

9:57 AM

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PLAN LEGEND

RIGHT OF WAY LINE	---
DITCH CENTERLINE	-X-
FENCE LINE	~
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	---
EX FORCEMAIN LINE	---
PR FORCEMAIN LINE	---
AB FORCEMAIN LINE	---
EX STORM LINE	---
PR STORM LINE	---
AB STORM LINE	---
EX WATER LINE	---
PR WATER LINE	---
AB WATER LINE	---
EX GAS LINE	---
PR GAS LINE	---
AB GAS LINE	---
EX STEAM LINE	---
PR STEAM LINE	---
AB STEAM LINE	---
UG CABLE TV LINE	---
AB CABLE TV LINE	---
UG ELECTRIC LINE	---
AB ELECTRIC LINE	---
UG FIBEROPTIC LINE	---
AB FIBEROPTIC LINE	---
UG TELEPHONE LINE	---
AB TELEPHONE LINE	---
OH ELECTRIC LINE	---
OH TELEPHONE LINE	---
OH CABLE TV LINE	---

SYMBOLS

EX SANITARY MANHOLE	(SAN)	⊗
EX SANITARY CLEANOUT	(STRM)	⊗
EX STORM MANHOLE	(W)	⊗
EX STORM CATCHBASIN	(W&G)	⊗
EX. WATER MANHOLE	(W)	⊗
EX. WATER VALVE	(W&G)	⊗
EX. WATER HYDRANT	(W&G)	⊗
EX. WATER SHUTOFF	(W&G)	⊗
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	(B)	⊗
FOUND CI MONUMENT	(B)	⊗
EX. SIGN	(S)	⊗
CONTROL POINT	(C)	⊗
EX DECIDUOUS TREE	(D)	⊗
EX CONIFEROUS TREE	(C)	⊗
EX. PARKING METER	(P)	⊗
EX. SOIL BORING	(SB)	⊗

CITY OF DULUTH

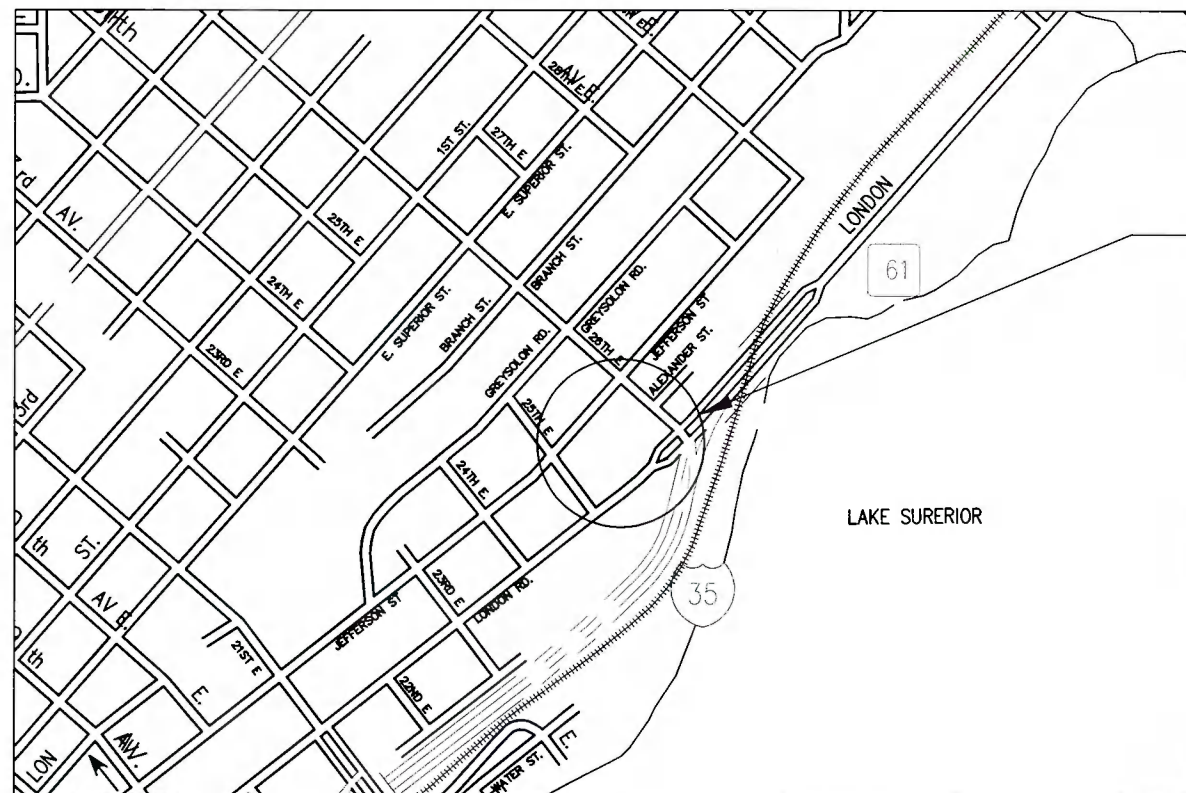
DEPARTMENT OF PUBLIC WORKS AND UTILITIES

ENGINEERING DIVISION

CONSTRUCTION PLANS FOR:

26TH AVE E & LONDON RD WATER MAIN RELOCATION

CITY PROJECT NO. 2306



PROJECT AREA

LAKE SUPERIOR

BASIS OF DATUM

- HORIZONTAL DATUM IS SAINT LOUIS COUNTY TRANSVERSE MERCATOR 1996 (SLCTM_96)

TRAFFIC CONTROL NOTE

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM AND BE INSTALLED IN ACCORDANCE WITH THE CURRENT "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MnMUTCD), INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

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".

PLAN REVISIONS		
DATE	SHEET NO.	APPROVER



PROJECT LOCATION
ST. LOUIS COUNTY
CITY OF DULUTH
SO. ?? SEC. ?
?? 1/4 SEC. ?
T??N R??W

GOVERNING SPECIFICATIONS

THE 2020 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 2019 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/>

WARNING:

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

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3-4	CONSTRUCTION CHARTS
5-6	TYPICAL SECTIONS
7-12	CONSTRUCTION DETAILS
13-14	REMOVALS
15-17	WATER MAIN PLAN & PROFILE
18	STORM SEWER PLAN & PROFILE
19-20	RESTORATIONS
21-26	PEDESTRIAN CURB RAMP DETAILS
27-30	PAVEMENT JOINTS
31-32	CONCRETE MAINLINE PAVEMENT
33-35	SWPPP
36-37	EROSION CONTROL PLAN
38-40	TRAFFIC CONTROL

THIS PLAN CONTAINS 40 SHEETS

DESIGN TEAM: J. ISACKSON

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.

HOWARD SMITH, P.E.

PROJECT ENGINEER (TYPED OR PRINTED NAME)

PROJECT ENGINEER 5-15-2025 46875 DATE LIC. NO.

CITY APPROVAL

APPROVED 5/15/25 CHIEF ENGINEER OF TRANSPORTATION DATE

APPROVED 5-15-25 CHIEF ENGINEER OF UTILITIES DATE

APPROVED 5-15-25 CITY ENGINEER DATE

CITY OF DULUTH PROJECT NO. 2306

DRAWN BY: JAI

SHEET NO. 1 OF 40