

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	=====

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	⊗

CITY OF DULUTH

DEPARTMENT OF PUBLIC WORKS AND UTILITIES
ENGINEERING DIVISION

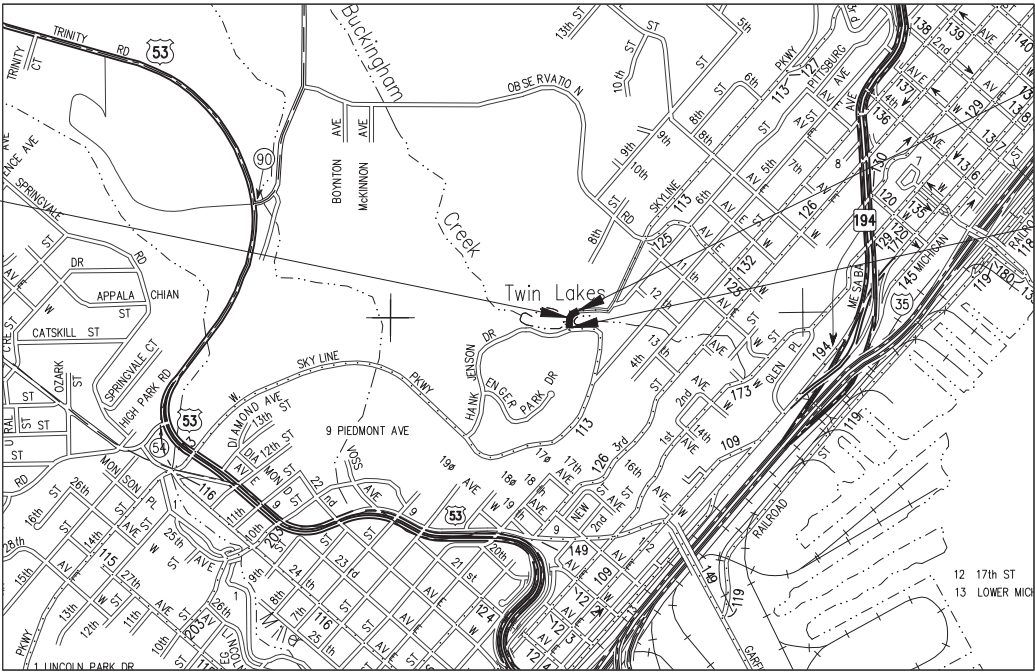
CONSTRUCTION PLANS FOR: REPAIR OF BRIDGE L6127 (TWIN PONDS) & STONE MASONRY RETAINING WALL RESTORATION ALONG SKYLINE PARKWAY.

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.

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

REPAIR EXISTING BRIDGE NO. L6127



END PROJECT
STA. 11+85.00

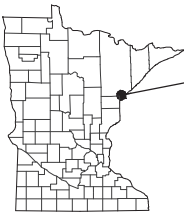
BEGIN PROJECT
STA. 10+50.00

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

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

INDEX MAP

SCALE: 0 1200'



PROJECT LOCATION:
CITY OF DULUTH
ST. LOUIS COUNTY
SEC. 28 & 33, T50N, R14W

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 T#	INPLACE TELEPHONE MANHOLE	IPMH P#	INPLACE POWER MANHOLE	PTMH T#	PROPOSED TELEPHONE MANHOLE	PPMH P#	PROPOSED POWER MANHOLE

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

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

Kyle D. Marynik
PROJECT ENGINEER

KYLE D. MARYNIK 04/13/2022 54802
PROJECT ENGINEER (TYPEFD OR PRINTED NAME) DATE LIC. No.

DocuSigned by:

Kyle D. Marynik 4/14/2022
DocuSigned by: DATE

Eric R. Schaffner ENGINEER OF TRANSPORTATION 4/15/2022
DocuSigned by: DATE

Cindy Vaigt ENGINEER OF UTILITIES 4/15/2022
DocuSigned by: DATE

3CE89AC02DB8436... CITY ENGINEER