GATE VALVE	10	EA	\$450.00	\$4,500.00
6	REMOVE HYDRANT	4	EA	\$1,000.00	\$4,000.00
7	REMOVE SANITARY SEWER PIPE	30	LF	\$10.00	\$300.00
8	COMMON EXCAVATION (INCLUDING BITUMINOUS) (P)	5500	CY	\$24.00	\$132,000.00
9	SUBGRADE EXCAVATION	410	CY	\$23.00	\$9,430.00
10	STABILIZING AGGREGATE	410	CY	\$50.00	\$20,500.00
11	BITUMINOUS PATCH SPECIAL, 4" THICK	8100	SY	\$65.00	\$526,500.00
12	CONNECT TO EXISTING WATERMAIN	6	EA	\$2,500.00	\$15,000.00
13	3/4" WATER SERVICE	34	EA	\$3,200.00	\$108,800.00
14	6" WATERMAIN PIPE	110	LF	\$80.00	\$8,800.00
15	8" WATERMAIN PIPE	3960	LF	\$82.00	\$324,720.00
16	6" GATE VALVE & BOX	7	EA	\$3,200.00	\$22,400.00
17	8" GATE VALVE & BOX	7	EA	\$3,500.00	\$24,500.00
18	HYDRANT	7	EA	\$7,000.00	\$49,000.00
19	CONNECT TO EXISTING SANITARY SEWER	6	EA	\$1,500.00	\$9,000.00
20	8" SANITARY SEWER PIPE	30	LF	\$80.00	\$2,400.00
21	TURF ESTABLISHMENT	7600	SY	\$8.50	\$64,600.00
22	EROSION & SEDIMENT CONTROL	1	LS	\$11,000.00	\$11,000.00
					SUBTOTAL: \$1,577,000.00
					CONSTRUCTION CONTINGENCIES (20%): \$316,000.00
					<b>TOTAL ESTIMATED CONSTRUCTION COST:</b> \$1,893,000.00
					INDIRECT COSTS (25%): \$474,000.00
					<b>ESTIMATED PROJECT TOTAL:</b> \$2,367,000.00



## PRELIMINARY ENGINEER'S ESTIMATE

19TH AVENUE EAST (28TH STREET TO 34TH STREET)  
HIBBING, MINNESOTA

Updated: 11-08-2022

ITEM NO.	ITEM	QTY	UNIT	UNIT PRICE	TOTAL
1	MOBILIZATION	1	LS	\$126,000.00	\$126,000.00
2	TRAFFIC CONTROL	1	LS	\$28,000.00	\$28,000.00
3	REMOVE BITUMINOUS PAVEMENT	7600	SY	\$5.00	\$38,000.00
4	REMOVE STORM SEWER PIPE	230	LF	\$25.00	\$5,750.00
5	REMOVE MANHOLE OR CATCH BASIN	5	EA	\$500.00	\$2,500.00
6	REMOVE WATERMAIN	2800	LF	\$11.50	\$32,200.00
7	REMOVE GATE VALVE	8	EA	\$450.00	\$3,600.00
8	REMOVE HYDRANT	3	EA	\$1,000.00	\$3,000.00
9	REMOVE SANITARY SEWER PIPE	10	LF	\$10.00	\$100.00
10	REMOVE CURB AND GUTTER	3000	LF	\$5.00	\$15,000.00
11	COMMON EXCAVATION (INCLUDING BITUMINOUS) (P)	5500	CY	\$24.00	\$132,000.00
12	SUBGRADE EXCAVATION	380	CY	\$23.00	\$8,740.00
13	STABILIZING AGGREGATE	380	CY	\$50.00	\$19,000.00
14	BITUMINOUS PATCH SPECIAL, 4" THICK	7600	SY	\$65.00	\$494,000.00
15	CONCRETE CURB AND GUTTER DESIGN D412	3000	LF	\$22.00	\$66,000.00
16	CONSTRUCT STORM SEWER CATCH BASIN & CASTING ASSEMBLY	5	EA	\$3,000.00	\$15,000.00
17	CONNECT TO EXISTING STORM SEWER	7	EA	\$1,000.00	\$7,000.00
18	12" STORM SEWER PIPE	230	LF	\$90.00	\$20,700.00
19	CONNECT TO EXISTING WATERMAIN	4	EA	\$2,500.00	\$10,000.00
20	3/4" WATER SERVICE	35	EA	\$3,200.00	\$112,000.00
21	6" WATERMAIN PIPE	90	LF	\$80.00	\$7,200.00
22	8" WATERMAIN PIPE	3080	LF	\$82.00	\$252,560.00
23	6" GATE VALVE & BOX	6	EA	\$3,200.00	\$19,200.00
24	8" GATE VALVE & BOX	7	EA	\$3,500.00	\$24,500.00
25	HYDRANT	6	EA	\$7,000.00	\$42,000.00
26	CONNECT TO EXISTING SANITARY SEWER	2	EA	\$1,500.00	\$3,000.00
27	8" SANITARY SEWER PIPE	10	LF	\$80.00	\$800.00
28	TURF ESTABLISHMENT	6100	SY	\$8.50	\$51,850.00
29	EROSION & SEDIMENT CONTROL	1	LS	\$11,000.00	\$11,000.00
					SUBTOTAL: \$1,551,000.00
					CONSTRUCTION CONTINGENCIES (20%): \$310,200.00
					<b>TOTAL ESTIMATED CONSTRUCTION COST: \$1,861,200.00</b>
					INDIRECT COSTS (25%): \$465,300.00
					<b>ESTIMATED PROJECT TOTAL: \$2,326,500.00</b>

## V. REFERENCE DOCUMENTATION

### i. Segment Table

Data in the table below is taken directly from HPU record documentation. Segments were then organized by known installation date. The length of each segment varies depending on the configuration of the watermain system. This table is intended to be used as a starting point in determining infrastructure needs. Developing specific project limits requires additional investigation.

Street Name	Size	Material	Age	Recorded Breaks	Location
13th Avenue E (11th St to RR Xing)	6"	CIP	1909	1	
16th Avenue E (RR Xing to 11th St)	6"	CIP	1909	0	
13th Avenue E (16th St to RR Xing)	6"	CIP	1909	0	
15th Avenue E (13th St to 11th St)	4"	CIP	1909	2	
12th Avenue E (13th St to 12th St)	4"	CIP	1909	0	
14th Avenue E (14th St to 11th St)	4"	CIP	1909	0	
17th Avenue E (13th St to 11th St)	4"	CIP	1909	0	
16th Avenue E (16th St to RR Xing)	6"	CIP	1910	0	
3rd Avenue W (31st St to 25th St)	6"	CIP	1914	3	
5th Avenue E (28th St to 25th St)	6"	CIP	1914	3	
3rd Ave W (25th St to W Howard St)	6"	CIP	1914	2	
4th Avenue E (25th St to 22nd St)	6"	CIP	1914	2	
2nd Avenue E (25th St to 22nd St)	6"	CIP	1914	1	
4th Avenue E (28th St to 25th St)	6"	CIP	1914	1	
3rd Avenue E (25th St to 22nd St)	6"	CIP	1914	0	
2nd Avenue E (28th St to 25th St)	6"	CIP	1914	0	
3rd Avenue E (28th St to 25th St)	6"	CIP	1914	0	
1st Avenue (RR Xing to Bennett Tower)	18"	CIP	1914	1	
15th Avenue E (RR Xing to 13th St)	6"	CIP	1915	1	

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Street Name	Size	Material	Age	Recorded Breaks	Location
2nd Avenue W (31st St to 25th St)	6"	CIP	1915	1	
2nd Ave W (25th St to W Howard St)	6"	CIP	1915	0	
15th Avenue E (16th St to RR Xing)	6"	CIP	1915	0	
5th Avenue E (25th St to 24th St)	6"	CIP	1916	0	
5th Avenue E (23rd St to 22nd St)	6"	CIP	1916	0	
3rd Avenue E (31st St to 28th St)	6"	CIP	1917	3	
5th Avenue East (16th St to south)	6"	CIP	1917	2	
6th Avenue East (16th St to south)	6"	CIP	1917	1	
25th Street (1st Ave to 7th Ave E)	6"	CIP	1917	1	
6th Avenue E (28th St to 25th St)	6"	CIP	1917	0	
3rd Avenue E (Howard to north)	6"	CIP	1918	4	
2nd Avenue E (31st to 28th St)	6"	CIP	1918	2	
6th Avenue E (31st St to 28th St)	6"	CIP	1918	2	
5th Avenue E (22nd St to 21st)	6"	CIP	1918	1	
6th Avenue E (25th St to 19th St)	6"	CIP	1918	1	
2nd Avenue E (22nd St to north)	6"	CIP	1918	0	
3rd Avenue E (22nd St to Howard)	6"	CIP	1918	0	
4th Avenue E (22nd St to 21st St)	6"	CIP	1918	0	
5th Avenue E (Howard St to 19th St)	6"	CIP	1918	0	
21st Street (4th Ave E to 5th Ave E)	6"	CIP	1918	0	
4th Avenue E (31st St to 28th St)	6"	CIP	1919	2	
4th Avenue E (Howard to north)	6"	CIP	1919	1	
8th Avenue E (25th St to 24th St)	6"	CIP	1919	0	
24th Street (6th Ave E to 9th Ave E)	6"	CIP	1919	0	
5th Avenue E (31st St to 28th St)	6"	CIP	1919	0	
7th Avenue E (28th St to 25th St)	6"	CIP	1919	0	
23rd Street (6th Ave E to 9th Ave E)	6"	CIP	1920	0	
7th Avenue E (23rd St to Howard)	6"	CIP	1920	3	

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Street Name	Size	Material	Age	Recorded Breaks	Location
7th Avenue E (31st St to 28th St)	6"	CIP	1920	1	
5th Avenue East (16th St to 13th St)	4"	CIP	1920	0	
5th Avenue E (37th St to south)	6"	CIP	1921	3	
3rd Avenue E (37th St to Stuntz Dr)	6"	CIP	1921	1	
4th Avenue E (37th St to south)	6"	CIP	1921	1	
8th Avenue E (21st St to Howard)	6"	CIP	1921	0	
10th Avenue E (21st St to Howard)	6"	CIP	1921	0	
11th Avenue E (21st St to Howard)	6"	CIP	1921	0	
2nd Avenue E (37th St to 39th St)	6"	CIP	1921	0	
3rd Avenue W (34th St to 37th St)	4"	CIP	1921	6	
4th Avenue W (34th St to 36th St)	4"	CIP	1921	2	
2nd Avenue W (34th St to 37th St)	4"	CIP	1921	2	
31st Street (1st Ave to 8th Ave E)	10"	CIP	1921	2	
3rd Street (Adams Ave to Monroe Ave)	6"	CIP	1922	1	Kitzville
11th Avenue E (23rd St to 21st St)	6"	CIP	1922	1	
8th Avenue E (31st St to 28th St)	6"	CIP	1922	0	
28th Street (5th Ave W to 8th Ave E)	12"	CIP	1922	2	
8th Avenue E (Howard to Minnesota St)	6"	CIP	1923	3	
9th Avenue E (21st St to north)	6"	CIP	1923	3	
12th Avenue E (23rd St to Howard)	6"	CIP	1923	2	
7th Avenue E (Howard to 19th St)	6"	CIP	1923	0	
10th Avenue E (25th St to 21st St)	6"	CIP	1923	0	
11th Avenue E (Howard to Minnesota St)	6"	CIP	1923	0	
9th Avenue E (25th St to 21st St)	6"	CIP	1924	2	
2nd Street(Adams Ave to Monroe Ave)	6"	CIP	1924	1	Kitzville
7th Avenue E (24th St to 23rd St)	6"	CIP	1924	1	
5th Avenue E (19th St to north)	4"	CIP	1924	2	
4th Street	4"	CIP	1924	3	Kitzville

