

PLAN SYMBOLS

- COUNTY LINE
- TOWNSHIP OR RANGE LINE
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- EXISTING R/W
- NEW R/W
- TEMP EASE
- RAILROAD R/W
- UNSURFACED RD. OR S.H.D.
- EDGE OF LAKE
- SWAMP BOUNDARY
- MISCELLANEOUS BOUNDARY
- CORPORATE OR CITY LIMITS
- ALIGNMENT STATIONS
- ALIGNMENT POINTS
- PROPERTY LINES
- VACATED PLATTED PROPERTY
- RIVER OR CREEK
- DRAINAGE DITCH
- BRIDGE
- RECREATIONAL TRAIL
- RAILROAD (SINGLE TRACK)
- RR CROSSING PAVEMENT MARKING
- RR CROSSING SIGN AND GATE
- RR CROSSBUCK SIGN
- RR CROSSBUCK SIGN W/LIGHTS
- RR SWITCH
- BARBED WIRE FENCE
- CHAIN LINK FENCE
- WOVEN WIRE, OR WOVEN AND BARB
- WOOD FENCE
- BILLBOARD
- GUARD POST
- RETAINING WALL
- GUARDRAIL (CABLE)
- GUARDRAIL (PLATE BEAM)
- DRAIN TILE
- FLUME
- CULVERT APRON
- CULVERT
- WOODS OR BRUSH NURSERY
- DECIDUOUS TREES
- CONIFER (EVERGREEN) TREES
- HEDGE
- BUSH OR SHRUB
- STUMP
- SWAMP OR MARSH
- CONCRETE OR STONE MONUMENT
- IRON PIPE
- CAST IRON OR CAPPED PIPE MONUMENT
- HUB
- NAIL OR SPIKE OR PKNAIL
- IRON PIN OR REBAR
- IRON PIN WITH BRASS DISK
- 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 CABLE PEDESTAL
- TELEPHONE OR POWER MAN-HOLE (VAULT)
- ELECTRIC CABLE IN CONDUIT
- TELEPHONE CABLE IN CONDUIT
- BURIED ELECTRIC CABLE
- BURIED TELEPHONE CABLE
- GAS LINE
- GAS METER
- WATER LINE
- VALVE
- FIRE HYDRANT
- WATER MAN-HOLE
- WELL
- LAWN SPRINKLER HEAD
- STORM SEWER MAN-HOLE
- SEPTIC TANK
- SANITARY SEWER MAN-HOLE
- CATCH BASIN
- FORCE MAIN JCT STA.
- SEWER LINE
- BARRICADE
- SIGN
- TRAFFIC SIGNAL W/MAST ARM
- PED. PUSH-BUTTON STA.
- HAND HOLE
- YARD LIGHT
- ENTRANCE
- BUILDING
- SATELLITE DISH
- STEEL TOWER
- FLAG POLE

