

K:\Projects\81 - 120 CSAH\CSAH 91\CP 0091-401108\400 Design\410 Drawings\520 Sheets\CP 0091-401108 Title sheet.dwg

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	110-----112
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 (CI,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 II BARRICADE	=====
CHANNELIZING DEVICE	=====
TYPE A WARNING LIGHT	=====

MINNESOTA DEPARTMENT OF TRANSPORTATION SAINT LOUIS COUNTY

CONSTRUCTION PLAN FOR: MILL BITUMINOUS SURFACE, ADA PEDESTRIAN IMPROVEMENTS, CONCRETE CURB & GUTTER, CONCRETE SIDEWALK, AND PLANT MIXED BITUMINOUS SURFACE

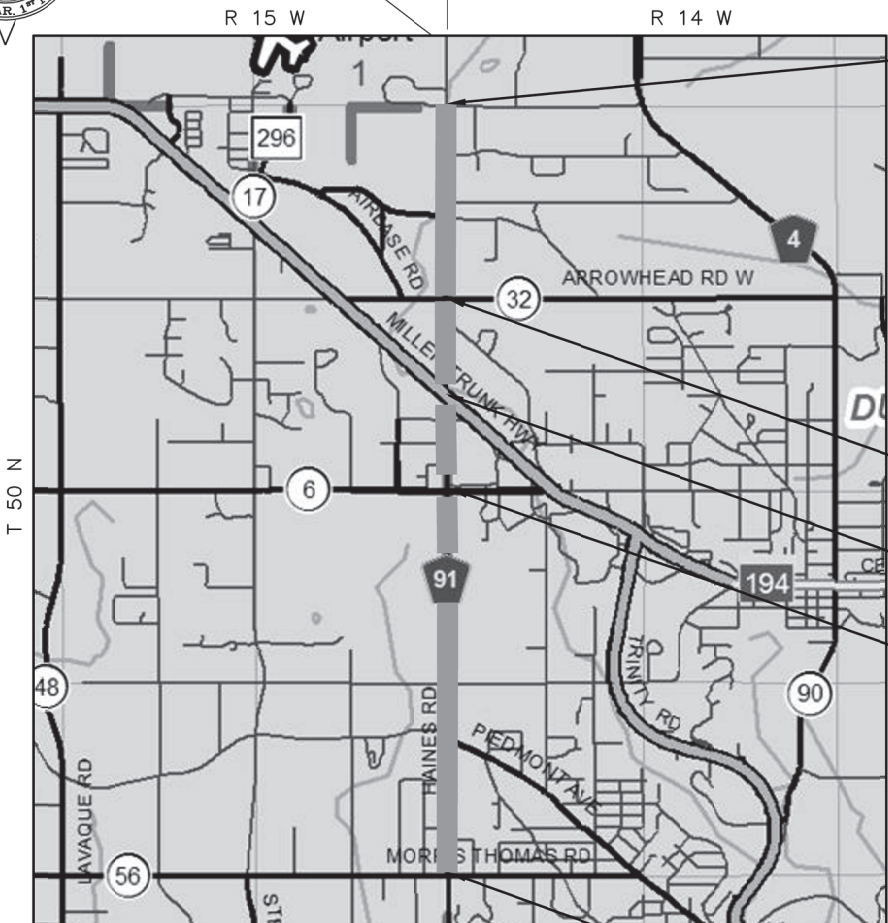
LOCATED ON CSAH 91 (HAINES RD)
BETWEEN CSAH 56 (MORRIS THOMAS RD) AND AIRPORT RD

FROM APPROXIMATELY 50' NORTH OF THE SE CORNER OF SEC. 25, T50N, R15W. TO APPROXIMATELY 16' NORTH OF THE NE CORNER OF SEC. 12, T50N, R15W.

STATE PROJ. NO. 069-691-033

GROSS LENGTH	21,115.00	FEET	3.999	MILES
BRIDGES-LENGTH	0.00	FEET	0.000	MILES
EXCEPTIONS-LENGTH	649.00	FEET	0.123	MILES
NET LENGTH	20,466.00	FEET	3.876	MILES

GENERAL LAYOUT



END SP 069-691-033
STA. 211+65

EXCEPTION
STA. 157+88 TO 159+13

EXCEPTION
STA. 130+24 TO 133+98

EXCEPTION
STA. 105+00 TO 106+50

BEGIN SP 069-691-033
STA. 0+50

SCALE

INDEX MAP 0 1.0 MILE

PREVIOUS PLANS	
1989	SAP 69-691-08 / CP 8068
1985	SP 69-691-02 / CP 8053
1985	SP 69-691-04 / CP 8074
1986	SP 69-691-06 / CP 8076
2009	SP 69-691-21 / CP 8272

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY

SP 069-691-033

CP 0091-401108

MINN. PROJ. NO. XXXX

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/index.html>

ALL TRAFFIC CONTROL SIGNING AND DEVICES SHALL CONFORM TO AND BE PLACED IN ACCORDANCE WITH THE MINNESOTA "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MMUTCD) INCLUDING PART VI, THE CURRENT FIELD MANUAL, THE MINNESOTA STANDARD SIGNS MANUAL PARTS I, II, III, AND APPROPRIATE MATERIAL SPECIFICATIONS.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THE QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDLINES OF CI/ASCE 38-02 ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET AND INDEX MAP
2	STATEMENT OF ESTIMATED QUANTITIES
3-4	TYPICAL SECTIONS
5-6	QUANTITY CHARTS
7-9	RUMBLE STRIP DETAILS
10	PAVEMENT MARKINGS
11-12	TRAFFIC CONTROL

THIS PLAN CONTAINS ---- SHEETS

DESIGN DESIGNATION

ADT (CURRENT YEAR)	2023	=	10,804
ADT (FUTURE YEAR)	2043	=	11,884
D (DIRECTIONAL DISTR.)		=	50/50%
T (HEAVY COMMERCIAL 3.6%)		=	424
PROJ. SOIL FACTOR		=	100
DESIGN LOADING		=	9 TON
TRAFFIC LANES		=	(2) 12.0'
PARKING LANE WIDTH		=	(2) 10.0' - 12.0'
CURB TO CURB WIDTH		=	44.0' - 48.0'
FUNCTIONAL CLASS		=	MINOR ARTERIAL
DESIGN SPEED		=	40 - 45 mph
BASED ON STOPPING SIGHT DISTANCE			
3.5' HEIGHT OF EYE AND 2' HEIGHT OF OBJECT			

DESIGNERS SOUTH DESIGN (ZB, AL)

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 _____

DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE AID RULES AND POLICIES DATE _____

STATE AID ENGINEER: APPROVED FOR FEDERAL AND STATE AID FUNDING DATE _____

SHEET NO. 1 OF ---- SHEETS