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Street Name	Size	Material	Age	Recorded Breaks	Location
4th Street to 3rd Street	4"	CIP	1924	0	Kitzville
18th Avenue E (25th St to south)	6"	CIP	1925	1	
26th Street (18th Ave E to east)	4"	CIP	1925	1	
27th Street (18th Ave E to 19th Ave E)	4"	CIP	1925	1	
35th Street (5th Ave W to 4th Ave W)	4"	CIP	1925	0	
12th Avenue E (16th St to Michigan St)	4"	CIP	1932	1	
36th Street (5th Ave W to 2nd Ave W)	4"	CIP	1939	1	
Monroe Avenue	4"	CIP	1939	0	Kitzville
27th Street (19th Ave E to east)	4"	CIP	1941	0	
E 11th Street (12th Ave to 16th Ave)	6"	CIP	1944	0	
Hwy 169 (16th Street to north)	6"	CIP	1947	0	
16th street (Hwy 169 to 15th Ave E)	6"	CIP	1947	0	
27th Street (7th Ave E to east)	4"	CIP	1949	0	
28th Street (18th Ave E to 19th Ave E)	6"	CIP	1952	0	
25th Street (18th Ave E to 21st St E)	8"	CIP	1957	0	
18th Street (12th Ave E to 16th Ave E)	8"/6"	CIP/CIP	1959	1	
14th Avenue E (18th St to 16th St)	6"	CIP	1959	0	
16th Avenue E (18th St to 16th St)	6"	CIP	1959	0	
8th Avenue E (28th St to 25th St)	16"	DIP	1966	0	
Highway 169 (25th St to 31st St)	30"	DIP	1967	1	
Highway 169 Loop (39th St to Townline Rd)	30"	DIP	1967	1	
Townline Road (30" Main to WWTF)	8"	CIP	1970	0	
O'Rourke Road (Townline Rd to Country Estates)	8"	CIP	1974	1	
25th Street (21st St E to east)	6"	CIP	1974	1	
Landfill Road (Ansley Road to Landfill Road)	6"	DIP	1977	0	
37th Street (15th Ave E to 23rd Ave E)	10"	DIP	1978	2	
23rd Avenue E (37th St to north)	10"	DIP	1978	2	
Townline Road (1st Ave to west)	8"	DIP	1979	0	

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Street Name	Size	Material	Age	Recorded Breaks	Location
Lindquist Road (1st Ave to west)	8"	DIP	1979	0	
32nd Street (5th Ave W to 4th Ave W)	6"	DIP	1981	0	
Monroe Avenue to C.R. 700 Loop	8"	DIP	1984	0	Kitzville
C.R. 700 to 13th Street Loop	12"	DIP	1984	0	Kitzville
12th Avenue E (Howard to Wisconsin St)	6"	DIP	1985	0	
13th Street (1st Ave to 12th Ave E)	16"	DIP	1985	0	
7th Avenue East (North of 13th St)	12"	DIP	1985	1	
1st Ave (Hwy 169 to 42nd E)	18"	DIP	1988	0	
E 13th Street (12th Ave to 17th Ave)	16"	DIP	1992	0	
51st Street (1st Ave to Mesabi Way)	6"	DIP	1993	1	
Howard Street (1st Ave to 12th Ave E)	8" Dual Main	DIP	1994	0	
Highway 37 (Hwy 169 to Airport Ind Park Access)	18"	DIP	1999	0	
O'Rourke Road (Country Estates to River Creek Dr.)	8"	DIP	2001	0	
River Creek Drive (O'Rourke Dr to east)	8"	DIP	2001	0	
Riverview Drive (River Creek Dr to east)	6"	DIP	2001	0	
Townline Road (1st Ave to Water TMT Plant)	18"/16"	DIP/DIP	2001	0	
Highway 169 (31st St to 37th St)	30"	PE	2004	0	
5th Avenue E (21st St to Howard)	6"	DIP	2006	0	
19th Street (4th Ave E to 6th Ave E)	6"	DIP	2006	0	
Highway 169 (37th St to 39th St)	30"	PE	2006	0	
5th Street (Old County 63 to Morton Ave)	8"	DIP	2007	0	Leetonia
Morton Avenue (4th St to 1st St)	8"	DIP	2007	0	Leetonia
Airport Access east of Barber Creek	8"	DIP	2007	0	
1st Street/Morton Rd (East on County 63)	8"	HDPE	2008	0	Kerr
1st Avenue (Kerr to Leetonia on 63)	8"	HDPE	2008	0	Kerr
12th Avenue E (12th St to 11th St)	6"	DIP	2008	2	
Howard Street (12th Ave E to east)	6"	DIP	2008	0	
Mesabi Lane (51st St to south)	6"	DIP	2008	0	

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Street Name	Size	Material	Age	Recorded Breaks	Location
Mesabi Way (51st St to Mesabi Ln)	6"	DIP	2008	0	
31st Street (8th Ave W to 5th Ave W)	10"	HDPE	2008	0	
10th Avenue E (Howard to Wisconsin St)	6"	DIP	2009	0	
12th Avenue E (Wisconsin St to Minnesota St)	6"	DIP	2009	0	
Wisconsin Street (10th Ave E to 12th Ave E)	6"	DIP	2009	0	
8th Avenue W (37th St to 40th St)	6"	DIP	2009	0	
Owens Way (51st St to north)	6"	DIP	2009	0	
5th Avenue W (31st St to 28th St)	12"	DIP	2009	0	
1st Street	8"	DIP	2010	0	Kitzville
Merryview Lane (16th Ave to 18th Ave)	6"	DIP	2010	1	
Adams Avenue	6"	DIP	2010	0	Kitzville
3rd Street(Adams Ave to west end)	6"	DIP	2010	0	Kitzville
2nd Street(Adams Ave to west end)	6"	DIP	2010	0	Kitzville
11th Avenue E (25th St to 23rd St)	6"	DIP	2010	0	
24th Street S (10th Ave E to 11th Ave E)	6"	DIP	2010	0	
16th Avenue (Merryview Ln to Gray Dr)	6"	DIP	2010	0	
Wayfair Avenue (37th St to 39th St)	6"	DIP	2011	1	
12th Avenue E (Minnesota St to 16th St)	10"	DIP	2011	0	
16th Street (13th Ave E to 12th Ave E)	10"	DIP	2011	0	
4th Avenue W (28th St to 25th St)	6"	DIP	2012	0	
16th Street (1st Ave to 7th Ave E)	8"	HDPE	2013	0	
Highway 37 (Airport Ind Park Access to N Hughes)	20"	PE	2013	0	
N Hughes Road (Hwy 37 to Antonelli Rd)	20"	PE	2013	0	
Antonelli Road (N Hughes to east)	20"	PE	2013	0	
10th Avenue W (31st St to south)	6"	DIP	2014	0	
Old Highway 169 (Hwy 73 to west)	12"	HDPE	2016	INACTIVE	
18th Street (1st Ave to 4th Ave E)	-	-	2022	0	
3rd Avenue East (South of 16th St)	-	-	2022	0	

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Street Name	Size	Material	Age	Recorded Breaks	Location
25th Street (HCC to 18th Ave E)	8"/6"	CIP/CIP	1957/?	0/5	
13th Avenue E (18th St to 16th St)	8"/4"	CIP/CIP	1957/1957	0	
25th Street (7th Ave E to HCC)	8"/16"	CIP/DIP	1957/1966	3/0	
1st Ave (W Wegener Rd to 51st St)	18"/12"	CIP/CIP	1973/1973	1	
1st Ave (42nd St to W Wegener Rd)	18"	DIP	1977/1990	2	
1st Ave (51st St to Townline Rd)	18"/12"/12"	DIP/CIP/DIP	1993/1973/1977	0	
Airport Industrial Park Access Road (Hwy 37 to south)	10"/8"/6"	DIP/DIP/DIP	1999/2006	0	
Highway 169 (East of Newburg to on ramp at 1st Ave)	6"/8"	DIP/DIP	2002/2010	0	
13th Avenue E (31st St to 25th St)	8"/6"	CIP/CIP	-	0	
19th Avenue E (26th St to 41st St)	8"	CIP	-	12	
41st Street (Hwy 169 to east)	8"	CIP	-	9	
9th Avenue W to 31st Loop (37th St to 31st St)	8"	DIP	-	1	
37th Street (1st Ave to S Inner Dr)	8"	DIP	-	1	
1st Avenue Loop to 41st Street	8"	CIP	-	1	
Newburg Road to 3rd Ave W Loop	8"	DIP	-	1	
3rd Avenue East (North of 16th St)	8"	DIP	-	0	
5th Avenue W (25th St to 22nd St)	8"	CIP	-	0	
22nd Street (5th Ave W to 4th Ave W)	8"	CIP	-	0	
Southview Drive (E Howard St to north)	8"	CIP	-	0	
23rd Street (HCC Main)	8"	CIP	-	0	
25th Street (5th Ave W to 1st Ave)	8"	DIP	-	0	
5th Avenue W (31st St to 25th St)	8"	DIP	-	0	
Dillon Road (Hwy 169 to 31st St)	8"	DIP	-	0	
4th Avenue W (36th St to 37th St)	8"	DIP	-	0	
37th Street (RR Xing to 1st Ave)	8"	DIP	-	0	

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Street Name	Size	Material	Age	Recorded Breaks	Location
19th Avenue E (25th St to 26th St)	8"	Drisco	-	0	
35th Street (19th Ave E to 21st Ave E)	8"	CIP	-	0	
35th Street (20th Av E to 21st Ave E)	8"	CIP	-	0	
20th Avenue E (37th St to 36th St)	8"	CIP	-	0	
21st Avenue E (37th St to 35th St)	8"	CIP	-	0	
37th Street (Hwy 169 to 15th Ave E)	8"	CIP	-	0	
19th Avenue E (Hwy 169 to 41st St)	8"	CIP	-	0	
Townline Road (Water TMT Plant to Well)	8"	PE	-	0	
47th Street (Irongate Ave to Hwy 73)	8"	DIP	-	0	
Highway 73 (47th St to Hwy 169)	8"	DIP	-	0	
Irongate Avenue (47th St to north)	8"	DIP	-	0	
42nd Street (3rd Ave W to 1st Ave)	8"	DIP	-	0	
Rainey Road Loop (First Ave to First Ave)	6"/4"	CIP	-	2	Kelly Lake
3rd Avenue (4th St N to 1st St)	6"/4"	CIP/CIP	-	5	Kelly Lake
1st Street (First Ave to west)	6"/4"	CIP/CIP	-	2	Kelly Lake
1st Avenue Alley (1st St to 4th St)	6"	CIP	-	0	Kerr
South of RR Xing to 11th Street Loop	6"	CIP	-	INACTIVE	Kitzville
4th Avenue E (21st St to Howard)	6"	CIP	-	INACTIVE	
First Avenue (6th St N to 1st St)	6"	CIP	-	9	Kelly Lake
2nd Avenue E (Outer Dr to S Inner Dr)	6"	CIP	-	6	
39th Street (5th Ave E to 12th Ave E)	6"	CIP	-	5	
Center Avenue (1st St to south)	6"	CIP	-	4	Kelly Lake
Itasca Avenue (1st St to south)	6"	CIP	-	3	Kelly Lake
2nd Avenue W (37th St to south)	6"	CIP	-	3	
19th Avenue E (41st St to south)	6"	CIP	-	3	
4th Avenue E (41st St to 44th St)	6"	CIP	-	3	
Opal Lane	6"	DIP	-	3	
3rd Avenue W (37th St to 39th St)	6"	CIP	-	2	

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Street Name	Size	Material	Age	Recorded Breaks	Location
Outer Drive (31st St to S Inner Dr)	6"	CIP	-	2	
W Inner Drive (N Inner Dr to S Inner Dr)	6"	CIP	-	2	
7th Ave E (33rd St to S Inner Dr)	6"	DIP/CIP	-	2	
32nd Street (Outer Dr to 6th Ave E)	6"	CIP	-	2	
6th Avenue E (31st St to Outer Dr)	6"	CIP	-	2	
37th Street (5th Ave E to 12th Ave E)	6"	CIP	-	2	
38th Street (1st Ave to 12th Ave E)	6"	CIP	-	2	
8th Avenue E (39th St to south)	6"	CIP	-	2	
39th Street (Hwy 169 to 19th Ave E)	6"	CIP	-	2	
3rd Avenue E (45th St to south)	6"	CIP	-	2	
4th Street (Morton Ave to south)	6"	CIP	-	1	Leetonia
1st Street (Morton Ave to south)	6"	CIP	-	1	Leetonia
Harold Avenue (1st St to 2nd St)	6"	CIP	-	1	Leetonia
4th Street N (3rd Ave to First Ave)	6"	CIP	-	1	Kelly Lake
4th Avenue W (25th St to 22nd St)	6"	CIP	-	1	
Minnesota Street (8th Ave E to 12th Ave E)	6"	CIP	-	1	
Brooklyn Drive (23rd St to south)	6"	DIP	-	1	
7th Avenue W (31st St to south)	6"	CIP	-	1	
1st Avenue Frontage Road (31st St to 37th St)	6"	CIP	-	1	
N Inner Drive (1st Ave to Outer Dr)	6"	CIP	-	1	
S Inner Drive (37th St to 7th Ave E)	6"	CIP	-	1	
12th Avenue E (Hwy 169 to north)	6"	CIP	-	1	
Merryview Lane (Gray Dr to 16th Ave)	6"	CIP	-	1	
31st Street (19th Ave E to east)	6"	CIP	-	1	
16th Avenue E (39th St to north)	6"	CIP	-	1	
2nd Avenue E (44th St to south)	6"	CIP	-	1	
45th Street (1st Ave S to east)	6"	DIP	-	1	
E 14th Street (12th Ave to 14th Ave)	6"	CIP	-	0	

