

PLANS SYMBOLS

STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EIGHTH LINE
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
DRAIN TILE
GUARD RAIL
BARBED WIRE FENCE
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
MARSH
TIMBER
ORCHARD
BRUSH
NUSEBY
CATCH BASIN
FIRE HYDRANT
CATTLE GUARD
OVERPASS Highway Over
UNDERPASS Highway Under
BRIDGE
BUILDING (One Story Frame)
F FRAME C CONCRETE
S STONE T TYLE
B BRICK S STUCCO
IRON PIPE OR ROD
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
OR POWER POLES
OR TELEPHONE POLES
ANCHOR
STEEL TOWER
STREET LIGHT
METEOROLOGICAL TELEPHONE CABLE
TERMINAL
GAS MAIN
WATER MAIN

CONDUIT
TELEPHONE CABLE IN CONDUIT
ELECTRIC CABLE IN CONDUIT
TELEPHONE MANHOLE
ELECTRIC MANHOLE
BURIED TELEPHONE CABLE
BURIED TELEPHONE CABLE
AERIAL TELEPHONE CABLE
SEWER SANITARY OR STORM
SEWER MANHOLE

PIT DATA

PIT NO Located in Dead Man
PIT NO Located in Dead Man

SCALES

LAYOUT MAP 3/4 INCH = 5280 FEET
PLAN 1 INCH = 50 FEET & 1 INCH = 30 FEET
PROFILE 1 INCH = 50 FEET HORIZ & 1 INCH = 30 FEET
1 INCH = 5 FEET VERT.
CROSS SECTIONS 1 INCH = 10 FEET & 1 INCH = 5 FEET
OTHER SCALES AS NOTED

THE "MINNESOTA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION"
1978 EDITION SHALL GOVERN

GROSS LENGTH 5362.51 FEET 1.02 MILES
BRIDGES LENGTH 0.0 FEET 0.0 MILES
EXCEPTIONS LENGTH 0.0 FEET 0.0 MILES
NET LENGTH 5362.51 FEET 1.02 MILES

OFFICE OF COUNTY ENGINEER RAMSEY COUNTY

PLAN FOR RIGHT OF WAY ACQUISITION

COUNTY STATE AID HIGHWAY NO. 77

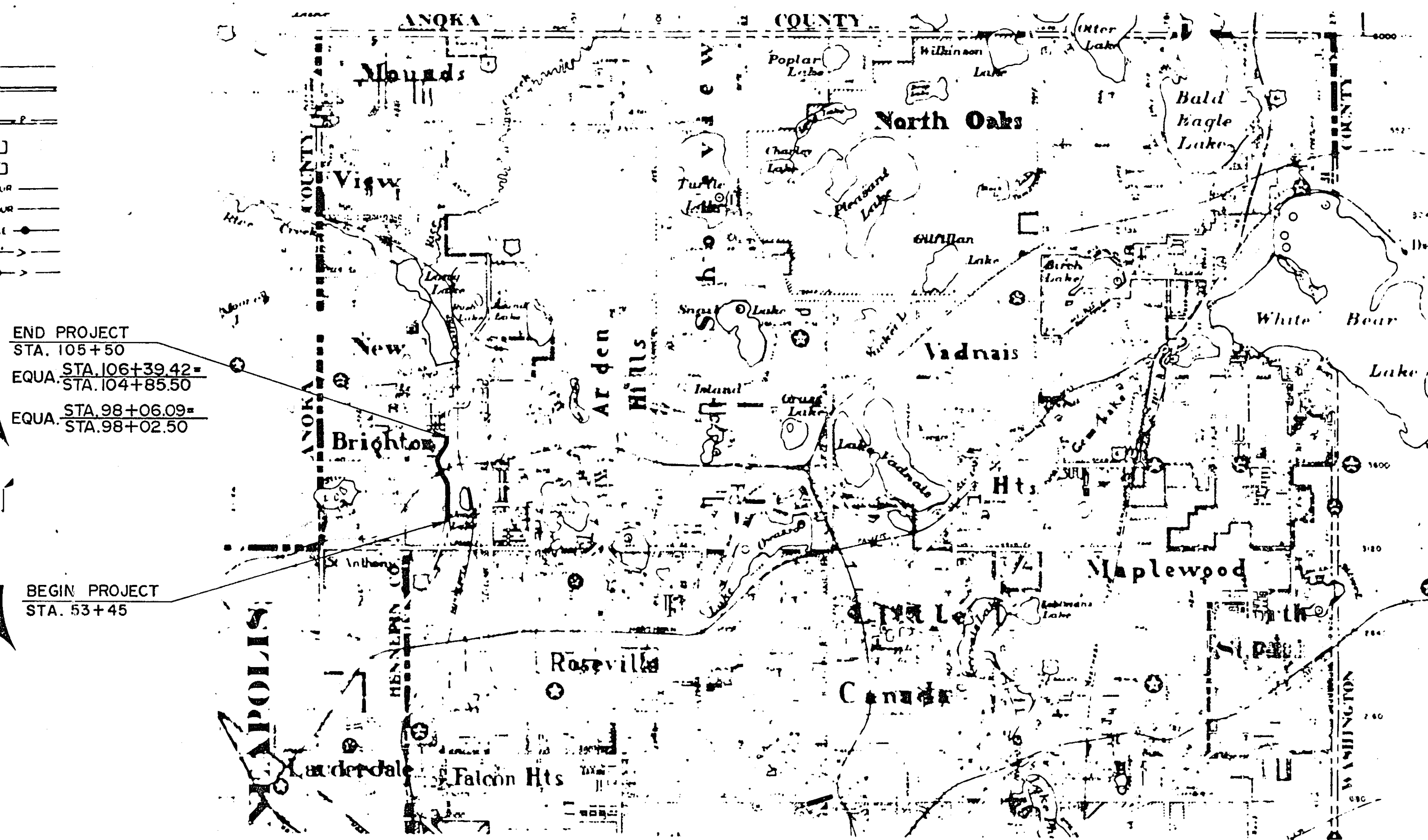
S.A.P. NO. 62-677-10A C.T.B.

BETWEEN: 6TH. ST. S.W. AND: 2ND ST. N.W.

FROM: A POINT 1370.99 FEET NORTH OF THE
SOUTH 1/4 CORNER OF SECTION 32,
T.30N., R.23 W. TO: A POINT 1302.60 FEET NORTH OF THE
SOUTH 1/4 CORNER OF SECTION 29,
T.30N., R.23 W.

