

PLAN SYMBOLS

COUNTY LINE	---
TOWNSHIP OR RANGE LINE	----
SECTION LINE	=====
QUARTER LINE	=====
SIXTEENTH LINE	=====
EXISTING R/W	=====
NEW R/W	=====
TEMP. FASE	=====
RAILROAD R/W	=====
UNSURFACED RD. OR SHOULDER	=====
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 SIGNAL AND GATE	=====
RR CROSSBUCK SIGN	=====
RR CROSSBUCK SIGN W/ LIGHTS	=====
RR SWITCH	=====
BARBED WIRE FENCE	=====
CHAIN LINK FENCE	=====
WOVEN WIRE, OR WOVEN AND BARE	=====
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	=====
FLU	=====
NAIL OR SPIKE OR PK NAIL	=====
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 IN STA	=====
SEWER IN STA	=====
BARRICADE	=====
SIGN	=====
TRAFFIC SIGNAL W/ MAJOR	=====
RED PUSH BUTTON STA.	=====
HAND HOIST	=====
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.)

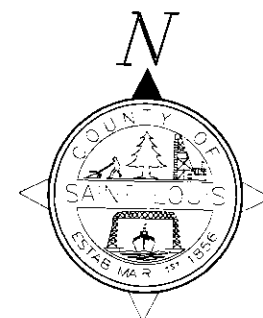
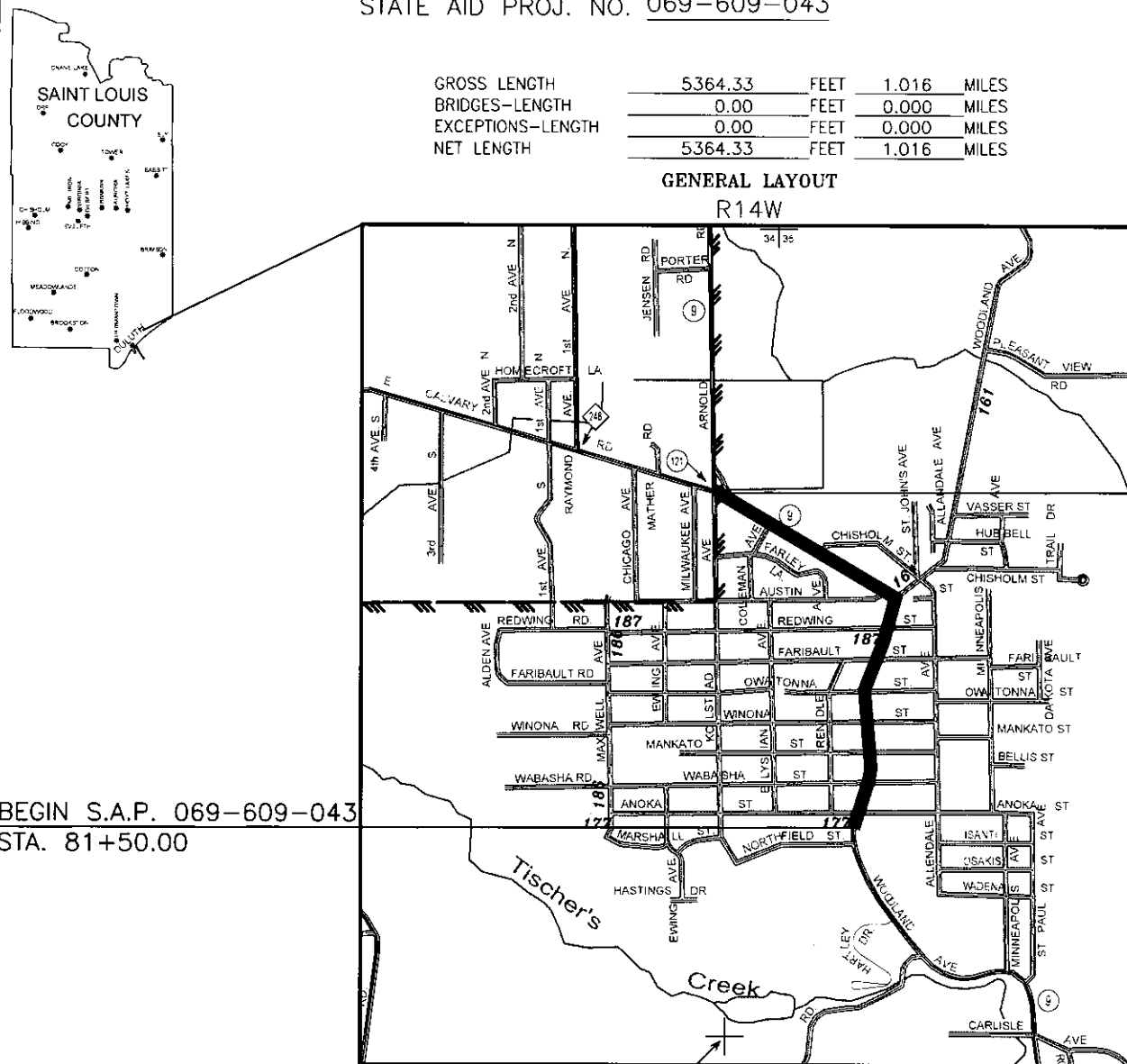
BETWEEN ANOKA ST. AND ARNOLD RD.

