

# MINNESOTA DEPARTMENT OF TRANSPORTATION

## ANOKA COUNTY

### PLANS SYMBOLS

STATE LINE	---
COUNTY LINE	---
TOWNSHIP OR RANGE LINE	---
SECTION LINE	---
QUARTER LINE	---
SIXTEENTH LINE	---
RIGHT-OF-WAY LINE	---
PRESENT RIGHT-OF-WAY LINE	---
CONTROL OF ACCESS LINE	---
PROPERTY LINE (EXCEPT LEASE LINES)	---
VACATED PLATTED PROPERTY	---
CORPORATE OR CITY LIMITS	---
TRUNK HIGHWAY CENTER LINE	---
RETAINING WALL	---
RAILROAD RIGHT-OF-WAY LINE	---
RIVER OR CREEK	---
DRY RUN	---
DRAINAGE DITCH	---
DRAIN TILE	---
COVERT	---
DROP INLET	---
GUARD RAIL	---
WOODEN WIRE FENCE	---
CHAIN LINK FENCE	---
RAILROAD SNOW FENCE	---
STONE WALL OR FENCE	---
HEDGE	---
RAILROAD CROSSING SIGN	---
RAILROAD CROSSING BELL	---
ELECTRIC WARNING SIGN	---
CROSSING GATE	---
MEANDER CORNER	---
SPRINGS	---
MANISH	---
TIMBER	---
ORCHARD	---
BRUSH	---
MUNICIPALITY	---
CATCH BASIN	---
FIRE HYDRANT	---
CATTLE GUARD	---
OVERPASS (Highway Over)	---
UNDERPASS (Highway Under)	---
BRIDGE	---
BUILDING (One Story Frame)	---
CONCRETE	---
STEEL	---
BRICK	---
ST - STUCCO	---
IRON PIPE OR ROD	---
MONUMENT (STONE, CONCRETE, OR METAL)	---
WOODEN PILE	---
GRAVEL PIT	---
SAND PIT	---
BORROW PIT	---
ROCK QUARRY	---

POWER POLE LINE	---
TELEPHONE OR TELEGRAPH	---
POLE LINE	---
JOINT TELEPHONE AND POWER	---
ON POWER POLES	---
ON TELEPHONE POLES	---
ANCHOR	---
STEEL TOWER	---
STREET LIGHT	---
PEDESTAL TELEPHONE CABLE TERMINAL	---
GAS MAIN	---
WATER MAIN	---
CONDUIT	---
TELEPHONE CABLE IN CONDUIT	---
ELECTRIC CABLE IN CONDUIT	---
TELEPHONE MANHOLE	---
ELECTRIC MANHOLE	---
BURIED TELEPHONE CABLE	---
BURIED ELECTRIC CABLE	---
AERIAL TELEPHONE CABLE	---
SEWER (SANITARY OR STORM)	---
SEWER MANHOLE	---

### SCALES

PLAN	1" = 50'
PROFILE	1" = 10'
INDEX MAP	1" = 2.56 MI.
CROSS SECTION	1" = 10'