INDEX OF SHEETS

SHEET NO DESCRIPTION
1- TITLE SHEET AND LAYOUT MAP
2- TYPICAL SECTION
3- RIGHT OF WAY PLANS



CITY OF ST. PAUL

DESIGN DESIGNATION

S.A.P. NO. 62-677-10 C.T.B.	6TH. ST. S.W. TO 1ST. ST. S.W.	1ST. ST. S.W. TO CO. RD. "E"	CO. RD. "E" TO 2ND. ST. N.W.
ADT (CURRENT YEAR) 1977	8,775	8,775	6,400
ADT (FUTURE YEAR) 1998	20,864	20,864	15,000
20 YR. SIGMA N18	682,866	632,284	632,284
20 YR. SIGMA N20	10 TON	9 TON	9 TON
DESIGN LOAD			
STABILOMETER "R" VALUE	12-13		

DESIGN SPEEDS
STA. 53+45 TO STA. 90+00 = 50 MPH.
STA. 90+00 TO STA. 99+50 = 35 MPH.
STA. 99+50 TO STA. 105+50 = 50 MPH.

ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES WILL BE
COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

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.

Joseph A. Beroult REG. NO. 8271 DATE 7/17/81

RECOMMENDED FOR APPROVAL Kenneth E. Smith DATE 7/18/81

APPROVED Robert L. Smith DATE 8/1/81

CHAIRMAN OF THE RAMSEY COUNTY BOARD

APPROVED James W. Dendin DATE 8-3-81

MAYOR, CITY OF NEW BRIGHTON

