



**Addendum 1**  
**Solicitation 26-99538**  
**2026 CIPP SANITARY LINING PROJECT – CITY WIDE**

This addendum serves to notify all bidders of the following changes to the solicitation documents:

- Attached to this addendum is a list of manholes that will need to be spray lined.

**QUESTIONS:** The following questions were asked and are answered in *italics* below.

- 1) The specifications reference OBIC material or approved equal for the manhole lining portion. Are you ok with SpectraShield Lining as an approved equal for consideration on this project?
  - a) Yes, that will be an approved equal.
- 2) Can we use GeoSpray HCS as an approved equal to the manhole lining specifications?
  - a) No, GeoSpray is not an approved equal.

**REPLACE:** The original plan set dated 04/21/2026 with plan set 06/18/2026 labeled “1 REVISION 06/18/2026” on the front page.

Address for pipes SL0460308 and SL0460309 of N 6<sup>th</sup> Ave E to N 6<sup>th</sup> Ave W

**ADD:** The milestone for pipes SL0460308 and SL0460309 on N 6<sup>th</sup> Ave W for August 7, 2026.

Please acknowledge receipt of this Addendum by checking the acknowledgement box within the solicitation at [www.bidexpress.com](http://www.bidexpress.com).

Posted: June 18, 2026

last saved by prays 2026.04.07 9:19 AM

\\pww\engineer\projects\2000-2499\362-2026\_cipp\_sanitary\_lining\_citywide\drawings\street\2363-title.dwg

### PLAN LEGEND

|                     |                 |
|---------------------|-----------------|
| RIGHT OF WAY LINE   | ---             |
| DITCH CENTERLINE    | ---             |
| FENCE LINE          | ---X---         |
| RETAINING WALL      | ---             |
| GRAVEL LINE         | ---             |
| GUARD RAIL LINE     | ---             |
| RAILROAD TRACK LINE |                 |
| ROAD CENTERLINE     | ---             |
| TREE LINE           | ~~~~~           |
| STREAM LINE         | ~~~~~           |
| WETLAND LINE        | ---             |
| EX SANITARY LINE    | --->>---        |
| PR SANITARY LINE    | ---             |
| AB SANITARY LINE    | ---AB-SAN---    |
| EX FORCEMAIN LINE   | ---FM>>---      |
| PR FORCEMAIN LINE   | ---             |
| AB FORCEMAIN LINE   | ---AB-FM---     |
| EX STORM LINE       | --->---         |
| PR STORM LINE       | ---             |
| AB STORM LINE       | ---AB-STRM---   |
| EX WATER LINE       | ---W---         |
| PR WATER LINE       | ---             |
| AB WATER LINE       | ---AB-W---      |
| EX GAS LINE         | ---GAS---       |
| PR GAS LINE         | ---             |
| AB GAS LINE         | ---3" PE GAS--- |
| EX STEAM LINE       | ---STEAM---     |
| AB STEAM LINE       | ---AB-STEAM---  |
| UG CABLE TV LINE    | ---UGTV---      |
| AB CABLE TV LINE    | ---AB-CATV---   |
| UG ELECTRIC LINE    | ---UCE---       |
| AB ELECTRIC LINE    | ---AB-ELEC---   |
| UG FIBEROPTIC LINE  | ---UGFO---      |
| AB FIBEROPTIC LINE  | ---AB-FO---     |
| UG TELEPHONE LINE   | ---UGT---       |
| AB TELEPHONE LINE   | ---AB-TELE---   |
| OH UTILITIES        | ---OH---        |

### SYMBOLS

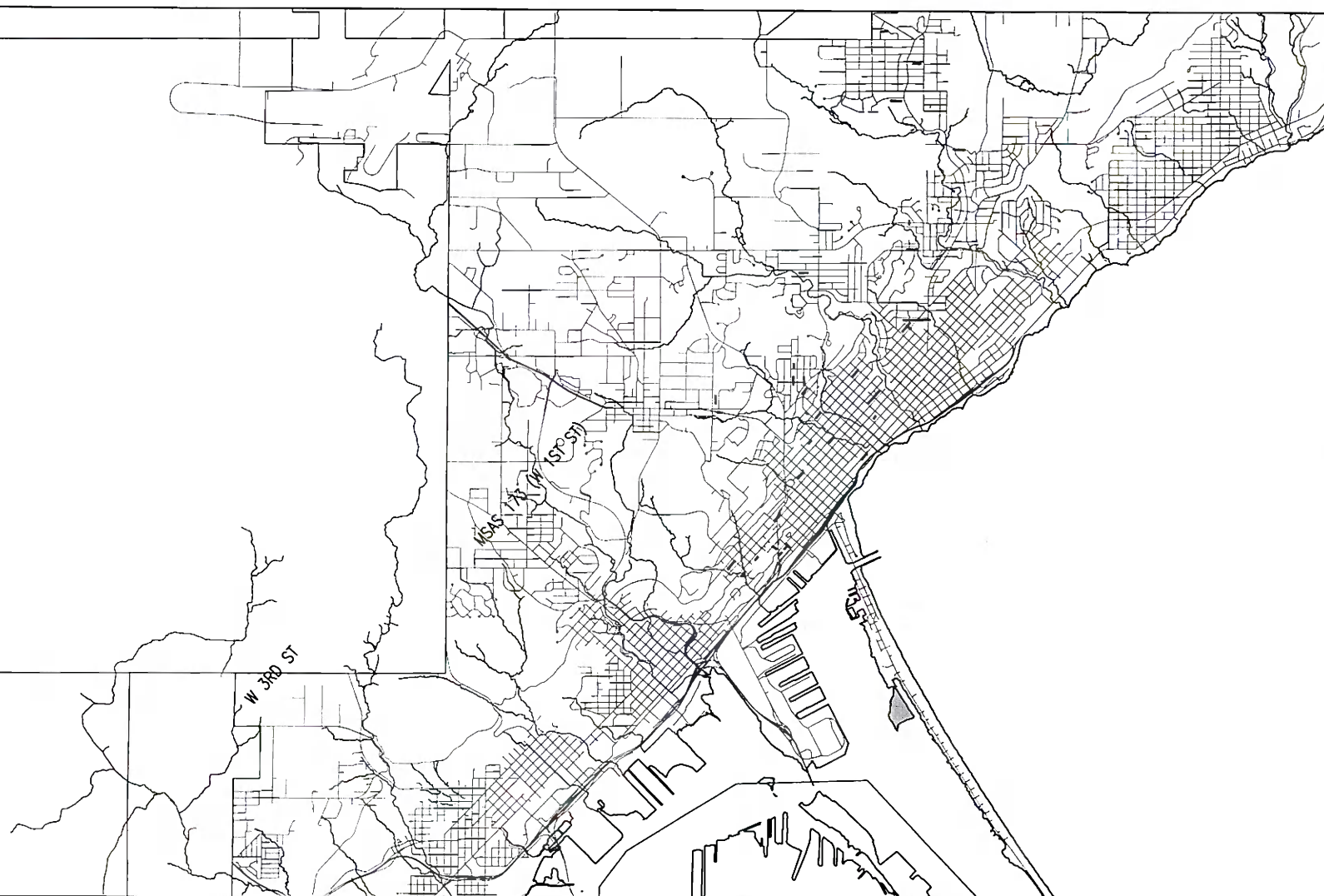
|                            |         |   |
|----------------------------|---------|---|
| EX SANITARY MANHOLE        | (SAN)   | ⊗ |
| EX SANITARY CLEANOUT       | (STRM)  | ⊗ |
| EX STORM MANHOLE           | (W)     | ⊗ |
| EX STORM CATCHBASIN        | (W)     | ⊗ |
| EX. WATER MANHOLE          | (W)     | ⊗ |
| EX. WATER VALVE            | (W)     | ⊗ |
| EX. WATER HYDRANT          | (W)     | ⊗ |
| EX. WATER SHUTOFF          | (W)     | ⊗ |
| EX. WATER & GAS MH         | (W&G)   | ⊗ |
| EX. GAS MANHOLE            | (GAS)   | ⊗ |
| EX. GAS VALVE              | (GAS)   | ⊗ |
| EX. GAS SHUTOFF            | (GAS)   | ⊗ |
| EX. STEAM MANHOLE          | (STEAM) | ⊗ |
| EX. TELEPHONE MANHOLE      | (T)     | ⊗ |
| EX. ELECTRIC MANHOLE       | (E)     | ⊗ |
| EX. POWERPOLE              | (E)     | ⊗ |
| EX. LIGHT POLE             | (E)     | ⊗ |
| EX. ELECTRIC VAULT         | (E)     | ⊗ |
| EX. ANCHOR                 | (E)     | ⊗ |
| EX. ELECTRIC TRANSFORMER   | (E)     | ⊗ |
| EX. STREET LIGHT           | (E)     | ⊗ |
| EX. SIGNAL W/ STREET LIGHT | (E)     | ⊗ |
| EX. HANDHOLE               | (H.H.)  | ⊗ |
| EX. HANDHOLE               | (H.H.)  | ⊗ |
| EX. TELEPHONE PEDESTAL     | (H.H.)  | ⊗ |
| EX. WELL                   | (W)     | ⊗ |
| BENCHMARK                  | (W)     | ⊗ |
| FOUND CI MONUMENT          | (W)     | ⊗ |
| EX. SIGN                   | (W)     | ⊗ |
| CONTROL POINT              | (W)     | ⊗ |
| EX DECIDUOUS TREE          | (W)     | ⊗ |
| EX CONIFEROUS TREE         | (W)     | ⊗ |
| EX. PARKING METER          | (W)     | ⊗ |
| EX. SOIL BORING            | (W)     | ⊗ |

# CITY OF DULUTH

## DEPARTMENT OF PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

### CONSTRUCTION PLANS FOR:

### 2026 SANITARY SEWR CIPP LINING PROJECT



#### BASIS OF DATUM

- HORIZONTAL DATUM IS SAINT LOUIS COUNTY TRANSVERSE MERCATOR 1996 (SLCTM\_96)
- VERTICAL DATUM IS NAVD 88 GEOID18 USING VERTICAL CONTROL MONUMENT "XXXXX" (EL=XXX.XXX').

| PLAN REVISIONS |           |          |
|----------------|-----------|----------|
| DATE           | SHEET NO. | APPROVER |
|                |           |          |
|                |           |          |
|                |           |          |
|                |           |          |

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".



#### GOVERNING SPECIFICATIONS

THE 2025 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. AVAILABLE AT: <http://www.dot.state.mn.us/pre-letting/spec/index.html>

THE 2026 EDITION OF THE CITY OF DULUTH PUBLIC WORKS AND UTILITIES DEPARTMENT CONSTRUCTION STANDARDS AND SUPPLEMENTS OR ADDENDUMS SHALL APPLY. AVAILABLE AT: <http://www.duluthmn.gov/engineering/standard-construction-specifications/>

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST MNUTCD, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

#### INDEX

| SHEET NO | DESCRIPTION                       |
|----------|-----------------------------------|
| 1        | TITLE                             |
| 2        | CITY OVERVIEW                     |
| 3        | STATEMENT OF ESTIMATED QUANTITIES |
| 4        | CHART-A                           |
| 5-8      | DETAILS                           |
| 9-39     | PLAN                              |

---THIS PLAN CONTAINS 39 SHEETS---

**1 REVISION 06/18/2026**

DESIGN TEAM: PMR

I HEREBY CERTIFY THAT THIS PLAN 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.

TIM SANDERS

PROJECT ENGINEER (TYPED OR PRINTED NAME)

*Tim Sanders* 4-21-26 50401 REG NO  
PROJECT ENGINEER DATE LIC. NO.

CITY APPROVAL

*David E. [Signature]* 4/24/26  
APPROVED CHIEF ENGINEER OF TRANSPORTATION DATE

*Howard [Signature]* 4-22-2026  
APPROVED CHIEF ENGINEER OF UTILITIES DATE

*[Signature]* 4-24-26  
APPROVED CITY ENGINEER DATE



1 REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tim A. Sanders

TIM SANDERS  
TYPE NAME

DATE: 04/21/2026

LIC. NO: 50401



CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. STE. 211  
DULUTH, MN 55802

2026 SANITARY SEWR CIPP LINING PROJECT

CITY PROJECT NO.: 2363

STATE AID PROJECT NO.: -

DRAWN BY: PMR

CITY OVERVIEW

SHEET NO. 2 OF 39

CHART A

| PROJECT AREA | PAGE NUMBER | BASIN | PIPE ID NUMBER | U.S. M.H. | U.S. M.H. DEPTH | D.S. M.H. | D.S. M.H. DEPTH | SLOPE (% 2 digit) | LENGTH (FT) | DIAMETER (IN) | MATERIAL | CIPP 6" (FT) | CIPP 8" (FT) | CIPP 10" (FT) | CIPP 12" (FT) | 8" END SEAL | 12" END SEAL | REMOTE CUT SERVICE | STREET              | CROSS STREET 1     | CROSS STREET 2  | NOTES  |
|--------------|-------------|-------|----------------|-----------|-----------------|-----------|-----------------|-------------------|-------------|---------------|----------|--------------|--------------|---------------|---------------|-------------|--------------|--------------------|---------------------|--------------------|-----------------|--|
| CW           | 9           | 26    | SL0210077      | SA0210013 | 647.83          | SD0210012 | 635.23          | 2.71%             | 465.5       | 8"            | VCP      |              | 465.5        |               |               |             |              | 8                  | South 69th Ave West | Sherburne St.      | Redruth St.     | Not Root List  |
| CW           | 10          | 8     | SL0530034      | SA0530119 | 1041.60         | SA0530118 | 1034.60         | 2.34%             | 298.7       | 8"            | VCP      |              | 298.7        |               |               |             |              | 11                 | Garden St.          | Cottage St.        | Snelling Ave.   | Lineable, Root balls in laterals,  |
| CW           | 10          | 8     | SL0530035      | SA0530118 | 1034.60         | SA0530117 | 1033.55         | 0.95%             | 110.6       | 8"            | VCP      |              | 110.6        |               |               |             |              | 3                  | Garden St.          | Cottage St.        | Snelling Ave.   | Lineable, Heavy Roots  |
| CW           | 10          | 8     | SL0530036      | SA0530117 | 1033.55         | SA0530116 | 1031.56         | 0.77%             | 260.0       | 8"            | VCP      |              | 260.0        |               |               |             |              | UNK                | Garden St.          | Cottage St.        | Snelling Ave.   |  |
| CW           | 10 \ 11     | 8     | SL0530037      | SA0530116 | 1031.56         | SA0530115 | 1023.10         | 3.07%             | 276.0       | 8"            | VCP      |              | 276.0        |               |               |             |              | 3                  | Garden St.          | Cottage St.        | East 8th St.    | Lineable, Root balls in laterals, Material Change, Heavy Roots.                                  |
| CW           | 11          | 8     | SL0530038      | SA0530115 | 1023.10         | SA0530114 | 1013.10         | 6.99%             | 143.1       | 8"            | VCP      |              | 143.1        |               |               |             |              | 3                  | Garden St.          | Cottage St.        | East 8th St.    | Lineable, Heavy Roots, Material Changes, Sag at end of run at MH.                                |
| CW           | 12          | 8     | SL0530040      | SA0530082 | 1029.60         | SA 530081 | 1028.10         | 0.79%             | 189.5       | 8"            | VCP      |              | 189.5        |               |               |             |              | 3                  | East 9th St         | Garden St.         | N. 20th Ave E.  | Old Video  |
| CW           | 12          | 8     | SL0530041      | SA0530083 | 1033.60         | SA0530081 | 1028.10         | 1.52%             | 360.8       | 8"            | VCP      |              | 360.8        |               |               |             |              | 8                  | East 9th St         | N. 19th ave E.     | N. 20th Ave E.  | Lineable, roots in laterals. Medium roots. Material changes. Heavy roots near the end.           |
| CW           | 12          | 8     | SL0530042      | SA0530081 | 1028.10         | SA0530077 | 1020.10         | 3.90%             | 205.3       | 8"            | VCP      |              | 205.3        |               |               |             |              | 0                  | N. 20th Ave E       | E. 9th St.         | E. 8th St.      | Lineable, Light roots.   |
| CW           | 13          | 10    | SL0810013      | SA0810013 | 1121.04         | SA0810014 | 1120.75         | 0.30%             | 97.7        | 8"            | VCP      |              | 97.7         |               |               |             |              | 0                  | W. Arrowhead Rd.    | Woodhaven Ln.      |                 | Lineable, Longitudinal Cracks  |
| CW           | 14          | 10    | SL0810035      | SA0810035 | 1111.10         | SA0810036 | 1098.60         | 2.79%             | 448.7       | 8"            | VCP      |              | 448.7        |               |               |             |              | 3                  | Gold St.            | Oakland Cir.       | Midway Ave.     | Lineable, Multiple material changes. Offset joints   |
| CW           | 15          | 10    | SL0850036      | SA0850038 | NA              | SA0850039 | NA              | NA                | 101.3       | 8"            | VCP      |              | 101.3        |               |               |             |              | 2                  | Carlisle Ave        | Roslyn Ave         |                 | Lineable, Heavy Roots, Root balls in Laterals  |
| CW           | 15          | 10    | SL0850037      | SA0850039 | 1175.88         | SA0850040 | 1171.45         | 1.27%             | 349.0       | 8"            | VCP      |              | 349.0        |               |               |             |              | 5                  | Carlisle Ave        | Roslyn Ave         |                 |  |
| CW           | 15          | 10    | SL0850038      | SA0850040 | 1171.45         | SA0850041 | 1160.75         | 5.26%             | 203.5       | 8"            | VCP      |              | 203.5        |               |               |             |              | 3                  | Carlisle Ave        | Roslyn Ave         | Woodland Ave.   |  |
| CW           | 16          | 10    | SL0850086      | SA0850032 | NA              | SW0850009 | NA              | NA                | 24.0        | 8"            | VCP      |              | 24.0         |               |               |             |              | 0                  | Columbus Ave        | W. St. Andrews. St |                 | Outside drop.  |
| CW           | 17          | 11    | SL0910026      | SA0910022 | 1282.45         | SA0910023 | 1267.36         | 4.23%             | 356.6       | 8"            | VCP      |              | 356.6        |               |               |             |              | 4                  | Northfield St.      | Woodland Ave       |                 | Lineable, Fractured pipes @ 100', Root balls blocking laterals, multiple.                        |
| CW           | 17          | 11    | SL0910027      | SA0910023 | 1267.36         | SA0910024 | 1246.56         | 6.33%             | 328.7       | 8"            | VCP      |              | 328.7        |               |               |             |              | 3                  | Northfield St.      | Woodland Ave       |                 | Fractured pipes @ 100', Root balls blocking laterals, multiple. Large Sag at 265'. Hole in main. |
| CW           | 18          | 11    | SL0960059      | SA0960059 | 1373.92         | SA0960060 | 1345.01         | 8.80%             | 328.5       | 8"            | VCP      |              | 328.5        |               |               |             |              | 9                  | E. Owatonna St.     | Allendale Ave.     | Woodland Ave.   | Lineable, Heavy Roots, Root balls in Laterals  |
| CW           | 18          | 11    | SL0960072      | SA0960069 | 1385.15         | SA0960070 | 1367.60         | 6.71%             | 261.5       | 8"            | VCP      |              | 261.5        |               |               |             |              | 3                  | Allendale Ave.      | Owatonna St.       | E. Winona St.   | Lineable, Multiple Material Changes  |
| CW           | 19          | 11    | SL100051       | SA1000044 | 1338.04         | SA1000046 | 1337.86         | 0.11%             | 160.4       | 8"            | VCP      |              | 160.4        |               |               |             |              | 2                  | Farley Ln.          | Colman Ave.        |                 | Lineable, Heavy Roots, Sag about halfway through run.  |
| CW           | 20          | 13    | SL0470015      | SA0470015 | 837.6           | SA0470014 | 831.6           | 2.69%             | 222.7       | 8"            | VCP      |              | 222.7        |               |               |             |              | 7                  | E. 6th St. Alley    | E 7th St.          | E 6th St.       | Lineable, Root balls in laterals. Not straight pipe.   |
| CW           | 21          | 13    | SL0470070      | SA0470137 | 728.19          | SA0470136 | 708.13          | 9.40%             | 213.4       | 8"            | VCP      |              | 213.4        |               |               |             |              | 2                  | E. 1st St. Alley    | N 6th Ave. E       | N. 7th Ave E    |  |
| CW           | 21          | 13    | SL0470071      | SA0470136 | 708.13          | SA0470135 | 699.1           | 4.52%             | 199.7       | 8"            | VCP      |              | 199.7        |               |               |             |              | 1                  | E. 1st St. Alley    | N 6th Ave. E       | N. 7th Ave E    | Lineable, Leaking joints, Not straight   |
| CW           | 22          | 13    | SL0470175      | SA0470169 | 841.6           | SA0470168 | 831.6           | 2.30%             | 434.7       | 8"            | VCP      |              | 434.7        |               |               |             |              | 10                 | E. 6th St.          | N. 12th Ave E.     | N. 13th Ave E.  | May need spot repair at 42' and 270'. Heavy Roots at 100' and 250'-270'. Material Changes.       |
| CW           | 22          | 13    | SL0470176      | SA0470168 | 831.6           | SA0470167 | 830.6           | 0.55%             | 182.0       | 8"            | VCP      |              | 182.0        |               |               |             |              | 5                  | E. 6th St.          | N. 11th Ave E.     | N. 12th Ave E.  | May not be lineable without serious reconditioning.  |
| CW           | 22          | 13    | SL0470177      | SA0470167 | 830.6           | SA0470166 | 820.34          | 3.23%             | 317.5       | 8"            | VCP      |              | 317.5        |               |               |             |              | 6                  | E. 6th St.          | N. 11th Ave E.     | N. 12th Ave E.  | Lineable, some offset joints. Material Changes.  |
| CW           | 23          | 13    | SL0470213      | SA0470196 | 757.88          | SA0470195 | 756.7           | 0.62%             | 189.5       | 12"           | VCP      |              |              |               | 189.5         |             |              | 0                  | E. 4th St.          | N. 10th Ave E      | N. 11th Ave E   | Lineable, roots in laterals  |
| CW           | 24          | 14    | SL0520055      | SA0520023 | 999.51          | SA0520024 | 982.1           | 8.72%             | 199.7       | 8"            | VCP      |              | 199.7        |               |               |             |              | 0                  | N.6th Ave E.        | E. 11th. St        |                 | Lineable, not straight pipe. Heavy roots.  |
| CW           | 25          | 14    | SL0520076      | SA0520063 | 958.04          | SA0520062 | 945.1           | 2.77%             | 466.7       | 8"            | VCP      |              | 466.7        |               |               |             |              | 10                 | E. 10th St.         | N. 6th Ave E       | N. 7th Ave E.   | May not be lineable, multiple joints off set, multiple material changes, heavy roots.            |
| CW           | 26          | 14    | SL0520110      | SD0520008 | 1086.33         | SD0520045 | 1067.54         | 3.87%             | 486.0       | 8"            | VCP      |              | 486.0        |               |               |             |              | 8                  | E. Skyline Pkwy     | N. 7th Ave E.      | N. 8th Ave E.   | Difficult to line. Obstructions and large holes showing soil.                                    |
| CW           | 27          | 14    | SL0520216      | SA0520182 | 980.6           | SA0520181 | 967.6           | 2.79%             | 465.2       | 8"            | VCP      |              | 465.2        |               |               |             |              | 12                 | E. 10th St.         | N. 11th Ave E.     | N. 12th Ave E.  | Lineable with roots  |
| CW           | 28          | 14    | SL0540038      | SA0540028 | 1245.46         | SA0540034 | 1232.37         | 5.57%             | 234.9       | 8"            | VCP      |              | 234.9        |               |               |             |              | 3                  | Fern Ave.           | Martha St.         | Plum St.        | Lineable with roots  |
| CW           | 29          | 14    | SL0540040      | SA0540035 | 1216.87         | SA0540036 | 1193.05         | 7.31%             | 326.0       | 8"            | VCP      |              | 326.0        |               |               |             |              | 4                  | Fern Ave.           | High St.           | Martha St.      | Lineable with roots, change of material  |
| CW           | 29          | 14    | SL0540041      | SA0540036 | 1193.05         | SA0540037 | 1173.1          | 6.08%             | 328.2       | 8"            | VCP      |              | 328.2        |               |               |             |              | 5                  | Fern Ave.           | High St.           | Martha St.      | Lineable with roots  |
| CW           | 30          | 14    | SL0540065      | SA0540062 | 1138.6          | SA0540061 | 1104.6          | 8.75%             | 388.4       | 8"            | VCP      |              | 388.4        |               |               |             |              | 6                  | N. 8th Ave E. Alley | High St.           | Martha St.      | Possible spot repair required at manhole SA054062  |
| CW           | 31          | 16    | SL0450114      | SA0450116 | 890.6           | SA0450118 | 889.6           | 0.55%             | 182.6       | 8"            | VCP      |              | 182.6        |               |               |             |              | 2                  | W. 3rd. St. Alley   | N. 12th Ave W.     | N. 11th Ave W.  | Lineable with roots  |
| CW           | 31          | 16    | SL0450115      | SA0450117 | 890.03          | SA0450118 | 889.6           | 0.51%             | 83.8        | 8"            | VCP      |              | 83.8         |               |               |             |              | 0                  | W. 3rd. St. Alley   | N. 12th Ave W.     | N. 11th Ave W.  | Lineable   |
| CW           | 31          | 16    | SL0450116      | SA0450118 | 889.6           | SA0450119 | 870.02          | 11.26%            | 173.9       | 8"            | VCP      |              | 173.9        |               |               |             |              | 0                  | W. 3rd. St. Alley   | N. 11th Ave W.     | N. 12th Ave W.  | Lineable   |
| CW           | 32          | 16    | SL0450169      | SA0450166 | 929.1           | SA0450169 | 914.6           | 5.73%             | 252.9       | 8"            | VCP      |              | 252.9        |               |               |             |              | 3                  | W. 3rd. St. Alley   | N. 10th Ave W.     | N. 9th Ave. W.  | Lineable with roots, change of material, not straight pipe                                       |
| CW           | 33          | 16    | SL0460274      | SA0450180 | 753.1           | SD0460211 | 721.6           | 8.83%             | 356.6       | 8"            | VCP      |              | 356.6        |               |               |             |              | 4                  | Mesaba Ave.         |                    |                 | No video   |
| CW           | 33          | 16    | SL0460281      | SA0460220 | 815             | SA0460218 | 780.6           | 13.44%            | 255.9       | 6"            | VCP      | 255.9        |              |               |               |             |              | 4                  | N. 7th Ave W.       | W. 2nd St.         | W. 3rd St.      | Upstream Elevation Estimate, no video  |
| CW           | 33          | 16    | SL0460282      | SA0460218 | 780.6           | SA0460214 | 765.7           | 33.79%            | 44.1        | 6"            | VCP      | 44.1         |              |               |               |             |              | 0                  | N. 7th Ave W.       | W. 2nd St.         | W. 3rd St.      | No video   |
| CW           | 33          | 16    | SL0460276      | SA0460210 | 706.9           | SA0460209 | 694.8           | 4.82%             | 251.0       | 8"            | VCP      |              | 251.0        |               |               |             |              | 0                  | Mesaba Ave.         | N. 6th Ave E       |                 | Not Root List, no video  |
| CW           | 33          | 16    | SL0460308      | SA0460212 | 714.8           | SA0460209 | 694.8           | 12.58%            | 159.0       | 12"           | VCP      |              |              |               | 159.0         |             |              | UNK                | N. 6th Ave E        | W. 2nd St.         | W. 1st St       | Not Root List, no video  |
| CW           | 33          | 16    | SL0460309      | SA0460209 | 694.8           | SA0460207 | 672.4           | 13.33%            | 168.0       | 12"           | VCP      |              |              |               | 168.0         |             |              | UNK                | N. 6th Ave E        | W. 2nd St.         | W. 1st St       | Not Root List, no video  |
| CW           | 34          | 17    | SL0460027      | SA0460018 | 921.6           | SA0460017 | 916.01          | 6.44%             | 86.8        | 8"            | VCP      |              | 86.8         |               |               |             |              | 0                  | W. 5th St.          | N. 6th Ave W       | N. 5th Ave W.   | Lineable with roots  |
| CW           | 34          | 17    | SL0460032      | SA0460013 | 876.1           | SA0460020 | 848.49          | 6.36%             | 434.3       | 8"            | VCP      |              | 434.3        |               |               |             |              | 10                 | W. 5th St.          | N 5th Ave W.       | N 4th Ave W.    | Lineable   |
| CW           | 35          | 17    | SL0460089      | SA0460076 | 913.6           | SA0460075 | 910.6           | 0.88%             | 340.0       | 8"            | VCP      |              | 340.0        |               |               |             |              | 5                  | E. 6th St. Alley    | N. Lake Ave.       | N. 1st Ave E.   | To be determined from contractors videos spider webs blocked view                                |
| CW           | 36          | 17    | SL0510012      | SA0510087 | 941.6           | SA0520118 | 926.46          | 4.61%             | 328.5       | 8"            | VCP      |              | 328.5        |               |               |             |              | 5                  | E 8th St. Alley     | N. 3rd Ave E.      | N. 4th Ave E.   | Lineable, Material Changes, cracks   |
| CW           | 37          | 17    | SL0670053      | SA0670056 | 1298.47         | SA0670055 | 1268.35         | 9.47%             | 317.9       | 8"            | VCP      |              | 317.9        |               |               |             |              | 5                  | N. Blackmon Ave.    | E. Upham Rd.       | E. Lucust St.   | Lineable with roots  |
| CW           | 37          | 17    | SL0670067      | SA0670069 | 1234.97         | SA0670070 | 1220.01         | 4.60%             | 325.3       | 8"            | VCP      |              | 325.3        |               |               |             |              | 0                  | E. Upham rd.        | N. Blackmon Ave.   | N. Oak Bend Dr. | Lineable, possible spot repair near SA0670070  |
| CW           | 38          | 9     | SL0750012      | SA0750010 | 1211.16         | SA0750011 | 1196.7          | 3.01%             | 480.7       | 8"            | VCP      |              | 480.7        |               |               |             |              | 14                 | W. Toledo St.       | Humes Ave.         |                 | Not Root List  |

