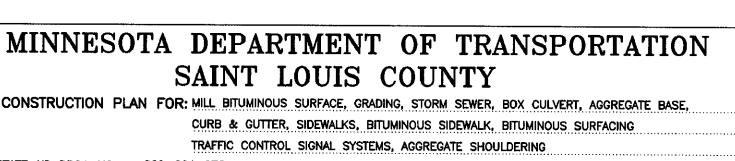
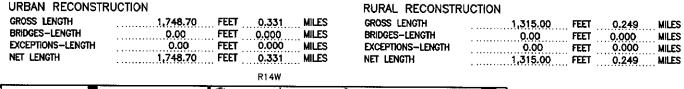


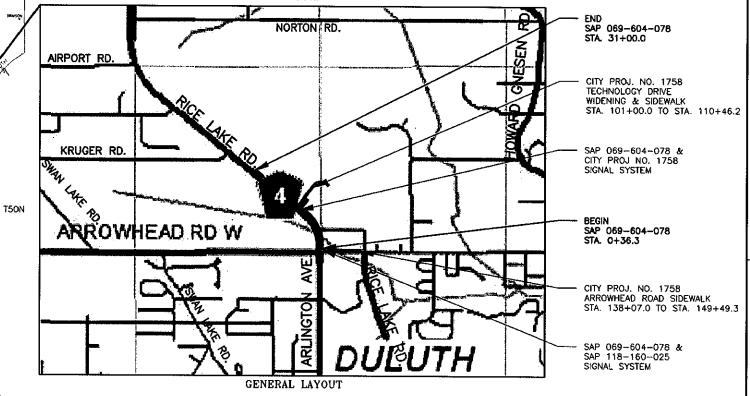
PLAN SYMBOLS



STATE AID PROJ. NO. 069-604-078 CSAH 4 (RICE LAKE ROAD) BETWEEN CSAH 32 (W. ARROWHEAD RD.) & 941' SOUTH EAST OF KRUGER ROAD LOCATED ON STATE AID PROJ. NO. 118-160-025 TRAFFIC SIGNAL AT CSAH 4 (RICE LAKE ROAD), CSAH 32 (W. ARROWHEAD RD.) & MSAS 160 (ARROWHEAD ROAD) LOCATED ON CITY PROJECT NO.

MSAS 160 (ARROWHEAD ROAD) BETWEEN CSAH 4 (RICE LAKE ROAD) & CSAH 4 (S. RICE LAKE ROAD) LOCATED ON > INDEX MAP & TECHNOLOGY DRIVE BETWEEN CSAH 4 (RICE LAKE ROAD) & A POINT 1,050' FROM INTERSECTION





	SCA	LES
GENERAL LAYOUT	0	1/2 MILE
INDEX MAP	0	60 MILES
PLAN VIEW	<u> </u>	30 FT.
PROFILE VIEW	0	50 FT. 0 10 FT.
CROSS SECTION	HORIZONTAL	VERTICAL 20 FT.

SAINT LOUISI

COUNTY

PLAN REVISIONS		PREVIOUS PLANS		
ATE	SHEET NO.	APPROVED BY	1967	SAP 69-604-15
			1983	SP 69-604-34
			1994	SAP 69-604-49, 50 & 51
			2000	SAP 69-604-058
			2000	SAP 69-604-058
			2009	SP 69-604-066
			2011	SAP 69-604-065
			2011	SAP 69-604-065

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.html

INDEX OF SHEETS

1 2-4	TITLE SHEET ESTIMATED QUANTITIES
2-4 5	STANDARD PLATES, BASIS FOR ESTIMATED QUANTITIES
6-9	TYPICAL SECTIONS
10-21	CONSTRUCTION DETAILS
22-27	QUANTITY TABULATIONS
28-37	STORM SEWER PLAN AND DETAILS
38-46	BOX CULVERT PLAN AND DETAILS
47-57	EXISTING & REMOVAL PLAN
58-68	PLAN SHEETS
69-72	GEOMETRIC DETAILS
73-75	PROFILE SHEETS
76-95	EROSION CONTROL PLAN AND DETAILS (SWPPP)
96-101	TRAFFIC CONTROL
102-110	PAVEMENT MARKINGS
111-120	SIGNING PLAN
121-154	CROSS SECTIONS
SS1-SS28	SIGNAL PLAN

- THIS PLAN CONTAINS ## SHEETS -

DESIGN DESIGNATION - 8820.9936 (URBAN) URBAN RECONSTRUCTION STA. 00+36.3 TO STA. 15+50.0

DESIGN DESIGNATION - 8820.9920 (RURAL)

RURAL RECONSTRUCTION STA. 15+50.0 TO STA. 31+00.0

		. ~ ~	
R VALUE	20	=	$\Sigma N18_{20} = 1.864,421$
ADT (CURRENT YEAR)	2020	=	11,400
ADT (FUTURE YEAR)	2040	=	12,279
D (DIRECTIONAL DISTR.)		=	50/50%
T (HEAVY COMMERCIAL 1	2.0%)	=	1,505
PROJ. SOIL FACTOR		=	100 (R=20)
DESIGN LOADING		=	10 TON
TRAFFIC LANES		==	12.0'
SHOULDER WIDTH		=	Var.
CURB TO CURB WIDTH		=	Var.
FUNCTIONAL CLASS		=	Minor Arterial
DESIGN SPEED		=	45 mph
DESIGN SPEED AT STOP	CONDITION		•
STOPPING SIGHT DISTANC	E BASED OF	V	
3.5' HEIGHT OF EYE AND	2' HEIGHT	OF	OBJECT

DESIGN SQUAD: SOUTH DESIGN (A. LAPLANTE, J. RUST)

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:	ST. LOUIS COUNTY HIGHWAY ENGINEER	DATE:
		DATF:

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

STATE AID ENGINEER: APPROVED FOR STATE AID FUNDING

SHEET NO.

CP 0004-342005

SAP 069-604-078