APPROVED DATE

MINNESOTA STATE HIGHWAY DEPARTMENT

RECOMMENDED FOR APPROVAL Dilbert D. N. Smith DATE 9-16-81

RECOMMENDED FOR APPROVAL DATE 9/14/81

DISTRICT STATE AID ENGINEER

APPROVAL DATE 9/21/81

DIRECTOR, OFFICE OF STATE AID

RECOMMENDED FOR APPROVAL DATE 7-17-81

TRAFFIC ENGR

RECOMMENDED FOR APPROVAL DATE 7-20-81

ENV ENGR

RECOMMENDED FOR APPROVAL DATE 7/17/81

MAINT ENGR

RECOMMENDED FOR APPROVAL DATE 7-21-81

CONST ENGR

RECOMMENDED FOR APPROVAL DATE 7-20-81

DESIGN ENGR

RECOMMENDED FOR APPROVAL DATE 7/17/81

COORDINATING ENGR

APPROVED DATE 7/17/81

COORDINATING ENGR

APPROVED DATE 7/17/81

COORDINATING ENGR

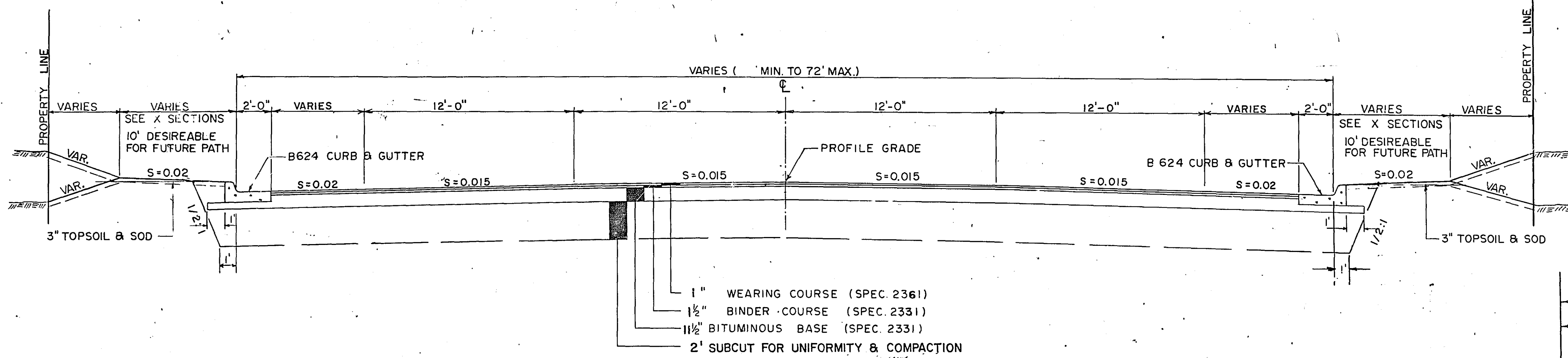
APPROVED DATE 7/17/81

COORDINATING ENGR

REVISED	DATE	DESIGNED BY
		DRAWN BY
		CHECKED BY

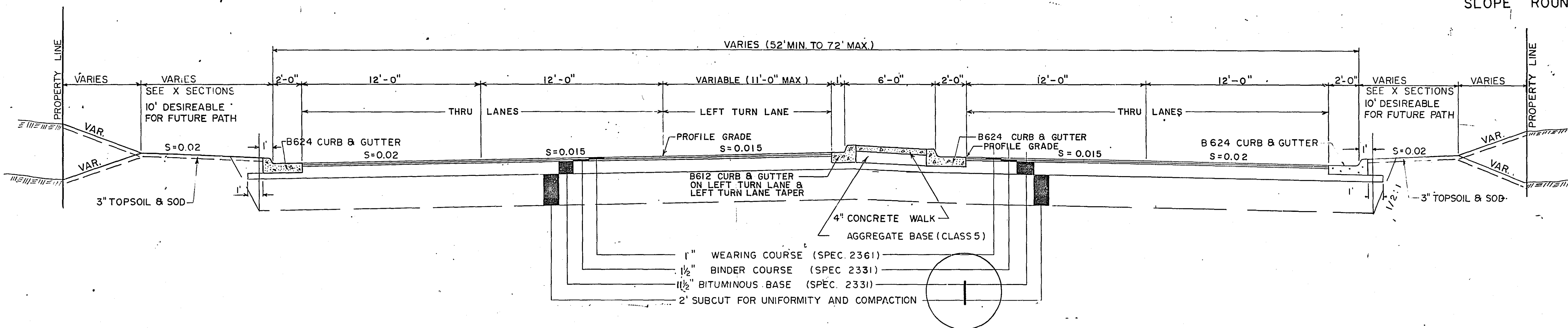
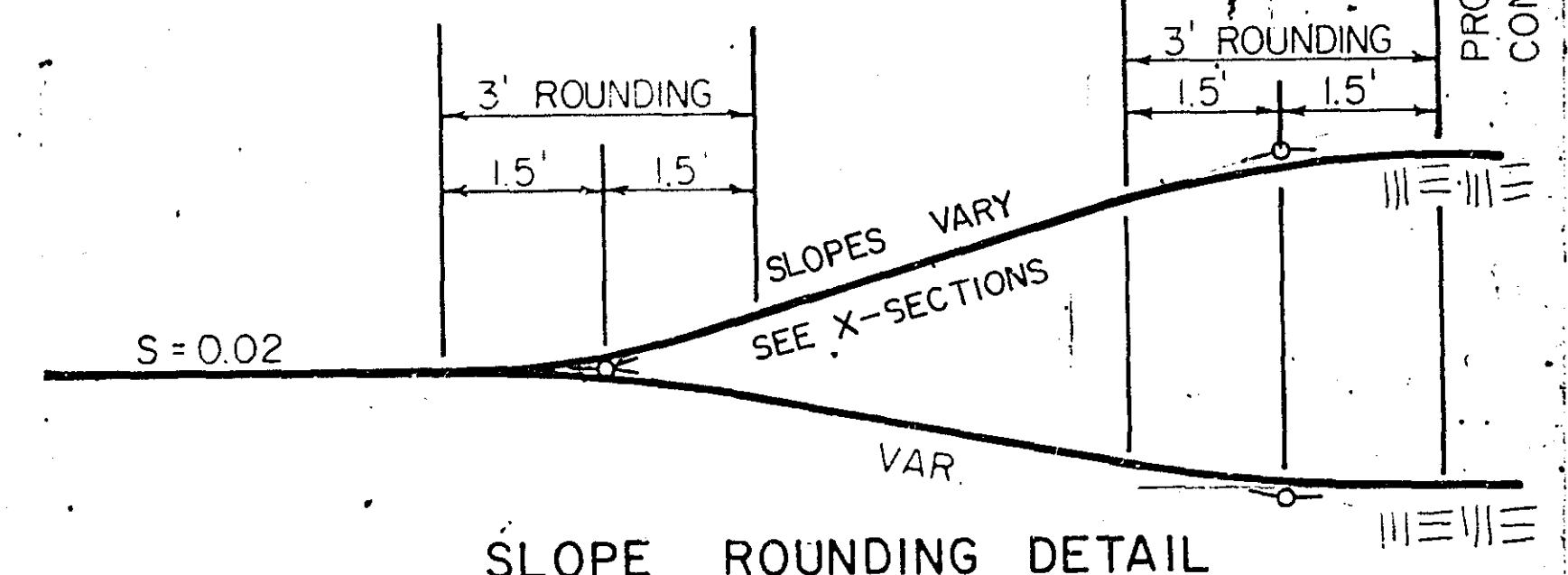
S.A.P. NO. 62-677-10 A CTB

Sheet No. 1 of 9 Sheets



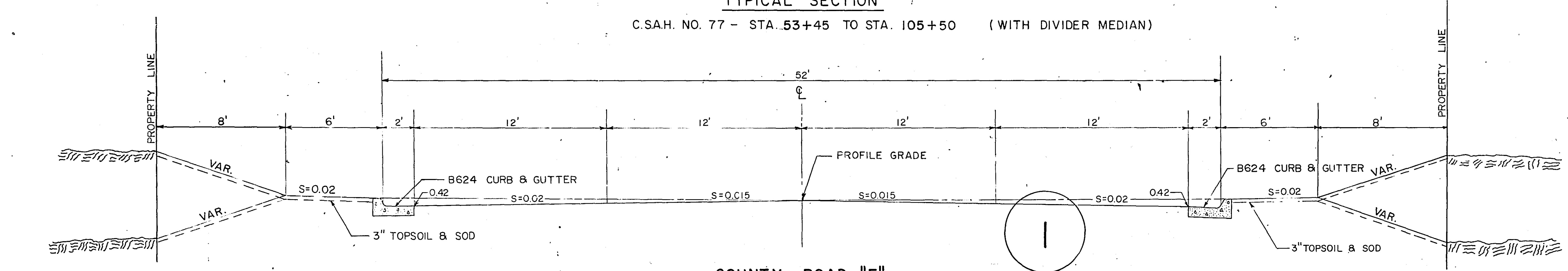
TYPICAL SECTION

C.S.A.H. NO. 77 - STA. 53+45 TO STA. 105+50 (WITHOUT DIVIDER MEDIAN)

