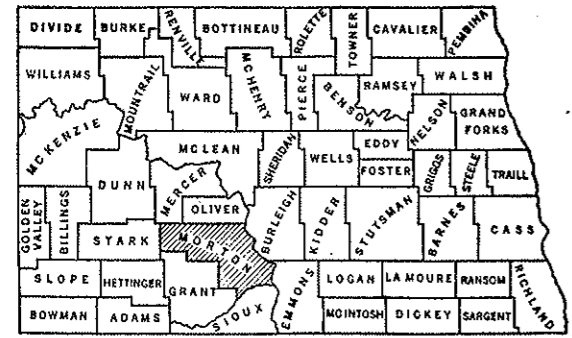


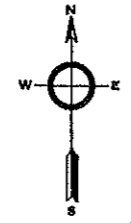
strip

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
8	N. D.	F-1-094(03)917	1	

GOVERNING SPECIFICATIONS:
 Standard Specifications adopted by the North Dakota State Highway Department Oct. 1976 and approved by the Federal Highway Administration on December 17, 1976 and other Contract Provisions submitted herewith.



SKETCH-MAP OF NORTH DAKOTA SHOWING COUNTIES



SCALES
 LAYOUT SHEET: 1 IN. = 1000 FT.
 PLAN AND PROFILE DRAWINGS: 1 IN. = 50 FT.
 STRUCTURAL DRAWINGS: AS SHOWN
 CROSS SECTION SHEETS: 1 IN. = 10 FT.

