

LEGEND:

EXST'G ROW:	
TEMPORARY EASEMENT:	
PERMANENT EASEMENT:	
FENCE:	
ALIGNMENT STATIONS:	
ALIGNMENT POINTS:	
WATER LINE:	
ABANDONED WATER LINE:	
GAS LINE:	
ABANDONED GAS LINE:	
SANITARY SEWER:	
STORM SEWER:	
PERFORATED PIPE DRAIN:	
UNDERGROUND ELECTRICAL LINE:	
OVERHEAD ELECTRICAL LINE:	
UNDERGROUND FIBER OPTIC LINES:	
UNDERGROUND CATV LINES:	
UNDERGROUND TELEPHONE LINES:	
ABANDONED CATV LINES:	
UNDERGROUND ELECTRIC LINES:	
SIGNAL LOOP LINES:	
LIGHT POLE:	
LIGHT POLE W/ PARKING METER(S):	
PARKING METER(S):	
SIGNAL POLE:	
SIGNAL CABINET:	
HAND HOLE:	
ELECTRIC BOX:	
JUNCTION BOX:	
ELECTRIC METER:	
ELECTRIC MANHOLE:	
TELE. MANHOLE (ABAND):	
WATER VALVE:	
WATER SHUT OFF VALVE:	
HYDRANT:	
VALVE PIT:	
GAS VALVE:	
SANITARY MANHOLE:	
STORM MANHOLE:	
CATCH BASIN:	
STEAM MANHOLE:	
SIGNAL CABINET:	
ELEC. BOX:	
BOLLARD:	
FLAG POLE:	
VENT PIPE:	
MAILBOX:	
TREE / SHRUB:	
ENTRANCE OR DRIVE LOCATION: SIGN:	
SOIL BORING:	
HORIZONTAL CONTROL POINT:	
BUILDING:	

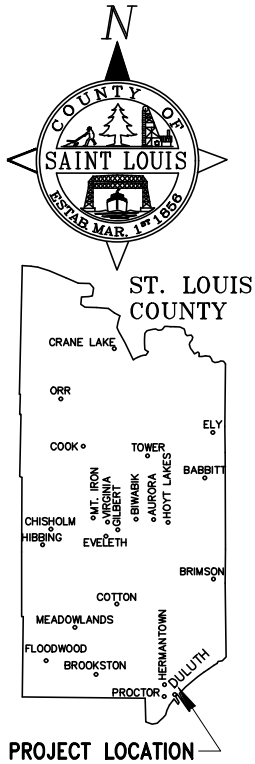
NOTE: REFER TO INDIVIDUAL PLAN SECTIONS FOR ADDITIONAL LEGEND INFORMATION.

MINNESOTA DEPARTMENT OF TRANSPORTATION
CITY OF DULUTH
DEPARTMENT OF PUBLIC WORKS AND UTILITIES
ENGINEERING DIVISION
CONSTRUCTION PLAN FOR 1ST STREET ALLEY DUCT BANK