|               |              |              |               |               |               |              |                   |
|---------------|--------------|--------------|---------------|---------------|---------------|--------------|-------------------|
| TOTALS        | CIPP 6" (FT) | CIPP 8" (FT) | CIPP 10" (FT) | CIPP 12" (FT) | 8" END SEAL   | 12" END SEAL | RECONNECT SERVICE |
|               | 300.0        | 13049        | 0             | 517           | UNDISTRIBUTED |              | 204               |
| TOTAL FOOTAGE | 13565.3      |              |               |               |               |              |                   |

1 REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tim A. Sanders

TIM SANDERS  
TYPE NAME

DATE: 04/21/2026

LIC. NO: 50401



CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. STE. 211  
DULUTH, MN 55802

2026 SANITARY SEWR CIPP LINING PROJECT

CITY PROJECT NO.: 2363

STATE AID PROJECT NO.: -

DRAWN BY: PMR

CHART-A

SHEET NO. 4 OF 39

SCHEDULE OF ESTIMATED QUANTITIES

| NOTES | LINE | SPEC. NO. | DESCRIPTION  | UNITS    | EST. QUANTITY |
|-------|------|-----------|--|----------|---------------|
|       | 1    | 2021.501  | MOBILIZATION   | LUMP SUM | 1             |
| 1     | 2    | 2503.602  | DYE TEST ACTIVE SERVICE CONNECTION                       | EACH     | 80            |
| 1     | 3    | 2503.602  | REMOTE CUT AND RECONNECT SANITARY SERVICE                | EACH     | 213           |
| 1     | 4    | 2503.602  | PIPE JOINT PRESSURE TEST - SERVICE LATERAL CONNECTION    | EACH     | 40            |
| 1     | 5    | 2503.602  | CHEMICAL GROUT POINT REPAIR - SERVICE LATERAL CONNECTION | EACH     | 40            |
| 1     | 6    | 2503.602  | PIPE JOINT PRESSURE TEST - MAINLINE PIPE JOINT           | EACH     | 15            |
| 1     | 7    | 2503.602  | CHEMICAL GROUT POINT REPAIR - MAINLINE                   | EACH     | 15            |
|       | 8    | 2503.602  | 8" CIPP LINER END SEAL                                   | EACH     | 40            |
|       | 9    | 2503.602  | 10" CIPP LINER END SEAL                                  | EACH     | 4             |
|       | 10   | 2503.602  | 12" CIPP LINER END SEAL                                  | EACH     | 6             |
| 1     | 11   | 2503.602  | SPOT REPAIR - NON-STREET AREA (DEPTH LESS THAN 10')      | EACH     | 7             |
| 1     | 12   | 2503.602  | SPOT REPAIR - NON-STREET AREA (DEPTH 10' OR MORE)        | EACH     | 7             |
| 1     | 13   | 2503.602  | SPOT REPAIR - STREET AREA (DEPTH LESS THAN 10')          | EACH     | 7             |
| 1     | 14   | 2503.602  | SPOT REPAIR - STREET AREA (DEPTH 10' OR MORE)            | EACH     | 7             |
| 1     | 15   | 2503.603  | CLEAN & TELEWISE SEWER MAIN NOT TO BE LINED              | LIN FT   | 500           |
|       | 16   | 2503.03   | 6" CIPP MAIN LINING                                      | LIN FT   | 300           |
|       | 17   | 2503.603  | 8" CIPP MAIN LINING                                      | LIN FT   | 13049         |
|       | 18   | 2503.603  | 12" CIPP MAIN LINING                                     | LIN FT   | 517           |
| 1     | 19   | 2503.603  | MANHOLE LINING - VARIOUS SIZES                           | LIN FT   | 200           |
| 1     | 20   | 2503.610  | HEAVY ROOT CLEANING                                      | HR       | 100           |
|       | 21   | 2563.601  | TRAFFIC CONTROL  | LUMP SUM | 1             |

NOTES:

1. QUANTITY IS AN ESTIMATE. EXACT QUANTITY AND LOCATION OF WORK TO BE IDENTIFIED AFTER PRE-LINING TELEVISION INSPECTION.

1 REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tim A. Sanders

TIM SANDERS  
TYPE NAME

DATE: 04/21/2026

LIC. NO: 50401



CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. STE. 211  
DULUTH, MN 55802

2026 SANITARY SEWR CIPP LINING PROJECT

CITY PROJECT NO.: 2363

STATE AID PROJECT NO.: -

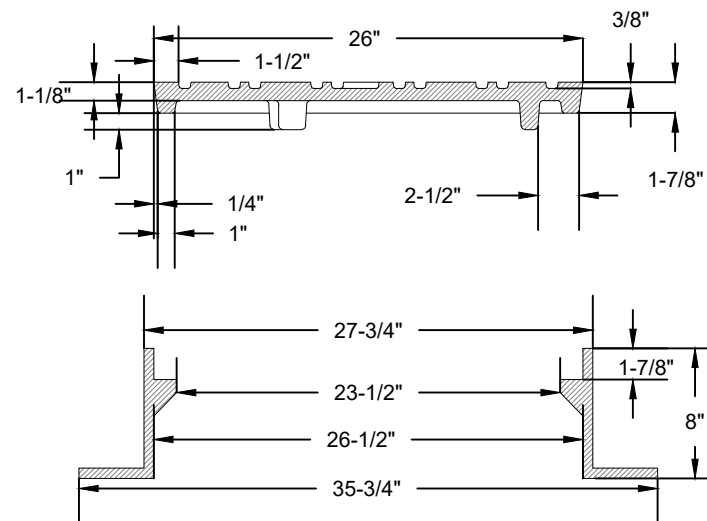
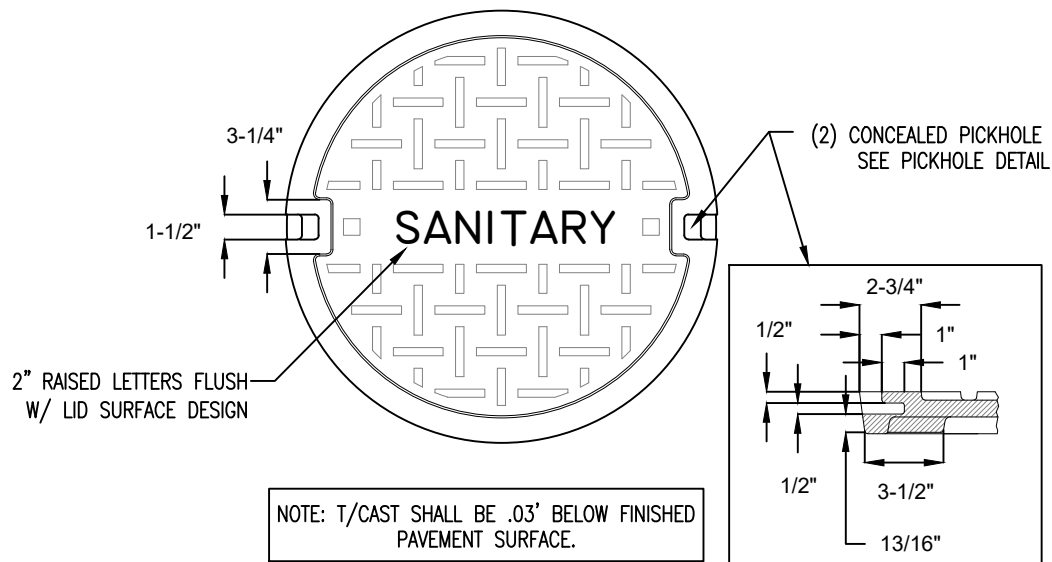
DRAWN BY: PMR

SEQ

SHEET NO. 3 OF 39

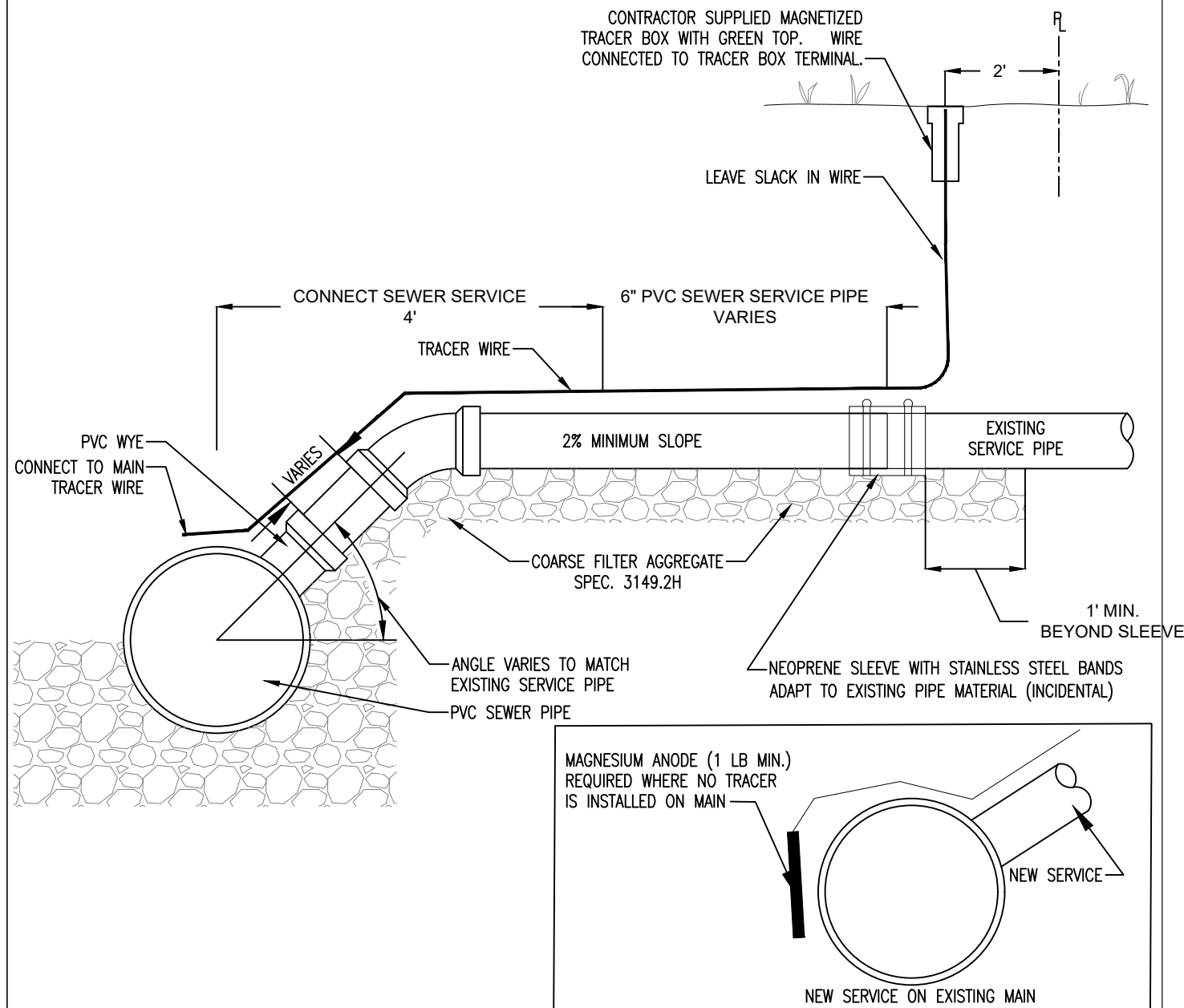
|              |                       |                               |
|--------------|-----------------------|-------------------------------|
| WGT. 298 LBS |                       | MATERIAL: GRAY IRON CLASS 35B |
| WGT. 122 LBS | TOTAL WEIGHT 420 LBS. | SPEC.: ASTM A-48-74           |

NOTE: SUITABLE FOR HS25 WHEEL LOADS



SANITARY CASTING DETAIL

SAN-1



NOTES

- BID ITEM FOR PVC WYE INCLUDES FURNISHING AND INSTALLING WYE IN SEWER MAIN.
- CONNECT SEWER SERVICE INCLUDES 6" PVC SEWER SERVICE PIPE (TO 4' FROM C/L) AND ALL FITTINGS
- 6" PVC SEWER SERVICE PIPE IS INTENDED FOR THE RECONSTRUCTION OF SEWER SERVICES (WHEN FOUND TO BE IN NEED BY THE ENGINEER) COMPLETE IN PLACE FROM 4.0' BEYOND THE C/L OF THE SEWER MAIN TO A POINT DESIGNATED BY THE ENGINEER
- FOR NEW SERVICES, PIPE TO STOP AT RIGHT OF WAY
- #12 GAUGE GREEN INSULATED COPPER TRACER WIRE SHALL BE INSTALLED WITH SANITARY SEWER MAINS AND SERVICES. TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER SERVICE OR AS DETERMINED BY THE ENGINEER
- FOR SERVICES, TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATE IN A FLUSH MOUNTED TRACER BOX WITH A GREEN CAST IRON LOCKABLE TOP.
- THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE SHOULD BE MADE WITH SPLIT BOLT CONNECTORS. WIRE NUTS SHALL NOT BE USED. A WATER-PROOF CONNECTION IS NECESSARY TO PREVENT CORROSION.

TYPICAL SEWER SERVICE CONNECTION

SAN-2

REVISED/APPROVED 02/01/2013

CITY OF DULUTH STANDARD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE

REVISED/APPROVED 02/19/2015

CITY OF DULUTH STANDARD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: *Tim A. Sanders*

TIM SANDERS  
TYPE NAME

DATE: 04/21/2026

LIC. NO: 50401



CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. STE. 211  
DULUTH, MN 55802

2026 SANITARY SEWR CIPP LINING PROJECT

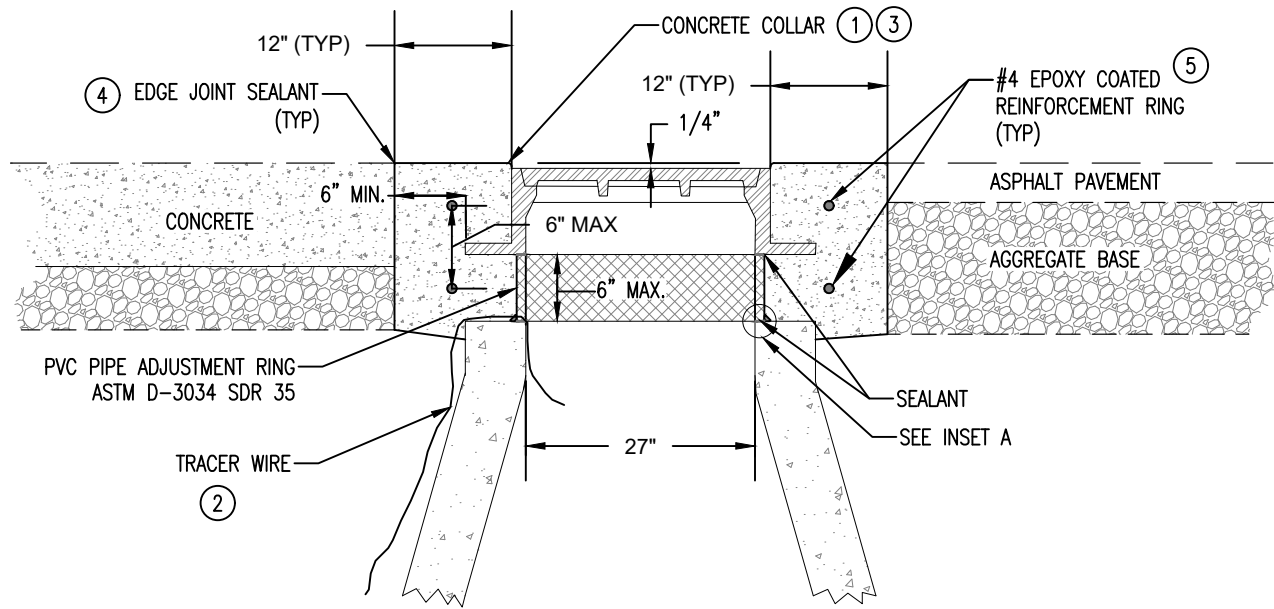
CITY PROJECT NO.: 2363

STATE AID PROJECT NO.: -

DRAWN BY: PMR

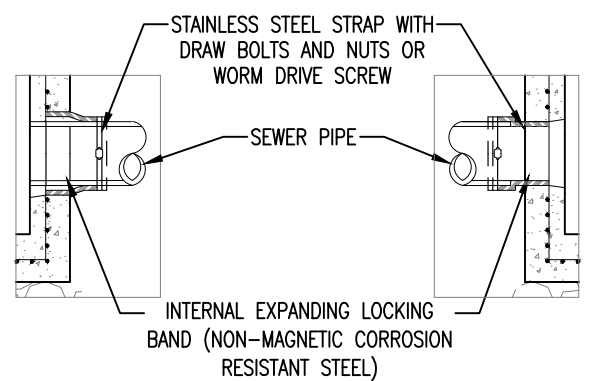
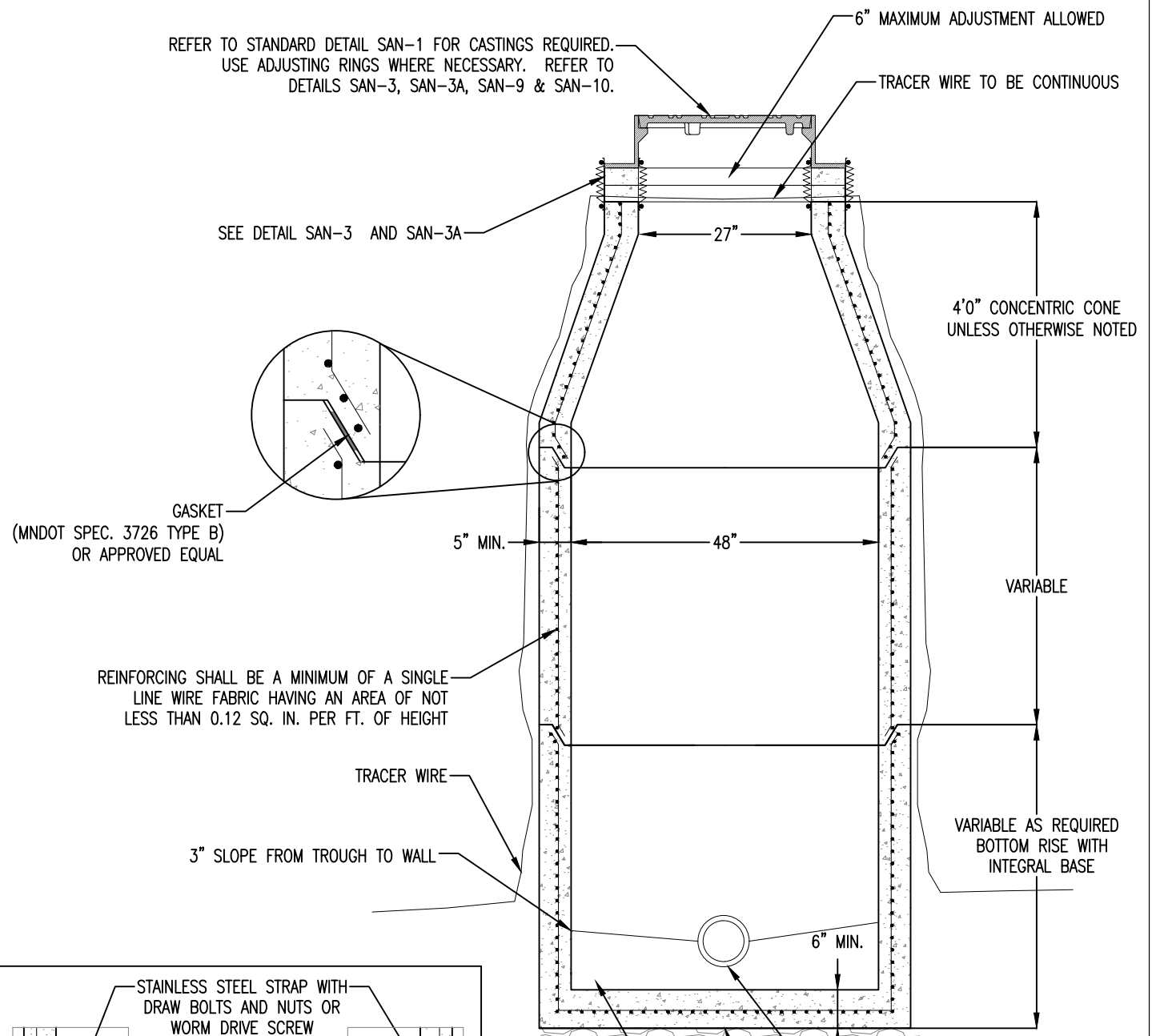
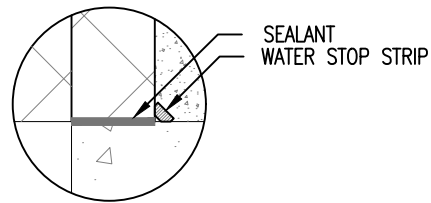
DETAILS

SHEET NO. 5 OF 39



**NOTES:**

- ① CONCRETE (MIX NO. 3G52) COLLAR TO ENCASE CASTING AND ADJUSTMENT RING.
- ② TRACER WIRE REQUIRED ON ALL SANITARY SEWER MAINS.
- ③ CONCRETE COLLAR SHALL BE CIRCULAR LAYOUT. PAVEMENT AND BASE SHALL BE CUT OUT WITH ROTATING CUTTING DEVICE
- ④ FINISH CONCRETE EDGE WITH 1/4" RADIUS. SEAL JOINT BETWEEN PAVEMENT AND COLLAR.
- ⑤ MAINTAIN 3.5" COVER ON REINFORCEMENT.