NORTH DAKOTA STATE HIGHWAY DEPARTMENT

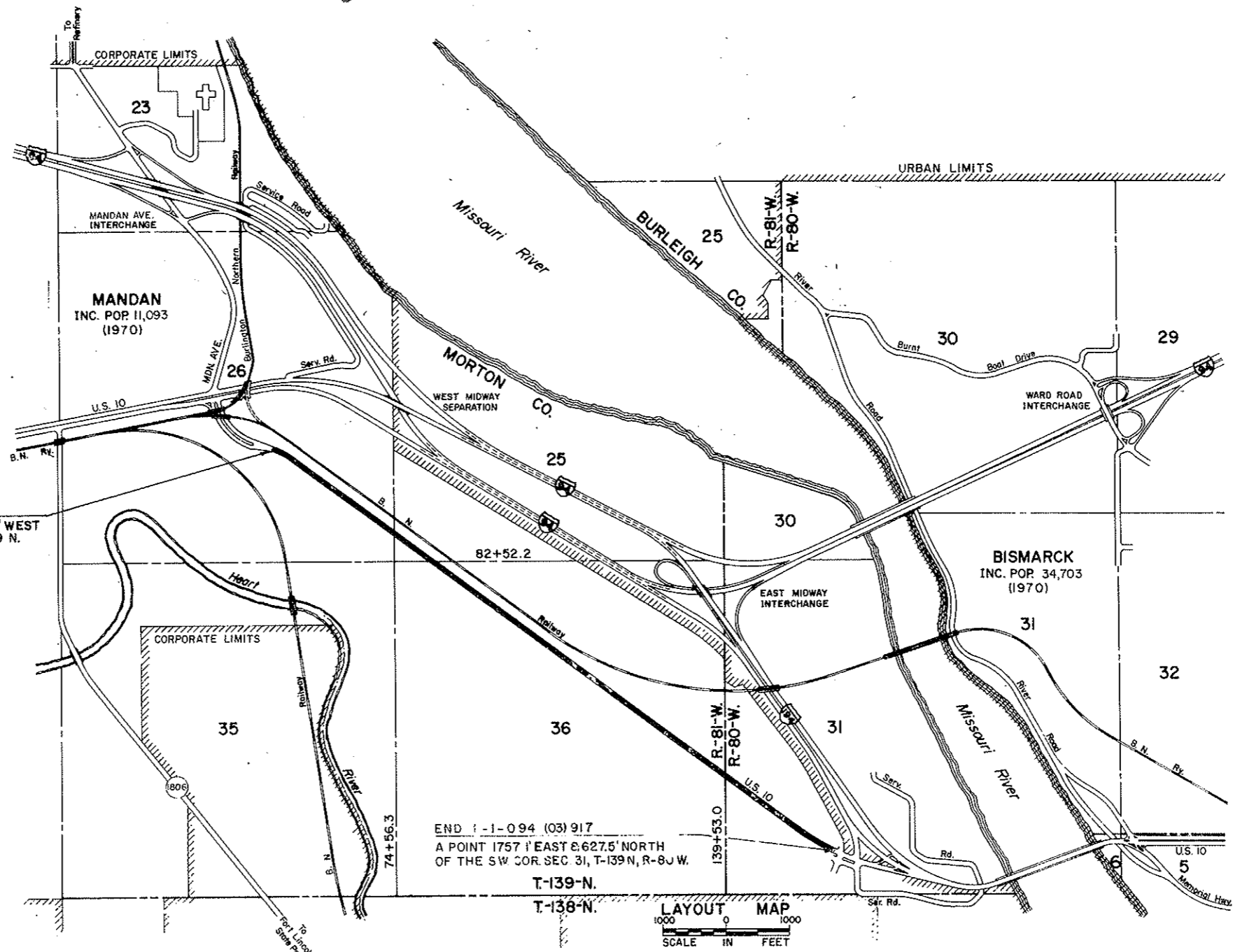
PLANS

FOR THE PROPOSED IMPROVEMENT OF A
STATE HIGHWAY
 IN MORTON COUNTY
 FEDERAL AID PROJECT NO. F-1-094(03)917
 GRADING, SURFACING, ~~AND~~ INCIDENTALS

LENGTH OF PROJECT		
PROJECT	MILES-GROSS	MILES-NET
F-1-094(03)	2.174	2.174
TOTALS	2.174	2.174

DESIGN DATA

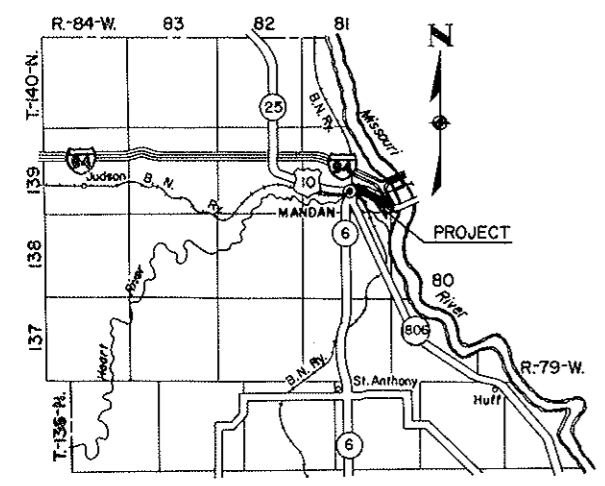
TRAFFIC AVERAGE DAILY EST. 30TH MAX. HR.
 CURRENT TRAFFIC (1979) 9325 PASS. 675 TRUCKS 10000 TOTAL 1000
 TRAFFIC FORECAST (1999) 11425 PASS. 775 TRUCKS 12200 TOTAL 1220
 DESIGN SPEED 40 MPH
 TRAFFIC CLASSIFICATION "M"
 MINIMUM SIGHT DISTANCE (STOPPING) 300'



BEG. F-1-094(03) 917 STA. 9+93.2+
 STA. 46+29.5
 A POINT 1960.7' NORTH & 2372.32' WEST
 OF THE S.E. COR. OF SEC. 26, TWP 139 N.
 RGE. 81 W.

END F-1-094 (03) 917
 A POINT 1757' EAST & 627.5' NORTH
 OF THE SW COR. SEC. 31, T-139N, R-80 W.