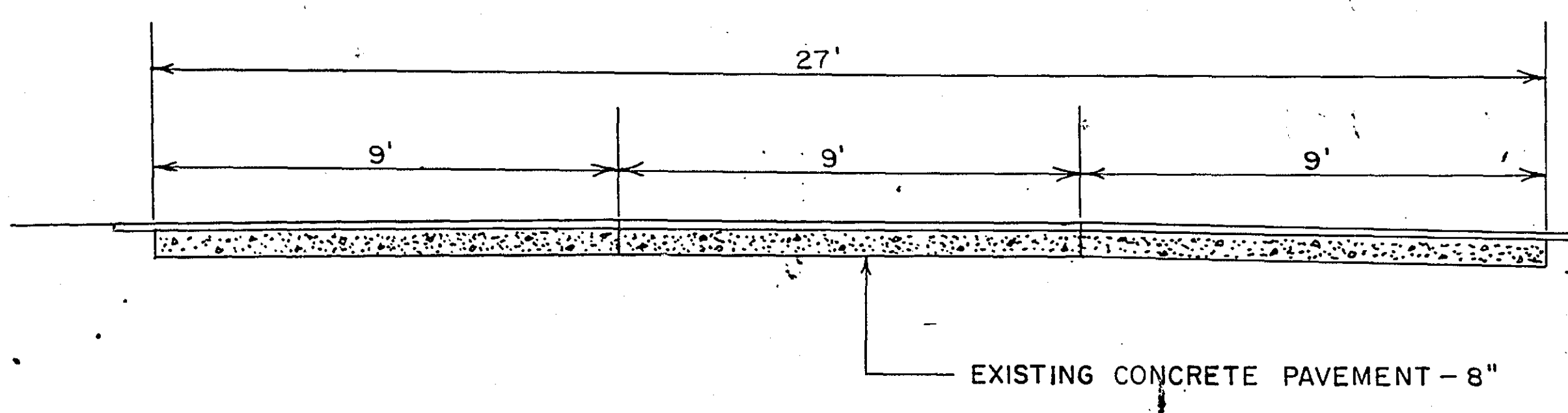


TYPICAL SECTION

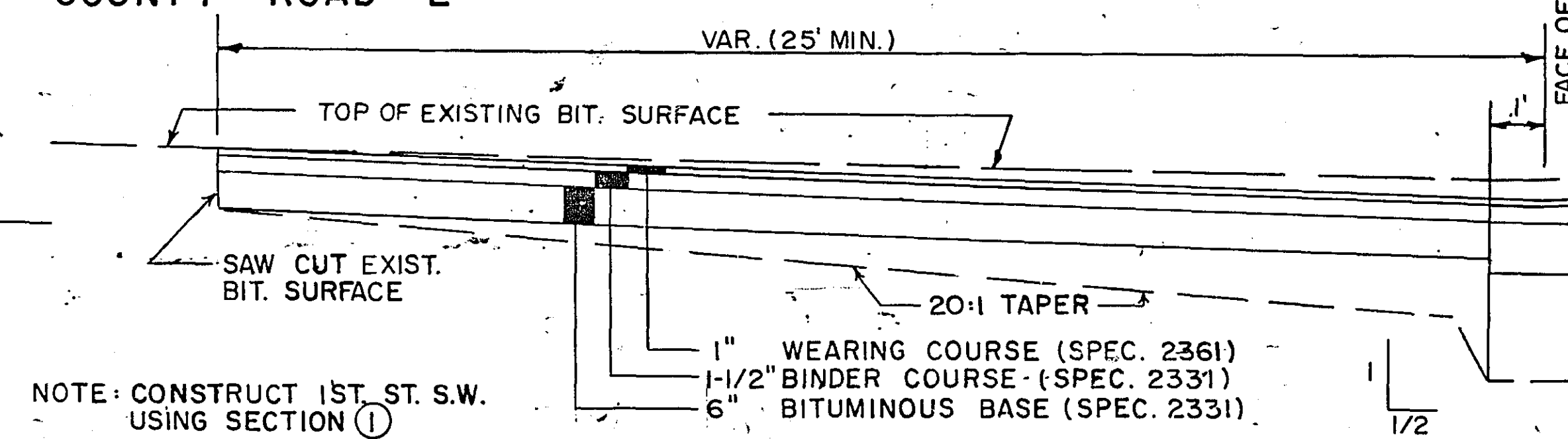
C.S.A.H. NO. 77 - STA. 53+45 TO STA. 105+50 (WITH DIVIDER MEDIAN)



COUNTY ROAD "E"



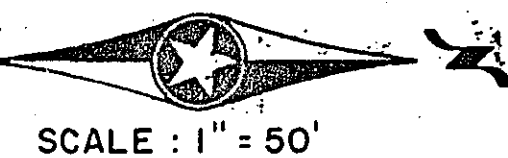
CONCRETE PAVEMENT REMOVAL
SEE PLAN SHEETS FOR LIMITS



TYPICAL SIDE STREET APPROACH

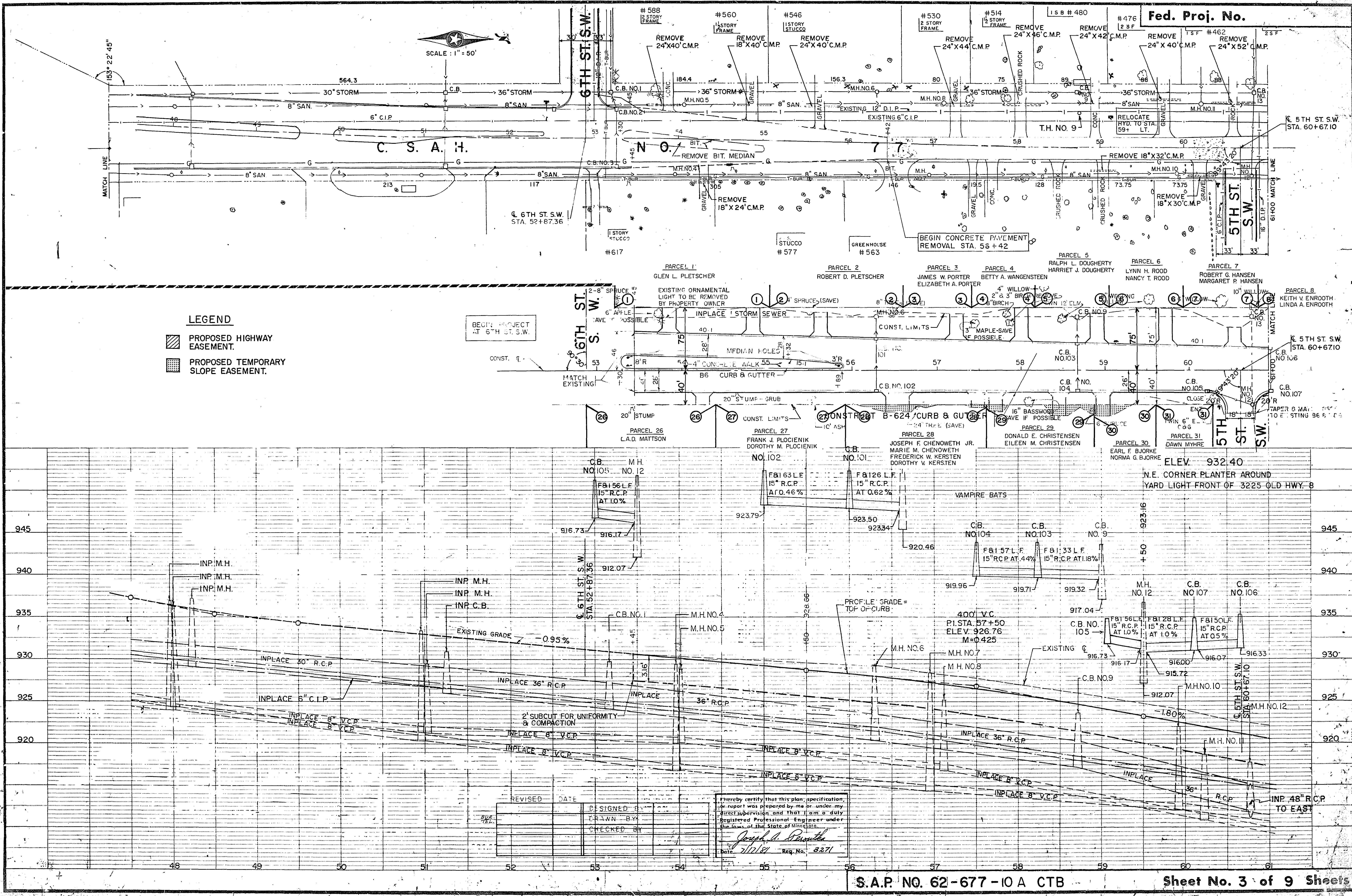
REVISED	DATE	DESIGNED BY
		DRAWN BY
		CHECKED BY

