

MINNESOTA DEPARTMENT OF TRANSPORTATION

ANOKA COUNTY

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 TO (Legal Description)
 COUNTY PROJECT NO. 88-09-116

STATE AID PROJ. NO. STATE AID PROJ. NO.

GROSS LENGTH	5277.000	FEET	0.999	MILES	GROSS LENGTH	FEET	MILES
BRIDGES-LENGTH	724.990	FEET	0.137	MILES	BRIDGES-LENGTH	FEET	MILES
EXCEPTIONS-LENGTH	724.990	FEET	0.137	MILES	EXCEPTIONS-LENGTH	FEET	MILES
NET LENGTH	4522.010	FEET	0.862	MILES	NET LENGTH	FEET	MILES

MINN. PROJ. NO. _____
 MINN. PROJ. NO. _____

GOVERNING SPECIFICATIONS

THE 1988 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

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	SHEET NO. 1	TITLE SHEET
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	" 3	TYPICAL DETAILS
	" 4	CONCRETE DETAILS & MISC. DETAILS
	" 5	GUARD RAIL DETAILS
	" 6	PLANTING DETAILS
C.P. 85-05-116	" 7	DRAINAGE CHART
	" 8-9	STORM DETAILS
	" 10	SUPERELEVATION CHART
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	" 17-21	WATERMAIN DETAILS
	" 22-32	CROSS SECTION SHEETS
C.P. 88-09-116	" IA-46A	BRIDGE NO. 02545
	" IB-36B	BRIDGE NO. 02546
	" IC-10C	BRIDGE NO. 96834

THIS PLAN CONTAINS 124 SHEETS

DESIGN DESIGNATION

§N18₂₀
 R Value _____
 ADT () = _____
 Proj. ADT (2010) = 19,150
 Proj. HCADT (2010) = 1100 f
 Soil Factor A3 50%
 9 Ton Design
 Shoulder Width 10'

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. 2549 ENGR. *Lawrence K. Lund*
 COUNTY Anoka

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

DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 APPROVED _____
 DIVISION ADMINISTRATOR DATE

STATE AID PROJ. NO. _____
 STATE PROJ. NO. C.P. 85-05-116, C.P. 88-09-116 SHEET NO. 1 OF 32 SHEETS

PLANS SYMBOLS

- STATE LINE
- COUNTY LINE
- TOWNSHIP OR RANGE LINE
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- RIGHT OF WAY LINE
- SLOPE EASEMENT
- PRESENT RIGHT OF WAY LINE
- CONTROL OF ACCESS LINE
- PROPERTY LINE (Except Land Lines)
- VACATED PLATTED PROPERTY
- CORPORATE OR CITY LIMITS
- TRUNK HIGHWAY CENTER LINE
- RETAINING WALL
- RAILROAD
- RAILROAD RIGHT OF WAY LINE
- RIVER OR CREEK
- DRY RUN
- DRAINAGE DITCH
- DRAIN TILE
- CULVERT
- DROP INLET
- GUARD RAIL
- BARBED WIRE FENCE
- WOVEN WIRE FENCE
- CHAIN LINK FENCE
- RAILROAD SHOW FENCE
- STONE WALL OR FENCE
- HEDGE
- RAILROAD CROSSING SIGN
- RAILROAD CROSSING BELL
- ELECTRIC WARNING SIGN
- CROSSING GATE
- MEANDER CORNER
- SPRINGS
- MARSH
- TAMER
- ORCHARD
- BRUSH
- MURSEY
- CATCH BASIN
- FIRE HYDRANT
- CATTLE GUARD
- OVERPASS (Highway Over)
- UNDERPASS (Highway Under)
- BRIDGE
- BUILDING (One Story Frame)
- F - FRAME
- C - CONCRETE
- S - STONE
- T - TILE
- B - BRICK
- ST - STUCCO
- IRON PIPE OR RUD
- MONUMENT (STONE, CONCRETE, OR METAL)
- WOODEN HUB
- GRAVEL PIT
- SAND PIT
- BORROW PIT
- ROCK QUARRY