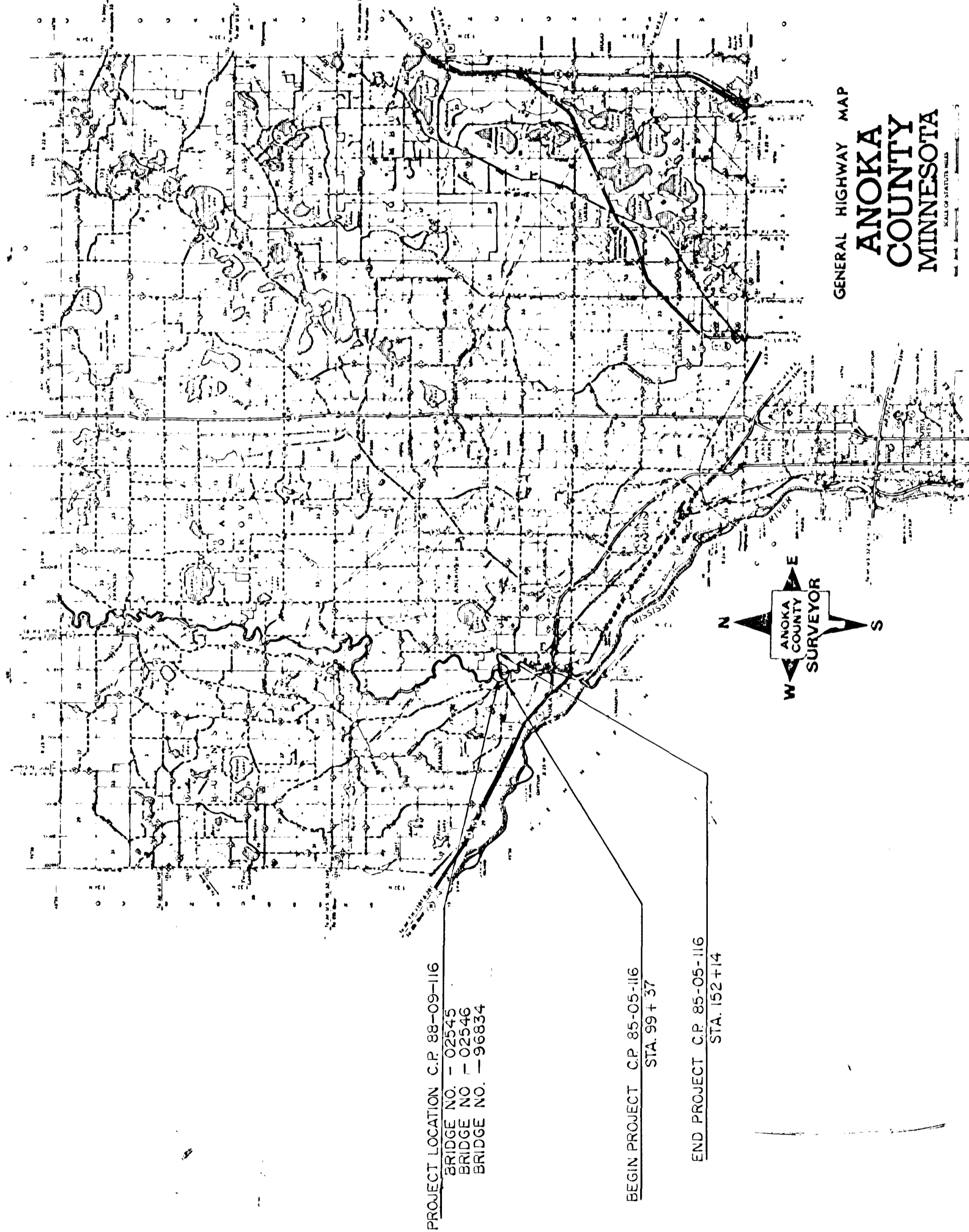
### CONSTRUCTION PLAN FOR

STORM SEWER, GRADING, BASE & BITUMINOUS PAVING, BRIDGE CONSTRUCTION

LOCATED ON C.R. 116, RUM RIVER CROSSING BETWEEN T.H. # 47 AND C.S.A.H. # 7 (Geographic Description)  
 COUNTY PROJECT NO. 85-05-116 FROM (Legal Description)  
 COUNTY PROJECT NO. 88-09-116 TO STATE AID PROJ. NO.

STATE AID PROJ. NO. 85-05-116

GROSS LENGTH	5277.000	FEET	0.955	MILES
BRIDGES-LENGTH	724.990	FEET	0.137	MILES
EXCEPTIONS-LENGTH	724.990	FEET	0.137	MILES
NET LENGTH	4522.010	FEET	0.862	MILES



### INDEX

SHEET NO. 1	TITLE SHEET
" 2	STATEMENT ESTIMATED QUANTITIES
" 3	TYPICAL DETAILS
" 4	CONCRETE DETAILS & MISC. DETAILS
" 5	GUARD RAIL DETAILS
" 6	PLANTING DETAILS
" 7	DRAINAGE CHART
" 8-9	STORM DETAILS
" 10	SUPERELEVATION CHART
" 11-12	MITIGATION POND DETAILS
" 13-16	PLAN & PROFILE SHEETS
" 17-21	WATERMAIN DETAILS
" 22-32	CROSS SECTION SHEETS

C.P. 85-05-116	" IA-46A BRIDGE NO. 02545
" "	" IB-36B BRIDGE NO. 02546
" "	" IC-10C BRIDGE NO. 96834

THIS PLAN CONTAINS 124 SHEETS

### DESIGN DESIGNATION

ΣN18.20	R Value
ADT ( ) =	19,150
Proj. ADT (2010) =	1100 +
Proj. HCADT (2010) =	50%
Soil Factor	9
Ton Design	10
Shoulder Width	40

Design Speed	40 MPH
Based on	STOPPING Sight Distance
Height of eye	3.5' Height of object 0.5'
Design Speed not achieved at:	
STA	TO STA MPH
STA	TO STA MPH
STA	TO STA MPH

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

DATE 9/29/89 REG. NO. 5549 ENGR. *James K. [Signature]*  
 COUNTY Anoka

Recommended for Approval DISTRICT STATE AID ENGINEER 19  
 Recommended for Approval STATE AID PLANS AND SPECS ENGINEER 19  
 Approved 19 STATE AID ENGINEER

DEPARTMENT OF TRANSPORTATION  
 FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ADMINISTRATOR DATE