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision, and that I am a duly Registered Professional Engineer under the law of the State of Minnesota.
Joseph A. Blum
Date 7/17/81 Reg. No. B271



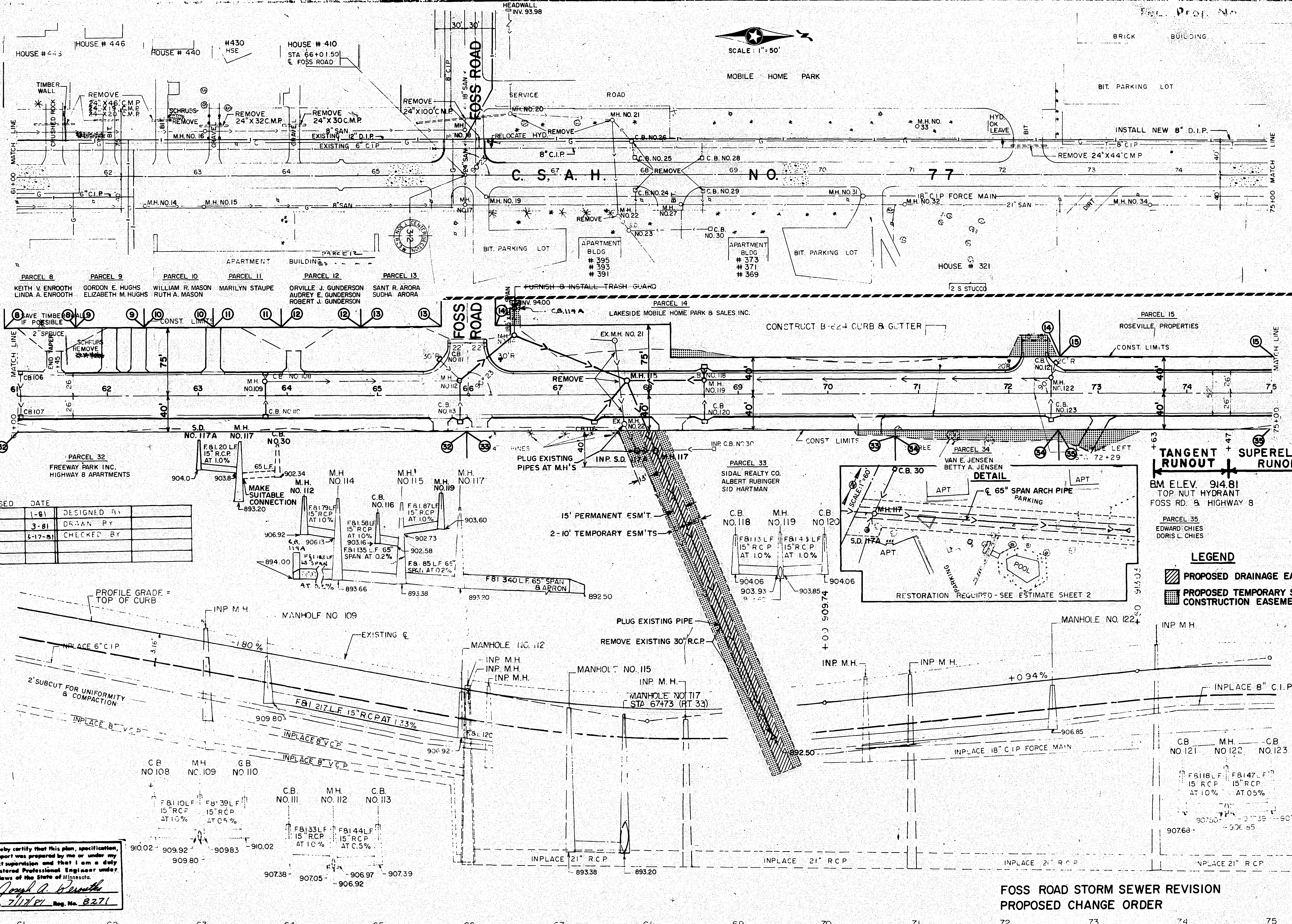
SCALE: 1" = 50'

- LEGEND**
- PROPOSED HIGHWAY EASEMENT.
 - PROPOSED TEMPORARY SLOPE EASEMENT.



REVISED	DATE	DESIGNED BY	DRAWN BY	CHECKED BY

I hereby certify that this plan, specification, or report 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.
Joseph A. Remuth
 Date: 7/12/81 Reg. No. 3271



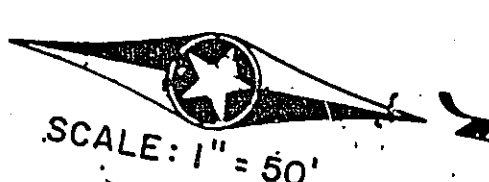
REVISED	DATE	DESIGNED BY
1	3-81	S.H.B.
2	6-17-81	L.K.F.
DESIGNED BY	CHECKED BY	
S.H.B.		
L.K.F.		

I hereby certify that this plan, specification, or report 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.

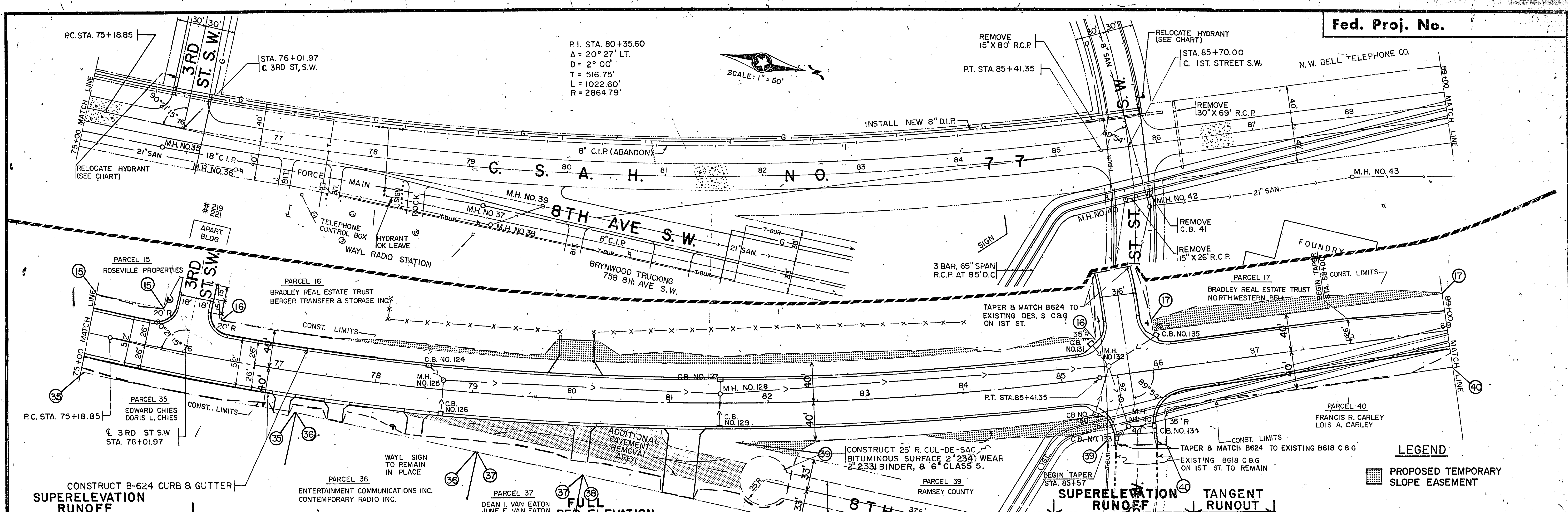
Joseph A. Penzance
Date 7/17/81 Reg. No. 8271