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Street Name	Size	Material	Age	Recorded Breaks	Location
12th Avenue E (South of 13th St)	6"	-	-	0	
3rd Street (Morton Ave to south)	6"	CIP	-	0	Leetonia
2nd Street (Morton Ave to south)	6"	CIP	-	0	Leetonia
Morton Ave to First Ave Loop (Leetonia to Kelly Lake)	6"	CIP	-	0	
2nd Avenue (4th St N to 1st St)	6"	CIP	-	0	Kelly Lake
First Avenue (1st St to south)	6"	CIP	-	0	Kelly Lake
7th Avenue E (19th St to Michigan St)	6"	DIP	-	0	
23rd Street (11th Ave E to Brooklyn Dr)	6"	CIP	-	0	
24th Street (10th Ave E to 11th Ave E)	6"	CIP	-	0	
4th Avenue W (31st St to 28th St)	6"	CIP	-	0	
Highland Drive (8th Ave E to Mesabi Dr)	6"	CIP	-	0	
East Park Drive (Highland Dr to south)	6"	CIP	-	0	
Mesabi Drive (East Park Dr to south)	6"	CIP	-	0	
9th Avenue W (Corey Tracts Rd to south)	6"	CIP	-	0	
7th Avenue W (37th St to 40th St)	6"	CIP	-	0	
6th Avenue W (37th St to 40th St)	6"	DIP	-	0	
5th Avenue W (37th St to 40th St)	6"	DIP	-	0	
8th Avenue W (31st St to south)	6"	CIP	-	0	
6th Avenue W (32nd St to south)	6"	CIP	-	0	
32nd Street (7th Ave W to 6th Ave W)	6"	CIP	-	0	
34th Street (8th Ave W to 6th Ave W)	6"	CIP	-	0	
4th Avenue W (31st to 34th St)	6"	CIP	-	0	
4th Avenue W (37th St to 38th St)	6"	CIP	-	0	
3rd Avenue W (31st St to 34th St)	6"	CIP	-	0	
2nd Avenue W (31st St to 34th St)	6"	CIP	-	0	
34th Street (5th Ave W to 2nd Ave W)	6"	CIP	-	0	
38th Street (4th Ave W to 3rd Ave W)	6"	CIP	-	0	

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Street Name	Size	Material	Age	Recorded Breaks	Location
33rd Street (32nd St to 6th Ave E)	6"	CIP	-	0	
25th Street to Merryview Lane	6"	CIP	-	0	
16th Avenue (25th St to Merryview Ln)	6"	CIP	-	0	
16th Avenue (Gray Dr to south)	6"	CIP	-	0	
Diane Lane (Gray Dr to Merryview Ln)	6"	CIP	-	0	
42nd Street (4th Ave E to 5th Ave E)	6"	CIP	-	0	
43rd Street (4th Ave E to 5th Ave E)	6"	CIP	-	0	
44th Street (1st Ave S to 4th Ave E)	6"	DIP	-	0	
47th Street (1st Ave to 5th Ave W)	6"	DIP	-	0	
47th Street (5th Ave W to Ironton Ave)	6"	CIP	-	0	
Emerald Trail (5th Ave W to east)	6"	DIP	-	0	
Aspen Grove to 47th Street Loop	6"	DIP	-	0	
Aspen Grove to Meadow Drive Loop	6"	DIP	-	0	
Meadow Drive (Newburg Rd to east)	6"	DIP	-	0	
Newburg Road (Hwy 169 to Meadow Dr)	6"	DIP	-	0	
1st Street to south of RR Xing Loop	4"	CIP	-	INACTIVE	Kitzville
5th Avenue E (42nd St to south)	4"	CIP	-	8	
40th Street (1st Ave to 4th Ave E)	4"	CIP	-	4	
Stuntz Drive (40th St to 3rd Ave E)	4"	CIP	-	4	
4th Avenue East (18th St to 16th St)	4"	CIP	-	2	
2nd Avenue (4th St N to north)	4"	CIP	-	2	Kelly Lake
44th Street (4th Ave E to 5th Ave E)	4"	CIP	-	2	
Grant Street Neighborhood(5th,4th,3rd Ave W)	4"	CIP	-	1	
17th Street (1st Ave to 3rd Ave E)	4"	CIP	-	0	
19th Street (1st Ave to east)	4"	CIP	-	0	
14th Avenue E (16th St to north)	4"	CIP	-	0	
15th Street (13th Ave E to 14th Ave E)	4"	CIP	-	0	
Michigan Street (7th Ave E to 12th Ave E)	4"	CIP	-	0	

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Street Name	Size	Material	Age	Recorded Breaks	Location
Corey Tracts Road (Dillon Road to 9th Ave W)	4"	CIP	-	0	
9th Avenue W (Corey Tracts Rd to 37th St)	4"	CIP	-	0	
Alley east of 7th Avenue W (31st St to 32nd St)	4"	CIP	-	0	
33rd Street (5th Ave W to 4th Ave W)	4"	CIP	-	0	
Connors Street (4th Ave E to 5th Ave E)	4"	CIP	-	0	
Abandoned RR R/W Loop (41st St to 43rd St)	4"	CIP	-	0	
42nd Street (Abandoned RR R/W to 4th Ave E)	4"	CIP	-	0	
43rd Street (Abandoned RR R/W to 4th Ave E)	4"	CIP	-	0	
Highway 169 (East of Newburg Rd to west)	4"	CIP	-	0	
Howard Street to Hwy 169 Loop (Howard to 25th St)	24"	DIP	-	0	
1st Avenue (31st St to 29th St)	18"	CIP	-	2	
1st Avenue (31st St to Hwy 169)	18"	DIP	-	1	
1st Avenue (Alley south of Howard to Howard)	18"	DIP	-	0	
31st Street (Hwy 169 to west)	16"	DIP	-	0	
31st Street (5th Ave W to 1st Ave)	16"	DIP	-	0	
Bunker Road (Townline Rd to south)	12"/6"	CIP/DIP	-	1/7	
1st Avenue (25th St to 22nd St)	12" Dual Main	CIP	-	0	
1st Avenue (22nd St to Alley south of Howard)	12" Dual Main	DIP	-	0	
1st Avenue (29th St to 25th St)	12" Dual Main	DIP	-	0	
Scranton Meter to Well House	12"	DIP	-	INACTIVE	
22nd Street (1st Ave to 6th Ave E)	12"	CIP	-	1	
1st Avenue (Bennett Tower to Scranton Meter)	12"	CIP	-	0	
West Howard (1st Ave to west)	12"	CIP	-	0	
23rd Street to E Howard Loop (Hwy 169 to Southview)	12"	DIP	-	0	
Highway 73 to Newburg Road Loop	12"	DIP	-	0	
Ansley Road (Dillon Rd to County 63)	10"/8"	CIP/PE	-	0	Kerr

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Street Name	Size	Material	Age	Recorded Breaks	Location
Ansley Road (Dillon Rd to First Ave)	10"	DIP	-	3	Kelly Lake
31st Street (Dillon Rd to 8th Ave W)	10"	DIP	-	1	
16th street (15th Ave E to 13th Ave E)	10"	CIP	-	0	
Mitchell Avenue	-	-	-	1	Kitzville
40th Street (9th Ave W to 7th Ave W)	-	-	-	0	
40th Street (6th Ave W to 5th Ave W)	-	-	-	0	

## ii. Hydrant Data

Data below was generated by HPU staff as part of standard flushing operations.

### FIRE HYDRANT LOCATION & GENERAL INFORMATION

HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
100	X	ADAMS AVE & 4TH ST - KTZ	OOS - LOW FLOW (2017)	8' 0"	2011			
101		MITCHELL AVE & 4TH ST - KTZ	2 - 2.5'S, NO STEAMER!	7' 0"	1965		X	
102		JACKSON AVE & 4TH ST - KTZ		8' 0"	1982			
103		ADAMS AVE & 3RD ST - KTZ		8' 0"	2010			
104	X	MITCHELL AVE & 3RD ST - KTZ	OOS - VERY STIFF (2016/2017)	8' 0"	1977			
105	X	JACKSON AVE & 3RD ST - KTZ	OOS - NoStmr! - WEEP HOLES - VERY STIFF (17)	NA	1922		X	
106		ADAMS AVE & 2ND ST - KTZ		8' 0"	2010			
107		MITCHELL AVE & 2ND ST - KTZ	REPLACED (20XX) - NO INFO PROVIDED	NA	NA			
108	X	JACKSON AVE & 2ND ST - KTZ	OOS - VERY STIFF (2017)	NA	NA			
109	X	MITCHELL AVE & 1ST ST - KTZ	OOS - BAD CHATTER (2017)	8' 0"	1982			
110		JACKSON AVE & 1ST ST - KTZ		8' 0"	2010			
111		WEST END OF 2ND ST - KTZ		8' 0"	2010			
112		HOWARD ST & 2ND AVE SOUTH	MISSING BOLT ON BARREL (14,16,17)	8' 0"	1994			
113		W OF 3230 E 7TH AVE APARTMENTS	PRIVATE	NA	1982			YES
114		1ST AVE & 28TH ST		8' 0"	1994			

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## FIRE HYDRANT LOCATION & GENERAL INFORMATION

HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
115		12TH AVE E & 11TH ST		8' 0"	2008			
116	X	13TH AVE E & 11TH ST	OOS - WON'T OPEN (17) - NO STEAMER	NA	NA		X	
117	X	14TH AVE E & 11TH ST	OOS - WET - BARREL SPLIT (16/17)	NA	NA	X	X	
118	X	15TH AVE E & 11TH ST	OOS - LOW FLOW (2017) - WET	8' 0"	1982	X		
119		16TH AVE E & 11TH ST	STIFF (2017)	NA	1953			
120	X	13TH AVE E & 12TH ST	OOS - CHATTERS/LOW FLOW (2017)	8' 0"	1982			
121		15TH AVE E & 12TH ST		7' 6"	1974			
122		16TH AVE E & 12TH ST	WET	8' 0"	1980	X		
123		25TH ST & GRAYSER LOT		8' 0"	1975			
124		14TH AVE E 13TH ST		NA	1992			
125		13TH AVE E & 14TH ST		NA	1992			
126	X	1430 E 12TH AVE	OOS-HAMMERS/LOW FLOW (17) NO STEAMER!	NA	1906		X	
127		319 E PARK DR	LOW HEIGHT (2017)	7' 6"	1984			
128		19TH AVE E & 26TH ST		8' 0"	1988			
129		2121 E 37TH ST		NA	1992			
130		WEST OF LEISURE HILLS		NA	1966			
131		2251 E 37TH ST		NA	1992			
132		3RD AVE E & 16TH ST		8' 0"	2010			
133		5TH AVE E & 16TH ST	NEED UPDATED INFO - BOT GSKT LKS (16,17)	7' 6"	1980			
134		6TH AVE E & 16TH ST	REPAIRED 2017	NA	1945			
135		7TH AVE E & 16TH ST		NA	2001			
136		3RD AVE E & 17TH ST		8' 6"	1991			
137		1702 E 4TH AVE	REPAIRED 2017	8' 0"	2010			
138		5TH AVE E & 18TH ST		NA	1990			
139	X	1ST AVE & 18TH ST	VALVE OFF	NA	1992			
140		3RD AVE E & 18TH ST		NA	1990			
141	X	1ST AVE & GRANT ST	OOS - HIT BY PLOW - (14-16-17)	8' 6"	2006			

