

WATER MAIN EXTENSION SYMBOLS

- BUILDING
- CONCRETE SURFACE
- 5 FOOT CONTOUR
- 1 FOOT CONTOUR
- CURB & GUTTER
- GRAVEL SURFACE
- EASEMENT LINE
- FENCE LINE
- LOT LINE
- VACATED PLAT LINE
- ROAD RIGHT-OF-WAY LINE
- OVERHEAD ELECTRIC
- BURIED ELECTRIC
- BURIED GAS
- BURIED SANITARY SEWER
- BURIED STORM
- BURIED TELEPHONE
- BURIED WATER / WATER SERVICE
- EXISTING STORM MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING CATCH BASIN
- WATER SHUTOFF
- WATER VALVE
- HYDRANT
- GAS VALVE
- GAS METER
- CLEAN OUT
- CONSTRUCTION LIMITS
- SODDING TYPE LAWN
- BITUMINOUS PAVEMENT
- CONCRETE WALK
- B624 CONCRETE CURB & GUTTER
- 2" HDPE IPS DR 9 WATER MAIN PIPE
- 1" HDPE SDR 9 SERVICE PIPE (PRIVATE OR PUBLIC)

LSLR SITE REPLACEMENT SYMBOLS

EXISTING WATER MAIN

ABANDONED WATER MAIN

EXISTING WATER SERVICE

EXISTING SERVICE TO BE ABANDONED

EXISTING GAS MAIN

ABANDONED GAS MAIN

EXISTING GAS SERVICE

EXISTING SANITARY MAIN

ABANDONED SANITARY MAIN

EXISTING SANITARY SERVICE

EXISTING STORM

EXISTING BURIED ELECTRIC

EXISTING OVERHEAD ELECTRIC

ABANDONED BURIED ELECTRIC

EXISTING BURIED TELE/FIBER OPTIC

EXISTING OVERHEAD TELE/FIBER OPTIC

EXISTING CURB STOP

EXISTING WATER VALVE

EXISTING GAS VALVE

EXISTING GAS METER

EXISTING SANITARY MANHOLE

EXISTING STORM CATCH BASIN

EXISTING STORM MANHOLE

EXISTING LIGHT POLE

EXISTING ELEC MANHOLE

ROUTE INTERIOR PLUMBING

1" HDPE SDR 9 SERVICE PIPE

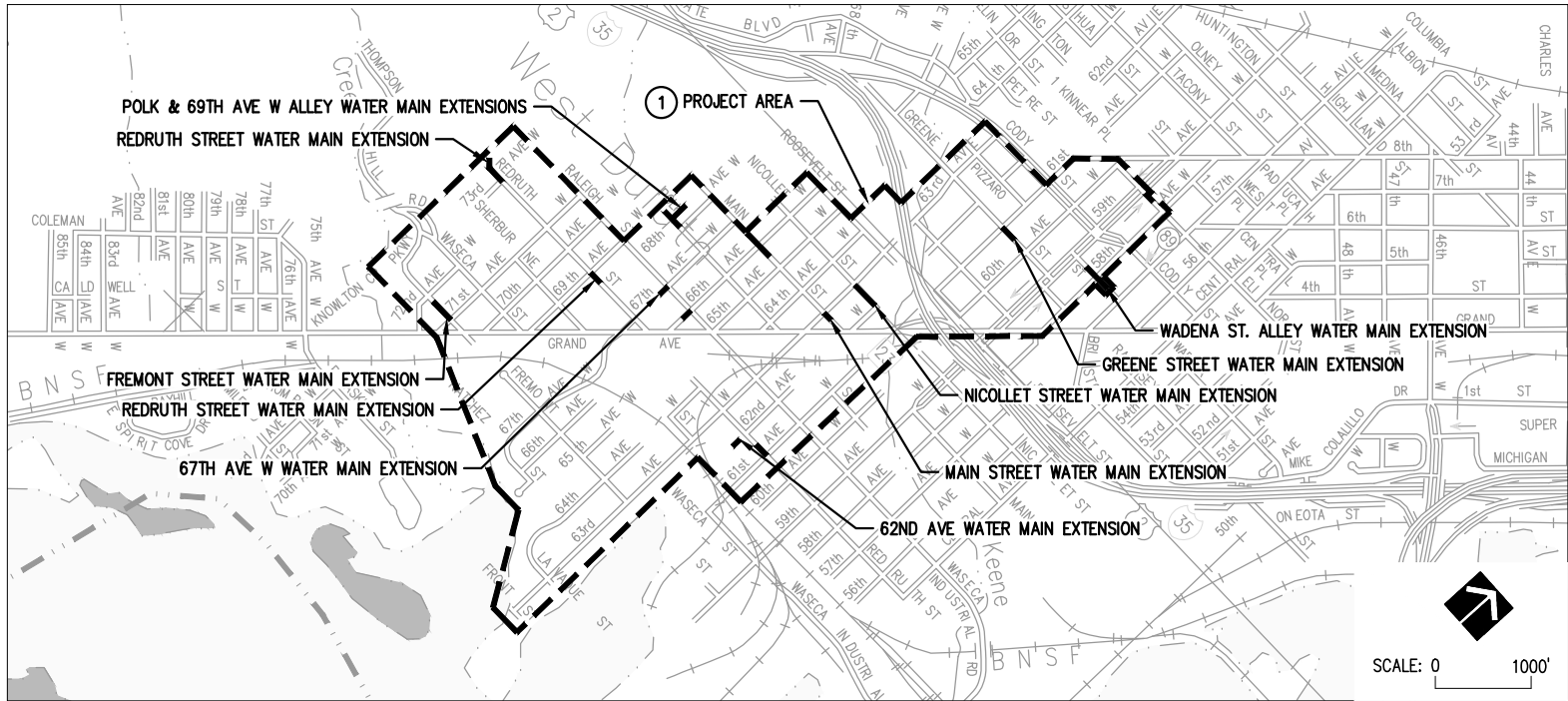
CITY OF DULUTH
DEPARTMENT OF PUBLIC WORKS AND UTILITIES
ENGINEERING DIVISION

CONSTRUCTION PLAN FOR LEAD SERVICE LINE REPLACEMENT (LSLR) - FAIRMOUNT 1

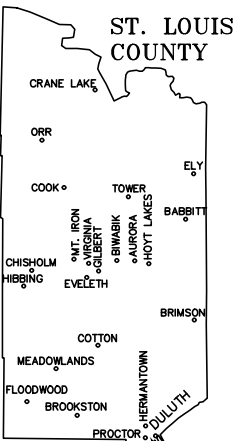
LEAD WATER SERVICE LINE REPLACEMENT, GRADING, BASE, ROADWAY PAVEMENT,
SIDEWALK, CURB & GUTTER, AND WATER MAIN EXTENSIONS

LOCATION

FAIRMOUNT NEIGHBORHOOD



WARNING
