

PLAN SYMBOLS

QUARTER SECTION LINE	----
SECTION LINE	-----
SIXTEENTH SECTION LINE	- - - - -
STATE BOUNDARY	-----
TOWNSHIP LINE	-----
CONTOUR - INDEX	-----
CONTOUR - INTERMEDIATE	-----
ROAD - TRAIL	-----
ROAD - GRAVEL (UNIMPROVED)	-----
ROADWAY	-----
ROAD - SHOULDER GRAVEL	-----
PARKING - GRAVEL (UNIMPROVED)	-----
PARKING	-----
ROAD - CENTERLINE	-----
ENTRANCE	-----
CURB	-----
GUARDRAIL	-----
EXISTING STEAM	-----
EXISTING GAS MAIN	-----
EXISTING SANITARY SEWER	-----
EXISTING STORM DRAIN	-----
EXISTING WATER MAIN	-----
EXISTING ELEC-UG	-----
EXISTING TEL-UG	-----
EXISTING TV-UG	-----
PROPOSED STEAM	-----
PROPOSED GAS MAIN	-----
PROPOSED SANITARY SEWER	-----
PROPOSED STORM DRAIN	-----
PROPOSED WATER MAIN	-----
PROPOSED ELEC-UG	-----
PROPOSED TEL-UG	-----
PROPOSED TV-UG	-----
PROPOSED SUB-DRAIN	-----
CULVERT - (LINE)	-----
PROPERTY LINE	-----
TEMPORARY EASEMENT	-----
FENCE - CHAINLINK	-----
FENCE - UNIDENTIFIED	-----
FENCE - BARB WIRE	-----
SIDEWALK - BITUMINOUS	-----
RAILROADS	-----
PAINTED STREET SYMBOLS	-----
CROSSWALK LINES	-----
ALLEYS - NO CURBS, CONCRETE	-----
RECREATIONAL PATHS	-----
TREE - UNIDENTIFIED (LINE)	-----
HEDGE	-----

CITY OF DULUTH

DEPARTMENT OF PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

CONSTRUCTION PLANS FOR: REPAIR OF BRIDGE L6127 (TWIN PONDS) & STONE MASONRY RETAINING WALL RESTORATION ALONG SKYLINE PARKWAY.

GEOGRAPHIC LOCATION: LOCATED ALONG WEST SKYLINE PARKWAY (M.S.A.S. 113) APPROX. 1.1 MILES EAST OF JUNCTION WITH T.H. 53.

LEGAL DESCRIPTION: FROM A POINT THAT IS APPROX. 2231' EAST AND 124' SOUTH OF THE NORTHWEST CORNER OF SEC. 33, T50N, R14W. TO A POINT THAT IS APPROX. 2268' EAST AND 27' NORTH OF THE SOUTHWEST CORNER OF SEC. 28, T50N, R14W.

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/>)