**PIPE SLEEVE DETAIL**

- 1. ALL PIPE SLEEVES MUST BE WATER TIGHT

**NOTES**

- 1. SANITARY MANHOLES SHALL NOT HAVE STEPS.
- 2. ALL SANITARY MANHOLES SHALL BE VACUUM TESTED.
- 3. ALL SANITARY MANHOLES SHALL BE WATERTIGHT. ANY OBSERVABLE WATER SEEPAGE THROUGH THE END OF THE WARRANTY PERIOD SHALL BE CAUSE TO REJECT MANHOLES.
- 4. AN INSIDE DROP IS REQUIRED PER DETAIL SAN-4 ANYTIME THE DROP IS GREATER THAN 2.0'.

CONCRETE ENCASED CASTING COLLAR FOR SANITARY MH IN ROADWAY, WALKS, & DRIVES

SAN-3A

REVISED/APPROVED 04/05/2019

CITY OF DULUTH STANDARD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE

REVISED/APPROVED 01/08/2016

PRECAST MECHANICAL JOINT SEWER MANHOLE

SAN-11

CITY OF DULUTH STANDARD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: *Tim A. Sanders*

TIM SANDERS  
TYPE NAME

DATE: 04/21/2026

LIC. NO: 50401



CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. STE. 211  
DULUTH, MN 55802

2026 SANITARY SEWR CIPP LINING PROJECT

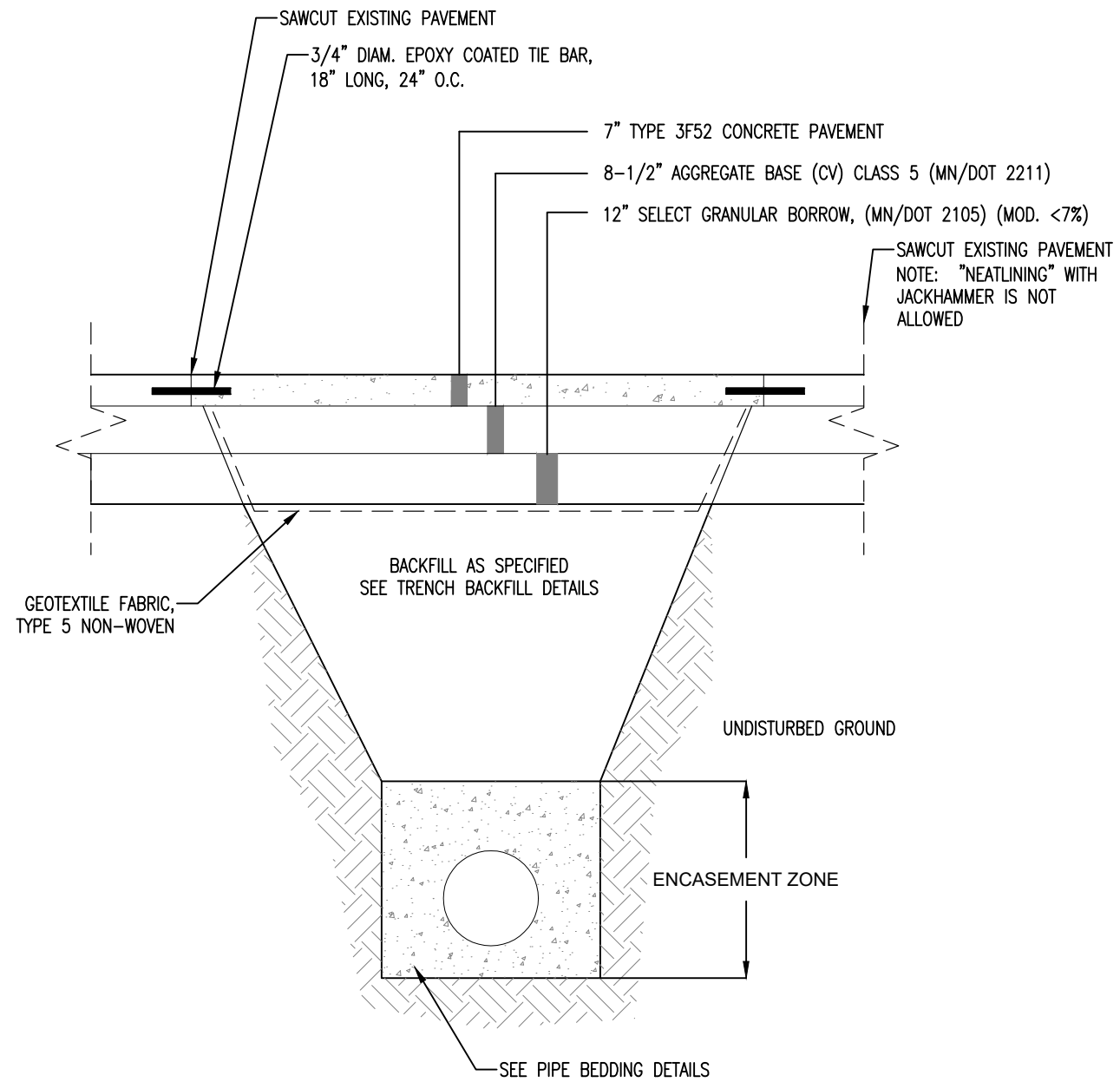
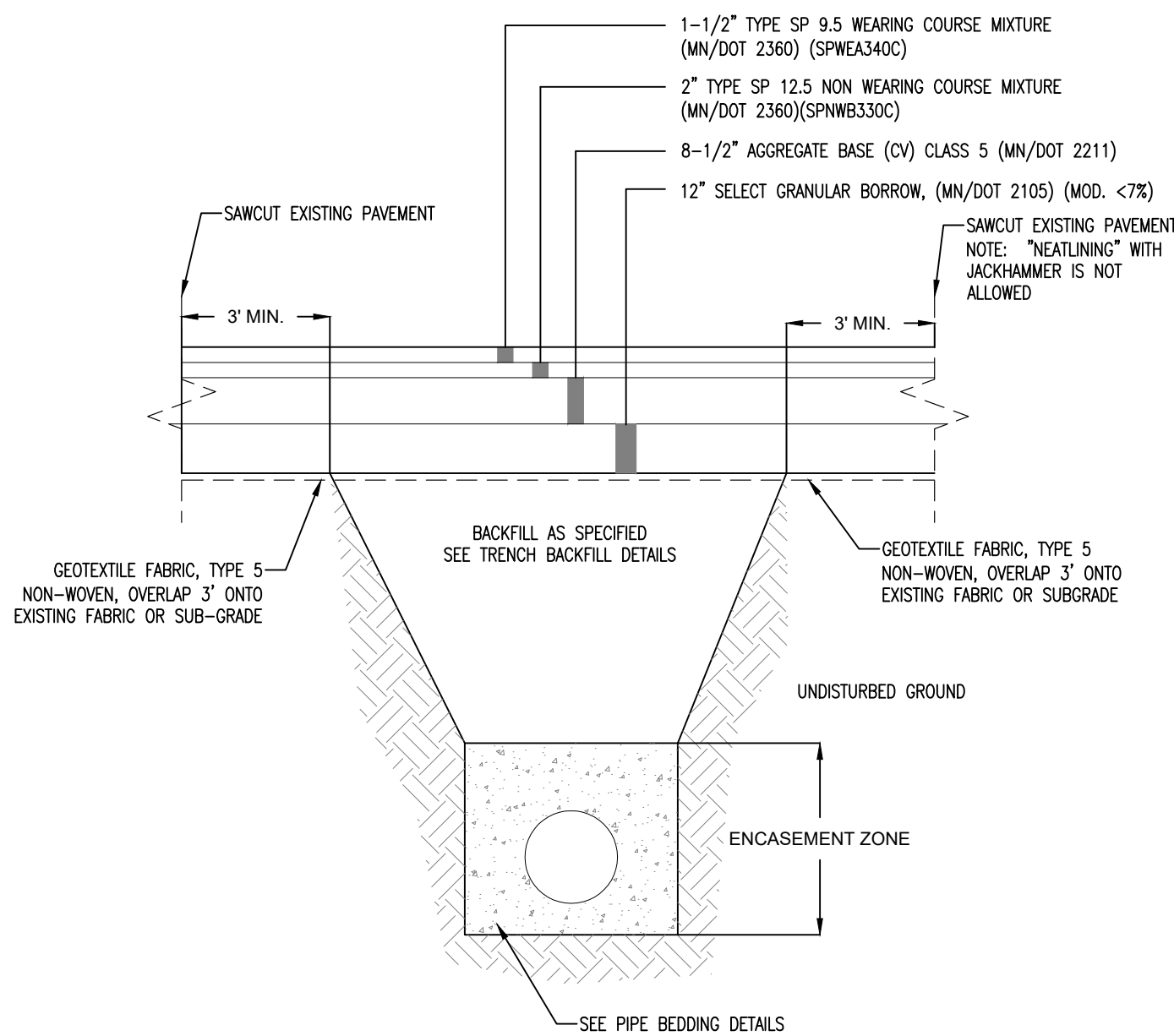
CITY PROJECT NO.: 2363

STATE AID PROJECT NO.: -

DRAWN BY: PMR

DETAILS

SHEET NO. 6 OF 39



STREET RESTORATION OVER TRENCH

STR-8

CONCRETE STREET RESTORATION OVER TRENCH

REVISED/APPROVED 04/05/2019

CITY OF DULUTH STANDARD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE

CITY OF DULUTH STANDARD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE

I HEREBY CERTIFY THAT THIS PLAN 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.

DATE: 04/21/2026



CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. STE. 211  
DULUTH, MN 55802

2026 SANITARY SEWR CIPP LINING PROJECT

DRAWN BY: PMR

SIGNATURE: *Tim A. Sanders*

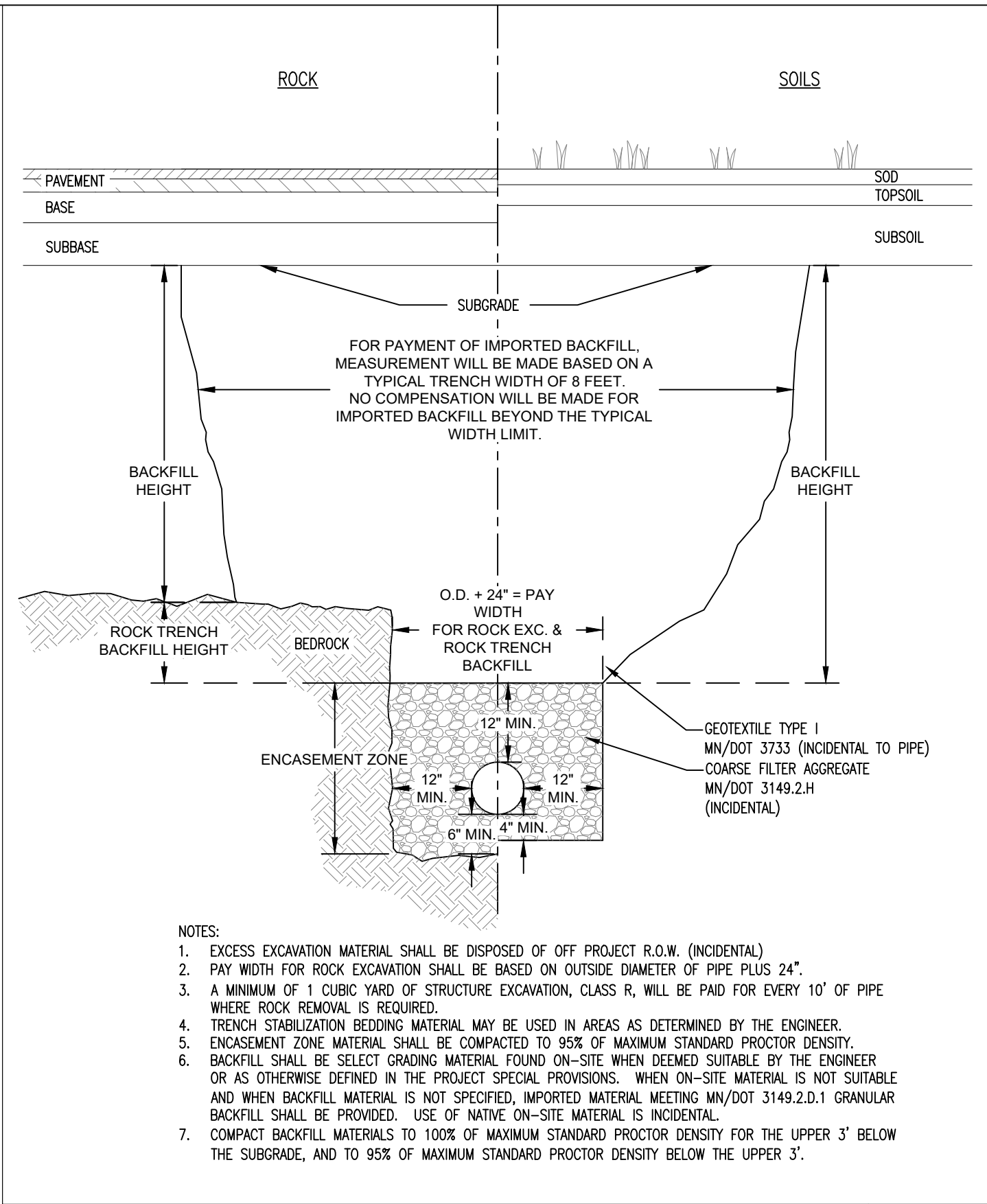
TIM SANDERS  
TYPE NAME

LIC. NO: 50401

CITY PROJECT NO.: 2363

STATE AID PROJECT NO.: -

DETAILS  
SHEET NO. 7 OF 39



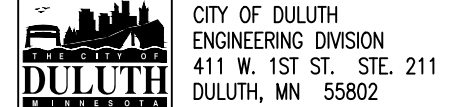
- NOTES:
1. EXCESS EXCAVATION MATERIAL SHALL BE DISPOSED OF OFF PROJECT R.O.W. (INCIDENTAL)
  2. PAY WIDTH FOR ROCK EXCAVATION SHALL BE BASED ON OUTSIDE DIAMETER OF PIPE PLUS 24".
  3. A MINIMUM OF 1 CUBIC YARD OF STRUCTURE EXCAVATION, CLASS R, WILL BE PAID FOR EVERY 10' OF PIPE WHERE ROCK REMOVAL IS REQUIRED.
  4. TRENCH STABILIZATION BEDDING MATERIAL MAY BE USED IN AREAS AS DETERMINED BY THE ENGINEER.
  5. ENCASEMENT ZONE MATERIAL SHALL BE COMPACTED TO 95% OF MAXIMUM STANDARD PROCTOR DENSITY.
  6. BACKFILL SHALL BE SELECT GRADING MATERIAL FOUND ON-SITE WHEN DEEMED SUITABLE BY THE ENGINEER OR AS OTHERWISE DEFINED IN THE PROJECT SPECIAL PROVISIONS. WHEN ON-SITE MATERIAL IS NOT SUITABLE AND WHEN BACKFILL MATERIAL IS NOT SPECIFIED, IMPORTED MATERIAL MEETING MN/DOT 3149.2.D.1 GRANULAR BACKFILL SHALL BE PROVIDED. USE OF NATIVE ON-SITE MATERIAL IS INCIDENTAL.
  7. COMPACT BACKFILL MATERIALS TO 100% OF MAXIMUM STANDARD PROCTOR DENSITY FOR THE UPPER 3' BELOW THE SUBGRADE, AND TO 95% OF MAXIMUM STANDARD PROCTOR DENSITY BELOW THE UPPER 3'.

|  |   |          |
|--|---|----------|
| PVC AND CORRUGATED POLYETHYLENE SEWER PIPE BEDDING |   | EX-3     |
| REVISED/APPROVED 04/05/2019                        | CITY OF DULUTH STANDARD DETAIL<br>DEPT. OF PUBLIC WORKS AND UTILITIES | NO SCALE |

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tim A. Sanders      TIM SANDERS  
TYPE NAME

DATE: 04/21/2026  
LIC. NO: 50401



2026 SANITARY SEWR CIPP LINING PROJECT

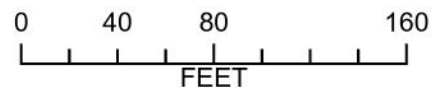
CITY PROJECT NO.: 2363      STATE AID PROJECT NO.: -

DRAWN BY: PMR

DETAILS

SHEET NO. 8 OF 39

# OVERVIEW MAP

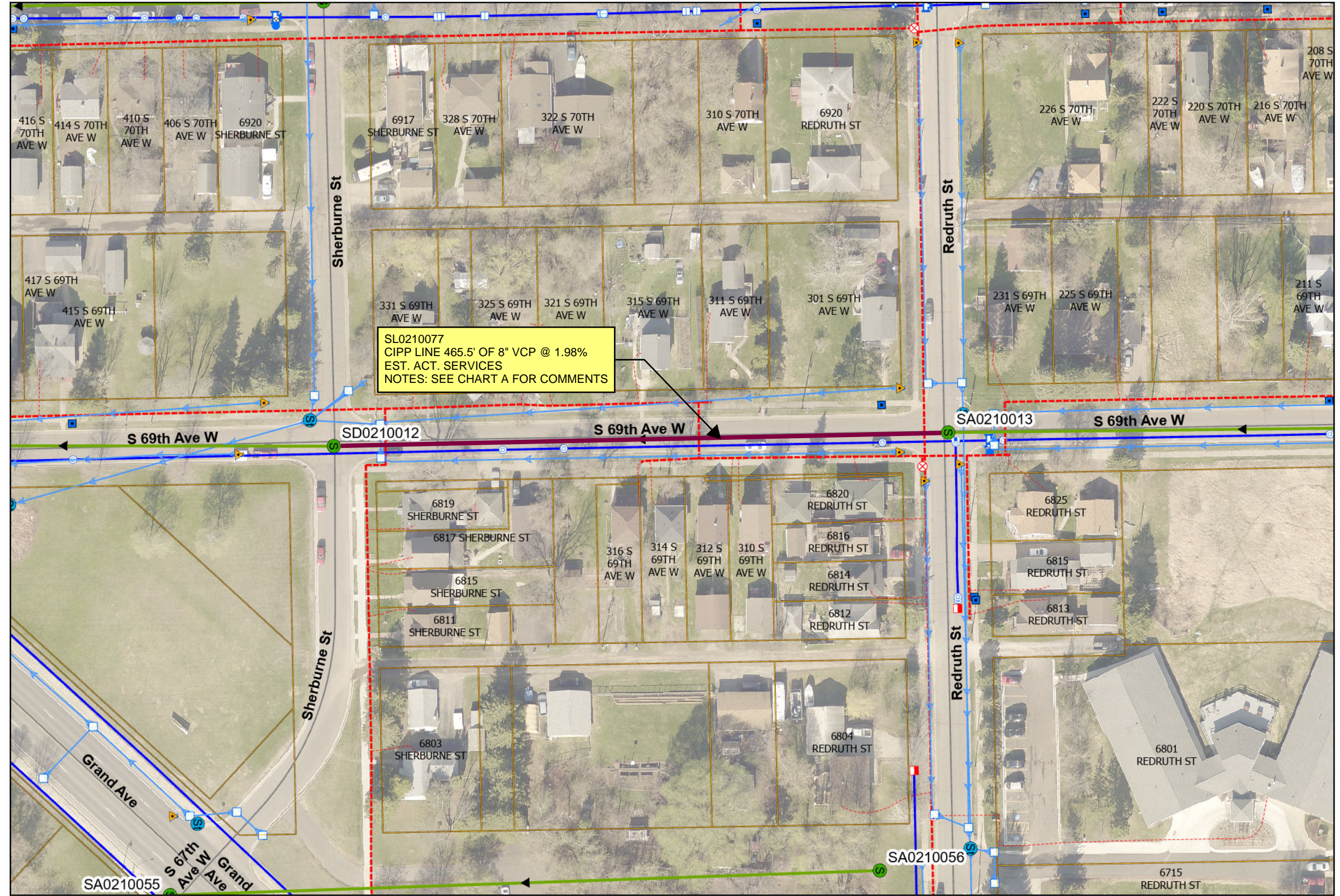


## LEGEND

- Parcel W/Address
- SANITARY MANHOLE
- STORM MANHOLE
- ▶ SANITARY MAIN
- STORM CATCH BASIN
- ▶ STORM MAIN
- - - GAS MAIN
- WATER MAIN

▲ REVISION 06/18/2026

# PLAN



I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tom A. Sanders LIC. NO: 50401 DATE: 04/21/2026

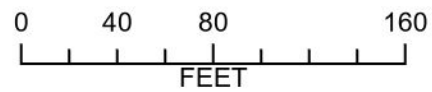


CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. RM. 240  
DULUTH, MN 55802

**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
CITY PROJECT NO.: 2362

DRAWN BY: PMR  
PAGE 9

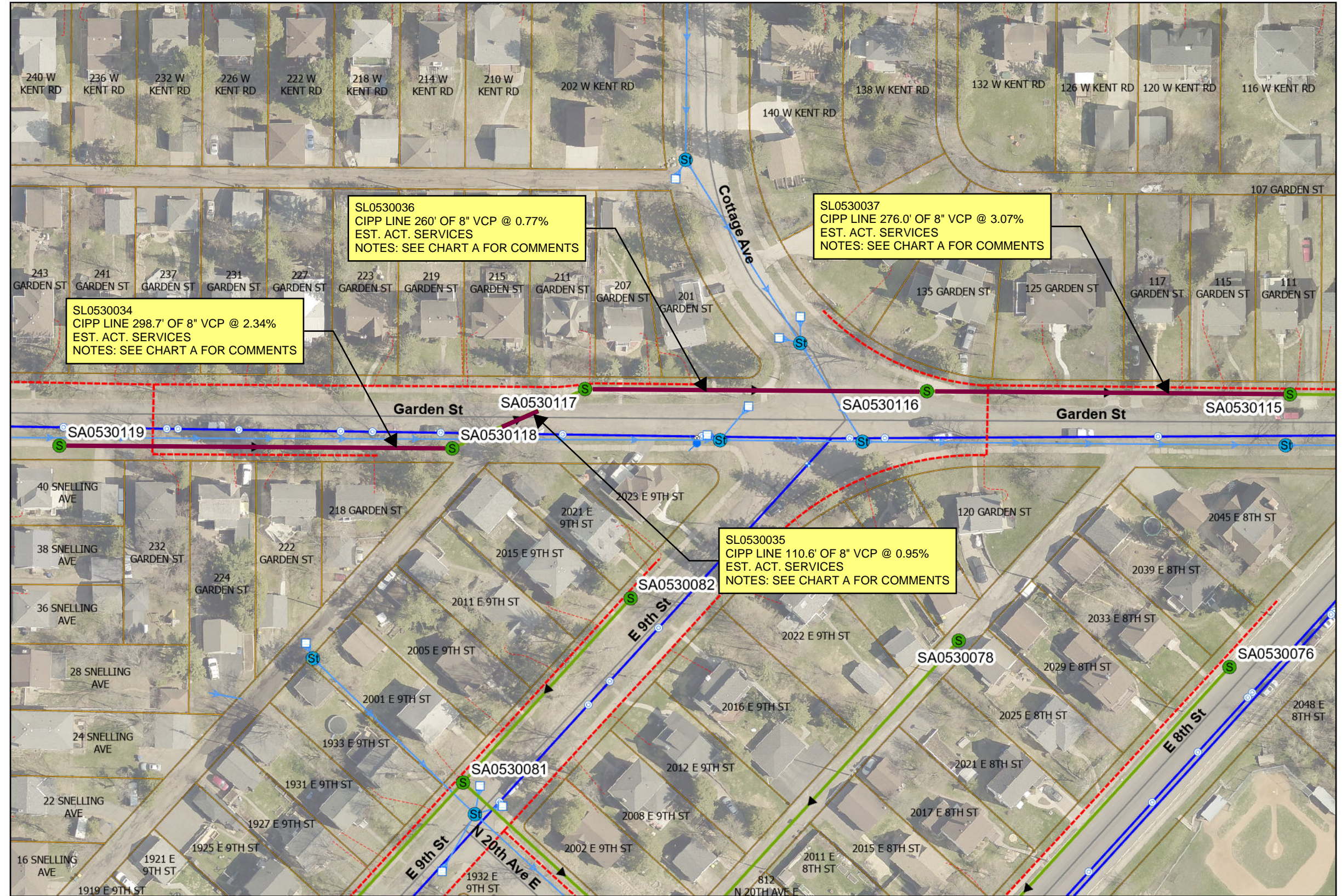
# OVERVIEW MAP



## LEGEND

- Parcel W/Address
- S SANITARY MANHOLE
- S STORM MANHOLE
- ▶ SANITARY MAIN
- STORM CATCH BASIN
- ▶ STORM MAIN
- - - GAS MAIN
- ▶ WATER MAIN