MINNESOTA DEPARTMENT OF TRANSPORTATION

SAINT LOUIS COUNTY

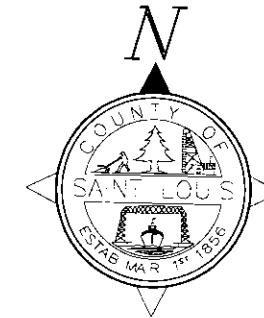
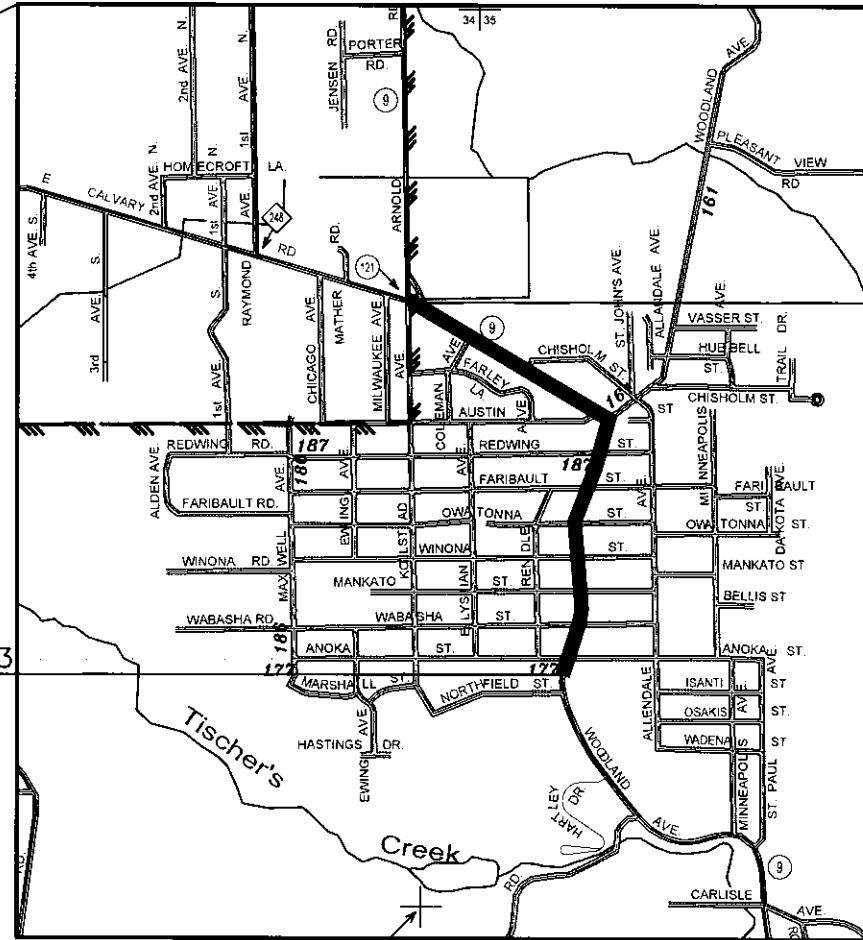
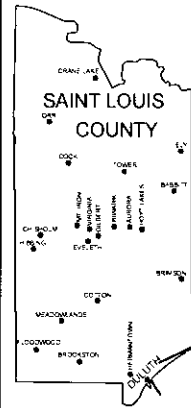
CONSTRUCTION PLAN FOR: GRADING, STORM SEWER, AGGREGATE BASE, CURB AND GUTTER,
PLANT MIXED BITUMINOUS SURFACE, SIDEWALKS, RETAINING WALLS.

LOCATED ON C.S.A.H. 9 (WOODLAND AVE. & CALVARY RD.)
BETWEEN ANOKA ST. AND ARNOLD RD.
FROM A POINT APPROX. 2510' NORTH & 1595' EAST OF THE TO A POINT APPROX. 2652' WEST & 3989' SOUTH OF
SOUTHWEST CORNER OF SEC. 02, T50N, R14W. THE SOUTH 1/4 CORNER OF SEC. 26, T51N, R14W.

STATE AID PROJ. NO. 069-609-043

GROSS LENGTH	5364.33	FEET	1.016	MILES
BRIDGES-LENGTH	0.00	FEET	0.000	MILES
EXCEPTIONS-LENGTH	0.00	FEET	0.000	MILES
NET LENGTH	5364.33	FEET	1.016	MILES

GENERAL LAYOUT
R14W



END S.A.P. 069-609-043
STA. 135+14.33

BEGIN S.A.P. 069-609-043
STA. 81+50.00

SCALES	
PLAN	20 ft.
PROFILE	50 ft. HORIZ.
	10 ft. VERT.
INDEX MAP	30 mi.
GENERAL LAYOUT	0.25 mi.

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY

PREVIOUS PLANS	

STATE AID PROJ. NO. 069-609-043 CP 0009-275996

MINN. PROJ. NO.

GOVERNING SPECIFICATIONS
THE 2018 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.htm>

INDEX OF SHEETS

DESIGN DESIGNATION - URBAN

R VALUE	10	ΣN1820 =	1,166,852
ADT (Current Year)	2019	=	7,135
ADT (Future Year)	2039	=	7,848
D (Directional Distr.)		=	50/50%
T (Heavy Commercial 3.6%)		=	280
Proj. Soil Factor		=	130 (R=10)
Design Loading		=	10 TON
Traffic Lanes		=	11.0'
Center Turn Lane		=	12.0'
Bike Lanes		=	6.0'
Functional Class		=	Major Collector
Design Speed		=	30 mph

Based on STOPPING Sight Distance
Height Of Eye 3.5' Height of object 2.0'
DESIGN DESIGNATION - 8820.9936 (URBAN)
Urban Reconstruction sta. 81+50.00 to 135+14.33

DESIGN SQUAD: SOUTH DESIGN
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: STEPHEN E. KRASAWAY

SIGNATURE: _____

DATE: _____ LIC. NO.: 45397

APPROVED: _____ DATE: _____

ST. LOUIS COUNTY HIGHWAY ENGINEER

DISTRICT STATE AID ENGINEER: REVIEWED FOR
COMPLIANCE WITH STATE AID RULES/POLICY

STATE AID ENGINEER: APPROVED FOR STATE AID FUNDING

SHEET 1 OF XXX SHEETS