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

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

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

INDEX

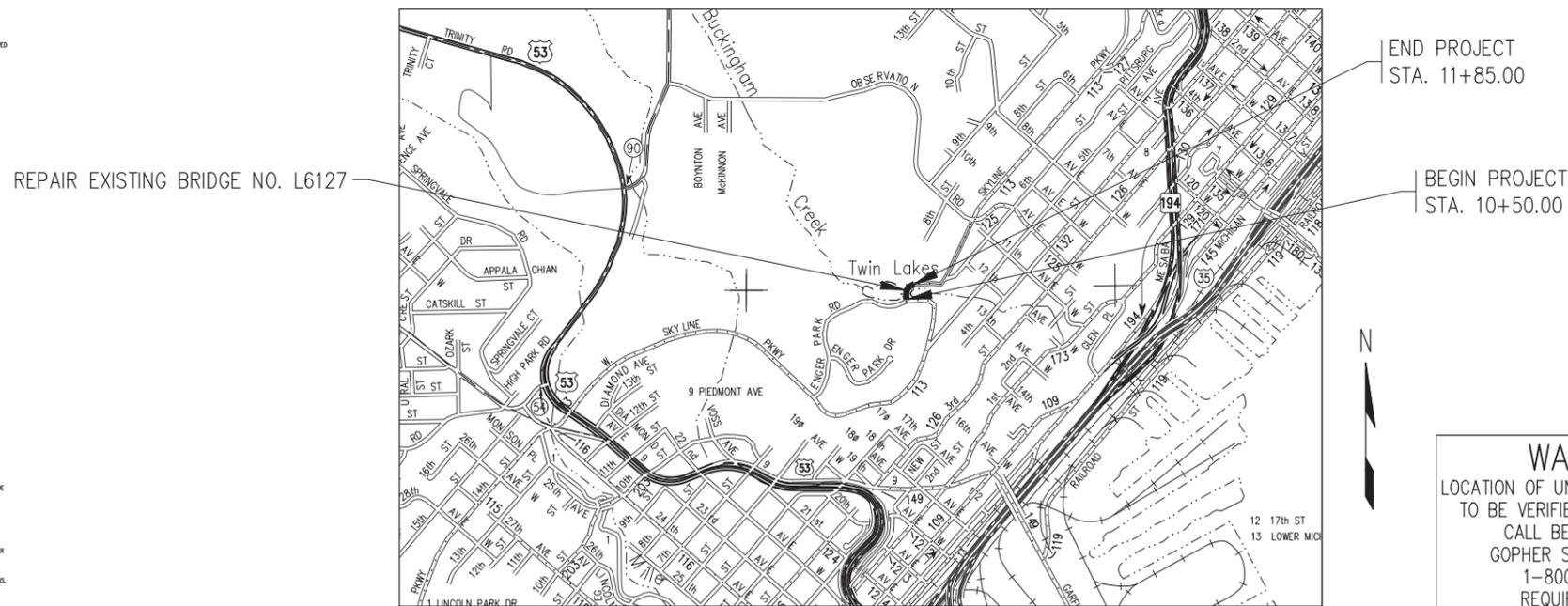
SHEET No.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3	TYPICAL SECTIONS
4	EROSION CONTROL NOTES
5	EROSION CONTROL PLAN
6	EROSION CONTROL DETAILS
7	TEMPORARY STREAM DIVERSION SYSTEM
8	TRAFFIC CONTROL PLAN
9	TRAFFIC CONTROL NOTES
10	GENERAL PLAN & WORK SCOPE
11	DEVELOPED WALL ELEVATION & DETAILS
12	STONE MASONRY WALL DETAILS
13	SITE RESTORATION PLAN
14-17	BRIDGE NO. L6127 PLANS
18-19	CROSS SECTIONS

THIS PLAN CONTAINS 19 SHEETS

UTILITY SYMBOLS

PROPERTY CORNER	○
CONTROL POINT	△
WATER METER	⊗
WELL	⊙
PEDESTAL (TELEPHONE CABLE TERMINAL)	⊠
PEDESTAL (TELEVISION CABLE TERMINAL)	⊡
PARKING METER - SINGLE	⊕
PARKING METER - DOUBLE	⊖
FIRE HYDRANT	⊗
GAS SHUT OFF VALVE	⊘
GAS VALVE	⊙
WATER SHUT OFF VALVE	⊗
WATER VALVE	⊘
EXISTING CATCH BASIN	⊕
EXISTING ELECTRIC MANHOLE	⊖
EXISTING GAS MANHOLE	⊗
EXISTING SANITARY MANHOLE	⊘
EXISTING STEAM MANHOLE	⊙
EXISTING STORM MANHOLE	⊠
EXISTING TELEPHONE MANHOLE	⊡
EXISTING TELEPHONE VAULT	⊕
EXISTING TELEVISION MANHOLE	⊖
EXISTING WATER MANHOLE	⊗
EXISTING WATER & GAS MANHOLE	⊘
PROPOSED CATCH BASIN	⊙
PROPOSED ELECTRIC MANHOLE	⊠
PROPOSED GAS MANHOLE	⊡
PROPOSED SANITARY MANHOLE	⊕
PROPOSED STEAM MANHOLE	⊖
PROPOSED STORM MANHOLE	⊗
PROPOSED TELEPHONE MANHOLE	⊘
PROPOSED TELEPHONE VAULT	⊙
PROPOSED TELEVISION MANHOLE	⊠
PROPOSED WATER MANHOLE	⊡
PROPOSED WATER & GAS MANHOLE	⊕
ANODE	⊖
ELECTRICAL BOX	⊗
ELECTRICAL VAULT	⊘
ELECTRICAL HAND HOLE (PULL BOX)	⊙
ELECTRICAL METER	⊠
ELECTRICAL PANEL	⊡
ELECTRICAL TRANSFORMER BOX	⊕
EXISTING LIGHT POLE	⊖
PROPOSED LIGHT POLE	⊗
LITE ON POWER POLE	⊘
POLE - ELECTRICAL W/TRANSFORMER	⊙
LUMIN	⊠
LUMIN2	⊡
POWER POLE	⊕
SIGNAL VAULT	⊖
TRAFFIC SIGNAL	⊗
TRAFFIC SIGNAL POLE	⊘
ANCHOR	⊙
BUSH	⊠
SWAMP - (SYMBOL)	⊡
TREE - UNIDENTIFIED (SYMBOL)	⊕
TREE - EVERGREEN (SYMBOL)	⊖
SOIL BORING	⊗
SIGN - UNIDENTIFIED (SYMBOL)	⊘
MONUMENT	⊙