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

T51N

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

SCALES

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

PLAN REVISIONS

DATE	SHEET NO.	APPROVED BY

PREVIOUS PLANS

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-setting/spec/index.htm>

INDEX OF SHEETS

DESIGN DESIGNATION - URBAN

R VALUE	10	Σ N1820	=	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

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

PRINT NAME: STEPHEN E. KRASAWAY

SIGNATURE: _____

DATE: _____ L.C. 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

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

SHEET 1 OF XXX SHEETS

COUNTY LINE _____
TOWNSHIP OR RANGE LINE _____
SECTION LINE _____
QUARTER LINE _____
SIXTEENTH LINE _____
EXIST'G R/W _____
NEW R/W _____
TEMP CASE _____
RAILROAD R/W _____
UNSURFACED RD. OR SHOUL. _____
EDGE OF LAKE _____
SWAMP BOUNDARY _____
MISCELLANEOUS BOUNDARY _____
CORPORATE OR CITY LIMITS _____
ALIGNMENT STATIONS _____

65

234 - S - - C
TOWER X
C - -

CONSTRUCTION PLAN FOR: STORM SEWER, BITUMINOUS RECLAMATION, AGGREGATE BASE, GRADING,
CURB & GUTTER, AND PLANT MIXED BITUMINOUS SURFACE.

BETWEEN CALVARY RD.