FOSS ROAD STORM SEWER REVISION
PROPOSED CHANGE ORDER

P.I. STA. 80+35.60
 $\Delta = 20^\circ 27' \text{ LT.}$
 $D = 2^\circ 00'$
 $T = 516.75'$
 $L = 1022.60'$
 $R = 2864.79'$

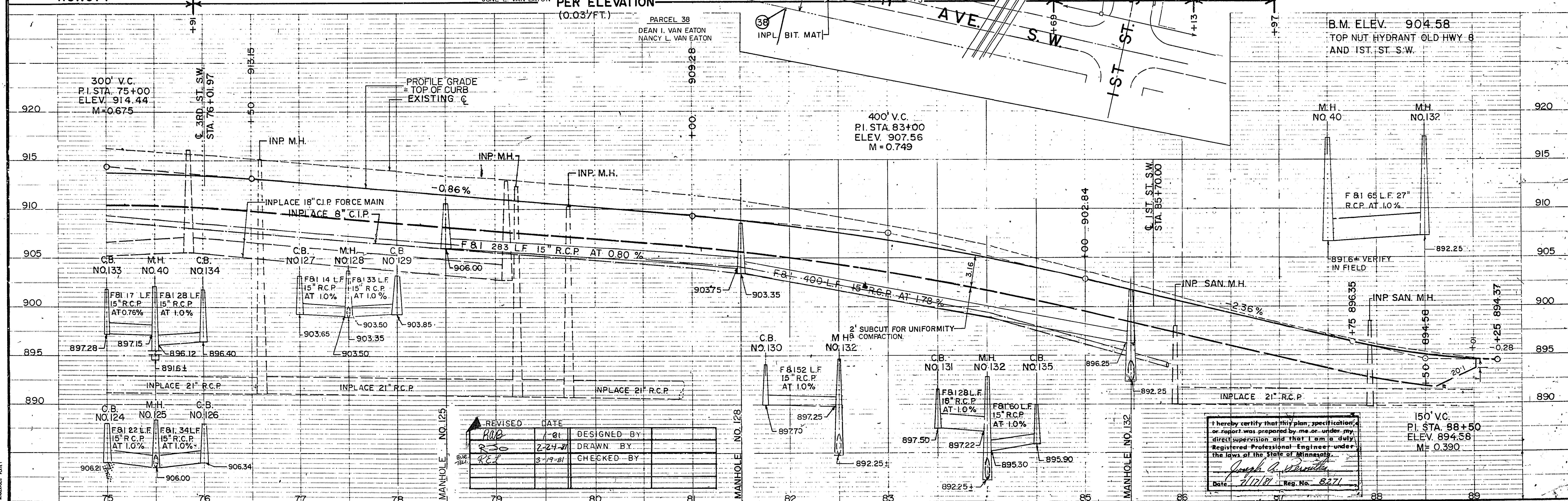


SCALE: 1" = 50'