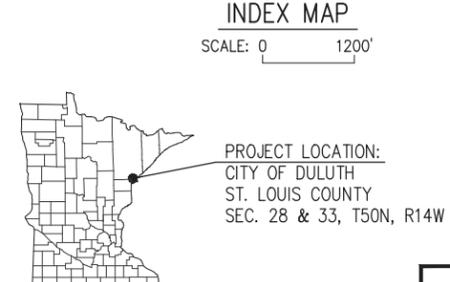
GROSS LENGTH	135.00	FEET	0.026	MILE
BRIDGES-LENGTH	60.12	FEET	0.011	MILE
EXCEPTIONS-LENGTH	--	FEET	--	MILE
NET LENGTH	135.00	FEET	0.026	MILE



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

MANHOLE & CATCH BASIN INDEX

ICB # INPLACE CATCH BASIN	IWGMH WG# INPLACE WATER/GAS MANHOLE	PCB # PROPOSED CATCH BASIN	PWGMH WG# PROPOSED WATER/GAS MANHOLE
IMH # INPLACE DRAINAGE MANHOLE	IMHST # INPLACE STEAM MANHOLE	PMH # PROPOSED DRAINAGE MANHOLE	PMHST # PROPOSED STEAM MANHOLE
ISMH # INPLACE SANITARY MANHOLE	IGMH G# INPLACE GAS ONLY MANHOLE	PSMH # PROPOSED SANITARY MANHOLE	PGMH G# PROPOSED GAS ONLY MANHOLE
TMH # INPLACE TELEPHONE MANHOLE	IPMH P# INPLACE POWER MANHOLE	PTMH # PROPOSED TELEPHONE MANHOLE	PPMH P# PROPOSED POWER MANHOLE



LHB
PERFORMANCE DRIVEN DESIGN.
LHDesign.com
PROJ. NO. 210744
21 W. Superior St., Ste. 500 | Duluth, MN 55802 | 218.727.8446

DESIGN DESIGNATION

PROJECT	2022
ADT (CURRENT YEAR) 2022	1593
ADT (FUTURE YEAR) 2042	1912
HCADT (CURRENT)	--
HCADT (FUTURE)	--
STRUCTURE DESIGN	N/A
SOIL FACTOR	130
DESIGN SPEED	N/A
CLASSIFICATION	COLLECTOR

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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

PROJECT ENGINEER
KYLE D. MARYNIK
PROJECT ENGINEER (TYPED OR PRINTED NAME) DATE LIC. No.

CITY APPROVALS:
APPROVED CHIEF ENGINEER OF TRANSPORTATION DATE
APPROVED CHIEF ENGINEER OF UTILITIES DATE
APPROVED CITY ENGINEER DATE