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## FIRE HYDRANT LOCATION & GENERAL INFORMATION

HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
142		5TH AVE W & GRANT ST	LOW PRESSURE/FLOW	NA	2005			
143		4TH AVE W & GRANT ST	LOW PRESSURE/FLOW	NA	1947			
144		3RD AVE W & GRANT ST	LOW PRESSURE/FLOW	NA	1995			
145		2031 W 4TH AVE	LOW PRESSURE/FLOW	7' 6"	1974			
146		S. SIDE OF OLD CITY GARAGE ON 19TH ST		8' 6"	1978			
147		3211 TAPALLA RD		8' 0"	1982			
148		3828 E 16TH AVE	WET	NA	1999	X		
149		SUPER 8 MOTEL	PRIVATE	8' 0"	1983			YES
150		1329 E 16TH AVE		7' 0"	1967			
151		13TH AVE E & 15TH ST		NA	1992			
152		14TH AVE E & 15TH ST		7' 6"	2014			
153		16TH AVE & 15TH ST	NO STEAMER	NA	NA		X	
154		15TH ST & HWY 169		NA	1947			
155		12TH AVE E & 16TH ST		8' 6"	2006			
156	X	16TH ST & 16TH AVE	OOS - TOP LEAKS (17) - NO STEAMER	NA	1928	X		
157		1721 E 13TH AVE	WET	8' 0"	1982	X		
158		1707 E 14TH AVE		NA	1956			
159		18TH ST & 13TH AVE		NA	1960			
160		16TH AVE & 18TH ST	WET - REPAIRED 2017	8' 0"	1977	X		
161		7TH AVE E & MICHIGAN ST		7' 6"	1984			
162		9TH AVE E & MICHIGAN ST		NA	1992			
163		11TH AVE & MICHIGAN ST	REPLACED - NO INFORMATION	NA	NA			
164		9TH AVE E & MINNESOTA ST		NA	1993			
165		11TH AVE & WISCONSIN ST		8' 0"	2009			
166		12TH AVE & WISCONSIN ST		8' 6"	2006			
167		4TH AVE E & 19TH ST		8' 6"	2006			
168		5TH AVE E & 19TH ST	WET - WILL NOT SHUT ALL THE WAY (17)	8' 6"	2006	X		
169		6TH AVE E & 19TH ST		8' 6"	2006			

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## FIRE HYDRANT LOCATION & GENERAL INFORMATION

HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
170		9TH AVE E & 19TH ST	WRONG TAG	6' 0"	2001			
171		10TH AVE & 19TH ST	WRONG TAG	NA	2003			
172		2ND AVE E & 19TH ST		NA	2007			
173		1ST AVE & HOWARD ST		7' 0"	1996			
174		HOWARD ST & 2ND AVE NORTH		8' 0"	1994			
175		HOWARD ST & 3RD AVE N		8' 0"	1994			
176		HOWARD ST & 4TH AVE S		8' 0"	1994			
177		HOWARD ST & 5TH AVE N		8' 0"	1994			
178		HOWARD ST & 6TH AVE S		8' 0"	1994			
179		1932 E 7TH AVE		NA	1988			
180		HOWARD ST & 8TH AVE N		8' 0"	1994			
181	X	HOWARD ST & 9TH AVE S	OOS - BREAKAWAYS - OFF AT VLV (2017)	8' 0"	1994			
182		HOWARD ST & 10TH AVE N		8' 0"	1998			
183		HOWARD ST & 11TH AVE S		8' 0"	1994			
184		HOWARD ST & 12TH AVE S		NA	2007			
185		HOWARD ST & HIBBING PARK HOTEL	WET	8' 6"	2005	X		
186		1ST AVE & 25TH ST W		8' 0"	1994			
187		HOWARD ST & 7TH AVE N		8' 0"	1994			
188		NORTH SIDE OF LEE CENTER	PRIVATE	8' 0"	1980		YES	
189		SW OF LEE CENTER	PRIVATE	NA	1980		YES	
190		4TH AVE W & HOWARD ST	NO STEAMER - NEEDS VLVTOP - WEEPHOLES	NA	NA		X	
191		2ND AVE W & HOWARD ST		7' 6"	2014			
192		1ST AVE & 21ST ST		8' 0"	1994			
193		2ND AVE E & 21ST ST	REPAIRED 2017	9' 6"	1987			
194		3RD AVE E & 21ST ST - REALIFE		8' 6"	2005			
195		4TH AVE E & 21ST ST	WET	8' 0"	1982	X		
196		5TH AVE E & 21ST ST		8' 0"	2003			
197		6TH AVE E & 21ST ST		8' 0"	2010			

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## FIRE HYDRANT LOCATION & GENERAL INFORMATION

HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
198		7TH AVE E & 21ST ST		7' 6"	1975			
199		8TH AVE E & 21ST ST		8' 0"	2008			
200		9TH AVE E & 21ST ST		7' 0"	1959			
201		10TH AVE E & 21ST ST		NA	1911			
202		11TH AVE # & 21ST ST		7' 0"	1967			
203	X	5TH AVE W & 22ND ST	OOS - STMR THREAD SIZE? - BLACK RING (17)	7' 0"	1960			
204	X	3RD AVE W & 22ND ST	OOS - NUT LEAKS (2016) BLACK RING (2017)	NA	NA			
205		1ST AVE E & 22ND ST		8' 0"	1994			
206		2ND AVE E & 22ND ST	LOUD HAMMERING (2016/2017)	7' 6"	1973			
207		3RD AVE E & 22ND ST		8' 0"	1982			
208		4TH AVE E & 22ND ST		NA	1990			
209		5TH AVE E & 22ND ST	CANNOT OPEN STEAMER (16,17)	7' 0"	1922			
210	X	6TH AVE E & 22ND ST	OOS - BLACK RING (2017)	8' 0"	2010			
211		7TH AVE E & 22ND ST	STIFF (2017)	8' 0"	1978			
212		9TH AVE E & 22ND ST	WET	NA	1988	X		
213	X	10TH AVE E & 22ND ST	OOS - HAMMERS/LOW FLOW (2017)	8' 0"	1982			
214	X	11TH AVE E & 22ND ST	OOS - OFF AT VALVE, LINE LEAKS (2017)	NA	2001			
215	X	12TH AVE E & 22ND ST	OOS - VERY STIFF/LOW FLOW (2017) - WET	NA	1931	X		
216	X	4TH AVE W & 23RD ST	OOS - BO OPERATING NUT (2017)	NA	NA			
217		3RD AVE W & 23RD ST		7' 0"	2010			
218	X	2ND AVE E & 23RD ST	OOS - ONLY OPENS 1/2 WAY - WET - (16/17)	NA	NA	X		
219		4TH AVE E & 23RD ST	TALL HEIGHT	8' 0"	2010			
220	X	5TH AVE E & 23RD ST	OOS - VALVE OFF (2016/2017)	7' 6"	1932			
221		6TH AVE E & 23RD ST	WET - 2.5 IS BO, FALLS OUT	NA	1917	X		
222		7TH AVE E & 23RD ST	REPAIRED 2017	8' 0"	1978			
223		9TH AVE E & 23RD ST		8' 6"	2006			

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## FIRE HYDRANT LOCATION & GENERAL INFORMATION

HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
224		11TH AVE E & 23RD ST		8' 0"	2008			
225		BROOKLYN DRIVE & 23RD ST		NA	1988			
226		4TH AVE W & 24TH ST	NO STEAMER - WEEP HOLES	7' 0"	1938		X	
227		3RD AVE W & 24TH ST		NA	1993			
228		2ND AVE W & 24TH ST		NA	1969			
229		1ST AVE E & 24TH ST		8' 0"	1994			
230	X	3RD AVE E & 24TH ST	OOS - VERY STIFF (2017)	NA	NA			
231		8TH AVE E & 24TH ST		8' 0"	2008			
232	X	9TH AVE E & 24TH ST	OOS - STIFF/LOW FLOW (2017)	NA	1948			
233		10TH AVE E & 24TH ST	WET - REPAIRED 2017	8' 6"	1985	X		
234		11TH AVE E & 24TH ST	WET	NA	1982	X		
235	X	5TH AVE W & 25TH ST	OOS - OFF AT VALVE, WON'T SHUTDOWN (17)	8' 0"	1980			
236		4TH AVE W & 25TH ST		8' 0"	1982			
237		3RD AVE W & 25TH ST		7' 0"	2006			
238		2ND AVE E & 25TH ST		8' 6"	1985			
239		4TH AVE E & 25TH ST		8' 0"	2010			
240		5TH AVE E & 25TH ST	NO STEAMER	NA	1967		X	
241		6TH AVE E & 25TH ST	STIFF (2017)	7' 6"	1982			
242		8TH AVE E & 25TH ST		NA	1948			
243		9TH AVE E & 25TH ST		8' 0"	2014			
244		10TH AVE E & 25TH ST		8' 0"	1977			
245		11TH AVE E & 25TH ST		7' 6"	1984			
246		SOUTHVIEW #11	NEEDS VALVE BOX TOP (2017)	8' 6"	1976			
247		SOUTHVIEW #9 & #10	PRIVATE	8'6"	1976			YES
248		SOUTHVIEW #7		8' 6"	1976			
249		SOUTHVIEW #4	PRIVATE	8' 6"	1976			YES
250	X	SOUTHVIEW #2	OOS - HAMMERS/LOW FLOW (2017)	NA	1976			
251		ENTRANCE TO SOUTHVIEW - E HOWARD ST		8' 6"	2014			

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HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
252		E SIDE OF COUNTY GARAGE	PRIVATE	8' 0"	1994			YES
253		SW CORNER OF COUNTY GARAGE		NA	1981			
254		NW CORNER OF COUNTY GARAGE	PRIVATE	8' 0"	1997			YES
255		1908 E 25TH ST		NA	1988			
256		1950 E 25TH ST	WET	8' 0"	2010	X		
257		ENTRANCE TO FOREST HEIGHTS	WET	NA	1976	X		
258		1ST AVE E & 23RD ST E		NA	1994			
259		EDWARDS OIL, W 41ST ST		NA	2008			
260		HIBBING FABRICATORS		NA	2002			
261		N COLLEGE PARKING LOT	PRIVATE	7' 6"	1971			YES
262		S COLLEGE PARKING LOT	PRIVATE	NA	1966			YES
263		5TH AVE W & 23RD ST	WET	NA	1980	X		
264		5TH AVE W & 24TH ST	WET	8' 0"	1980	X		
265		5TH AVE W & 26TH ST		8' 0"	1980			
266		5TH AVE W & 27TH ST		8' 0"	1981			
267		5TH AVE W & 28TH ST	NO VALVE TOP (2017) - WET	8' 0"	2009	X		
268		2ND AVE W & 25TH ST		8' 0"	1980			
269		11862 TOWNLINE ROAD, IN YARD HPU WTP	PRIVATE - LOW FLOW	8' 0"	1983			YES
270		4TH AVE W & 26TH ST	BAD THREADS ON SOUTH 2.5" (2017)	8' 6"	2012			
271		3RD AVE W & 26TH ST		8' 0"	1982			
272	X	2ND AVE W & 26TH ST	OOS - STIFF/LOW FLOW (2017) WET	NA	1972	X		
273		1ST AVE E & 26TH ST	WET	8' 0"	1994	X		
274	X	3RD AVE EAST & 26TH ST	OOS - TOP IS CRACKED - LEAKS (16/17)	NA	NA			
275		5TH AVE E & 26TH ST	NO VALVE BOX TOP (2017)	7' 6"	1988			
276		7TH AVE E & 26TH ST		NA	1947			
277		120 HIGHLAND DRIVE		7' 6"	1958			
278		WEST PARK DRIVE & HIGHLAND DRIVE		7' 6"	1958			
279	X	326 HIGHLAND DRIVE	OOS - VERY STIFF (2017)	7' 6"	1958			

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HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
280	X	422 HIGHLAND DRIVE	OOS - STEAMER FITTING LEAKS (2017)	7' 6"	1958			
281		450 HIGHLAND DRIVE		7' 6"	1958			
282		MESABI DRIVE & HIGHLAND DRIVE		7' 6"	1958			
283		330 MESABA DRIVE	STIFF (2017)	7' 6"	1958			
284		E PARK DRIVE & MESABI DRIVE		7' 6"	1958			
285		204 EAST PARK DRIVE		7' 6"	1958			
286		EAST PARK DRIVE & HIGHLAND DRIVE	MISSING BOLT (14,16,17)	7' 6"	1958			
287	X	4TH AVE W & 27TH ST	OOS - CHATTERS/LOW FLOW (2017)	7' 6"	1980			
288	X	3RD AVE W & 27TH ST	OOS - BAD CHATTER (2017)	8' 0"	1982			
289		1ST AVE E & 27TH ST		8' 0"	1994			
290		2ND AVE E & 27TH ST	WET	8' 6"	2005	X		
291		4TH AVE E & 27TH ST		8' 0"	1982			
292		5TH AVE E & 27TH ST		NA	1977			
293	X	6TH AVE E & 27TH ST	OOS - HAMMERS/LOW FLOW (2017)	8' 0"	1982			
294		7TH AVE E & 27TH ST	HYD VLV: 16' W & 21' N of HYD	7' 6"	1984			
295		4TH AVE W & 28TH ST		8' 0"	2010			
296	X	3RD AVE W & 28TH ST	OOS - CHATTERS/LOW FLOW (2017)	8' 0"	1982			
297		2ND AVE W & 28TH ST	WEEP HOLES	7' 6"	1959			
298		2ND AVE E & 28TH ST		7' 0"	1917			
299		4TH AVE E & 28TH ST	HYDRANT SHAKES (2016) - STIFF (2017)	7' 0"	1981			
300		5TH AVE E & 28TH ST		8' 0"	1982			
301	X	6TH AVE E & 28TH ST	OOS - NEEDS REPLACEMENT (2017)	NA	1981			
302		7TH AVE E & 28TH ST		8' 0"	2010			
303		3RD AVE W & 29TH ST		7' 6"	1981			
304		1ST AVE & 29TH ST W		8' 0"	1994			
305		5TH AVE E & 29TH ST	WET	8' 6"	1991	X		
306		7TH AVE E & 29TH ST	WET	7' 0"	1963	X		
307	X	2ND AVE W & 30TH ST	OOS - NEEDS REPLACEMENT (2017)	7' 6"	1972			

