

PLAN SYMBOLS

SECTION SUBDIVISION LINE

EXISTING R/W

NEW R/W

TEMP EASE

RAILROAD R/W

ROAD SHOULDER

EDGE OF LAKE

SWAMP BOUNDARY

MISCELLANEOUS BOUNDARY

CORPORATE OR CITY LIMITS

PROPERTY LINE

RECREATIONAL TRAIL

ROAD ALIGNMENT

ALIGNMENT POINTS

RIVER OR CREEK

DRAINAGE DITCH

BRIDGE

RAILROAD (SINGLE TRACK)

RR CROSSING PAVEMENT MARKING

RR CROSSING GATE

RR CROSSBUCK SIGN

RR CROSSBUCK SIGN W/LIGHTS

BARBED WIRE FENCE

CHAIN LINK FENCE

WOVEN WIRE, COMBINATION WOVEN AND BARB

WOOD FENCE

BILLBOARD

RETAINING WALL

GUARDRAIL (CABLE)

GUARDRAIL (PLATE BEAM)

DRAIN TILE

CULVERT

CULVERT WITH APRONS

TREELINE OR BRUSHLINE

DECIDUOUS TREES

CONIFER (EVERGREEN) TREES

HEDGE

BUSH OR SHRUB

SWAMP OR MARSH

MONUMENT (C/ACT,ACP,BCP,...)

CONCRETE OR STONE MONUMENT

IRON PIPE, PIN OR REBAR

IRON PIN WITH BRASS DISK

NAIL, PK NAIL, SPIKE, SFP, T-BAR, ...

VERTICAL CONTROL

HORIZONTAL CONTROL

POWER POLE

LIGHT POLE

LIGHT AND TELEPHONE POLE

LIGHT TELEPHONE AND POWER POLE

GUY POLE

POLE ANCHOR

TELEPHONE POLE

TELEPHONE AND POWER POLE

UNDERGROUND UTILITY PEDESTAL

TELEPHONE MANHOLE (VAULT)

ELECTRIC CABLE IN CONDUIT

TELEPHONE CABLE IN CONDUIT

BURIED ELECTRIC CABLE

BURIED TELEPHONE CABLE

GAS LINE

WATER LINE

VALVE

FIRE HYDRANT

WATER MANHOLE

WELL

LAWN SPRINKLER HEAD

MANHOLE

CATCH BASIN

SEPTIC TANK

FORCE MAIN LIFT STA.

SEWER LINE

PERMANENT BARRICADE

TRAFFIC SIGNAL LIGHT

HAND HOLE

ENTRANCE

BUILDING

SATELLITE DISH

STEEL TOWER

FLAG POLE

SIGN

TYPE III BARRICADE

CHANNELIZING DEVICE

TYPE A WARNING LIGHT

MINNESOTA DEPARTMENT OF TRANSPORTATION

SAINT LOUIS COUNTY

CONSTRUCTION PLAN FOR: MILL BITUMINOUS PAVEMENT, PLANT MIXED BITUMINOUS SURFACE, AND CONCRETE WALK

LOCATED ON C.S.A.H. 14 (BOUNDARY AVE. IN PROCTOR)

BETWEEN MOUNTAIN DRIVE AND 5TH ST. IN PROCTOR

FROM A POINT 1449' N. & 1088' W. OF THE SOUTH EAST CORNER OF SECTION 15, T49N, R15W TO A POINT 638' SOUTH OF THE NORTH EAST CORNER OF SECTION 10, T49N, R15W

STATE AIDE PROJ. NO. 069-614-017

GROSS LENGTH	9,137.88	FEET	1,731	MILES
BRIDGES-LENGTH	294.21	FEET	0.056	MILES
EXCEPTIONS-LENGTH	406.15	FEET	0.077	MILES
NET LENGTH	8,436.52	FEET	1.598	MILES

INDEX MAP

SCALE INDEX MAP

INDEX MAP

PLAN REVISIONS

DATE	SHEET NO.	APPROVED BY

MINN. PROJ. NO.

GOVERNING SPECIFICATIONS

THE 2016 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MUTUOCD, INCLUDING THE FIELD MANUAL DATED JANUARY 2016 AVAILABLE AT: <http://www.dot.state.mn.us/trafficeng/publ/fieldmanual/index.html>

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET AND INDEX MAP
2	ESTIMATED QUANTITIES
3-4	TYPICAL SECTIONS
5-8	CONSTRUCTION CHARTS
9	CONSTRUCTION DETAILS
10-14	PED. RAMPS
15-16	PLAN SHEETS
17-19	TRAFFIC CONTROL DETAILS
20-21	PAVEMENT MARKING DETAILS

THIS PLAN CONTAINS 21 SHEETS

DESIGN DESIGNATION

ADT (Current Year)	2017	=	4055
ADT (Future Year)	2037	=	5272
D (Directional Distr.)		=	50/50%
T (Heavy Commercial - 3.6%)		=	188
Traffic Lane Width		=	12.0'
Shoulder Width		=	VAR.
Functional Classification		=	MINOR ART. IN URB. BNDRY
Urban Reconditioning	sta. 162+13.01 to sta. 253+50.89		

DESIGNERS DULUTH CONSTR. (S. RUHANEN, J. ISACKSON)

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DUTY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: STEPHEN E. KRASAWAY

SIGNATURE: _____

DATE: _____ LIC. NO. 45397

APPROVED _____ ST. LOUIS CO. HWY. ENGINEER DATE _____

SHEET NO. 1 OF 21 SHEETS