LAYOUT MAP
 SCALE IN FEET



SKETCH MAP OF PART OF MORTON COUNTY

APPROVED DATE 12-8-78

 CHIEF ENGINEER
 NORTH DAKOTA STATE
 HIGHWAY DEPARTMENT

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 BUREAU OF PUBLIC ROADS
 APPROVED

 DIVISION ENGINEER DATE

7.472

SYMBOLS

STATE & NATIONAL LINES		BUILDINGS	
COUNTY LINE		TELEGRAPH LINES	
TOWNSHIP & RANGE LINES		TELEPHONE LINES	
SECTION LINE		POWER LINES	
QUARTER SECTION LINE		CULVERTS (In Place)	
SECTION CORNER		CULVERTS (Install)	
QUARTER SECTION CORNER		CONCRETE BOX CULVERTS (Install)	
OLD RIGHT OF WAY LINE		BRIDGES (Install)	
NEW RIGHT OF WAY LINE		CONCRETE CURB	
GRADE LINE		CONCRETE CURB AND GUTTER	
CENTERLINE OF CONSTRUCTION		CONCRETE WALK	
RAILROAD RIGHT OF WAY LINE		CATCH BASIN (Existing)	
CITY OR VILLAGE CORPORATE LIMITS		CATCH BASIN (New)	
PROPERTY LINE		MANHOLE (Existing)	
EASEMENT LINE		MANHOLE (New)	
FENCES		CURB INLET (Existing)	
SNOW FENCE		CURB INLET (New)	
DRAINAGE		GROUND MOUNTED SIGNS	
WATERS EDGE		OVERHEAD SIGNS	
MARSH OR SWAMP		HYDRANT	
RIPRAP		LIGHT STANDARDS	
DRAINAGE DITCH		TRAFFIC SIGNALS (Plan & Profile Sheets)	
APPROACH		HIGH MAST LIGHTING ASSEMBLY	
TRAVELED WAY		GROUND ELEVATION	
RAILROADS		GRADE	
GUARD RAIL		CENTERLINE	
GUIDE POSTS		SECTION LINE	
DELINEATORS		DEFLECTION ANGLE (Delta)	
HEDGES AND TREES		500 OR JUTE MESH	
INTERCHANGE		POLES TO BE MOVED	
HIGHWAY GRADE SEPARATION - NO CONNECTION		POLES TO BE LOWERED	
OTHER BRIDGE		CONCRETE FOUNDATION	
SERVICE ROAD		CONDUIT	
TERMINATED CROSS-ROAD		CONDUCTOR	
		CONCRETE PULL BOX	
		FEED POINT	
		250 WATT LIGHT STANDARDS	
		400 WATT LIGHT STANDARDS	
		700 WATT LIGHT STANDARDS	
		1000 WATT LIGHT STANDARDS	
		FLASHING BEACON	
		TRAFFIC SIGNAL - MAST ARM MOUNTED	
		TRAFFIC SIGNAL - POST MOUNTED	
		SIGNAL HEAD	
		PEDESTRIAN PUSHBUTTON POST	
		TRAFFIC SIGNAL CONTROLLER	
		FEED POINT - PAD MOUNTED	