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HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
308	X	1ST AVE E & 30TH ST E	OOS - HAMMERS & LEAKS - (2016/2017)	9' 0"	1976			
309	X	2ND AVE E & 30TH ST	OOS - HAMMERS/LOW FLOW (2017)	8' 0"	1982			
310	X	3RD AVE E & 30TH ST	OOS - LOW FLOW/VLV BOX FULL (16/17)	8' 0"	1982			
311		8TH AVE E & 30TH ST	NO VALVE BOX TOP (2017)	NA	1950			
312		6TH AVE W & 31ST ST		8' 0"	1983			
313		4TH AVE W & 31ST ST		7' 6"	1969			
314	X	3RD AVE W & 31ST ST	OOS - 2.5" THREADS STRIPPED - LEAKS (16/17)	NA	1968			
315	X	1ST AVE E & 31ST ST E	OOS - BLACK RING (2016)	NA	1976			
316		2ND AVE E & 31ST ST		7' 6"	1981			
317		3RD AVE E & 31ST ST		NA	1973			
318		4TH AVE E & 31ST ST	NO STEAMER - STIFF (2017)	NA	1968		X	
319		5TH AVE E & 31ST ST		8' 0"	1982			
320	X	6TH AVE E & 31ST ST	OOS - LOW FLOW - WET (2016/2017)	7' 6"	1981	X		
321		7TH AVE E & 31ST ST		NA	1964			
322		JEFFERSON (TURNKEY) HOUSING	PRIVATE - WET	NA	1969			YES
323		7TH AVE W, BETWEEN 31ST & 32ND ST	STIFF (2017)	8' 0"	1977			
324		6TH AVE W & 32ND ST		7' 6"	1977			
325		11870 GOLF LINKS ROAD - 51ST STREET		NA	1993			
326		3214 W 7TH AVE		NA	2001			
327		3217 W 6TH AVE		8' 0"	1977			
328		NW OF JCPENNY'S	PRIVATE	8' 6"	2007			YES
329		7TH AVE W & 33RD ST - CLOSER TO 32ND		8' 0"	1977			
330	X	3313 W 6TH AVE	OOS - VERY STIFF/LOW FLOW (2017)	NA	1977			
331	X	3RD AVE W & 32ND ST	OOS - BAD LEAK AT STM - OFF (2016/2017)	7' 6"	1919			
332		2ND AVE W & 32ND ST	WET	7' 6"	1972	X		
333	X	1ST AVE & 32ND ST	OOS - BLACK RING (2016)	NA	1978			
334		1ST AVE & 33RD ST	STIFF & LITTLE HAMMER (2017)	8' 0"	1978			

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## FIRE HYDRANT LOCATION & GENERAL INFORMATION

HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
335		4TH AVE W & 34TH ST		8' 6"	1985			
336		3RD AVE W & 34TH ST		NA	1973			
337		2ND AVE W & 34TH ST		7' 0"	1972			
338		1ST AVE & 34TH ST		NA	1978			
339		1ST AVE & 35TH ST		8' 0"	1978			
340	X	4TH AVE W & 36TH ST	OOS - CHATTERS/LOW FLOW (2017)	8' 0"	1980			
341	X	3RD AVE W & 36TH ST	OOS - CHATTERS/LOW FLOW (2017)	8' 0"	1980			
342		2ND AVE W & 36TH ST		8' 0"	1980			
343		1ST AVE & 36TH ST	WET	8' 0"	1978	X		
344		6TH AVE E & 32ND ST		NA	1951			
345	X	32ND ST & 33RD ST	OOS - HAMMERS/LOW FLOW (2017)	NA	1953			
346		6TH AVE E & 33RD ST		7' 6"	1951			
347		614 E 33RD ST		8' 0"	1977			
348		3223 E 7TH AVE		NA	1977			
349		3401 E 7TH AVE		8' 0"	1977			
350	X	7TH AVE E & SOUTH INNER DRIVE	OOS - CHATTERS - NOT SURE IF OFF (16/17)	8' 0"	1977			
351	X	32ND ST & OUTER DRIVE	OOS - STIFF/LOW FLOW (2017)	NA	1953			
352		3306 OUTER DRIVE		8' 6"	2006			
353		6TH AVE E & OUTER DRIVE		8' 6"	2006			
354		3436 OUTER DRIVER	WEEP HOLES	NA	1956			
355		SOUTH INNER DRIVE & OUTER DRIVE	WEEP HOLES	NA	1956			
356	X	1ST AVE E & 32ND ST	OOS - LEAKING - VALVE OFF (16/17) - WET	NA	1952	X		
357		3210 E 2ND AVE	WET - MISSING BOLT (14,16,17)	NA	1952	X		
358		2ND AVE E & ACCESS DRIVE	WET - WEEP HOLES	NA	1952	X		
359		3405 W INNER DRIVE		8' 0"	1982			
360		401 N INNER DRIVE		NA	1953			
361		605 N INNER DRIVE		NA	1953			
362		401 S INNER DRIVE		NA	1990			

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HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
363		3411 E 2ND AVE	WET	7' 6"	1980	X		
364	X	3519 E 2ND AVE	OOS - TOP LEAKS BAD (2017)	NA	2003			
365		37TH ST & S INNER DRIVE	WET	NA	1953	X		
366		3216 E 1ST AVE		NA	1952			
367		3316 E 1ST AVE	TOP OF HYD LEAKS (16,17) - WET?	NA	1952	X		
368		1ST AVE E & 35TH ST	WET	7' 0"	1963	X		
369		3524 E 1ST AVE	MISSING BOLTS (14,16,17)	6' 0"	1961			
370		1ST AVE E & 37TH ST		8' 0"	1982			
371		NE OF HOSPITAL	PRIVATE	NA	2007			YES
372		S OF FAIRVIEW	PRIVATE - WET	8' 0"	1999			YES
373	X	13TH AVE E & NAPA AUTO PARTS	OOS - VERY STIFF/LOW FLOW (2017)	NA	1958			
374	X	13TH AVE E & NORTHWOODS FORD	OOS - LOW FLOW (2017) - WET	7' 6"	1973	X		
375		13TH AVE E & TOTAL TOOL		NA	1988			
376	X	13TH AVE E & HOUGHTON	OOS - LOW FLOW (2017)	8' 0"	1982			
377		SE OF HOSPITAL	PRIVATE	7' 6"	1978			YES
378		413 E 32ND ST	WEEP HOLES	7' 6"	1951			
379		4TH AVE E & 29TH ST		NA	1974			
380		W OF WALMART W ENTRANCE	PRIVATE	8' 6"	2000			YES
381		E OF WALMART E ENTRANCE	PRIVATE	8' 6"	2000			YES
382		E OF WALMART	PRIVATE	8' 6"	2000			YES
383		S OF WALMART	PRIVATE	8' 6"	2000			YES
384		W OF WALMART	PRIVATE	8' 6"	2000			YES
385		1506 E 25TH ST, PIZZA RANCH		NA	1953			
386		EAST PARK DRIVE, GRAYSER	VALVE BOX BENT, NO TOP (2017)	NA	1953			
387	X	N SIDE OF OLD BRIDGEMAN'S	OOS - VERY STIFF (2016/2014)	7' 6"	1953			
388		GRAY DRIVE & MERRYVIEW	WET	8' 6"	1985	X		
389		1429 E MERRYVIEW LANE		8' 0"	1982			
390		2621 DIANE LANE		NA	1953			

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HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
391		GRAY DRIVE & DIANE LANE	WET	7' 6"	1984	X		
392		JEFFERSON SCHOOL / SUNRISE BAKERY	PRIVATE	NA	1990			YES
393		GRAY DRIVE & 16TH AVE	WET	8' 0"	2008	X		
394		2621 E 16TH AVE		8' 0"	2008			
395		16TH AVE & MERRYVIEW		8' 6"	2008			
396		1647 E MERRYVIEW LANE		8' 0"	2008			
397		18TH AVE & MERRYVIEW		NA	2008			
398		1618 E 25TH ST		NA	1953			
399		2515 E 18TH ST	WET	NA	1953	X		
400		1969 E 26TH ST		8' 0"	1976			
401		1933 E 27TH ST		NA	1964			
402	X	19TH AVE & 28TH ST	OOS - CANNOT OPEN (2016/2017)	7' 6"	1984			
403		19TH AVE & 31ST ST		8' 0"	2010			
404		1936 E 31ST ST		7' 6"	1959			
405		2052 E 31ST ST		7' 6"	1959			
406		19TH AVE & 34TH ST		NA	1945			
407		1920 E 35TH ST		8' 6"	1980			
408		2010 E 35TH ST		8' 6"	1980			
409		2036 E 35TH ST		8' 6"	1980			
410		19TH AVE & 37TH ST	NO STEAMER - BENT 2.5" NOZZLE (14,16,17)	NA	1938		X	
411	X	3608 E 20TH AVE	OOS - CANNOT OPEN FULLY - (2016/2017)	NA	1980			
412		2005 E 36TH ST	BAD HAMMER, TOP BARREL LEAKS (16,17)	8' 6"	1980			
413		3606 E 21ST ST		NA	1980			
414	X	1929 E 37TH ST	OOS - CANNOT OPEN (2016/2017)	8' 6"	1978			
415	X	2015 E 37TH ST	OOS - WON'T SHUT OFF/OFF AT VLV (2017)	8' 6"	1978			
416	X	2037 E 37TH ST	OOS - NO VLV TOP - LEAKS - HAMMERS (17)	8' 6"	1978			
417	X	2035 E 36TH ST	OOS - HAMMERS/LOW FLOW - (2017)	NA	1979			
418		3029 TAPALLA ROAD		8' 0"	2013			

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HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
419		3411 TAPALLA ROAD		8' 0"	1982			
420		37TH ST & TAPALLA ROAD	WET	NA	1982	X		
421		N OF 3100 BLOCK & 14TH AVE (HECO)		8' 0"	2003			
422		E OF 3100 BLOCK & 14TH AVE		NA	1967			
423		E OF 3100 BLOCK & 14TH AVE POND	WET	NA	1967	X		
424		SOUTH OF 3100 BLOCK & 14TH AVE		10' 6"	2000			
425		N ENTRANCE OF IRON GATE MALL	PRIVATE	7' 6"	1978			YES
426		34TH ST & 15TH AVE	WET	8' 0"	2009	X		
427		S OF 3551 E 15TH AVE	WET	8' 0"	2008	X		
428		NE OF 3406 E 15TH AVE		NA	1967			
429	X	S OF IRACORE	OOS - STIFF/LOW FLOW (2017)/VLV OFF GJ(2018)	NA	1974			
430		3620 E BELTLINE		NA	1967			
431		N OF L & M RADIATOR	WET	NA	1967	X		
432	X	S OF QUEST	OOS - BARREL LEAKS (MJ 8/2018)	8' 0"	1976			
433	X	1610 E 37TH ST	OOS - VERY STIFF (2016/2017)	NA	1982			
434	X	1720 E 37TH ST	OOS - HAMMERS - LOW FLOW (2017)	NA	2014	X		
435	X	1730 E 37TH ST	OOS - WET - SITFF - LOW FLOW (2017)	8' 0"	1983	X		
436		HPU MESABA TOWER; HWY 169 & 31ST ST		8' 0"	1982			
437		RIVERCREEK & O'ROURKE ROAD		7' 6"	2001			
438		11678 RIVERCREEK		7' 6"	2001			
439		CIRCLE DRIVE, RIVERCREEK		7' 6"	2001			
440		11666 RIVERCREEK		7' 6"	2001			
441		11653 RIVERCREEK		7' 6"	2001			
442		EAST OF B4 LOT 13, RIVERCREEK		7' 6"	2001			
443		11665 RIVERCREEK		7' 6"	2001			
444		11689 RIVERCREEK		7' 6"	2000			
445		SE CORNER OF IRONGATE MALL	PRIVATE	8' 6"	2014			YES
446		S SIDE OF IRONGATE MALL	PRIVATE - WET	7' 6"	1979			YES