# PLAN



▲ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tom A. Sanderson LIC. NO: 50401 DATE: 04/21/2026

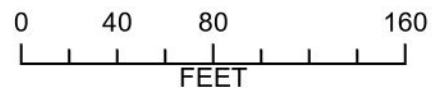


CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. RM. 240  
DULUTH, MN 55802

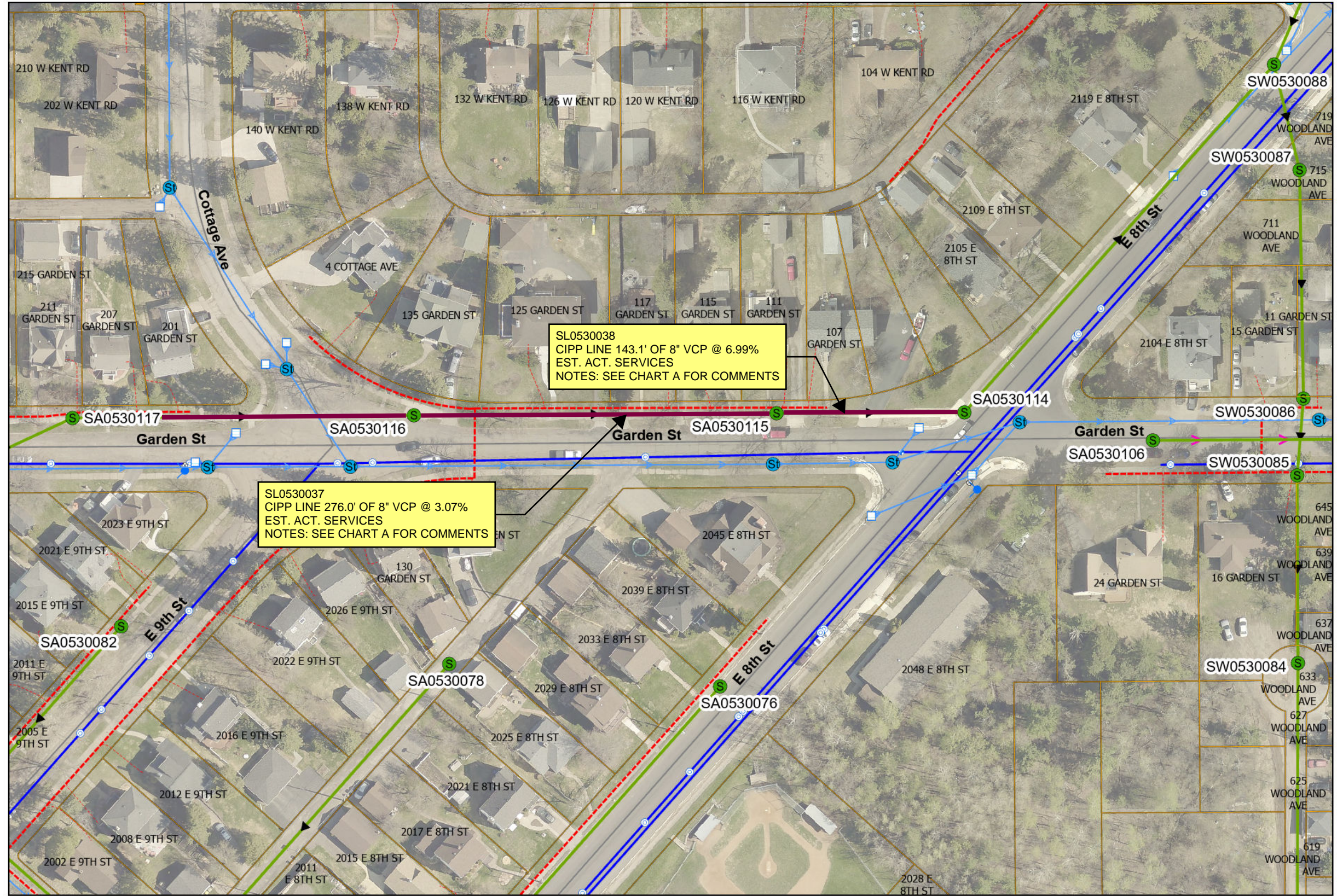
**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
**CITY PROJECT NO.: 2362**

DRAWN BY: PMR  
PAGE 10

# OVERVIEW MAP



# PLAN



## LEGEND

- Parcel W/Address
- S SANITARY MANHOLE
- S STORM MANHOLE
- ▶ SANITARY MAIN
- STORM CATCH BASIN
- ▶ STORM MAIN
- - - GAS MAIN
- ▶ WATER MAIN

▲ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tom A. Sanderson LIC. NO: 50401 DATE: 04/21/2026



CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. RM. 240  
DULUTH, MN 55802

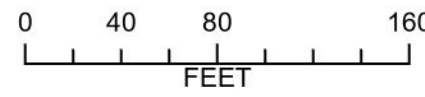
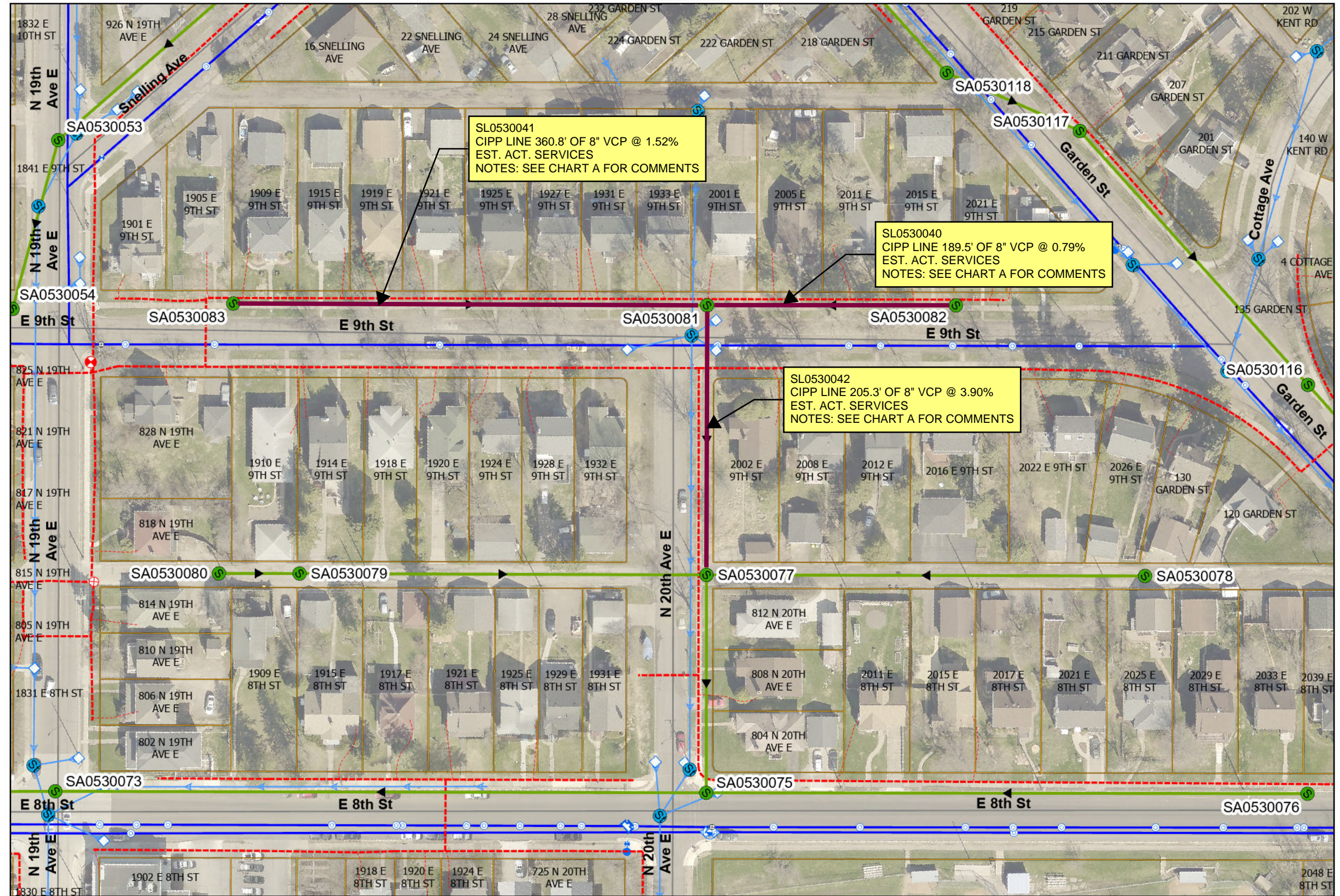
**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
**CITY PROJECT NO.: 2362**

DRAWN BY: PMR  
PAGE 11

# OVERVIEW MAP



# PLAN



## LEGEND

- Parcel W/Address
- SANITARY MANHOLE
- STORM MANHOLE
- SANITARY MAIN
- STORM CATCH BASIN
- STORM MAIN
- - - GAS MAIN
- WATER MAIN

▲ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tom A. Sanders LIC. NO: 50401 DATE: 04/21/2026

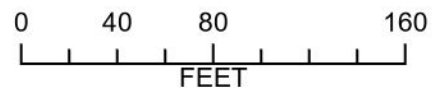


CITY OF DULUTH  
 ENGINEERING DIVISION  
 411 W. 1ST ST. RM. 240  
 DULUTH, MN 55802

**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
 CITY PROJECT NO.: 2362

DRAWN BY: PMR  
 PAGE 12

# OVERVIEW MAP



## LEGEND

- Parcel W/Address
- S SANITARY MANHOLE
- S STORM MANHOLE
- ▶ SANITARY MAIN
- STORM CATCH BASIN
- ▶ STORM MAIN
- - - GAS MAIN
- ▶ WATER MAIN

▲ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tom A. Sanderson LIC. NO.: 50401 DATE: 04/21/2026

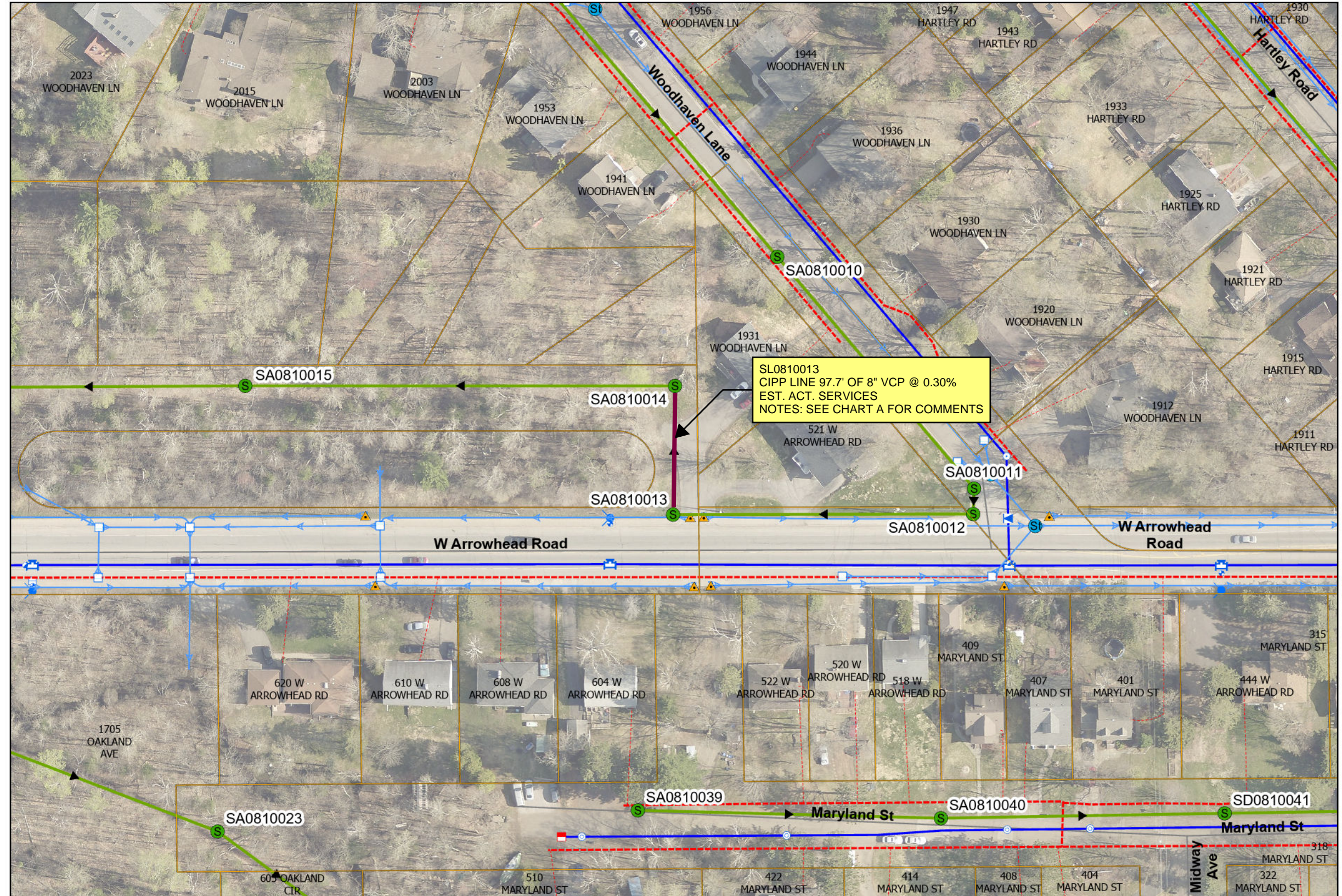


CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. RM. 240  
DULUTH, MN 55802

**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
**CITY PROJECT NO.: 2362**

DRAWN BY: PMR  
PAGE 13

# PLAN



# OVERVIEW MAP

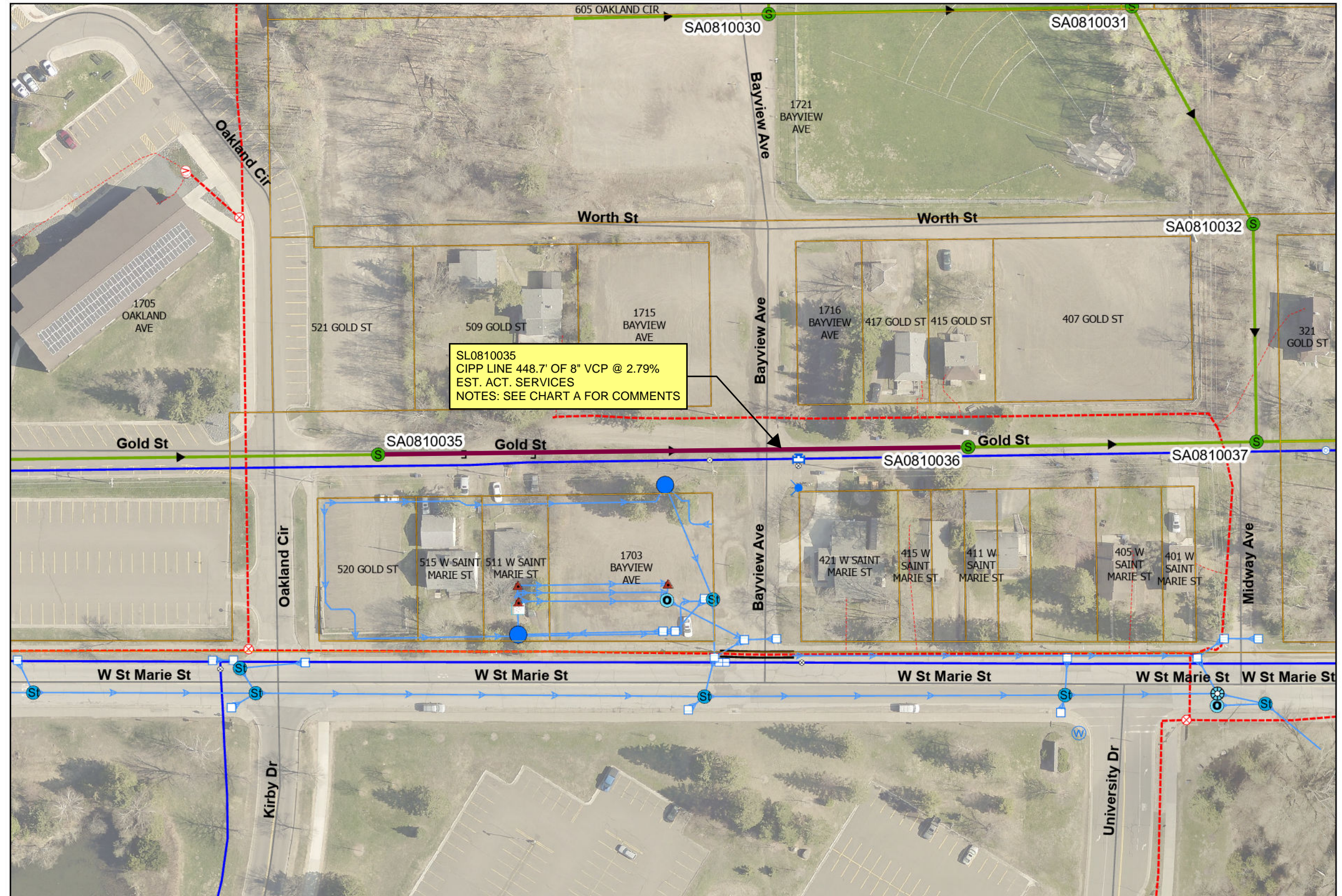


## LEGEND

- Parcel W/Address
- S SANITARY MANHOLE
- S STORM MANHOLE
- ▶ SANITARY MAIN
- STORM CATCH BASIN
- ▶ STORM MAIN
- - - GAS MAIN
- ▶ WATER MAIN

▲ REVISION 06/18/2026

# PLAN



I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tom A. Sanders LIC. NO: 50401 DATE: 04/21/2026

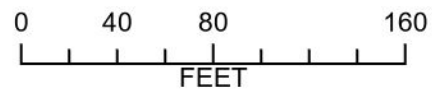


CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. RM. 240  
DULUTH, MN 55802

**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
CITY PROJECT NO.: 2362

DRAWN BY: PMR  
PAGE 14

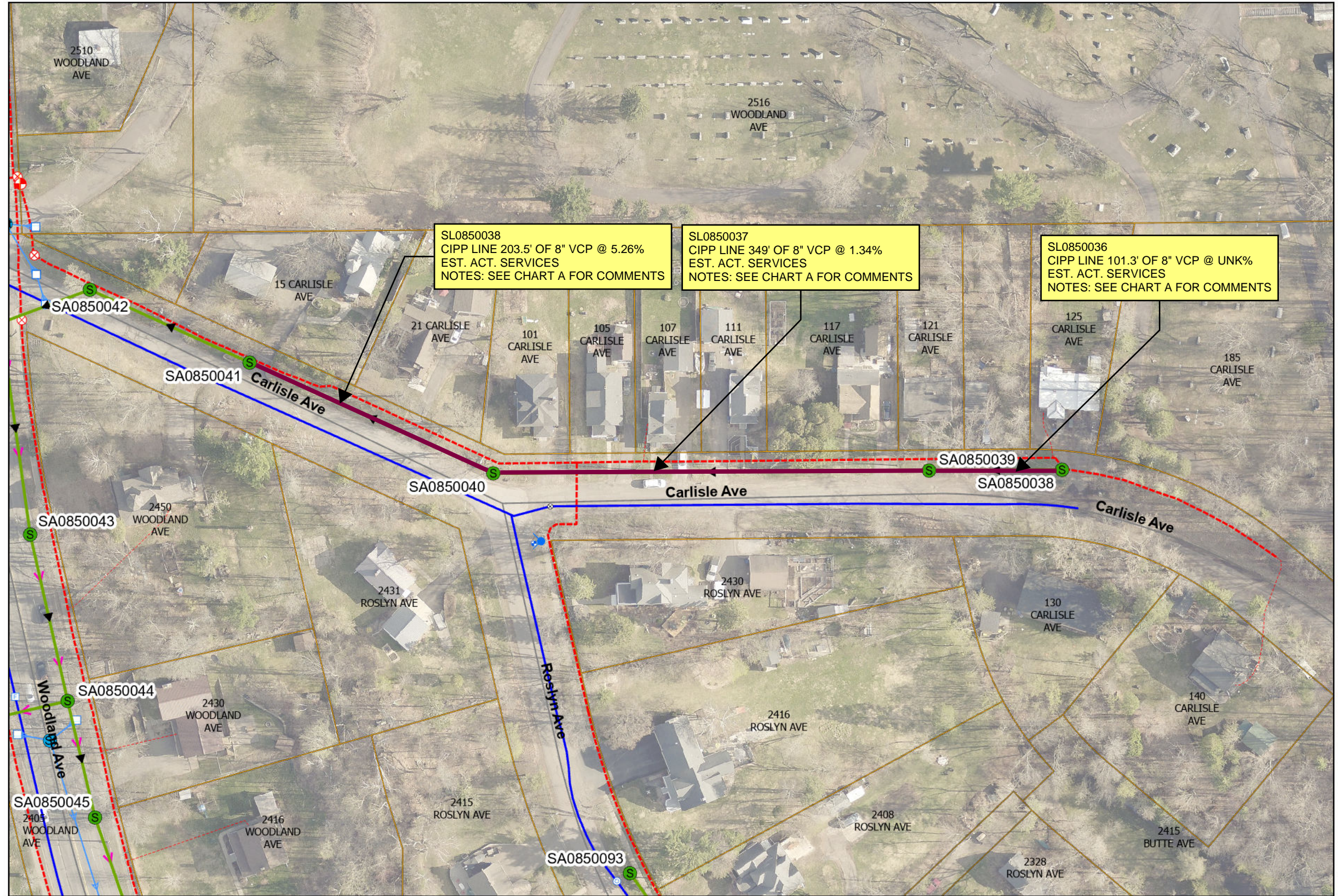
# OVERVIEW MAP



## LEGEND

- Parcel W/Address
- S SANITARY MANHOLE
- S STORM MANHOLE
- ▶ SANITARY MAIN
- STORM CATCH BASIN
- ▶ STORM MAIN
- - - GAS MAIN
- ▶ WATER MAIN

# PLAN



SL0850038  
CIPP LINE 203.5' OF 8" VCP @ 5.26%  
EST. ACT. SERVICES  
NOTES: SEE CHART A FOR COMMENTS

SL0850037  
CIPP LINE 349' OF 8" VCP @ 1.34%  
EST. ACT. SERVICES  
NOTES: SEE CHART A FOR COMMENTS

SL0850036  
CIPP LINE 101.3' OF 8" VCP @ UNK%  
EST. ACT. SERVICES  
NOTES: SEE CHART A FOR COMMENTS

▲ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tom A. Sanders LIC. NO.: 50401 DATE: 04/21/2026

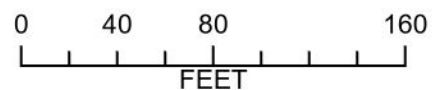


CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. RM. 240  
DULUTH, MN 55802

**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
**CITY PROJECT NO.: 2362**

DRAWN BY: PMR  
PAGE 15

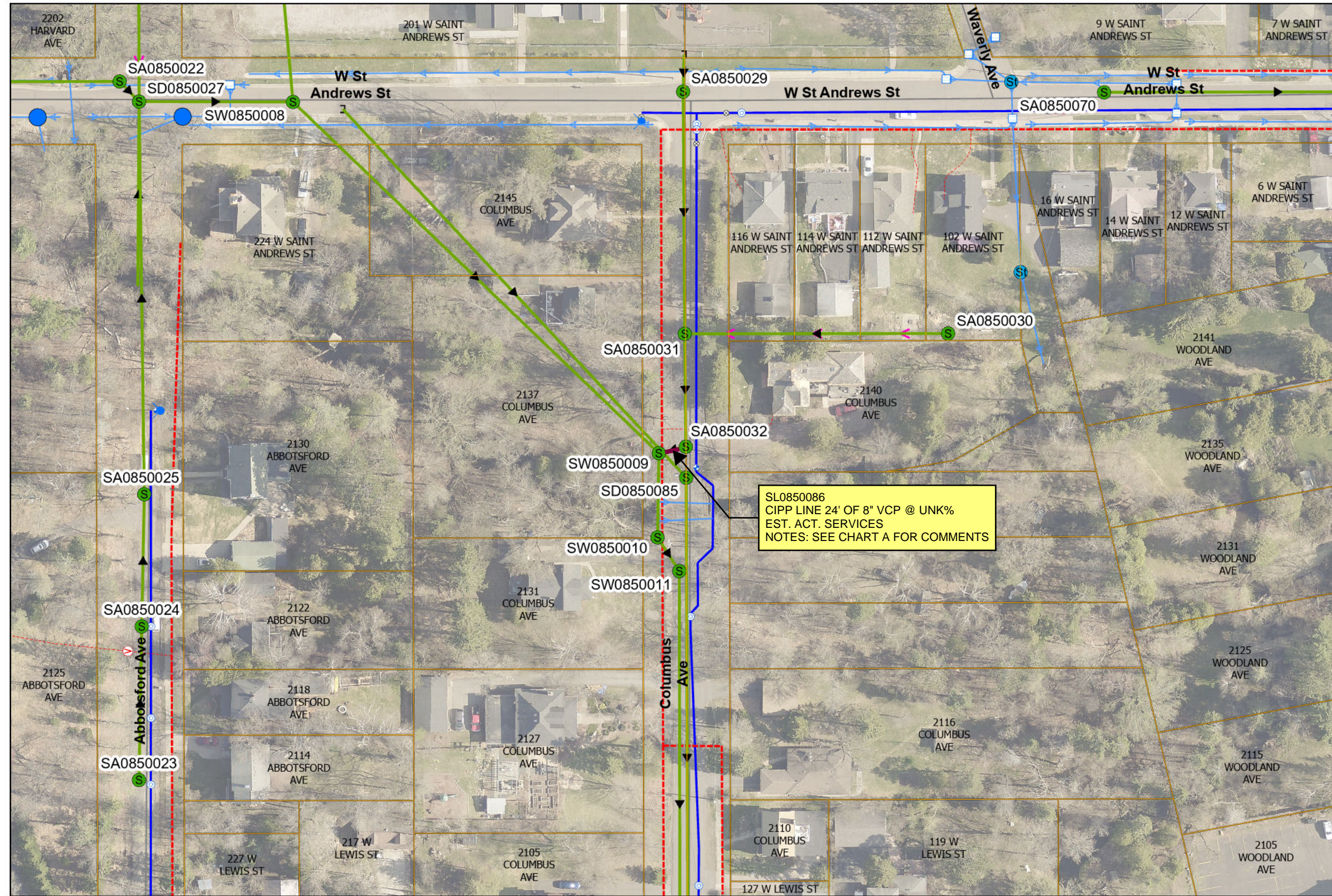
# OVERVIEW MAP



## LEGEND

- Parcel W/Address
- S SANITARY MANHOLE
- S STORM MANHOLE
- ▶ SANITARY MAIN
- STORM CATCH BASIN
- ▶ STORM MAIN
- - - GAS MAIN
- ▶ WATER MAIN