LOCATION OF UNDERGROUND UTILITIES
TO BE VERIFIED BY CONTRACTOR.
CALL BEFORE DIGGING.
GOPHER STATE ONE CALL
811 OR 1-800-252-1166
REQUIRED BY LAW



PROJECT LOCATION

KEY NOTE:

① REFER TO SHEET INDEX MAP FOR INDIVIDUAL LSLR SITE LOCATIONS.

UTILITY NOTE:

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY 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".



21 W. Superior St., Ste. 500 | Duluth, MN 55802 | 218.727.8446

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY
03/19/2025	ALL	ADAM BESSE

GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION
"STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE "SUPPLEMENTAL
SPECIFICATIONS" DATED SEPTEMBER 2022, SHALL GOVERN.

THE CITY OF DULUTH PUBLIC WORKS AND UTILITIES DEPARTMENT ENGINEERING DIVISION
2019 EDITION STANDARD CONSTRUCTION SPECIFICATION SHALL APPLY.

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

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET AND INDEX MAP
I1-I12	SITE INDEX PLANS
Q1	STATEMENT OF ESTIMATED QUANTITIES
N1	NOTES
C1-C56	CHARTS
D1-D15	CONSTRUCTION DETAILS
E1-E2	EROSION CONTROL & SWPPP
S1-S533	SERVICE REPLACEMENT PLANS
T1-T5	TRAFFIC CONTROL PLANS
W1-W17	WATER MAIN EXTENSION PLAN AND PROFILE SHEETS

— THIS PLAN CONTAINS 643 SHEETS —

DESIGNERS: (LHB) A. BESSE, I. LARSON, P. BARDEN, D. GAYNOR, C. FARROW

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.

PRINT NAME: ADAM F. BESSE

SIGNATURE:

DATE: 03/19/2025 LIC. #: 52597

Signed by

CITY APPROVALS

DULUTH CITY ENGINEER

153BCC1A236A4E8...

DULUTH CHIEF ENGINEER OF TRANSPORTATION

5C8DF26E53834EA...

DULUTH CHIEF ENGINEER OF UTILITIES

C9498008B6B84E7...

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3/19/2025 | 10:2

3/19/2025 | 10:2

CITY OF DULUTH PROJECT: 2248

MPFA PROJECT NO. 1690011-21

SHEET 1 OF 643 SHEETS