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HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
447		SW CORNER OF IRONGATE MALL	PRIVATE	7' 6"	1979			YES
448		NE CORNER OF WALMART P.LOT	WET	NA	2000	X		
449		N OF WALMART P.LOT	PRIVATE	NA	2000			YES
450		ST. LOUIS COUNTY LANDFILL		8' 6"	1978			
451	X	4025 DILLON ROAD	OOS - CHATTERS/LOW FLOW (2017)	8' 0"	1979			
452		COREY TRACTS ROAD & DILLION ROAD		NA	1979			
453	X	3975 COREY TRACTS ROAD	OOS - CANNOT OPEN (2016/2017)	8' 0"	1979			
454	X	3963 COREY TRACTS ROAD	OOS - CHATTERS/LOW FLOW (2017)	NA	1979			
455		1ST HYD N ON DILLON RD & HWY 169		8' 0"	1975			
456		N OF HYD 456 ON DILLON RD		NA	1979			
457		SW CORNER OF HWY 169 & HWY 73		8' 6"	2004			
458		4TH AVE E & 44TH ST		NA	1990			
459		E OF 3230 E 7TH AVE HRA APARTMENTS	PRIVATE	NA	1982			YES
460		9TH AVE W & COREY TRACTS ROAD		7' 0"	1967			
461		8TH AVE W & 38TH ST	VALVE BOX BENT OVER (2017)	8' 0"	2008			
462	X	7TH AVE W & 38TH ST	OOS - STIFF/LOW FLOW (2017)	7' 0"	1958			
463		6TH AVE W & 38TH ST		NA	2007			
464	X	8TH AVE W & 39TH ST	OOS - FULL OF H2O - (14,16,17)	8' 0"	2008			
465		7TH AVE W & 39TH ST	WET	7' 0"	1958	X		
466		6TH AVE W & 39TH ST		NA	2007			
467		4TH AVE W & 37TH ST		8' 0"	1978			
468	X	4TH AVE W & 38TH ST	OOS - VERY STIFF/LOW FLOW (2017)	NA	1945			
469		3RD AVE W & 38TH ST		NA	1967			
470		3843 W 2ND AVE	WEEP HOLE LEAK (2016) - NO VLV TOP (2017)	NA	1951			
471		1ST AVE E & 38TH ST	STIFF (2017)	NA	1954			
472	X	2ND AVE E & 38TH ST	OOS - VERY STIFF - ONLY OPENS HALF (16/17)	9' 6"	1997			
473		3RD AVE E & 38TH ST	EAST 2.5 BENT / NO VLV TOP (14,16,17)	NA	1952			

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HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
474		4TH AVE E & 38TH ST	WEEP HOLES	NA	1954			
475		7TH AVE E & 37TH ST	TOP OF HYD LEAKS (16,17) - WEEP HOLES	7' 0"	1947			
476		37TH ST & MAYFAIR AVE	WEEP HOLES	7' 0"	1947			
477		12TH AVE E & 37TH ST		NA	2001			
478		503 E 38TH ST	WEEP HOLES	7' 0"	1947			
479		38TH ST & MAYFAIR AVE	WET	8' 0"	2008	X		
480		12TH AVE E & 38TH ST		7' 0"	1966			
481		3918 W 2ND AVE	WEEP HOLES	NA	1951			
482		3923 1ST AVE, OLD L&M SUPPLY		NA	1978			
483		1ST AVE & 39TH ST		NA	1978			
484		2ND AVE E & 39TH ST - ST. LEO'S	PRIVATE	7' 6"	1960			YES
485		521 E 39TH ST	VERY STIFF (16,17)	8' 6"	1987			
486		39TH ST & MAYFAIR AVE		8' 6"	1978			
487	X	12TH AVE E & 39TH ST	OOS - STIFF/LOW FLOW (2017)	8' 6"	1978			
488		40TH ST & STUNTZ DRIVE	WET - NO VALVE TOP (2017)	7' 6"	1985	X		
489		3RD AVE E & STUNTZ DRIVE	REPAIRED 2017 - WET	8' 0"	1983	X		
490		3RD AVE E & 40TH ST	WET	8' 0"	1976	X		
491		4TH AVE E & 40TH ST	NO VALVE TOP/FULL OF DIRT (2017) - WET	7' 6"	1985	X		
492	X	5TH AVE E & 40TH ST	OOS - VERY STIFF - WET (2016/2017)	8' 0"	1982	X		
493		8TH AVE E & 40TH ST		8' 0"	1980			
494	X	12TH AVE E & 40TH ST	OOS - SLAMMED SHUT, BROKEN (2017)	7' 6"	2002			
495		E OF HIBBING CHRYSLER		7' 6"	1980			
496	X	39TH ST & 16TH AVE	OOS - STIFF - LOW FLOW (2017)	7' 6"	1980			
497		1735 E 39TH ST	CHATTERS (16,17)	NA	1951			
498		39TH ST & 19TH AVE	NO STEAMER	NA	1938		X	
499		W ENTR. TO BIRCHLANE MOBILE CRT.		8' 6"	2005			
500		2215 E 41ST ST		6' 0"	2006			
501	X	834 E 41ST ST	OOS - BLACK RING (16/17) - NO STEAMER	NA	1938		X	

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## FIRE HYDRANT LOCATION & GENERAL INFORMATION

HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
502		1433 E 41ST ST	GASKET OFF TOP SEAL (2017)	8' 0"	2001			
503		1605 E 41ST ST	NO STEAMER	NA	1938		X	
504		1738 E 41ST ST	WET - NO STEAMER	NA	1938	X	X	
505		NE OF HILLCREST	PRIVATE - WET	8' 0"	1977			YES
506		41ST ST & 19TH AVE	WET	8' 6"	1990	X		
507		2149 E 41ST ST		NA	1995			
508		4339 O'ROURKE ROAD	SLAMMED SHUT? (16,17)	NA	2003			
509	X	4506 O'ROURKE ROAD	OOS - CHATTER ('14/'16) - LEAKS BADLY ('17)	7' 6"	1974			
510		3804 E 13TH AVE, BWTN INDST RUB & HIB CHRY.		NA	1965			
511		1ST AVE & 44TH ST		8' 6"	1990			
512		1ST AVE & 42ND ST		NA	1987			
513		1ST AVE & 45TH ST		8' 6"	1991			
514		217 W 42ND ST, HCCU		NA	1981			
515	X	1ST AVE & 47TH ST W	OOS - VERY LITTLE PRESSURE (2014/2016)	8' 0"	2000			
516		1931 E 41ST ST		NA	1999			
517		E OF 12070 W 47TH ST, REALIFE SOUTH	CANNOT LOCATE (16,17)	7' 6"	1974			
518		12010 LINDQUIST ROAD	BENT 2.5 NOZZLE (14,16,17)	NA	1979			
519		523 ASPEN GROVE		8' 0"	1981			
520		613 ASPEN GROVE		8' 0"	1981			
521		4120 W 9TH AVE, GREAT CLIPS	PRIVATE	8' 0"	2005			YES
522		CARIBOU COFFEE FRONTAGE RD	PRIVATE	8' 0"	2005			YES
523		CUMMINS DIESEL		NA	2001			
524		4425 E 2ND AVE	LOW HEIGHT	8' 0"	1980			
525		3RD AVE E & 45TH ST		7' 6"	1973			
526		4546 E 3RD AVE, GRIFFITHS CONSTRUCTION	VALVE BOX TOP BROKEN (2017)	7' 6"	1973			
527		1ST AVE & 47TH ST		8' 0"	1991			
528		EMERALD TRAIL & 5TH AVE W		NA	1974			
529	X	420 EMERALD TRAIL	OOS - STIFF - LOW FLOW (2016)	7' 6"	1974			

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## FIRE HYDRANT LOCATION & GENERAL INFORMATION

HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
530		506 OPAL LANE	REPAIRED 2017	NA	1999			
531		418 OPAL LANE		7' 6"	1974			
532		47TH ST & 11TH AVE W		NA	1974			
533	X	926 W 47TH ST	OOS - WON'T SHUT OFF (2016)	7' 6"	1974			
534		832 W 47TH ST		NA	1974			
535		47TH ST & 5TH AVE W	TALL HEIGHT	NA	1976			
536		47TH ST & DIAMOND COURT		NA	1976			
537		4728 1ST AVE		8' 0"	1977			
538		4770 1ST AVE	STIFF & BAD CHATTER (14,16,17)	8' 0"	1977			
539		4821 1ST AVE	WET	8' 0"	1977	X		
540		11999 LINDQUIST ROAD	REPAIRED 2017	8' 0"	1979			
541	X	11983 LINDQUIST ROAD	OOS - BENT 2.5 NOZZLE ('14) HIT BY PLOW ('16)	8' 0"	1979			
542	X	11955 LINDQUIST ROAD	OOS - VERY STIFF ('14) WON'T SHUT OFF ('16)	NA	1979			
543		11939 LINDQUIST ROAD	REPAIRED 2017	8' 6"	1979			
544		11919 LINDQUIST ROAD		NA	1979			
545		1ST AVE & 49TH ST; LINDQUIST ROAD	BENT 2.5 NOZZLE (2014) NO VALVE TOP (2016)	8' 0"	1979			
546	X	4921 1ST AVE	OOS - VALVE LEAKS - 2016	NA	2003			
547		4981 1ST AVE		NA	2003			
548		5049 1ST AVE		NA	1977			
549		5126 1ST AVE		7' 6"	1980			
550		5184 1ST AVE		NA	1993			
551		5246 1ST AVE		7' 6"	1973			
552		4860 1ST AVE	TOP BARREL GASKET LEAKS (2017)	NA	1977			
553		3568 O'ROURKE ROAD		7' 6"	1973			
554		3518 O'ROURKE ROAD	VERY STIFF (2017)	7' 6"	1973			
555		S SEWAGE TREATMENT PLANT, NW OF OFFICE	PRIVATE	8' 6"	2003			YES

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HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
556		11669 TOWNLINE ROAD	STIFF (16,17)	NA	1977			
557		4TH AVE E & 42ND ST	WET - BOTTOM BARREL GASKET LEAKS (2017)	NA	1990	X		
558		4TH AVE E & 43RD ST		NA	1965			
559		5TH AVE E & 43RD ST		8' 0"	2010			
560	X	2ND AVE E & 44TH ST	OOS - HAMMERS/LOW FLOW (2017)	7' 6"	1980			
561	X	2ND AVE E & 45TH ST	OOS - HAMMERS (2017)	8' 0"	1980			
562		511 E 45TH ST		NA	1965			
563		11864 TOWNLINE ROAD, IN FRONT HPU WTP	PRIVATE - LOW FLOW	7' 6"	1982		YES	
564		11885 TOWNLINE ROAD		8' 0"	2001			
565		11875 TOWNLINE ROAD		6' 0"	2001			
566		11862 TOWNLINE ROAD		6' 0"	2001			
567		NORTH OF 3606 O'ROURKE ROAD		NA	2001			
568		S. OF COUNTRY ESTATES ENTRANCE		NA	2001			
569		SOUTH OF 3664 O'ROURKE ROAD	VALVE BOX TOP BROKEN (16,17)	NA	1999			
570		NORTH OF 3664 O'ROURKE ROAD		7' 6"	2001			
571		47TH ST & ASPEN KNOLL		7' 6"	1980			
572		809 APSEN KNOLL	VERY LOW HEIGHT (14,16,17)	7' 6"	1980			
573	X	605 MEADOW DRIVE	OOS - LOW FLOW (16,17)	8' 0"	1992			
574		702 ASPEN GROVE		8' 0"	1981			
575		12022 TOWNLINE ROAD		8' 0"	2008			
576	X	12012 TOWNLINE ROAD	OOS - BREAK AWAYS (14,16,17)	NA	1979			
577		11994 TOWNLINE ROAD		NA	1979			
578		11978 TOWNLINE ROAD	REPAIRED 2017	NA	1979			
579		11958 TOWNLINE ROAD		NA	1979			
580	X	11940 TOWNLINE ROAD	OOS - BREAK AWAYS (14,16,17)	NA	1979			
581		11924 TOWNLINE ROAD	REPAIRED 2017	NA	1979			
582		1ST AVE & TOWNLINE ROAD		10' 0"	2005			
583		TOWNLINE ROAD & BUNKER ROAD		8' 0"	2001			