GRADING, AGGREGATE BASE, CONCRETE PAVEMENT, BITUMINOUS PAVEMENT, SIDEWALK, DUCTBANK, AND CURB & GUTTER

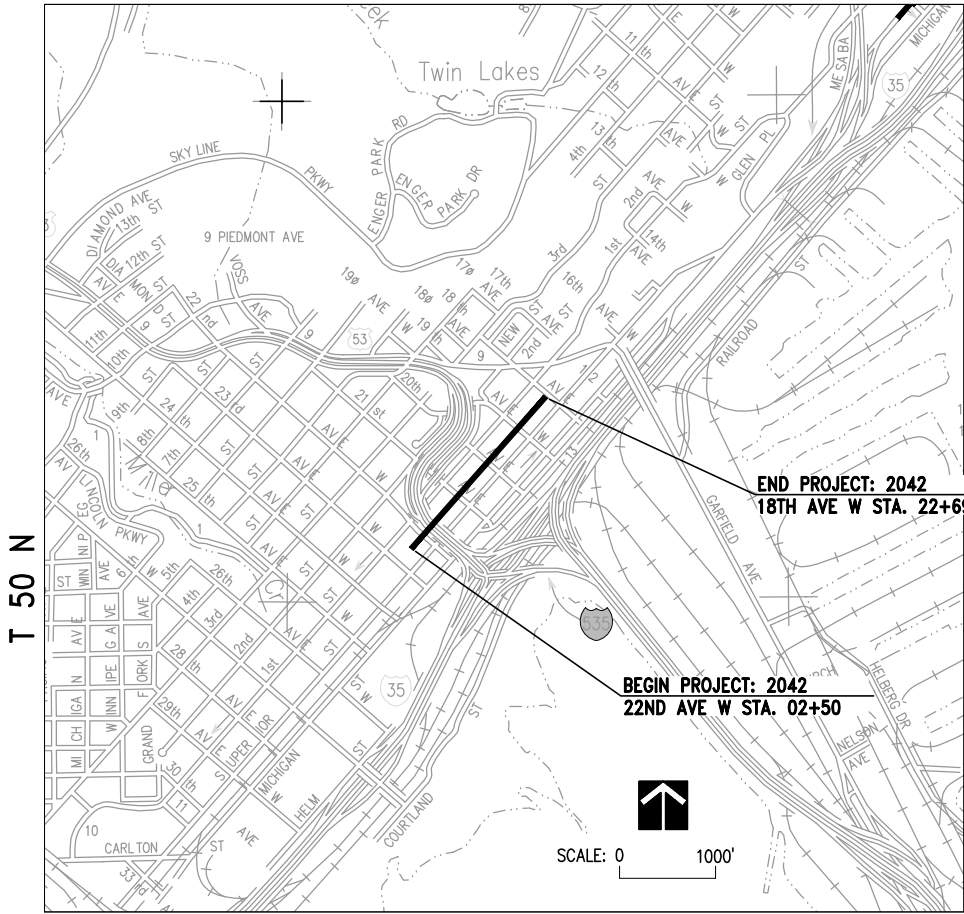
LOCATED: ON EAST 1ST STREET STREET ALLEY FROM 185 FT SW OF THE CENTERLINE OF 22ND AVENUE WEST TO 33 FT SW OF CENTER LINE OF 18TH AVENUE EAST

GROSS LENGTH	2,018	FEET	0.382	MILES
BRIDGES—LENGTH	N.A.	FEET	N.A.	MILES
EXCEPTIONS—LENGTH	N.A.	FEET	N.A.	MILES
NET LENGTH	2,018	FEET	0.382	MILES



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 OF EXISTING SUBSURFACE UTILITY DATA".



R 14 W

SCALES

PLAN	20 ft.	
PROFILE	20 ft. HORIZ.	5 ft. VERT.



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

PLAN REVISIONS

DATE	SHEET NO.	APPROVED BY

CITY OF DULUTH PROJECT: 2042

GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MN MUTCD, INCLUDING THE FIELD MANUAL DATED "LATEST EDITION" AVAILABLE AT: <https://www.dot.state.mn.us/trafficeng/publ/fieldmanual/fieldmanual.pdf>

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

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-6	CONSTRUCTION DETAILS
7	TRAFFIC CONTROL PLAN
8-14	VAULT DATA SHEETS
15-17	INPLACE CONDITIONS & REMOVALS
18-20	SURFACING PLANS
21-25	DUCT BANK PLAN & PROFILE
26-30	ALLEY GUTTER PLAN & PROFILE
31-33	EROSION CONTROL PLAN
34	PROJECT LOCATION & RECEIVING WATERS
35-36	SWPPP NARRATIVE
37	EROSION CONTROL DETAILS
38-40	FIBER OPTIC PLANS
41	FIBER OPTIC DETAILS AND NOTES

— THIS PLAN CONTAINS 41 SHEETS —

DESIGN DESIGNATION

DESIGNERS (LHB) D. Polson, J. Hennessey, P. Borden

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: DAVID POLSON

SIGNATURE:

DATE: 10/14/2022 LIC. #: 57246

DocuSigned by:

APPROVED: DULUTH CHIEF ENGINEER

DocuSigned by:

APPROVED: DULUTH CHIEF ENGINEER OF TRANSPORTATION

DocuSigned by:

APPROVED: DULUTH CHIEF ENGINEER OF UTILITIES

DocuSigned by:

10/21/2022

DATE:

10/21/2022

DATE:

10/21/2022

DATE:

SHEET 1 OF 41 SHEETS