# PLAN



▲ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tom A. Sanders LIC. NO.: 50401 DATE: 04/21/2026

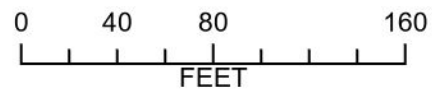


CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. RM. 240  
DULUTH, MN 55802

**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
**CITY PROJECT NO.: 2362**

DRAWN BY: PMR  
PAGE 16

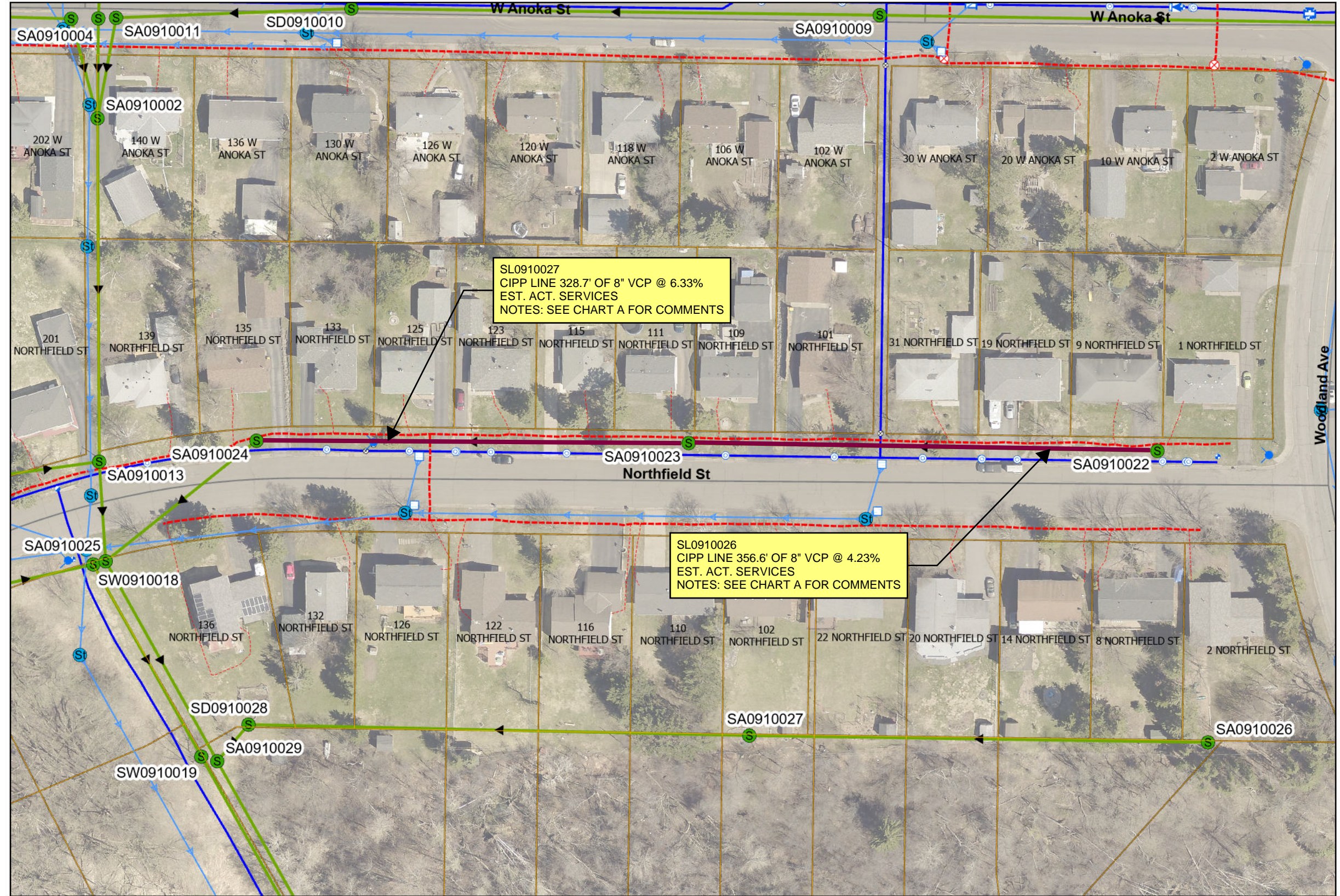
# OVERVIEW MAP



## LEGEND

- Parcel W/Address
- S SANITARY MANHOLE
- St STORM MANHOLE
- ▶ SANITARY MAIN
- STORM CATCH BASIN
- ▶ STORM MAIN
- - - GAS MAIN
- ▶ WATER MAIN

# PLAN



▲ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tom A. Sanderson LIC. NO: 50401 DATE: 04/21/2026

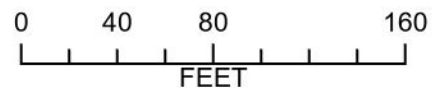
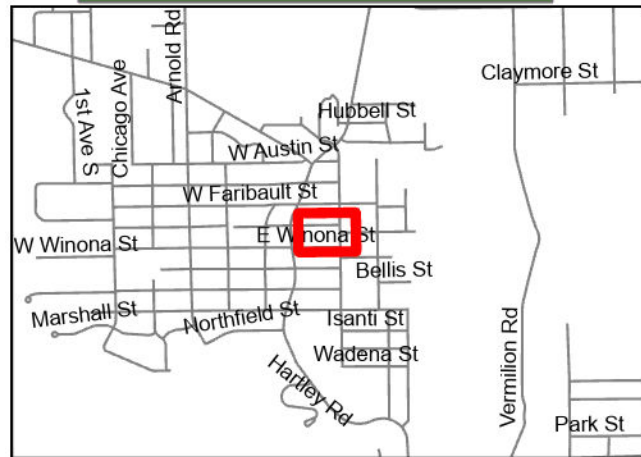


CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. RM. 240  
DULUTH, MN 55802

**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
**CITY PROJECT NO.: 2362**

DRAWN BY: PMR  
PAGE 17

# OVERVIEW MAP

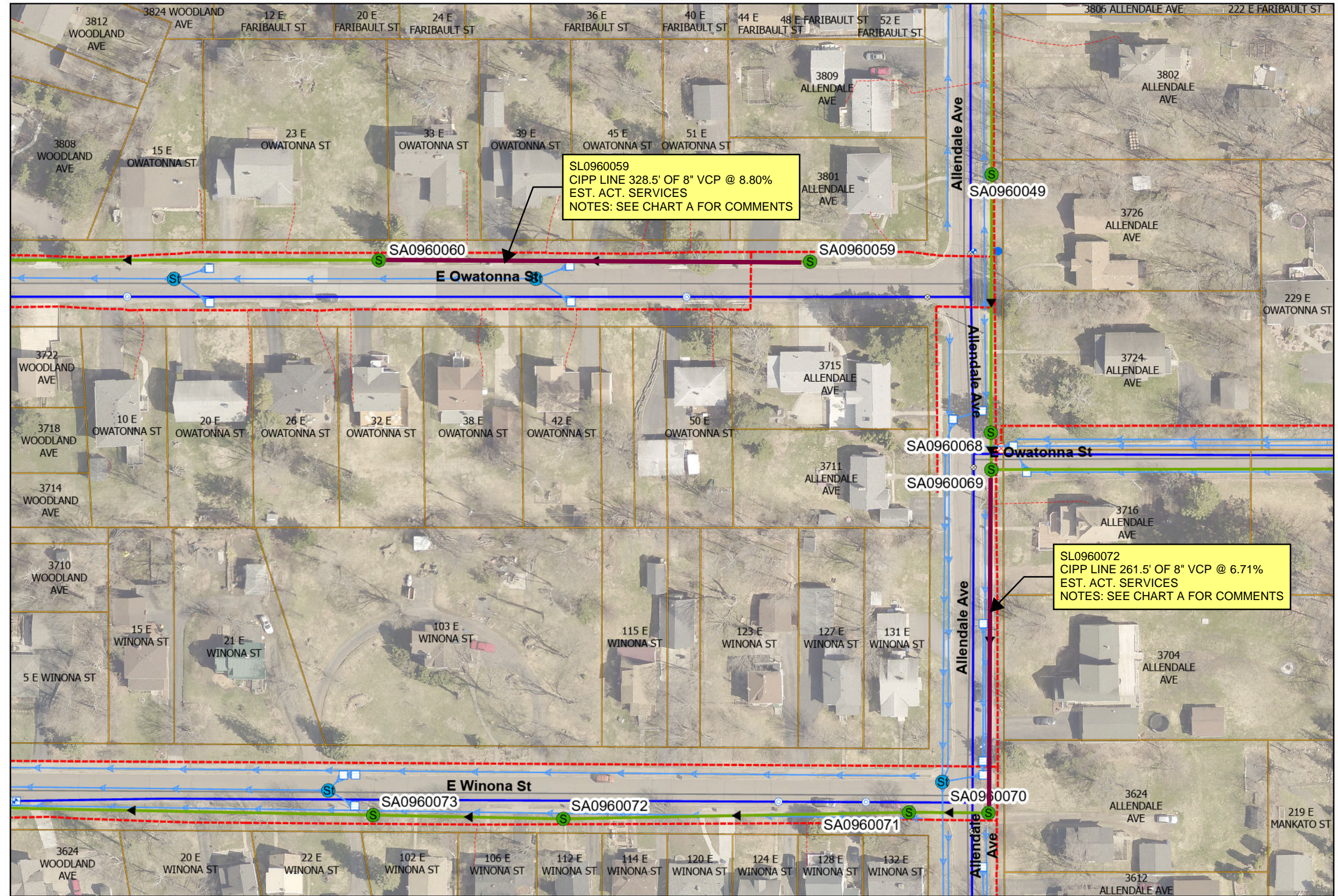


## LEGEND

- Parcel W/Address
- S SANITARY MANHOLE
- S STORM MANHOLE
- ▶ SANITARY MAIN
- STORM CATCH BASIN
- ▶ STORM MAIN
- - - GAS MAIN
- ▶ WATER MAIN

▲ REVISION 06/18/2026

# PLAN



I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tom A. Sanderson LIC. NO: 50401 DATE: 04/21/2026

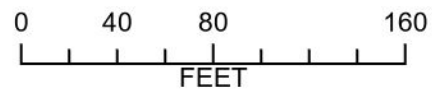


CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. RM. 240  
DULUTH, MN 55802

**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
CITY PROJECT NO.: 2362

DRAWN BY: PMR  
PAGE 18

# OVERVIEW MAP

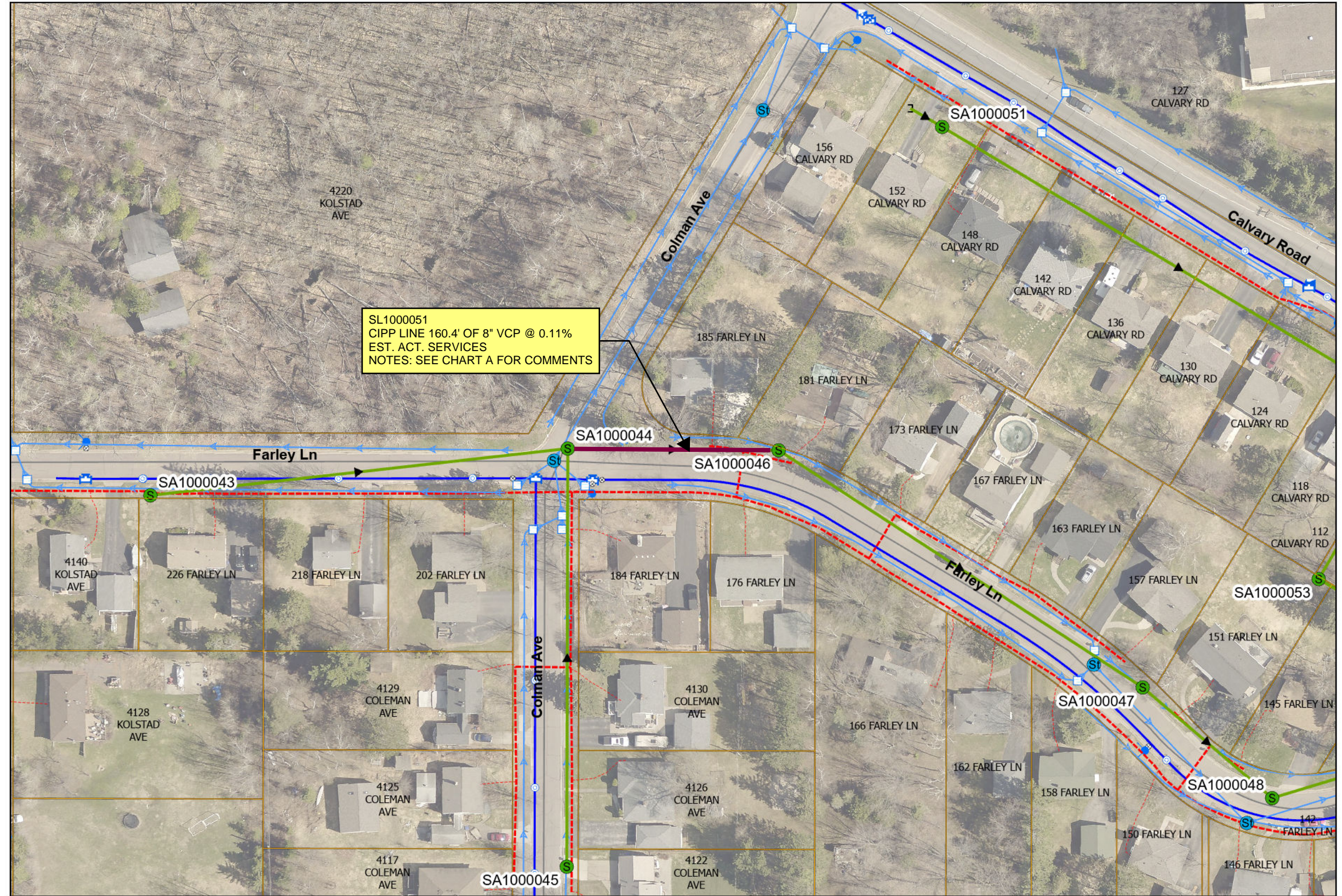


## LEGEND

- Parcel W/Address
- S SANITARY MANHOLE
- S STORM MANHOLE
- ▶ SANITARY MAIN
- STORM CATCH BASIN
- ▶ STORM MAIN
- - - GAS MAIN
- ▶ WATER MAIN

▲ REVISION 06/18/2026

# PLAN



SL1000051  
CIPP LINE 160.4' OF 8" VCP @ 0.11%  
EST. ACT. SERVICES  
NOTES: SEE CHART A FOR COMMENTS

I HEREBY CERTIFY THAT THIS PLAN 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.  
SIGNATURE: Tom A. Sanderson LIC. NO: 50401 DATE: 04/21/2026

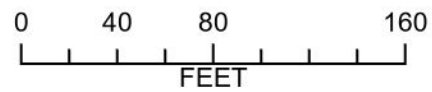


CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. RM. 240  
DULUTH, MN 55802

**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
**CITY PROJECT NO.: 2362**

DRAWN BY: PMR  
PAGE 19

# OVERVIEW MAP

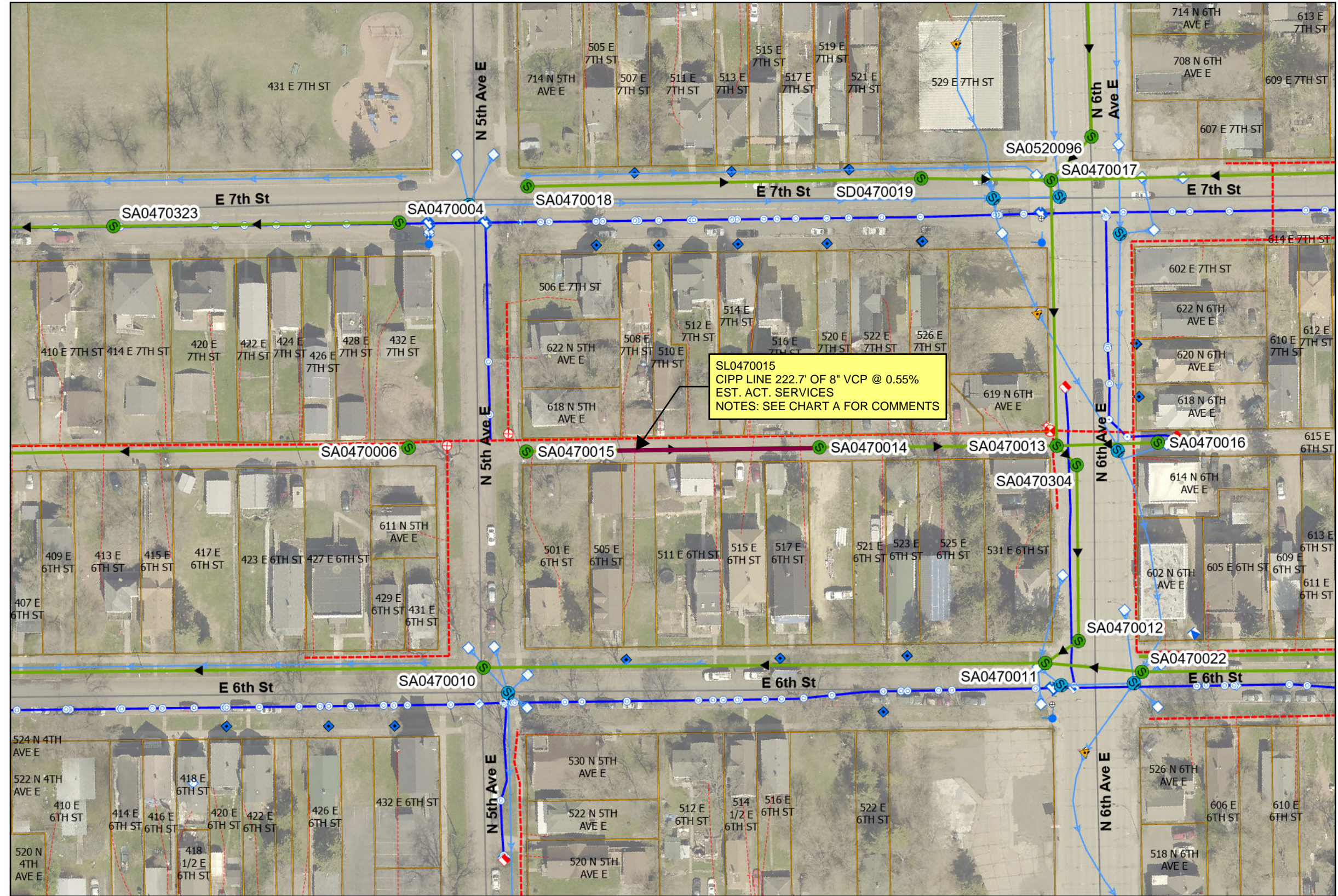


## LEGEND

- Parcel W/Address
- S SANITARY MANHOLE
- S STORM MANHOLE
- ▶ SANITARY MAIN
- STORM CATCH BASIN
- ▶ STORM MAIN
- - - GAS MAIN
- WATER MAIN

▲ REVISION 06/18/2026

# PLAN



I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tom A. Sanderson LIC. NO: 50401 DATE: 04/21/2026

 CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. RM. 240  
DULUTH, MN 55802

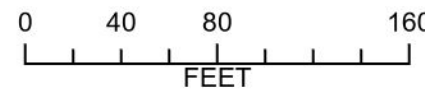
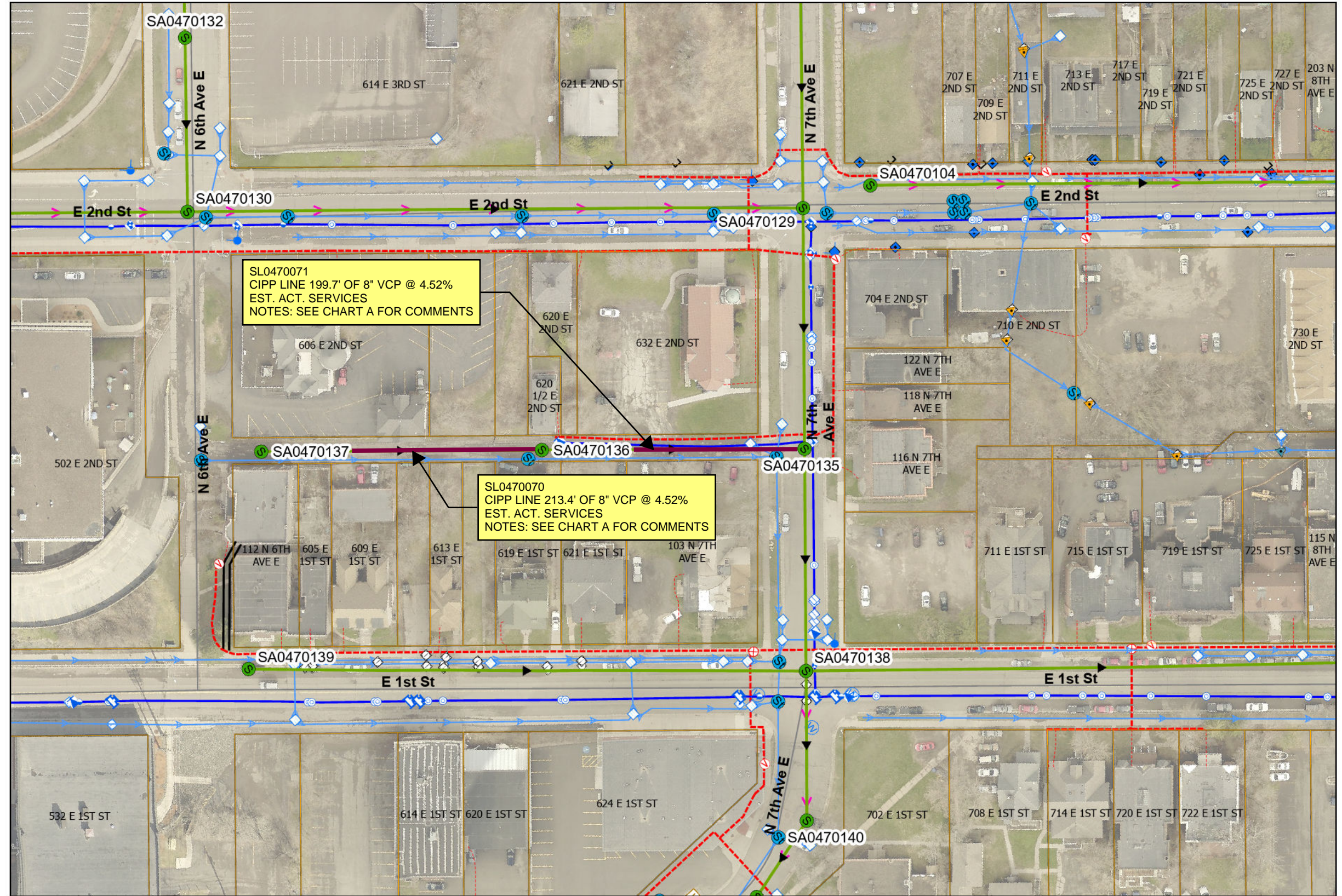
**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
CITY PROJECT NO.: 2362

DRAWN BY: PMR  
PAGE 20

# OVERVIEW MAP



# PLAN



- LEGEND**
- Parcel W/Address
  - S SANITARY MANHOLE
  - S STORM MANHOLE
  - ▶ SANITARY MAIN
  - STORM CATCH BASIN
  - ▶ STORM MAIN
  - - - GAS MAIN
  - WATER MAIN

▲ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tom A. Sanders LIC. NO: 50401 DATE: 04/21/2026



CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. RM. 240  
DULUTH, MN 55802