ABBREVIATIONS

Aggr.	Aggregate	M.L.	Main Line
Ahd.	Ahead	N.R.	North Roadway
Alt.	Alternate	Off. Loc.	Office Location
Approx.	Approximate or Approximately	O to O	Out to Out
Appr.	Approach	P & P	Plan and Profile
Asph. Cem. or A.C.	Asphaltic Concrete	P.C.	Point of Curvature
Asph. Conc.	Asphaltic Concrete	P.C.C.	Point of Compound Curve
Bit.	Bituminous or Bitumen	P.C.C. Pvm't	Portland Cement Concrete Pavement
Bk.	Back	P.D.	Private Drive
B.M.	Bench Mark	Pen.	Penetration
Bldg.	Building	Perf.	Perforated
Br.	Bridge	P.I.	Point of Intersection
C.A.E.S.	Corrugated Aluminum End Section	P.O.C.	Point on Curve
C.A.P.	Corrugated Aluminum Pipe	P.O.T.	Point on Tangent
C.B.	Catch Basin	P.P.	Power Pole
C.B.G.	Curb and Gutter	P.R.C.	Point of Reverse Curvature
Ch.Bk.	Channel Block	Pref.	Preformed
Ch. Ch.	Channel Change	P.S.D.	Passing Sight Distance
C.I.	Curb Inlet	P.T.	Point of Tangency
C.I.P.	Cast Iron Pipe	P.V.C.	Polyvinyl Chloride Sewer Pipe
Cl.	Close	Quant.	Quantity or Quantities
C.S.E.S.	Corrugated Steel End Section	R	Radius
C.S.P.	Corrugated Steel Pipe	R or Rge.	Range
C.M.S.	Cationic Medium Setting	RC	Rapid Curing
Comp.	Compression	R.C.E.S.	Reinforced Concrete End Section
Const.	Construction	R.C.P.	Reinforced Concrete Pipe
Conc.	Concrete	R.C.P.S.	Reinforced Concrete Pipe Sawer Road
Cont. Reinf. Conc. Pvm't	Continuously Reinforced Concrete Pavement	Rd.	Road
Contn.	Contraction	Rdbd.	Roadbed
Crn.	Crown	Rdwy.	Roadway
CRS	Cationic Rapid Setting	Ref.	Reflectorized
Crse.	Course	R.R.	Railroad
C.S.	Curve to Spiral	Rt.	Right
C.to C.	Center to Center	R/W	Right of Way
C.Y.	Cubic Yard	Solv.	Salvage
D	Degree of Curvature	San.	Sanitary
D-Load	Dead Load	S.C.	Spiral to Curve
D.B.	Ditch Block	SC	Slow Curing
Def.	Deformed	Sc	Spiral Deflection Angle
Del.	Deliver	S.O.	Sight Distance
D.G.	Ditch Grade	S.E.	Superelevation
El. or Elev.	Elevation	Sec.	Section
Ellipt.	Elliptical	Sec. Line Appr.	Section Line Approach
Emb.	Embankment	Sep.	Separation
Emul.	Emulsified	Serv.	Service
Engr.	Engineer	Sgr. Prep.	Subgrade Preparation
Eq.	Equation	Shldr.	Shoulder
E.R.	East Roadway	SP	Special Provision
E.S.	End Section	S.P.P.	Structural Plate Pipe
Esm't	Easement	S.P.P.A.	Structural Plate Pipe Arch
Exc.	Excavation	S.R.	South Roadway
Exp.	Expansion	SS	Slow Setting or Supplement Specification
F.D.	Field Drive	S.S.O.	Stopping Sight Distance
Found.	Foundation	S.T.	Spiral to Tangent
F.P.	Fence Post	Sta.	Station
Furn.	Furnish	Std.	Standard
Ga.	Gage or Gauge	Std. Specs.	Standard Specifications
Gr.	Gravel	Struct.	Structure
Grd.	Graded	Surf.	Surface or Surfacing
G.V.	Gate Valve	Surv.	Survey
Hel.	Helical	S.W.	Sidewalk
Hyd.	Hydrant	S.Y.	Square Yard
Ident.	Identification	T	Tangent Length (circular curve)
Inchg.	Interchange	T or Twp.	Township
I.M.	Iron Monument	Tel.	Telephone
Inst.	Install	Temp.	Temporary
Inter.	Intersection	T.P.	Telephone Pole
Inv.	Invert	Tr.	Traffic
Jt.	Joint	Trans.	Transverse or Transition
L	Length of Curve	Trtd.	Treated
Lc	Length of Spiral	Ts	Tangent Length (curve with spirals)
Levg.	Leveling	T.S.	Tangent to Spiral
L.F.	Linear or Lineal Foot	U.S.C. & G.S.	United States Coast and Geodetic Survey
Liq.	Liquid	V.C.	Vertical Curve
Long	Longitudinal	V.C.P.	Vitrified Clay Pipe
L.P.	Light Pole	W.M.	Water Main
Lt.	Left	W.M.V.	Water Main Valve
"M"	One Thousand	W.R.	West Roadway
Matl.	Material	Wrng.	Wearing
Max.	Maximum	W.S.V.	Water Service Valve
MC	Medium Curing	X-Sec.	Cross Section
M.H.	Manhole	Xc	Spiral Coordinate
Min.	Minimum	Yc	Spiral Coordinate