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HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
584	X	N OF 3474 BUNKER ROAD	OOS - BAD THREADS (16,17)	NA	1976			
585		3456 BUNKER ROAD		NA	1976			
586		3423 BUNKER ROAD	VERY STIFF (2017)	NA	1976			
587		3394 BUNKER ROAD		NA	1976			
588		3350 BUNKER ROAD		NA	1976			
589		3312 BUNKER ROAD	LOW FLOW	NA	1976			
590		3279 BUNKER ROAD	LOW FLOW	NA	1992			
591		3231 BUNKER ROAD	LOW FLOW - NO VALVE TOP (2017)	NA	1976			
592	X	3167 BUNKER ROAD	OOS - CANNOT OPEN (14,16,17)	NA	1978			
593		1951 E 26TH ST		8' 6"	2005			
594		11851 GOLF LINKS ROAD - 51ST STREET	VALVE BOX TOP BROKEN (16,17)	NA	1993			
595		1201 E 3RD AVE, BUS MUSEUM		8' 0"	1998			
596		1100 GREYHOUND BLVD, PORTA-JOHN		8' 0"	1999			
597		315 E 13TH ST, FRABONI'S ENTRANCE		8' 6"	1985			
598	X	7TH AVE E & 13TH ST	OOS - MISSING? (14,16,17)	NA	1985			
599		NW OF NORTHERN CASTINGS LOT	PRIVATE	8' 6"	2004			YES
600		WEST END OF 1ST ST - KL	VERY LOW	6' 0"	2001			
601		504 BOTTOMS RD - KL		NA	1999			
602		414 S 1ST AVE - KL		8' 0"	2008			
603		CENTER AVE & 3RD ST - KL	BENT 2.5 CAP (14,16,17)	NA	1948			
604		1ST ST & 3RD AVE N - KL		7' 6"	1982			
605	X	208 N 3RD AVE - KL	OOS - NO STEAMER - STIFF/LOW FLOW (2017)	NA	1934		X	
606	X	3RD AVE N & 4TH ST - KL	OOS - STIFF/LOW FLOW (2017)	NA	NA			
607		109 N 2ND AVE - KL	NEED INFORMATION	NA	NA			
608		213 N 2ND AVE - KL		NA	1992			
609		309 N 2ND AVE - KL		8' 0"	1982			
610		404 RAINY RD - KL		8' 6"	1991			
611	X	108 N 1ST AVE - KL	OOS - LOW FLOW (2017)	8' 0"	1982			

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HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
612		223 N 1ST AVE - KL		8' 0"	1982			
613	X	300 N 1ST AVE - KL	OOS - VERY STIFF - ONLY OPENS 1/4 (16,17)	8' 0"	1982			
614		406 N 1ST AVE - KL		8' 0"	2008			
615		1ST AVE N & 500 BLOCK - KL		NA	NA			
616		MORTON AVE & 1ST ST - LEET		8' 6"	2014			
617	X	HAROLD AVE & 2ND ST - LEET	OOS-NUT LOOSE/TOP BROKE/BAD LEAK (16/17)	NA	NA			
618		HAROLD AVE & 3RD ST - LEET		NA	2001			
619		DALE AVE & 4TH ST - LEET		8' 0"	1982			
620		MORTON AVE & 4TH ST - LEET		NA	2007			
621		5TH ST & RAILROAD TRACK - LEET		NA	2007			
622		HAROLD AVE & 5TH ST - LEET		NA	2007			
623	X	2ND ST & SOUTH ALLEY - KERR	OOS - CHATTERS (2017)	8' 0"	1982			
624		1ST AVE & 1ST ST - KERR		8' 0"	1982			
625		1ST AVE & 3RD ST - KERR		NA	2007			
626	X	4TH ST & ITASCA AVE - KL	OOS - LOW FLOW (2017)	8' 0"	1982			
627		NAT'L GUARD ARMORY, BROOKLYN DR		8' 6"	2003			
628		12469 FLOWERVILLE	REPAIRED 2017	8' 6"	1986			
629		EAST OF HYDRANT 628, FLOWERVILLE		8' 6"	1984			
630		S OF COLLEGE DORM	PRIVATE	NA	1993			YES
631		W OF COLLEGE DORM	PRIVATE	8' 0"	1993			YES
632		FOREST HEIGHTS, CENTER	PRIVATE	NA	1973			YES
633		W OF COLLEGE CAMPUS	WET	7' 6"	1974	X		
634		25TH ST & 16TH AVE EAST - SE CORNER	NEED INFORMATION	NA	NA			
635	X	5TH AVE W & 32ND ST	OOS - STIFF/LOW FLOW (2017)	8' 0"	1981			
636		HWY 169 & 13TH ST	VALVE BOX BENT (2017)	NA	1992			
637		11635 HWY 169		8' 0"	1983			
638		11635 HWY 169		8' 0"	1983			
639	X	HWY 169 & FERRELL GAS	OOS - HYDRANT BROKE OFF (2017)	8' 0"	1983			

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HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
640	X	ROAD TO SUNNY HILL	OOS - WON'T OPEN (2017)	8' 0"	1983			
641		NE OF SUNNY HILL		8' 0"	1983			
642		N SIDE OF HWY 169, JUNK YARD	CANNOT LOCATE - LOCKED GATE	NA	NA			
643		6TH AVE W & 37TH ST		7' 6"	1982			
644		2ND N COLLEGE AUTO	PRIVATE	8' 0"	1999			YES
645		BETWEEM HCC & FAIRGROUNDS ARENA	PRIVATE	8' 0"	1999			YES
646		S OF COLLEGE AUTO	PRIVATE	8' 0"	1999			YES
647		N OF COLLEGE MAINT.	PRIVATE	8' 0"	1999			YES
648		S OF DIANE LN & GRAY DR	PRIVATE	NA	1965			YES
649		GREENVIEW APARTMENTS	PRIVATE	8' 0"	1998			YES
650		HULL RUST LIQUOR	WET - WEEP HOLES	NA	1959	X		
651		NE OF SUPER ONE	PRIVATE	8' 0"	1983			YES
652		SE OF SUPER ONE	PRIVATE	NA	1970			YES
653		E OF L&M SUPPLY	PRIVATE	7' 6"	1970			YES
654		31ST & 10TH AVE WEST - SW CORNER	NEED DEPTH	NA	2014			
655		SW OF L&M SUPPLY	PRIVATE	7' 0"	1971			YES
656		W OF L&M SUPPLY	PRIVATE - WRONG SIZE STEAMER!	7' 6"	1971			YES
657		W OF MESABA MALL	PRIVATE	7' 6"	1971			YES
658		NW OF MESABA MALL	PRIVATE	7' 0"	1971			YES
659	X	32ND ST & 10TH AVE WEST - SW CORNER	OOS - BROKE ON/OFF@VLV(17) - NEEDS INFO	NA	2014	X		
660		E OF ESSENTIA HEALTH	PRIVATE	8' 0"	1993			YES
661		510 W 25TH ST		NA	2007			
662		518 W 25TH ST, CHARTER	PRIVATE	NA	1958			YES
663		555 W 27TH ST, ELECTRIC POWER DOOR	PRIVATE	7' 0"	1971			YES
664		NE OF IRONGATE MALL	PRIVATE	7' 6"	1979			YES
665		9TH AVE W & 40TH ST		7' 6"	2001			
666		NE OF PARK PLACE APARTMENTS	PRIVATE	8' 6"	2003			YES
667		E OF PARK PLACE APARTMENTS	PRIVATE	7' 6"	1974			YES

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HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
668		N OF COLLEGE AUTO	PVT - STILL IN PLACE, ABANDONED MAIN	NA	1967			YES
669		42ND ST & 9TH AVE W, OGLES FOOD		8' 0"	1996			
670	X	41ST ST W & MINNESOTA BEARING	OOS - CHATTERS ('14) STIFF/LOW FLOW ('16)	NA	1978			
671		NE OF LEISURE HILL		9' 6"	1991			
672		NW OF FRABONI'S	PRIVATE	8' 6"	1997			YES
673		E OF FRABONI'S	PRIVATE	8' 6"	1997			YES
674	X	OLD HWY 169, STA. 201+97	MAIN IS OFF - DRAIN HOLES PLUGGED	8' 6"	2015			
675		7TH AVE E INDUSTRIAL PARK, S OF METSO		8' 6"	1985			
676		7TH AVE E INDUSTRIAL PARK, METSO		8' 6"	1985			
677		7TH AVE E INDUSTRIAL PARK, DMR		8' 6"	1985			
678		7TH AVE E INDUSTRIAL PARK, SP AUTO	STIFF (2017)	8' 6"	1985			
679		7TH AVE E INDUSTRIAL PARK, SIM SUPPLY		8' 6"	1985			
680		13TH ST, N OF PARK GARAGE		8' 6"	1985			
681	X	13TH ST, SW OF CHOP STICKS ON 13TH ST	OOS - CHATTERS/LOW FLOW (2017)	8' 6"	1985			
682		13TH ST, S OF CHOP STICKS ON 13TH ST		8' 6"	1985			
683	X	OLD HWY 169, STA. 197+54	MAIN IS OFF - DRAIN HOLES PLUGGED	8' 6"	2015			
684		12TH AVE E & 13TH ST		8' 6"	1985			
685		SW OF 2900 E BELTLINE	PRIVATE	8' 0"	1976			YES
686		E SIDE CMA CHURCH ON 42ND ST W		8' 6"	1980			
687		9TH AVE W & MEADOW DRIVE	SLAMMED SHUT (2014)	NA	2002			
688		N OF MEADOW DR ON 9TH AVE W		8' 0"	1996			
689	X	OLD HWY 169, STA. 192+02	MAIN IS OFF - DRAIN HOLES PLUGGED	8' 6"	2015			
690		WESTGATE APARTMENTS	PRIVATE	7' 6"	1975			YES
691		W COUNTRY LN & S ESTATES DR	PRIVATE	7' 0"	1974			YES
692		FIELD LN & S ESTATES DR	PRIVATE	7' 0"	1974			YES
693		E COUNTRY LN & COUNTRY ESTATES DR	PRIVATE	7' 0"	1974			YES
694		S ESTATES DR & CTRY ESTATES DR, EAST SIDE	PRIVATE	7' 0"	1974			YES
695		FIELD LN & COUNTRY ESTATES DR	PRIVATE	7' 0"	1974			YES

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HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
696		S ESTATES DR & CTRY ESTATES DR, WEST SIDE	PRIVATE	7' 0"	1974			YES
697		COUNTRY ESTATES DR ENTRANCE	PRIVATE	7' 0"	1974			YES
698		UBC BUILDING & HWY 37		8' 0"	2000			
699		CHURCH OF CHRIST HWY 37		8' 0"	2000			
700		1533 HWY 37		8' 0"	2000			
701		ASSEMBLY OF GOD & HWY 37		8' 0"	2000			
702		NBP & HWY 37		8' 0"	2000			
703		HWY 37 & 19TH AVE		8' 0"	2000			
704		HART ELEC & HWY 37		8' 0"	2000			
705		JIVERY CONSTRUCTION & HWY 37	BASE GASKET LEAKS (2017)	8' 0"	2000			
706	X	W OF TAPALLA RD	OOS - BAD HAMMER (2017)	8' 0"	2000			
707		E OF TAPALLA RD		8' 0"	2000			
708		2311 HWY 37		8' 0"	2000			
709		2317 HWY 37	TOP GASKET LEAKS (2017)	8' 0"	2000			
710		2415 HWY 37		8' 0"	2000			
711	X	2431 HWY 37	OOS - SOMETHING BROKEN (2017)	8' 0"	2000			
712		HWY 37 & NORTH SALMI RD	WET? HYD HAS NO DRAIN PER TAG	8' 0"	2000	X		
713	X	11472 HWY 37	OOS - BAD HAMMER (2017)	8' 0"	2000			
714		11438 HWY 37		8' 0"	2000			
715		11424 HWY 37		8' 0"	2000			
716		11406 HWY 37		8' 0"	2000			
717	X	11388 HWY 37	OOS - BAD HAMMER (2017)	8' 0"	2000			
718		11369 HWY 37		8' 0"	2000			
719	X	11364 HWY 37	OOS - BAD HAMMER (2017)	8' 0"	2000			
720	X	11340 HWY 37	OOS - BAD HAMMER (2017)	8' 0"	2000			
721	X	11326 HWY 37	OOS - BAD HAMMER (2017)	8' 0"	2000			
722		11306 HWY 37		8' 0"	2000			
723		E SIDE OF MDI ENTRANCE	LOW HEIGHT (BECAUSE OF MDI CONST)	8' 0"	2000			