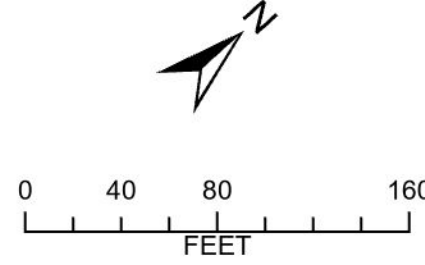
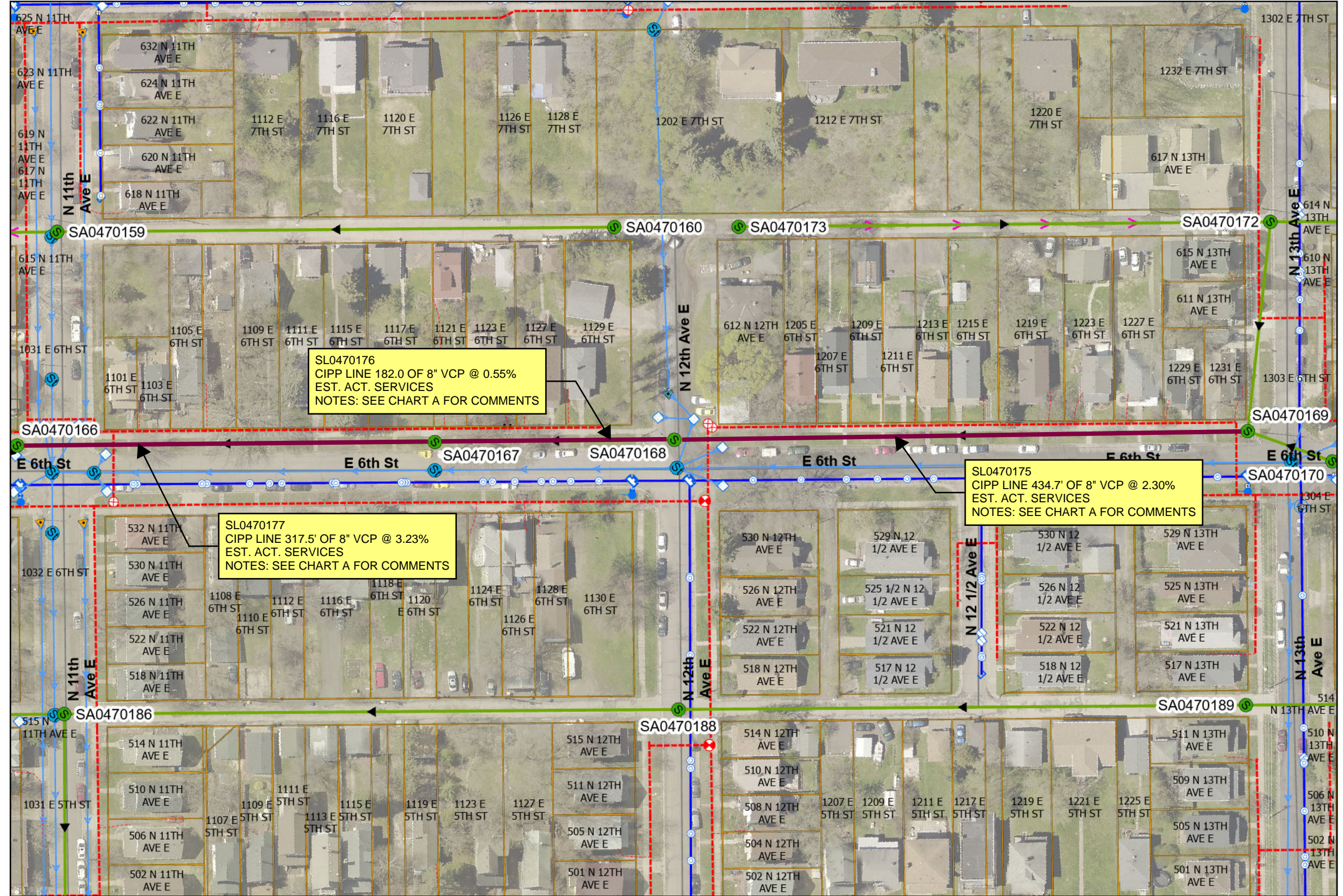
**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
CITY PROJECT NO.: 2362

DRAWN BY: PMR  
PAGE 21

# OVERVIEW MAP



# PLAN



## LEGEND

- Parcel W/Address
- SANITARY MANHOLE
- STORM MANHOLE
- SANITARY MAIN
- STORM CATCH BASIN
- STORM MAIN
- - - GAS MAIN
- WATER MAIN

▲ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.  
 SIGNATURE: Tom A. Sanderson LIC. NO: 50401 DATE: 04/21/2026



CITY OF DULUTH  
 ENGINEERING DIVISION  
 411 W. 1ST ST. RM. 240  
 DULUTH, MN 55802

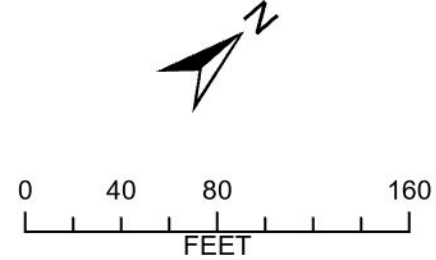
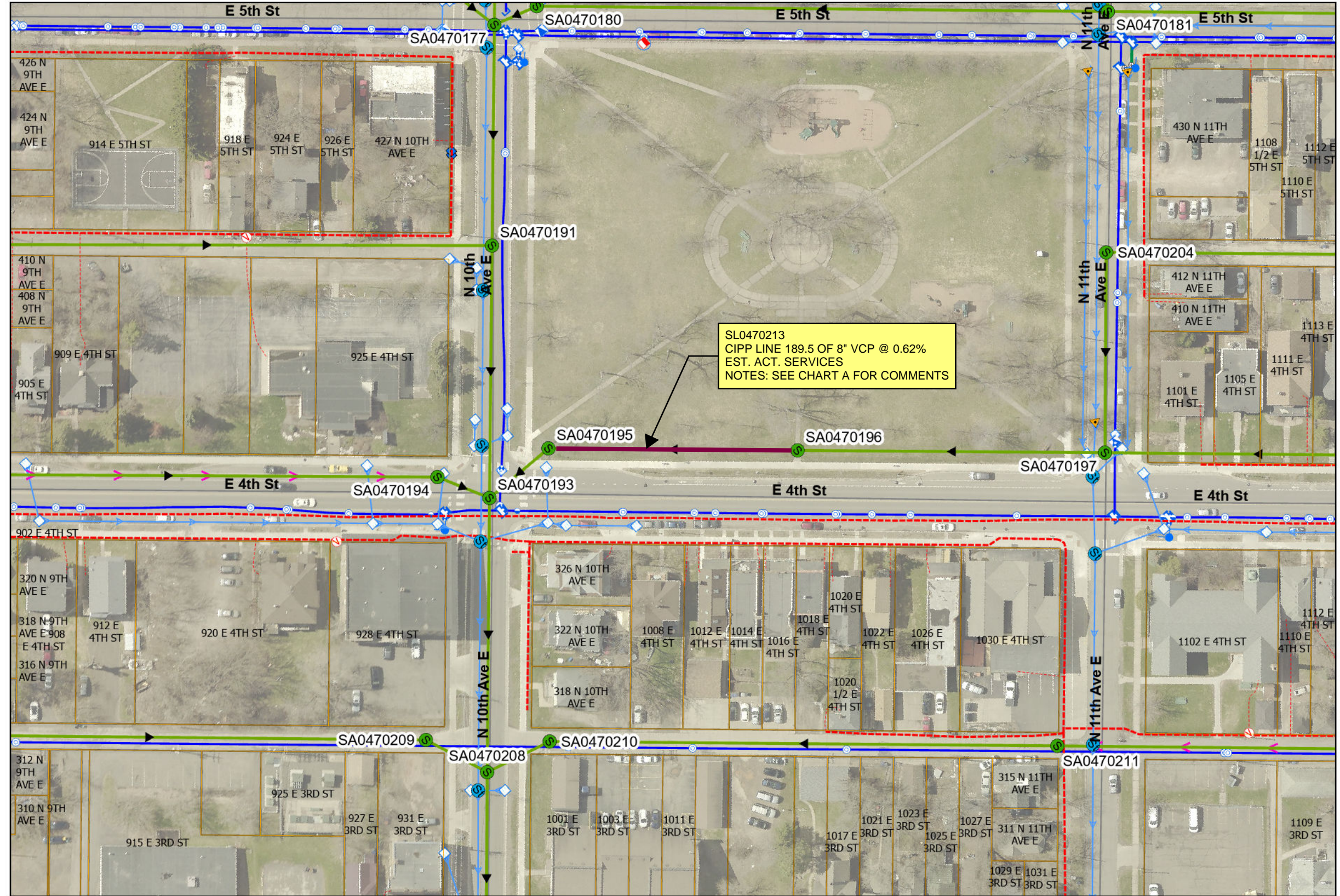
**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
**CITY PROJECT NO.: 2362**

DRAWN BY: PMR  
 PAGE 22

# OVERVIEW MAP



# PLAN



- LEGEND**
- Parcel W/Address
  - SANITARY MANHOLE
  - STORM MANHOLE
  - ▶ SANITARY MAIN
  - STORM CATCH BASIN
  - ▶ STORM MAIN
  - - - GAS MAIN
  - WATER MAIN

▲ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.

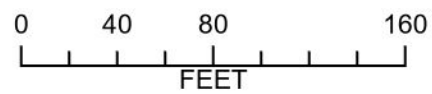
SIGNATURE: Tom A. Sanders LIC. NO: 50401 DATE: 04/21/2026

 **CITY OF DULUTH**  
 ENGINEERING DIVISION  
 411 W. 1ST ST. RM. 240  
 DULUTH, MN 55802

**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
 CITY PROJECT NO.: 2362

DRAWN BY: PMR  
 PAGE 23

# OVERVIEW MAP

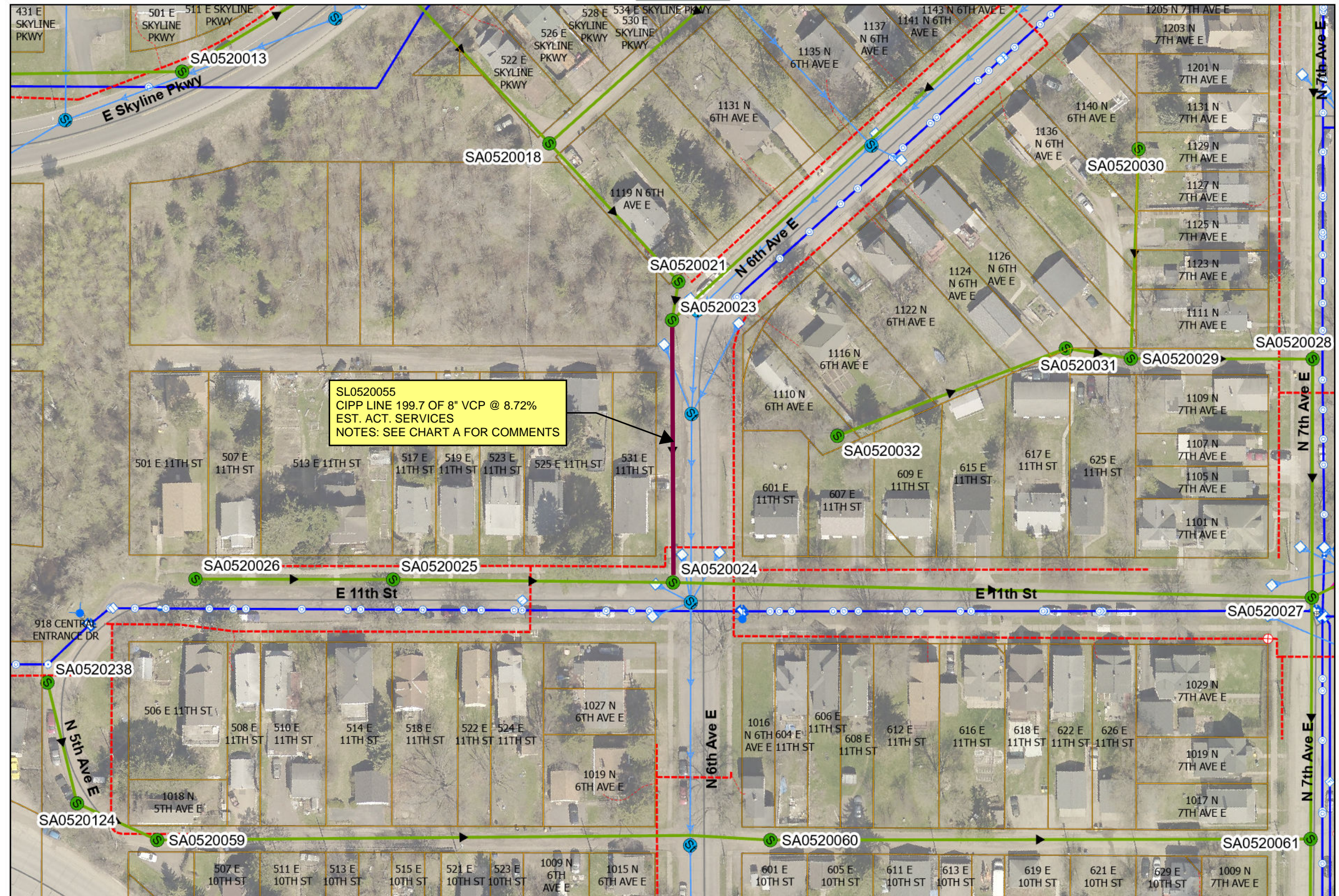


## LEGEND

- Parcel W/Address
- S SANITARY MANHOLE
- S STORM MANHOLE
- ▶ SANITARY MAIN
- STORM CATCH BASIN
- ▶ STORM MAIN
- - - GAS MAIN
- ▶ WATER MAIN

▲ REVISION 06/18/2026

# PLAN



I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tom A. Sanderson LIC. NO: 50401 DATE: 04/21/2026



CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. RM. 240  
DULUTH, MN 55802

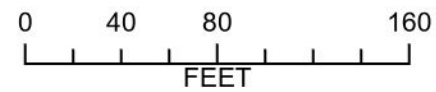
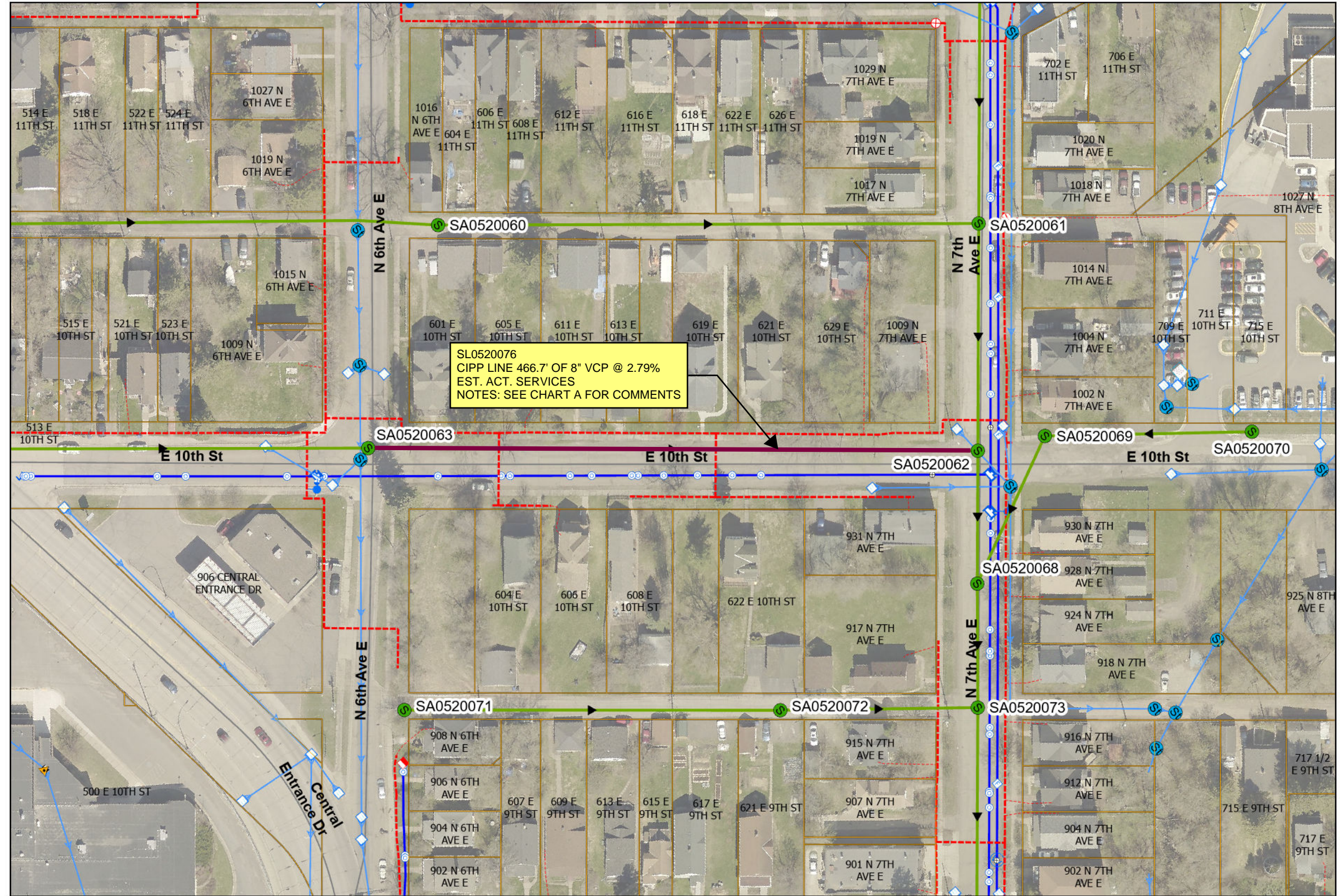
**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
CITY PROJECT NO.: 2362

DRAWN BY: PMR  
PAGE 24

# OVERVIEW MAP



# PLAN



**LEGEND**

- Parcel W/Address
- S SANITARY MANHOLE
- S STORM MANHOLE
- SANITARY MAIN
- STORM CATCH BASIN
- STORM MAIN
- - - GAS MAIN
- WATER MAIN

**REVISION** 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tom A. Sanderson LIC. NO.: 50401 DATE: 04/21/2026



**CITY OF DULUTH**  
 ENGINEERING DIVISION  
 411 W. 1ST ST. RM. 240  
 DULUTH, MN 55802

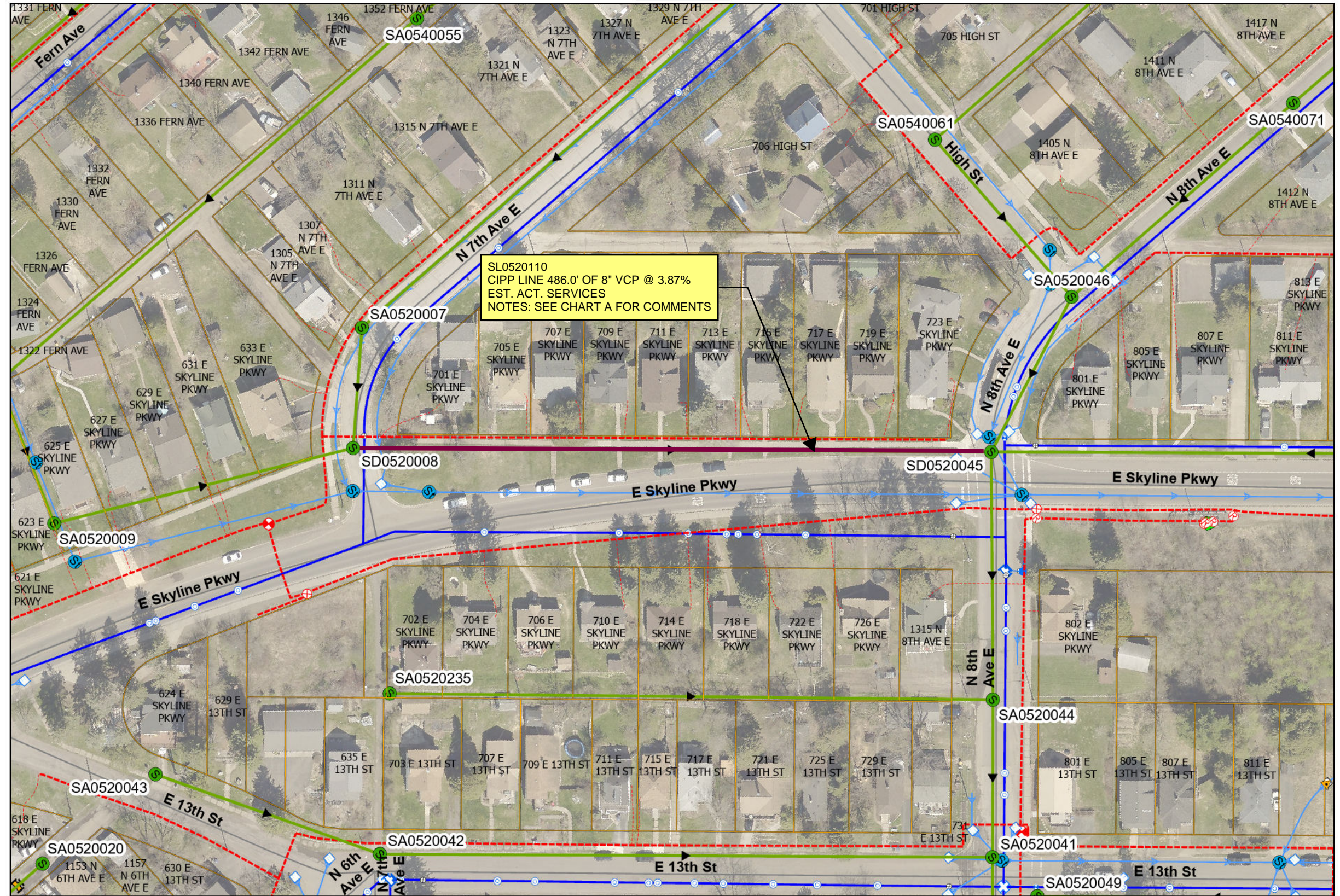
**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
 CITY PROJECT NO.: 2362

DRAWN BY: PMR  
 PAGE 25

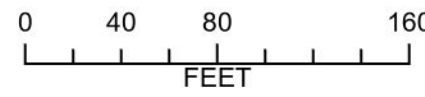
# OVERVIEW MAP



# PLAN



SL0520110  
 CIPP LINE 486.0' OF 8" VCP @ 3.87%  
 EST. ACT. SERVICES  
 NOTES: SEE CHART A FOR COMMENTS



## LEGEND

- Parcel W/Address
- S SANITARY MANHOLE
- S STORM MANHOLE
- ▶ SANITARY MAIN
- STORM CATCH BASIN
- ▶ STORM MAIN
- - - GAS MAIN
- ▶ WATER MAIN

▲ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.  
 SIGNATURE: Tom A. Sanderson LIC. NO: 50401 DATE: 04/21/2026



CITY OF DULUTH  
 ENGINEERING DIVISION  
 411 W. 1ST ST. RM. 240  
 DULUTH, MN 55802

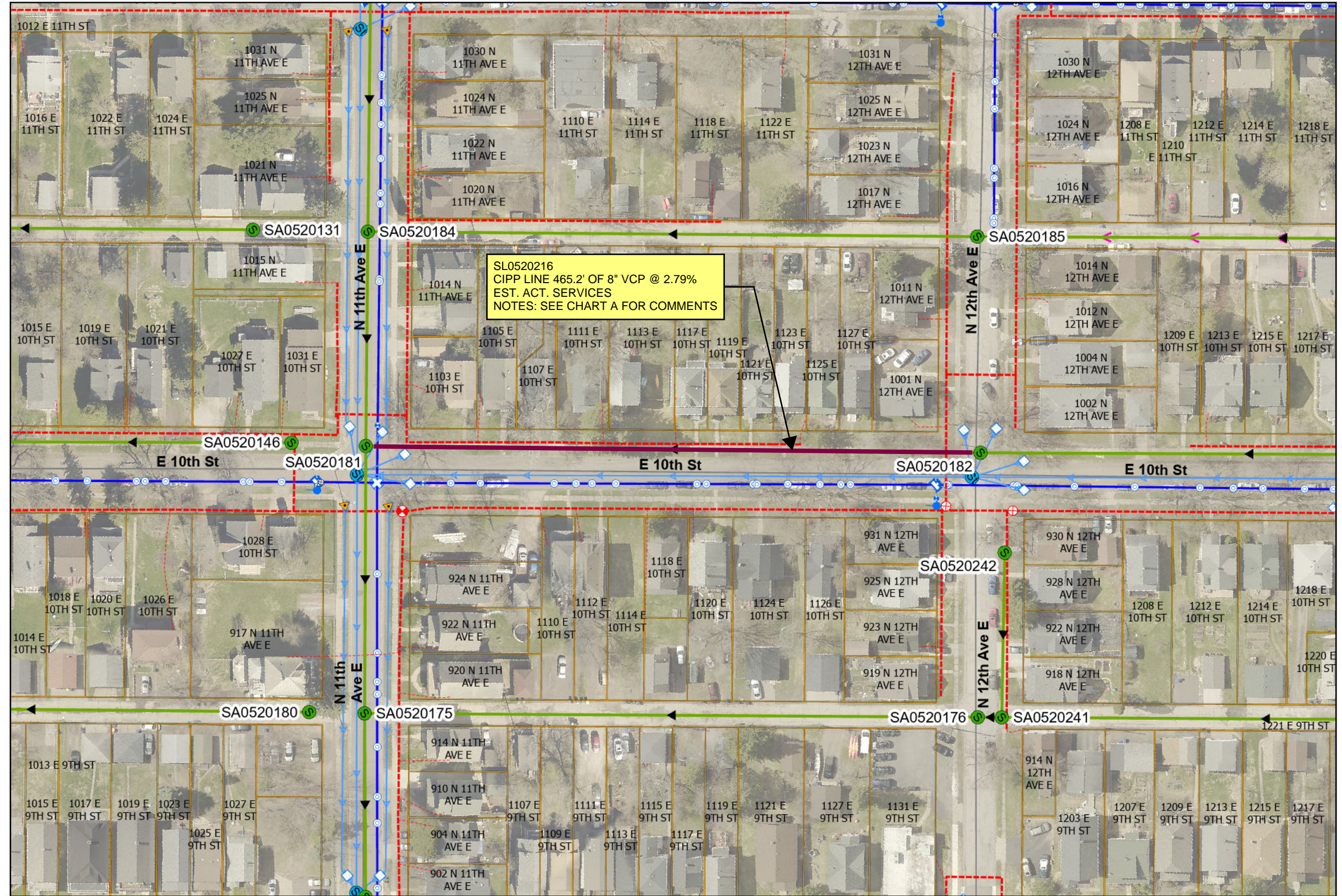
**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
**CITY PROJECT NO.: 2362**