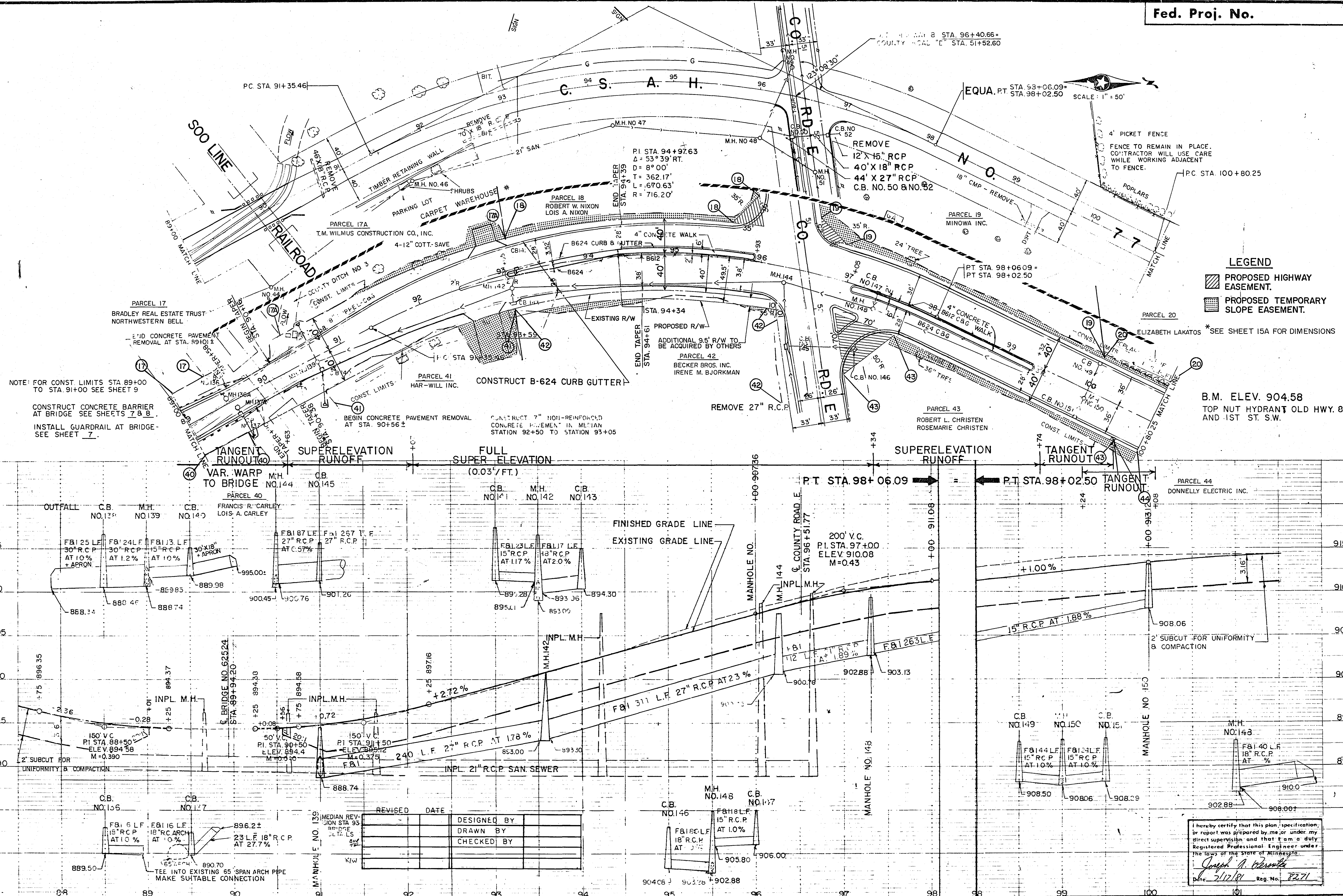
LEGEND

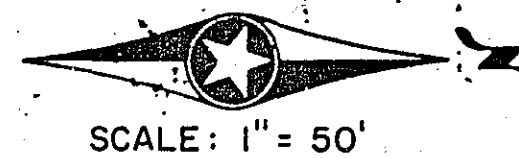
PROPOSED TEMPORARY SLOPE EASEMENT



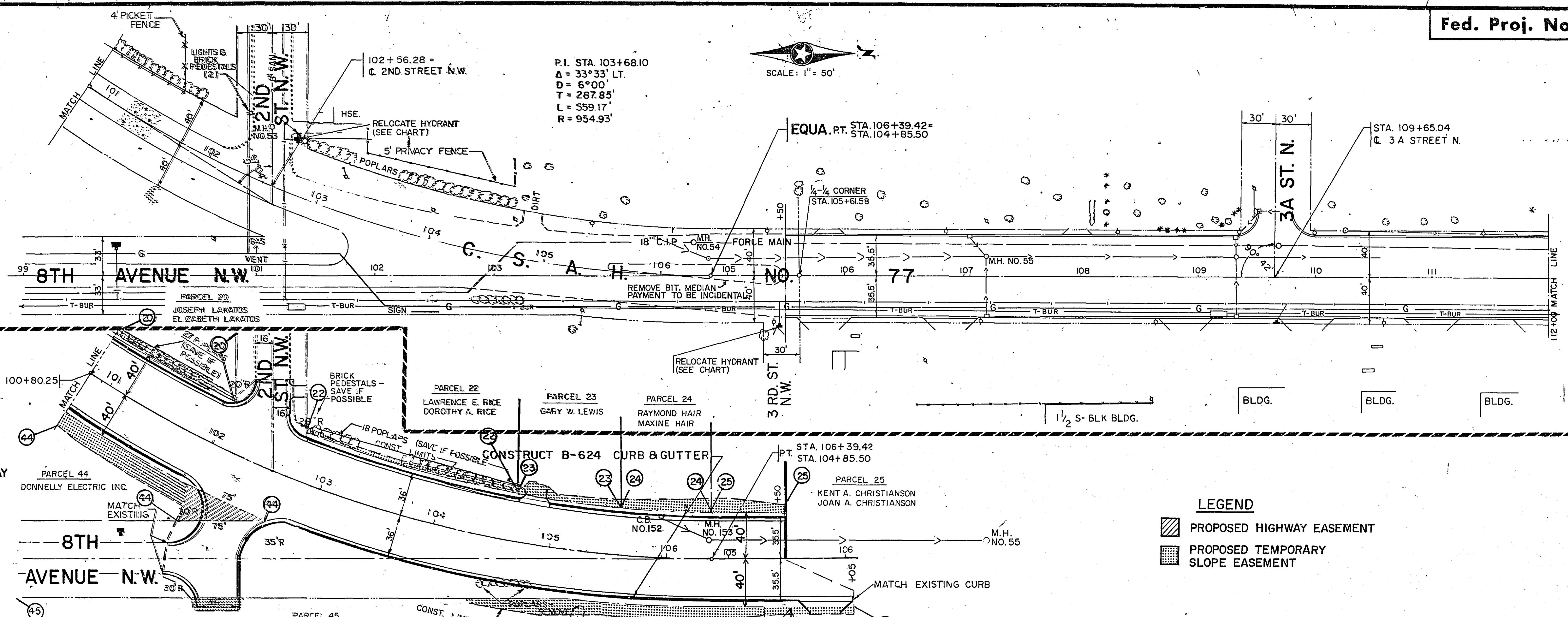
REVISED	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
1	7-81			
2	2-24-81			
3	3-19-81			

I hereby certify that this plan, specification, or report 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: 3/17/81 Reg. No. 8271