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HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
724		11254 HWY 37		8' 0"	2000			
725		E OF 11254 HWY 37		8' 0"	2000			
726		W OF DUBLIN RD & HWY 37		8' 0"	2000			
727		E OF DUBLIN RD & HWY 37		8' 0"	2000			
728		W OF NORTH DUBLIN RD & HWY 37		8' 0"	2000			
729		AIRWAY INN & HWY 37		8' 0"	2000			
730		CLUSIAU & HWY 37		8' 0"	2000			
731		AIRPORT ENTRANCE & HWY 37		8' 0"	2000			
732		N OF AIRPORT PARKING	PRIVATE	8' 0"	2000		YES	
733		S OF AIRPORT PARKING	PRIVATE	8' 0"	2000		YES	
734		10991 HWY 37		8' 0"	2000			
735	X	MULLIGANS & HWY 37	OOS - CHATTERS (2017)	8' 0"	2000			
736	X	HYD 1 HWY 37 INDUSTRIAL	OOS - SHAKES (16,17)	8' 0"	2000			
737		HYD 2 HWY 37 INDUSTRIAL		8' 0"	2000			
738		HYD 3 HWY 37 INDUSTRIAL		8' 0"	2000			
739	X	HYD 4 HWY 37 INDUSTRIAL	OOS - BROKE ON CLOSING (14,16,17)	8' 0"	2000			
740		HYD 5 HWY 37 INDUSTRIAL		8' 0"	2000			
741		HYD 6 HWY 37 INDUSTRIAL		8' 0"	2000			
742	X	HYD 7 HWY 37 INDUSTRIAL	OOS - VALVED OFF (14,16,17)	8' 0"	2000			
743		HYD 8 & AIRPORT WELL		8' 0"	2000			
744		AIR TANKER BASE		8' 0"	2000			
745		E DRIVEWAY OF BIRCHLANE COURTS, IN CENTER	PRIVATE	7' 6"	1977		YES	
746		3999 DEBLAK RD - KL	PRIVATE	8' 6"	2002		YES	
747		ST. LOUIS COUNTY LANDFILL WEST OF HYD 450		8' 0"	2001			
748		16TH AVE E & 13TH ST		NA	1992			
749		MINE LAB N	PRIVATE	NA	NA		YES	
750		MINE LAB CENTER	PRIVATE	NA	NA		YES	
751		MINE LAB S	PRIVATE	NA	NA		YES	

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## FIRE HYDRANT LOCATION & GENERAL INFORMATION

HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
752		WALMART ENTRANCE, HWY 73		8' 6"	2004			
753		1ST HYD S OF # 752, HWY 73		8' 6"	2004			
754		2ND HYD S OF #752, HWY 73		8' 6"	2004			
755		NE CORNER OF HWY 73 & 47TH ST W		NA	2004			
756		BWTN REALIFE SOUTH & HWY 73, ON 47TH ST W		8' 6"	2004			
757		NE OF REALIFE SOUTH ON 47TH ST W		8' 6"	2004			
758		12070 W 47TH ST, REALIFE SOUTH, P.LOT	PRIVATE	8' 0"	2010			YES
759		SE OF WALMART ON IRONGATE AVE		8' 6"	2006			
760		BWTN HYD 759 & 47TH ST W ON IRONGATE AVE		8' 6"	2006			
761		42ND ST W, SW OF IRONGATE TIRE	REPAIRED 2017	8' 0"	2010			
762		42ND ST W, SE OF VFW	WET	8' 0"	2010	X		
763		SOUTH OF LOWES	PRIVATE	8' 6"	2005			YES
764		SW OF LOWES	PRIVATE	8' 6"	2005			YES
765		WEST OF LOWES	PRIVATE - WET	8' 6"	2005			YES
766		NW OF LOWES	PRIVATE	NA	2005			YES
767		NORTH OF LOWES	PRIVATE	8' 6"	2005			YES
768		EAST OF LOWES	PRIVATE	8' 6"	2005			YES
769		SE OF LOWES	PRIVATE	NA	2005			YES
770		MANN'S THEATER		NA	2003			
771		OLD COBB COOK SCHOOL	PRIVATE	8' 6"	2006			YES
772		25TH ST & FOREST HILLS TOWN HOMES	PRIVATE	8' 6"	1997			YES
773		SE FOREST HILLS TOWN HOMES	PRIVATE	8' 6"	1998			YES
774		N OF OLD KOTULA'S JUNKYARD	CANNOT LOCATE - LOCKED GATE	NA	NA			
775		S OF OLD KOTULA'S JUNKYARD	CANNOT LOCATE - LOCKED GATE	NA	NA			
776		12TH AVE E & 12TH ST		8' 0"	2008			
777		13TH ST & HWY 169 - TURNER BLDG LOT (N. SIDE)	PRIVATE - EXTREMELY LOW!	NA	NA			YES
778		5TH AVE W & 31ST ST, ANSELY TOWER		8' 6"	2002			
779		12TH AVE E & 19TH ST		8' 6"	2006			

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## FIRE HYDRANT LOCATION & GENERAL INFORMATION

HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
780		8TH AVE E & 19TH ST	NO VALVE TOP (2017)	NA	2003			
781		3RD AVE E & 19TH ST		8' 0"	2007			
782		NW CORNER OF HPU POWER PLANT, 6TH AVE E		8' 6"	2006			
783		1100 GREYHOUND BLVD, PORTA-JOHN		8' 6"	2007			
784		S OF BOUGALIS CONST, 3RD AVE E		NA	2007			
785		N OF BOUGALIS CONST, 3RD AVE E		NA	2007			
786		16TH ST & 15TH AVE E	WET	7' 6"	2012	X		
787		29TH ST & 5TH AVE W		8' 0"	2009			
788		30TH ST & 5TH AVE W		8' 0"	2009			
789	X	8TH AVE W & 32ND ST	MAIN IS SHUT OFF - NEED INFO	NA	NA			
790	X	S OF 32ND ST ON 8TH AVE W	MAIN IS SHUT OFF - NEED INFO	NA	NA			
791	X	NE CORNER OF 33RD ST & 8TH AVE W	MAIN IS SHUT OFF - NEED INFO	NA	NA			
792		37TH ST & 8TH AVE W	WET	8' 0"	2008	X		
793	X	39TH ST & 5TH AVE W	OOS - NO STEAMER CAP - (14,16,17)	NA	2007			
794		DAIRY QUEEN W BOUND HWY 169 R.O.W.		NA	2002			
795	X	OLD HWY 169, STA. 187+08	MAIN IS OFF - DRAIN HOLES PLUGGED	8' 6"	2015			
796	X	HPU Y-YARD, OLD GAS PLANT SUBSTATION	OOS - BREAK AWAYS (14,16,17)	NA	2007			
797		759 MEADOW DR		8' 0"	1981			
798		SW CORNER OF WALGREENS	PRIVATE	8' 6"	2006		YES	
799		11775 TOWNLINE ROAD, HPU WELL'S 17 & 4A		8' 0"	2010			
800		N OF RACE TRACK AT NEW CITY STORAGE BLDG	PRIVATE - OFF @ VLV 1/10/18 - FROZEN	8' 6"	2006			YES
801	X	OLD HWY 169, STA. 182+48	MAIN IS OFF - DRAIN HOLES PLUGGED	8' 6"	2015			
802		OWENS WAY		8' 6"	2009			
803		OWENS WAY CUL-DE-SAC	FACING WRONG WAY (16,17)	8' 6"	2009			
804	X	SOUTH OF HYD 501 AT JACK & DON'S	OOS - PERMANENTLY - BAGGED	7' 6"	NA			
805		ENTRANCE TO MESABA PINES		8' 6"	2008			
806		MESABA PINES MIDDLE		8' 6"	2008			
807		MESABA PINES CUL-DE-SAC		8' 6"	2008			

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## FIRE HYDRANT LOCATION & GENERAL INFORMATION

HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
808		SOUTH ON DUBLIN ROAD, 400' FROM HWY 37	WET - SLAMMED SHUT (2014)	8' 0"	2007	X		
809	X	SOUTH OF HYD 808 ON DUBLIN ROAD	OOS - VALVED OFF, WILL NOT CLOSE (14,16,17)	8' 0"	2007			
810		BETWEEN HYD'S 729 & 730, W SIDE OF AIRPORT	PRIVATE	8' 0"	2006			YES
811		HWY 37, BWTN DMR BLDG & AIRPORT		8' 6"	2006			
812		HWY 37, NE CORNER OF DMR BLDG	CHECK THREAD SIZE	NA	2006			
813	X	HWY 37, SW CORNER OF DMR BLDG	OOS-SLAMMED SHUT(17)-CHECK THREAD SIZE	NA	2006			
814	X	OLD HWY 169, STA. 177+08	MAIN IS OFF - DRAIN HOLES PLUGGED	8' 6"	2015			
815		WWTP, SE CORNER OF MAIN OFFICE	PRIVATE	8' 0"	1987			YES
816		WWTP	PRIVATE	8' 0"	1987			YES
817		WWTP	PRIVATE	8' 0"	1987			YES
818		WWTP	PRIVATE	8' 0"	1987			YES
819		WWTP	PRIVATE	8' 0"	1987			YES
820		WWTP	PRIVATE	8' 0"	1987			YES
821		WWTP	PRIVATE	8' 6"	2003			YES
822		WWTP	PRIVATE	8' 6"	2003			YES
823		WWTP	PRIVATE	8' 6"	2003			YES
824		WWTP	PRIVATE	8' 6"	2003			YES
825		WWTP	PRIVATE	8' 0"	1987			YES
826		WWTP	PRIVATE	8' 0"	1987			YES
827		WWTP	PRIVATE	8' 0"	1987			YES
828		IRON RANGE TIRE, FRONTAGE RD		NA	2002			
829		NW OF AT&T BUILDING	PRIVATE	NA	2007			YES
830		ADAMS AVE & 1ST ST - KTZ	HYDRANT IS LOOSE (16) - CANNOT FIND (17)	NA	2007			
831	X	HWY 37 ACROSS FROM SPEC BLDG	OOS - VALVED OFF (16,17)	8'6"	2012			
832	X	HWY 37 & N HUGHES RD	WET - OFF @ VLV 1/10/18 - FROZEN	8'6"	2012	X		
833		3922 N HUGHES RD	BASE GASKET LEAKS (2017)	8'6"	2013			

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## FIRE HYDRANT LOCATION & GENERAL INFORMATION

HYD	OOS	LOCATION	COMMENTS & NOTES	DEPTH	YEAR	WET	STM	PVT
834		3954 N HUGHES RD		8'6"	2013			
835	X	N HUGHES RD & ANTONELLI RD	OFF @ VLV 1/10/18 - FROZEN	8'6"	2012			
836		ANTONELLI RD HYD	REPAIRED 2017	8'6"	2013			
837	X	OLD HWY 169, STA. 172+48	MAIN IS OFF - DRAIN HOLES PLUGGED	8'6"	2015			
838	X	OLD HWY 169, STA. 167+48	MAIN IS OFF - DRAIN HOLES PLUGGED	8'6"	2015			
839	X	OLD HWY 169, STA. 162+48	MAIN IS OFF - DRAIN HOLES PLUGGED	8'6"	2015			
840	X	OLD HWY 169, STA. 157+48	MAIN IS OFF - DRAIN HOLES PLUGGED	8'6"	2015			
841	X	OLD HWY 169, STA. 152+48	MAIN IS OFF - DRAIN HOLES PLUGGED	8'6"	2015			
842	X	OLD HWY 169, STA. 147+48	MAIN IS OFF - DRAIN HOLES PLUGGED	8'6"	2015			
843	X	OLD HWY 169, STA. 142+48	MAIN IS OFF - DRAIN HOLES PLUGGED	8'6"	2015			
844	X	OLD HWY 169, STA. 137+48	MAIN IS OFF - DRAIN HOLES PLUGGED	8'6"	2015			
845	X	OLD HWY 169, STA. 132+68	MAIN IS OFF - DRAIN HOLES PLUGGED	8'6"	2015			
846	X	OLD HWY 169, STA. 127+68	MAIN IS OFF - DRAIN HOLES PLUGGED	8'6"	2015			
847	X	OLD HWY 169, STA. 122+68	MAIN IS OFF - DRAIN HOLES PLUGGED	8'6"	2015			
848	X	OLD HWY 169, STA. 117+68	MAIN IS OFF - DRAIN HOLES PLUGGED	8'6"	2015			
849	X	OLD HWY 169, STA. 113+30	MAIN IS OFF - DRAIN HOLES PLUGGED	8'6"	2015			
850	X	OLD HWY 169, STA. 109+97	MAIN IS OFF - DRAIN HOLES PLUGGED	8'6"	2015			
851	X	OLD HWY 169, STA. 608+15	MAIN IS OFF - DRAIN HOLES PLUGGED	8'6"	2015			
852		AIRPORT - BUILDING 2A	PRIVATE	NA	2017			YES

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