DRAWN BY: PMR  
 PAGE 26

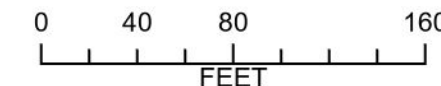
# OVERVIEW MAP



# PLAN



SL0520216  
CIPP LINE 465.2' OF 8" VCP @ 2.79%  
EST. ACT. SERVICES  
NOTES: SEE CHART A FOR COMMENTS



## LEGEND

- Parcel W/Address
- SANITARY MANHOLE
- STORM MANHOLE
- ▶ SANITARY MAIN
- STORM CATCH BASIN
- ▶ STORM MAIN
- - - GAS MAIN
- WATER MAIN

▲ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.  
SIGNATURE: Tom A. Sanderson LIC. NO: 50401 DATE: 04/21/2026

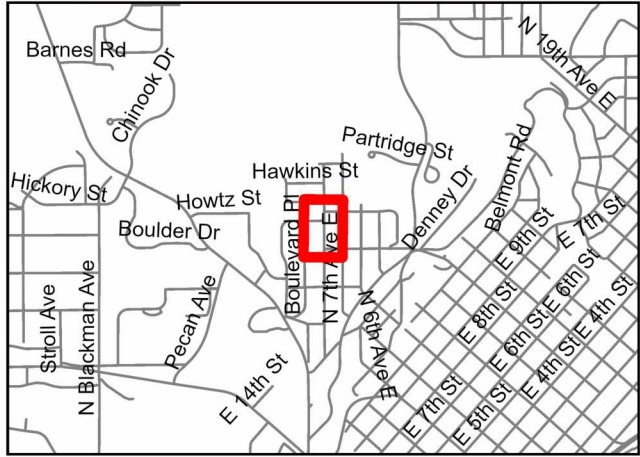


CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. RM. 240  
DULUTH, MN 55802

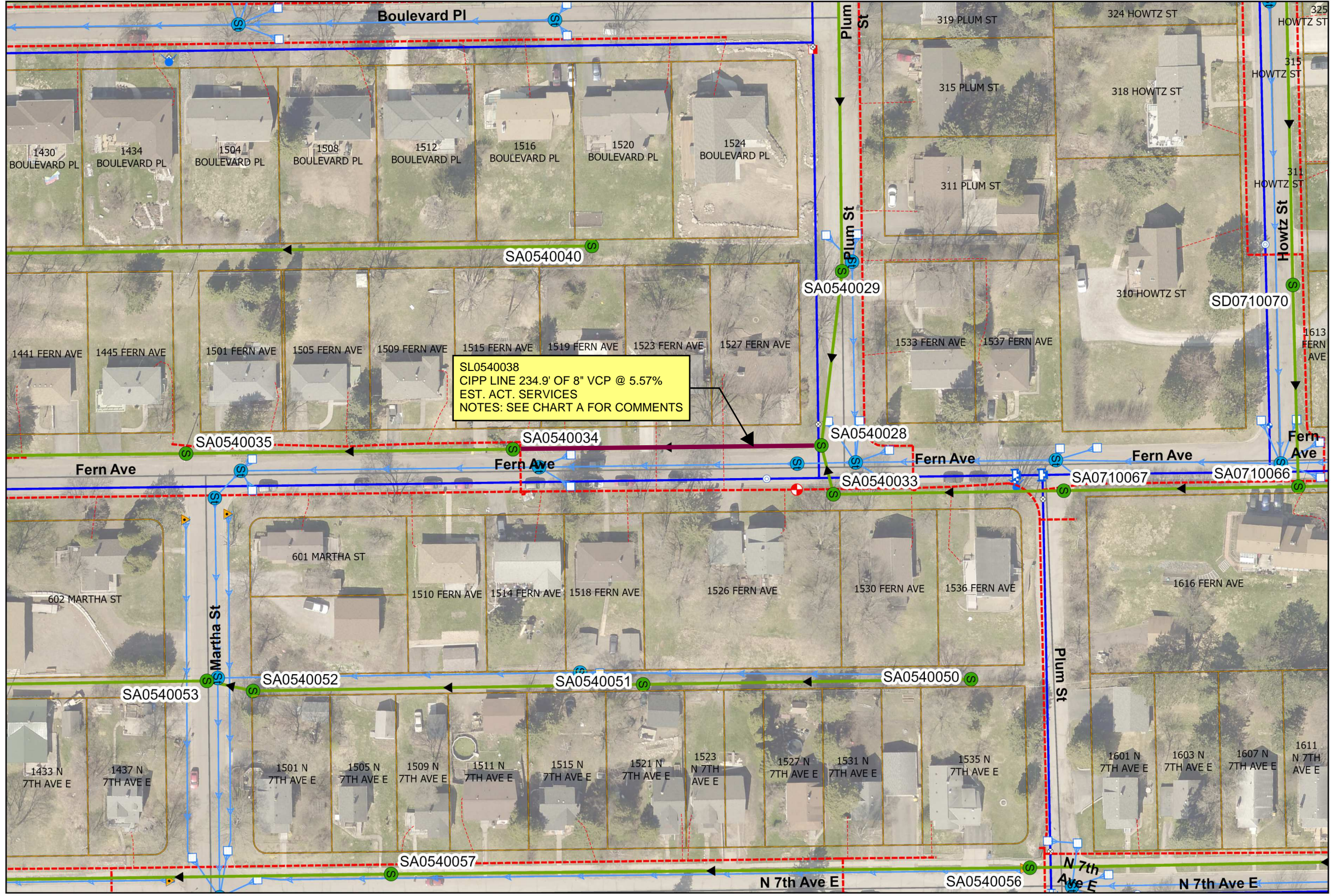
**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
**CITY PROJECT NO.: 2362**

DRAWN BY: PMR  
PAGE 27

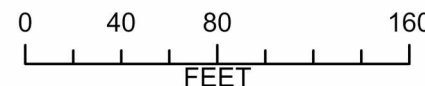
# OVERVIEW MAP



# PLAN



SL0540038  
 CIPP LINE 234.9' OF 8" VCP @ 5.57%  
 EST. ACT. SERVICES  
 NOTES: SEE CHART A FOR COMMENTS



## LEGEND

- Parcel W/Address
- S SANITARY MANHOLE
- S STORM MANHOLE
- ▶ SANITARY MAIN
- STORM CATCH BASIN
- ▶ STORM MAIN
- - - GAS MAIN
- WATER MAIN

▲ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.  
 SIGNATURE: Tom A. Sanderson LIC. NO: 50401 DATE: 04/21/2026

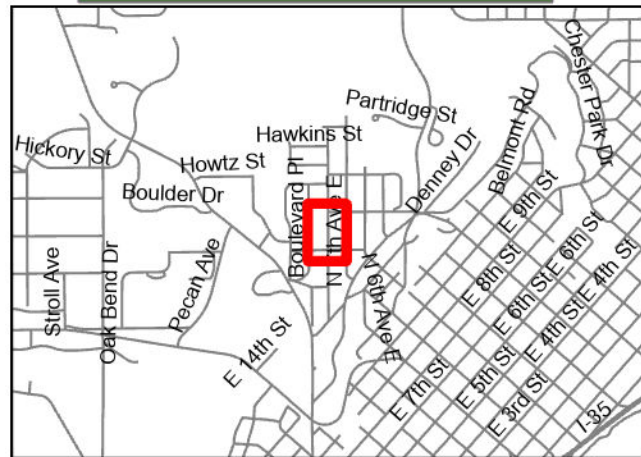


CITY OF DULUTH  
 ENGINEERING DIVISION  
 411 W. 1ST ST. RM. 240  
 DULUTH, MN 55802

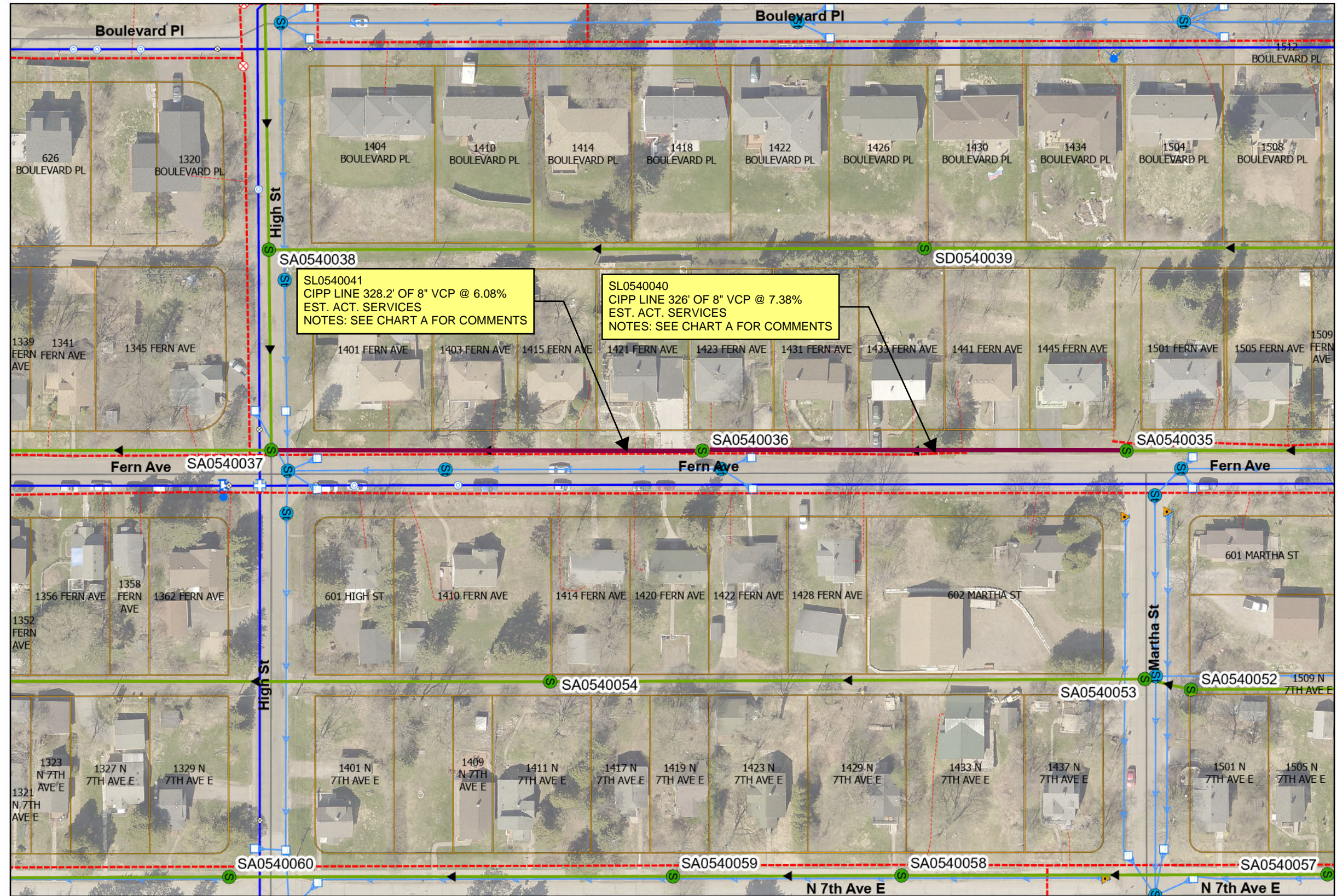
**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
**CITY PROJECT NO.: 2362**

DRAWN BY: PMR  
 PAGE 28

# OVERVIEW MAP



# PLAN



## LEGEND

- Parcel W/Address
- S SANITARY MANHOLE
- S STORM MANHOLE
- ▶ SANITARY MAIN
- STORM CATCH BASIN
- ▶ STORM MAIN
- - - GAS MAIN
- WATER MAIN

▲ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.  
 SIGNATURE: Tom A. Sanderson LIC. NO.: 50401 DATE: 04/21/2026

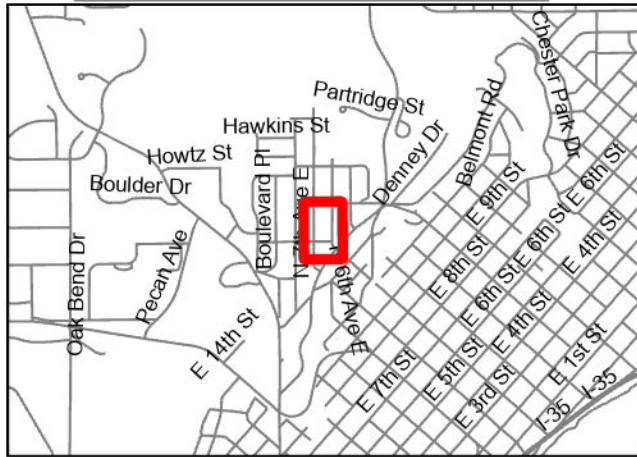


CITY OF DULUTH  
 ENGINEERING DIVISION  
 411 W. 1ST ST. RM. 240  
 DULUTH, MN 55802

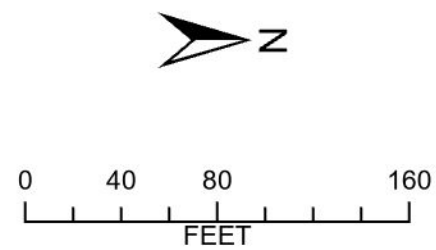
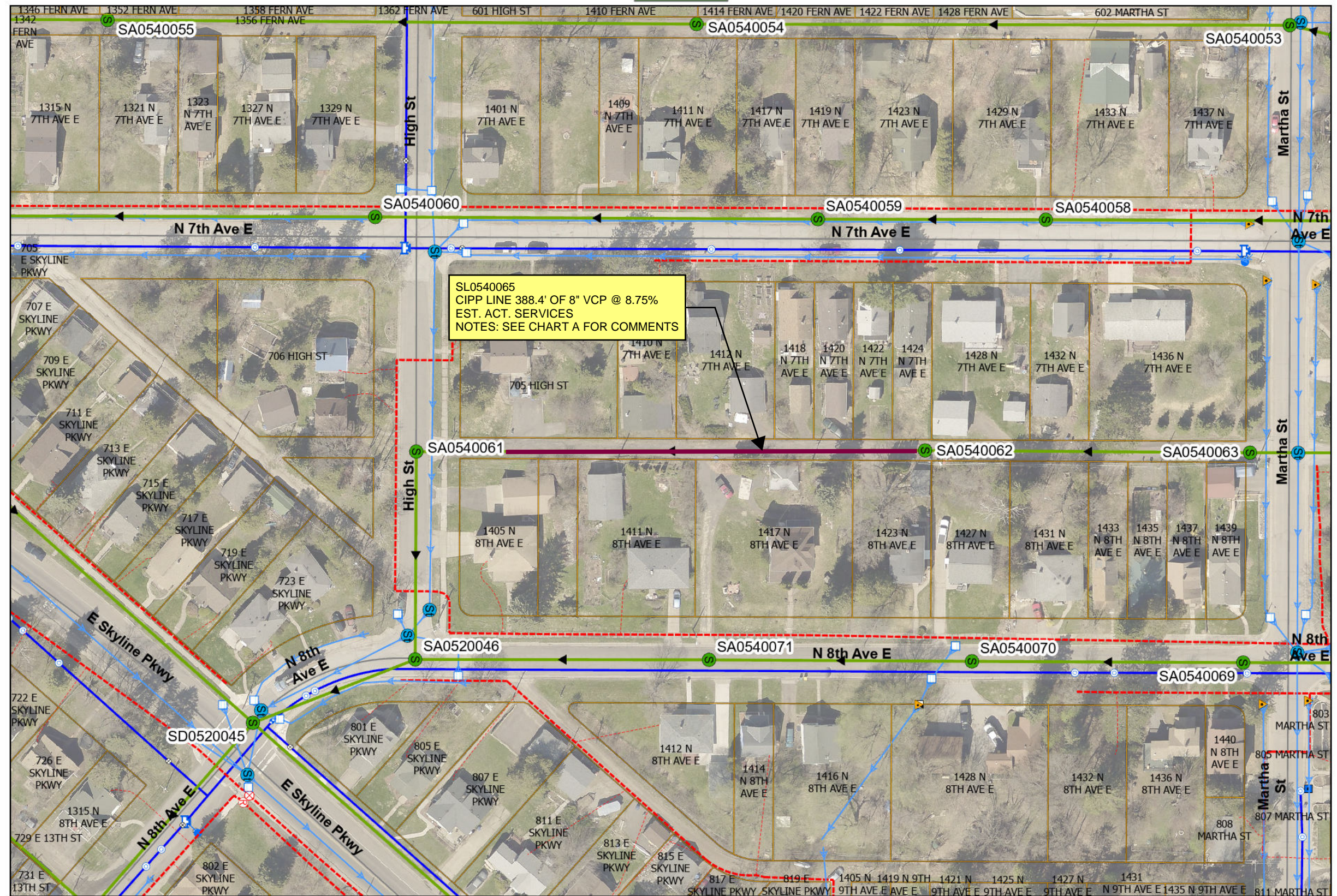
**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
 CITY PROJECT NO.: 2362

DRAWN BY: PMR  
 PAGE 29

# OVERVIEW MAP



# PLAN



**LEGEND**

- Parcel W/Address
- S SANITARY MANHOLE
- S STORM MANHOLE
- ▶ SANITARY MAIN
- STORM CATCH BASIN
- ▶ STORM MAIN
- - - GAS MAIN
- WATER MAIN

▲ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tom A. Sanderson LIC. NO: 50401 DATE: 04/21/2026



CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. RM. 240  
DULUTH, MN 55802

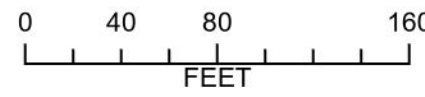
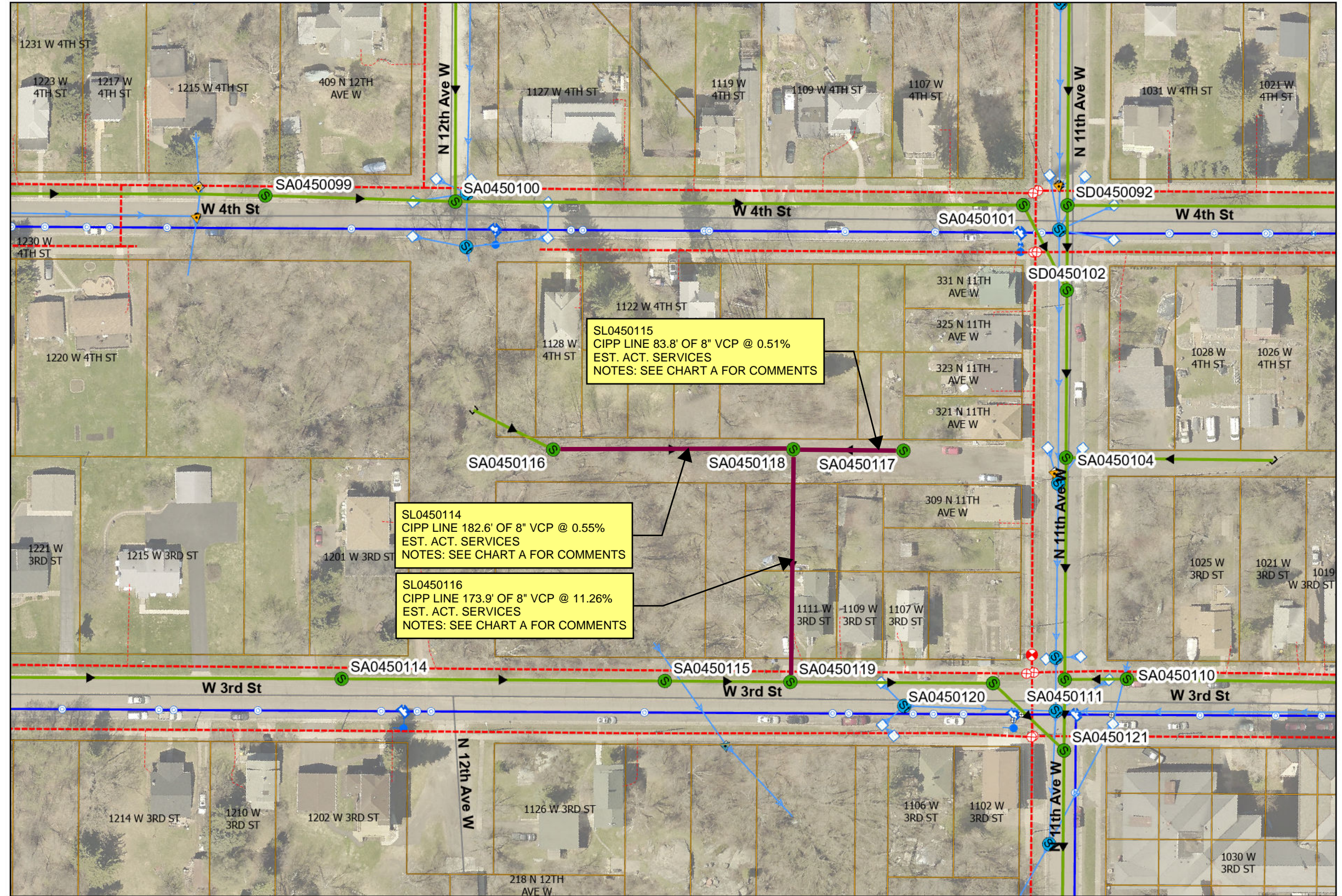
**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
CITY PROJECT NO.: 2362

DRAWN BY: PMR  
PAGE 30

# OVERVIEW MAP



# PLAN



## LEGEND

- Parcel W/Address
- S SANITARY MANHOLE
- S STORM MANHOLE
- SANITARY MAIN
- STORM CATCH BASIN
- STORM MAIN
- - - GAS MAIN
- WATER MAIN

⚠ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.  
 SIGNATURE: Tom A. Sanders LIC. NO: 50401 DATE: 04/21/2026



CITY OF DULUTH  
 ENGINEERING DIVISION  
 411 W. 1ST ST. RM. 240  
 DULUTH, MN 55802

**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
 CITY PROJECT NO.: 2362

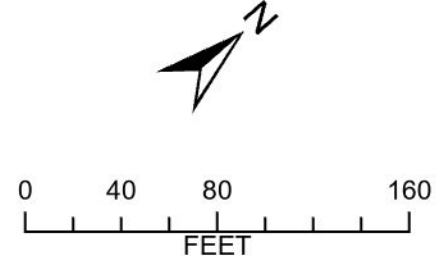
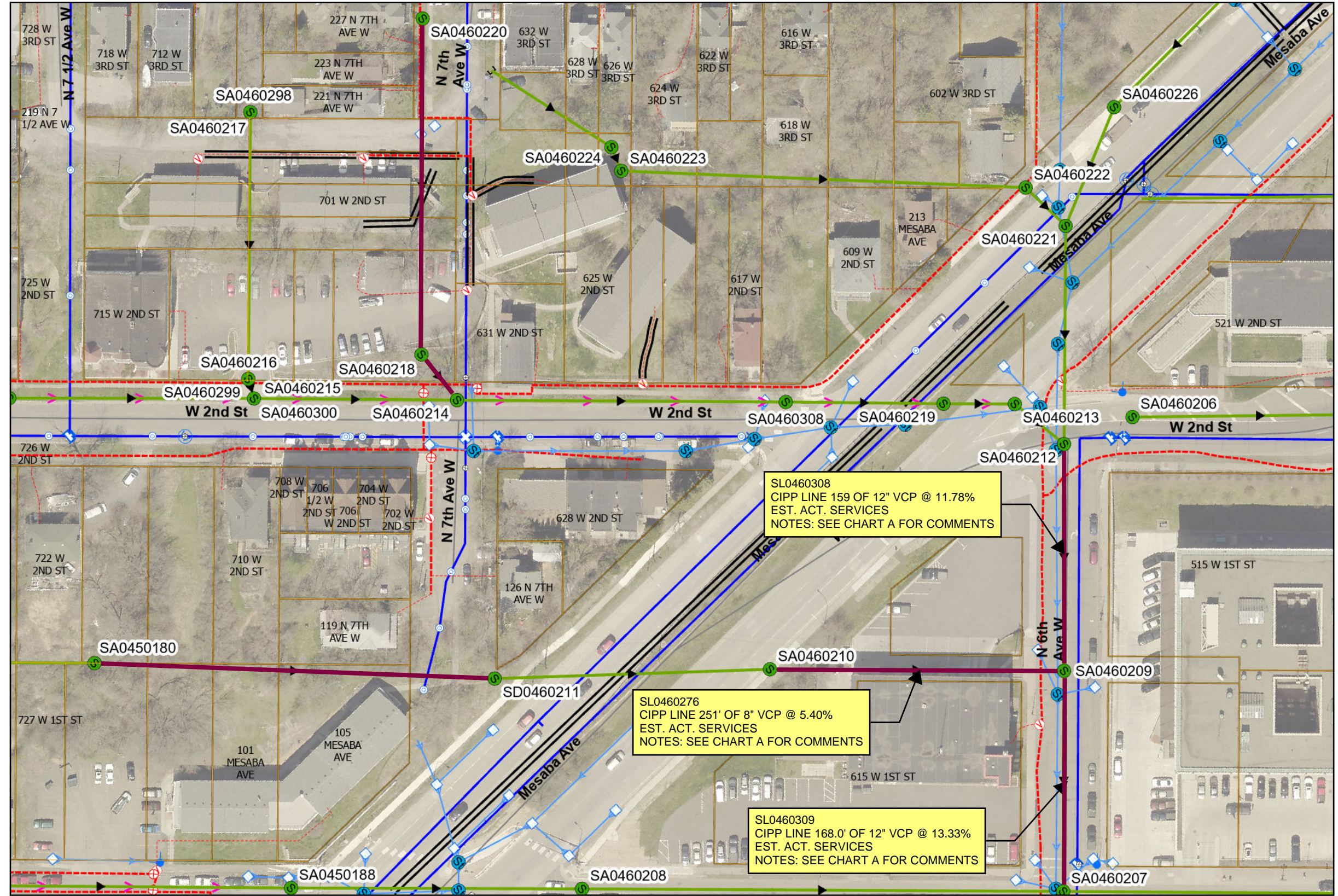
DRAWN BY: PMR  
 PAGE 31