UTILITIES SYMBOLS

- 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

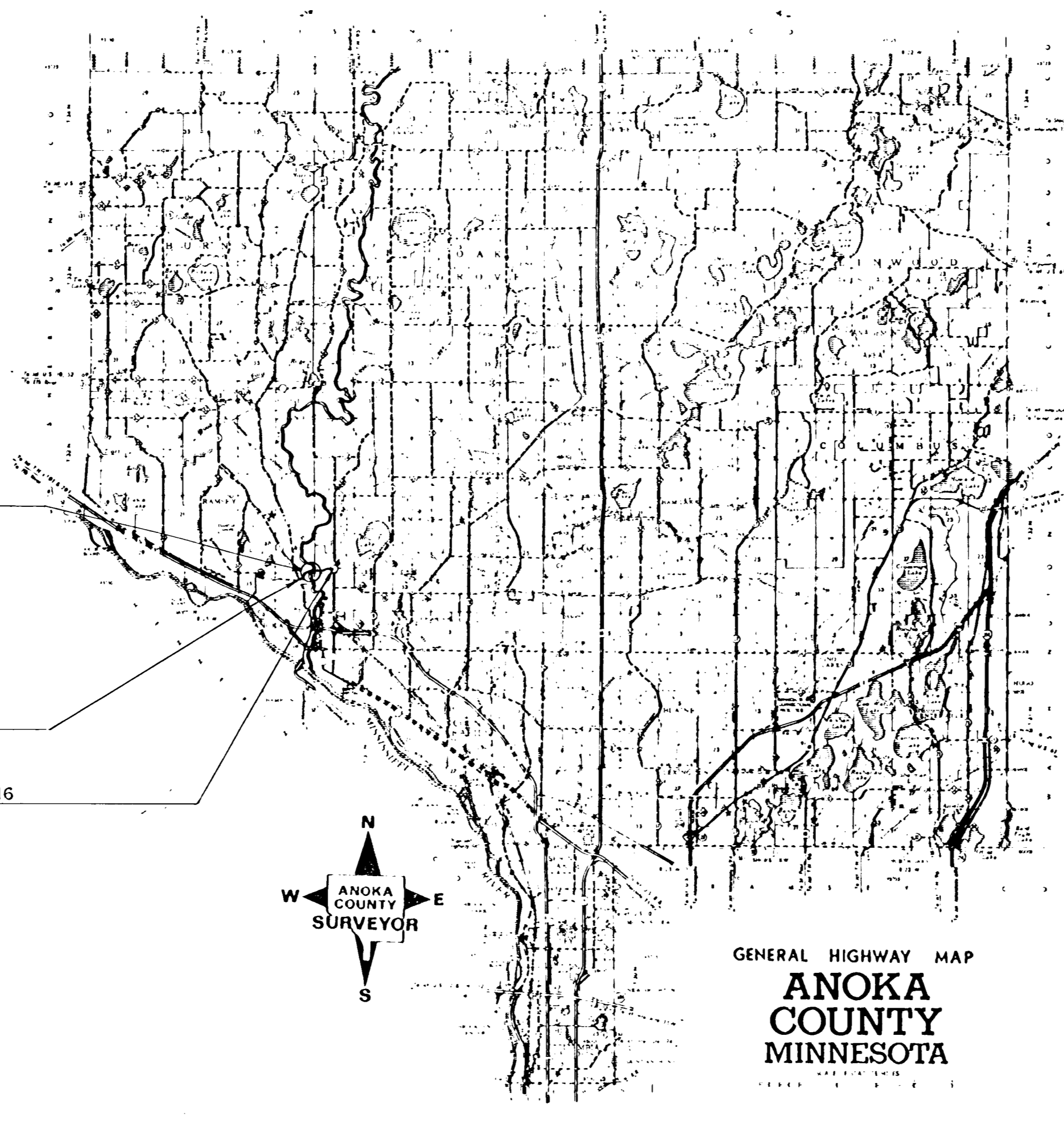
SCALES

PLAN 50'
 PROFILE 10'
 INDEX MAP 2.56 MI
 CROSS SECTION 10'

PROJECT LOCATION C.P. 88-09-116
 BRIDGE NO. - 02545
 BRIDGE NO. - 02546
 BRIDGE NO. - 96834

BEGIN PROJECT C.P. 85-05-116
 STA. 99+37

END PROJECT C.P. 85-05-116
 STA. 152+14



TITLE SHEET w. map blueprint Older Form 432 REV. 2-88