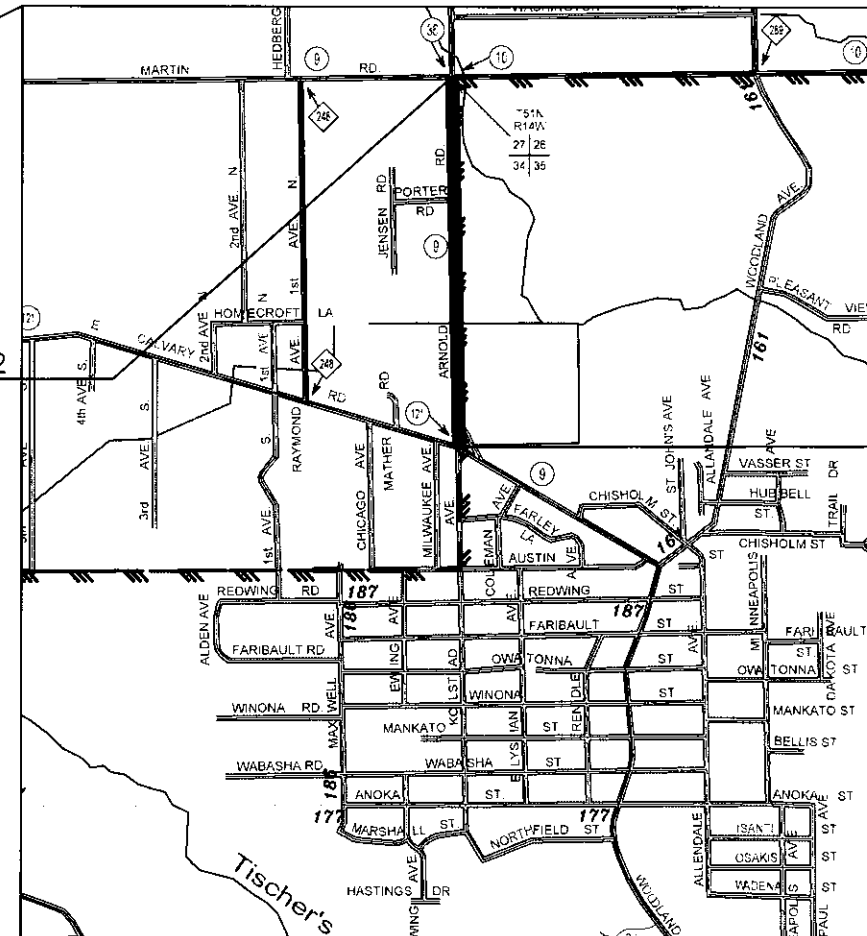
AND MARTIN RD.

THE SOUTH 1/4 CORNER OF SEC. 26, T51N, R14W. OF SECTION 26, T51N, R14W.

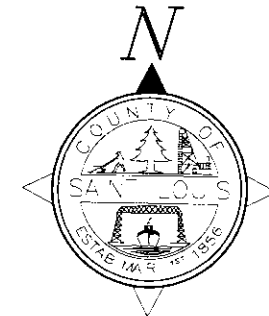
[illegible]

GROSS LENGTH	3989.31	FEET	0.756	MILES
BRIDGES-LENGTH	0.00	FEET	0.000	MILES
EXCEPTIONS-LENGTH	0.00	FEET	0.000	MILES
NET LENGTH	3989.31	FEET	0.756	MILES

R14W



BEGIN S.A.P. 069-609-042
STA. 135+14.33



T51N

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

[illegible]

PREVIOUS PLANS	

GOVERNING SPECIFICATIONS
THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION
"STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN..

AVAILABILITY: <http://www.col.state.mn.us/pre-etting/spec/index.htm>

DESIGN DESIGNATION — URABN

R VALUE	<u>10</u>	$\Sigma N1820$	=	<u>358,390</u>
ADT (Current Year)		2019	=	<u>2,191</u>
ADT (Future Year)		2039	=	<u>2,411</u>
D (Directional Distr.)			=	<u>50/50%</u>
T (Heavy Commercial 3.6%)			=	<u>86</u>
Proj. Soil Factor			=	<u>130 (R=10)</u>

Design Loading = 10 TON

Traffic Lanes	=	<u>12.0'</u>
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Shoulder Width	=	10.0'
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Functional Class	=	Minor Collector
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Design Speed	=	40 mph
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Based on STOPPING Sight Distance

Height Of Eye 3.5' Height of object 2.0'

Urban Reconstruction sta. 135+14.33 to sta. 175+03.64

DES GN SQUAD: SOU- DES GN

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: _____ J.C. NO.: 45397

APPROVED: _____
ST. LOUIS COUNTY - C-WAY ENGINEER

DISTRICT STATE AD ENGINEER: REVIEWED FOR
COMPLIANCE WITH STATE-AD RULES/POLICY

STATE AD ENGINEER APPROVED FOR STATE AD FUNDING

STATE AID PRO. NO. 069-609-042	CP 0009-275995
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SHEET 1 OF XXX SHEETS