# OVERVIEW MAP



# PLAN



**LEGEND**

- Parcel W/Address
- SANITARY MANHOLE
- STORM MANHOLE
- ➔ SANITARY MAIN
- STORM CATCH BASIN
- ➔ STORM MAIN
- - - GAS MAIN
- WATER MAIN

▲ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tom A. Sanders LIC. NO: 50401 DATE: 04/21/2026



CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. RM. 240  
DULUTH, MN 55802

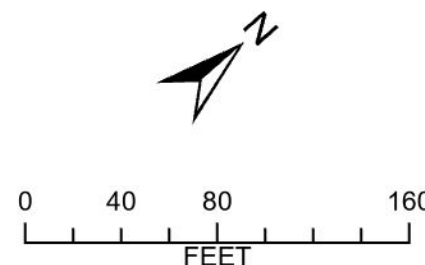
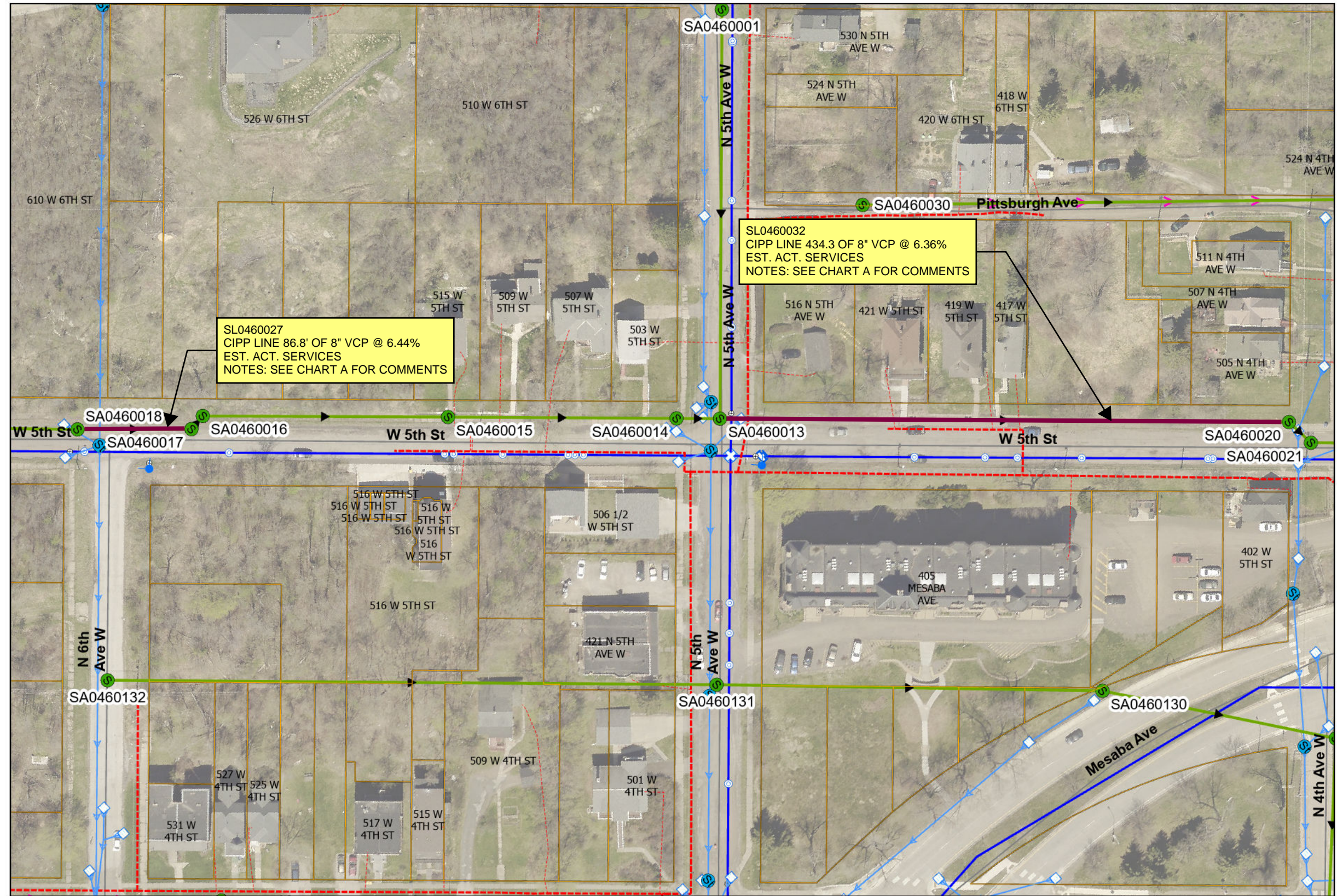
**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
CITY PROJECT NO.: 2362

DRAWN BY: PMR  
PAGE 33

# OVERVIEW MAP



# PLAN



| LEGEND |                   |
|--------|-------------------|
|        | Parcel W/Address  |
|        | SANITARY MANHOLE  |
|        | STORM MANHOLE     |
|        | SANITARY MAIN     |
|        | STORM CATCH BASIN |
|        | STORM MAIN        |
|        | GAS MAIN          |
|        | WATER MAIN        |

**REVISION** 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tom A. Sanders LIC. NO: 50401 DATE: 04/21/2026



CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. RM. 240  
DULUTH, MN 55802

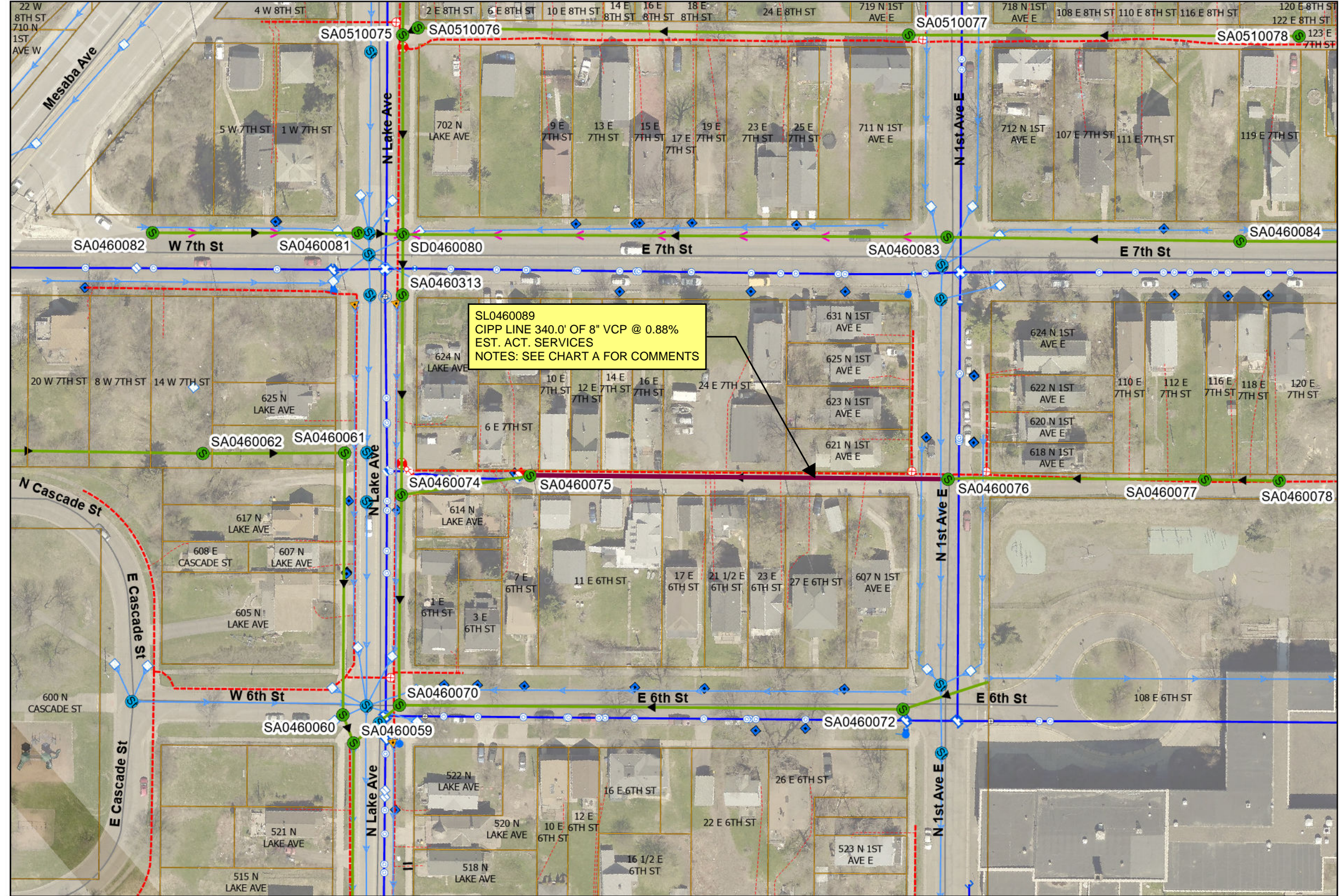
**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
CITY PROJECT NO.: 2362

DRAWN BY: PMR  
PAGE 34

# OVERVIEW MAP



# PLAN



## LEGEND

- Parcel W/Address
- SANITARY MANHOLE
- STORM MANHOLE
- ▶ SANITARY MAIN
- STORM CATCH BASIN
- ▶ STORM MAIN
- - - GAS MAIN
- WATER MAIN

▲ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.  
 SIGNATURE: Tom A. Sanderson LIC. NO: 50401 DATE: 04/21/2026



CITY OF DULUTH  
 ENGINEERING DIVISION  
 411 W. 1ST ST. RM. 240  
 DULUTH, MN 55802

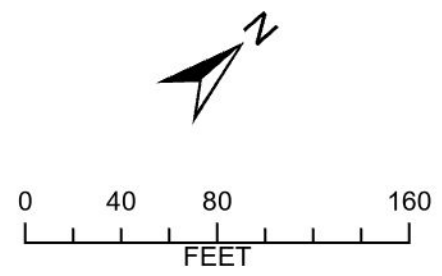
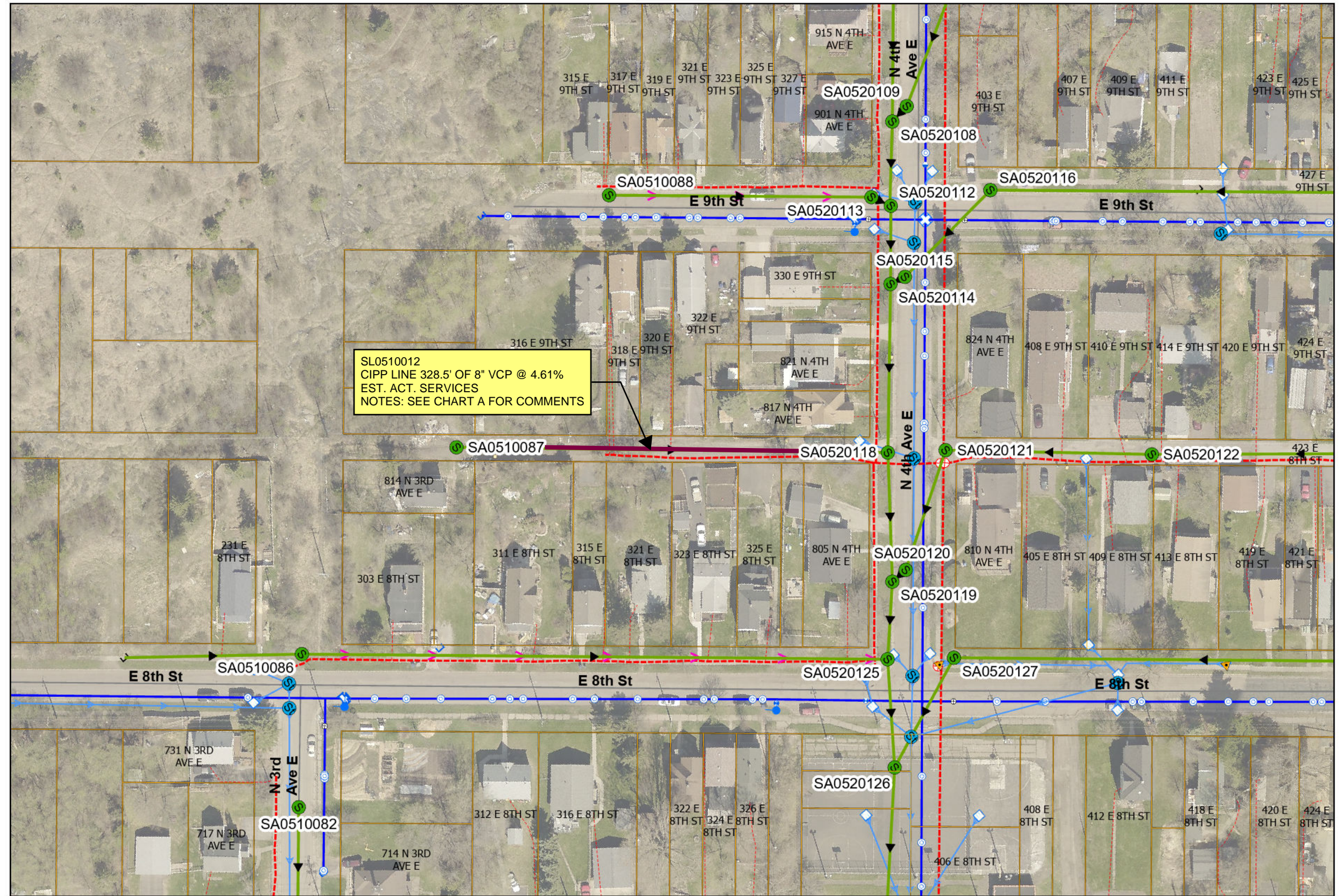
**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
 CITY PROJECT NO.: 2362

DRAWN BY: PMR  
 PAGE 35

# OVERVIEW MAP



# PLAN



**LEGEND**

- Parcel W/Address
- SANITARY MANHOLE
- STORM MANHOLE
- SANITARY MAIN
- STORM CATCH BASIN
- STORM MAIN
- - - GAS MAIN
- WATER MAIN

⚠ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tom A. Sanders LIC. NO: 50401 DATE: 04/21/2026



**CITY OF DULUTH**  
 ENGINEERING DIVISION  
 411 W. 1ST ST. RM. 240  
 DULUTH, MN 55802

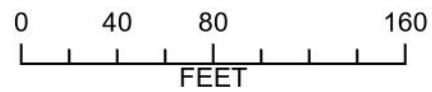
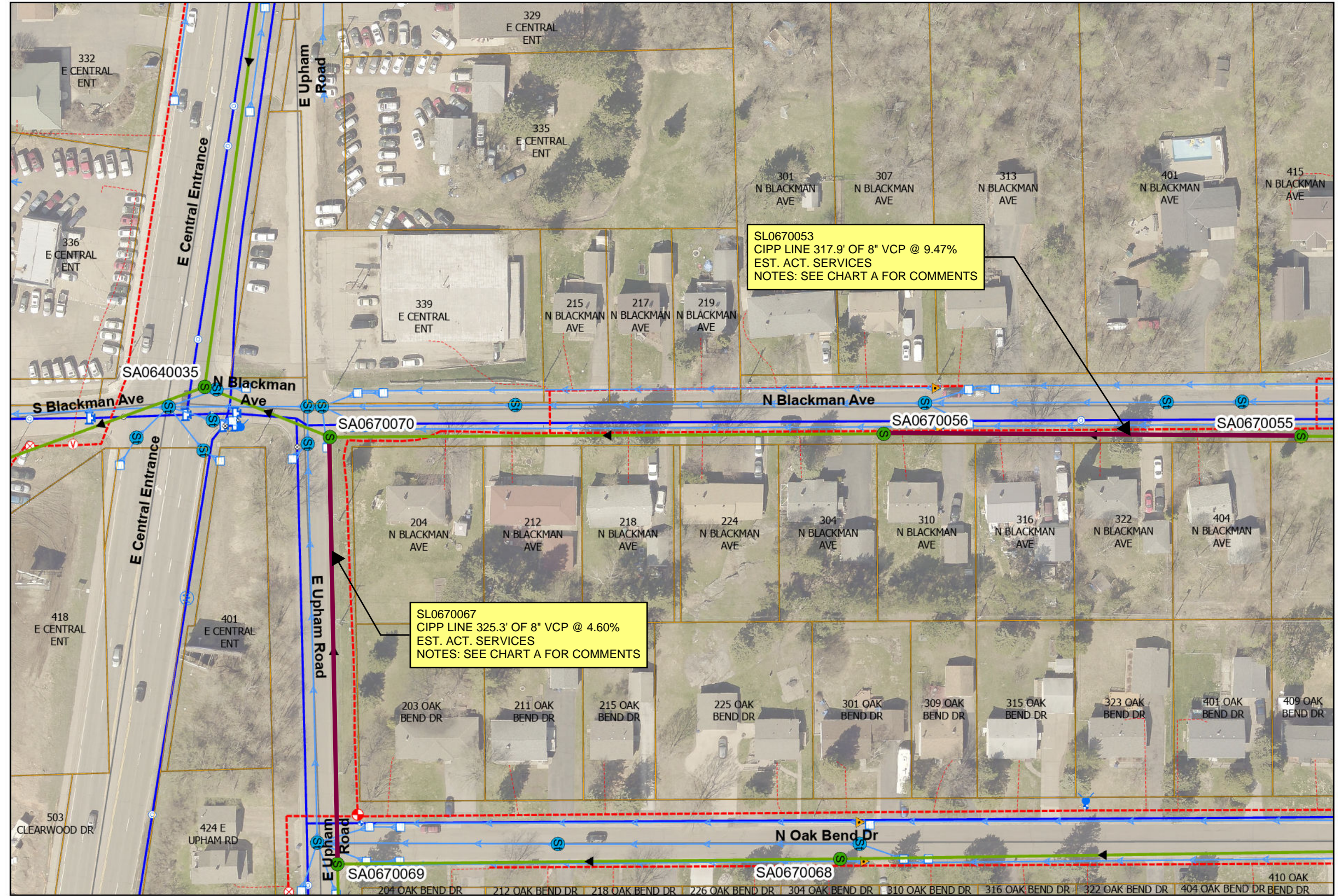
**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
 CITY PROJECT NO.: 2362

DRAWN BY: PMR  
 PAGE 36

# OVERVIEW MAP



# PLAN



## LEGEND

- Parcel W/Address
- S SANITARY MANHOLE
- S STORM MANHOLE
- ▶ SANITARY MAIN
- STORM CATCH BASIN
- ▶ STORM MAIN
- - - GAS MAIN
- WATER MAIN

▲ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tom A. Sanders LIC. NO.: 50401 DATE: 04/21/2026

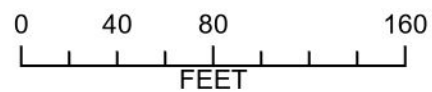


CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. RM. 240  
DULUTH, MN 55802

**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
CITY PROJECT NO.: 2362

DRAWN BY: PMR  
PAGE 37

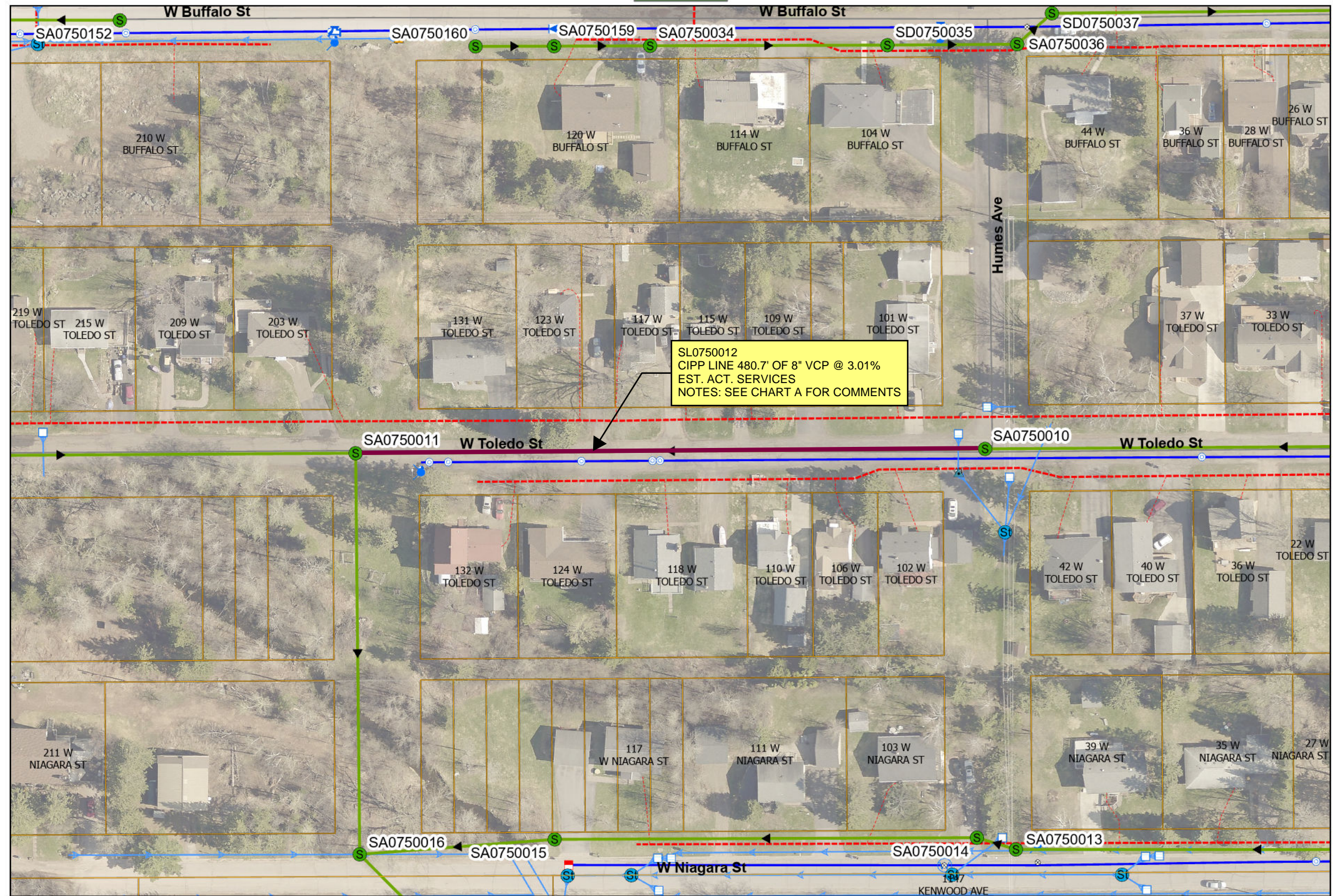
# OVERVIEW MAP



## LEGEND

- Parcel W/Address
- S SANITARY MANHOLE
- S STORM MANHOLE
- ▶ SANITARY MAIN
- STORM CATCH BASIN
- ▶ STORM MAIN
- - - GAS MAIN
- ▶ WATER MAIN

# PLAN



▲ REVISION 06/18/2026

I HEREBY CERTIFY THAT THIS PLAN 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.

SIGNATURE: Tom A. Sanders LIC. NO: 50401 DATE: 04/21/2026



CITY OF DULUTH  
ENGINEERING DIVISION  
411 W. 1ST ST. RM. 240  
DULUTH, MN 55802

**2026 CITYWIDE SANITARY SEWER CIPP LINING**  
CITY PROJECT NO.: 2362

DRAWN BY: PMR  
PAGE 38