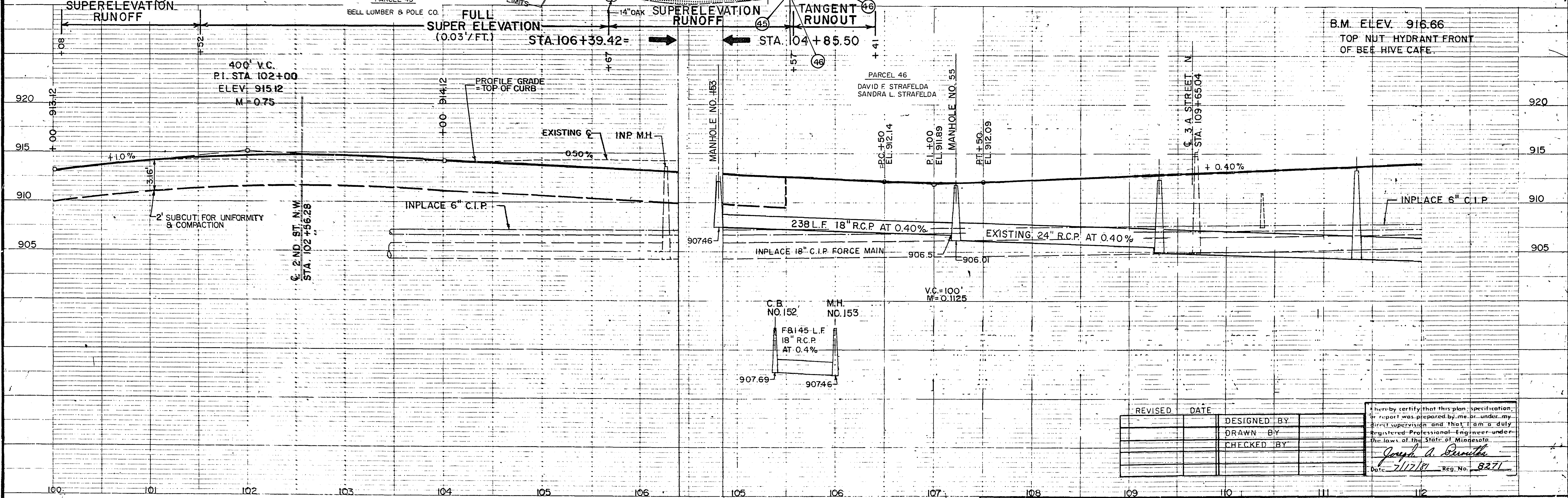


P.I. STA. 103+68.10
 $\Delta = 33^\circ 33' \text{ LT.}$
 $D = 6^\circ 00'$
 $T = 287.85'$
 $L = 559.17'$
 $R = 954.93'$

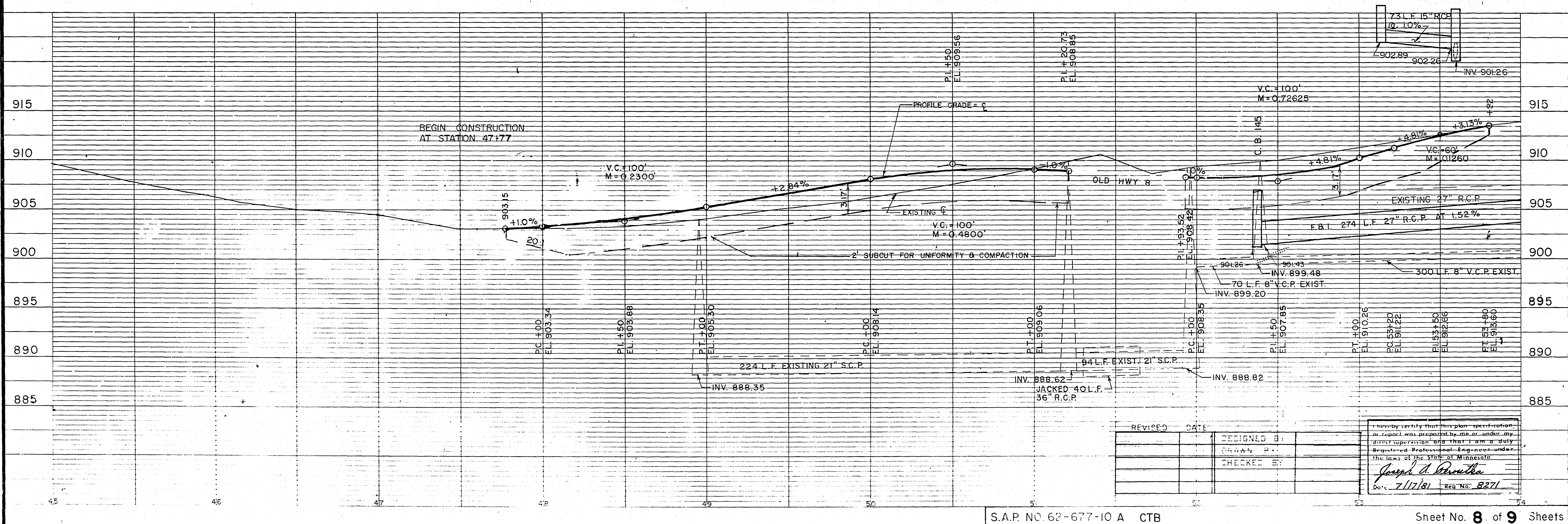
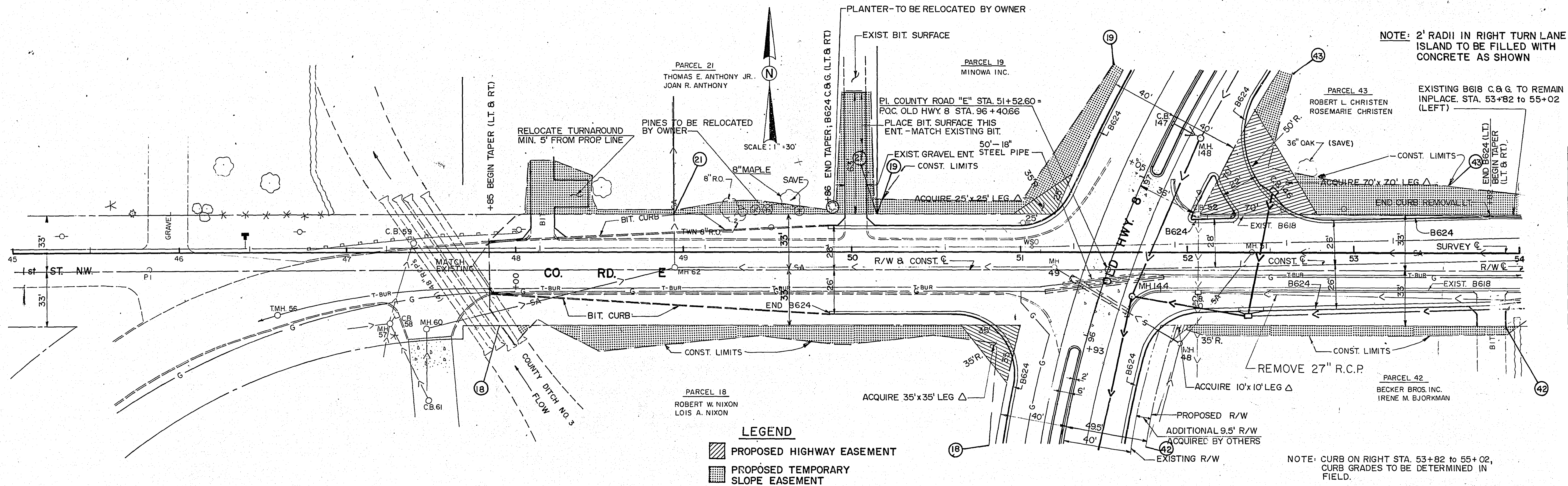


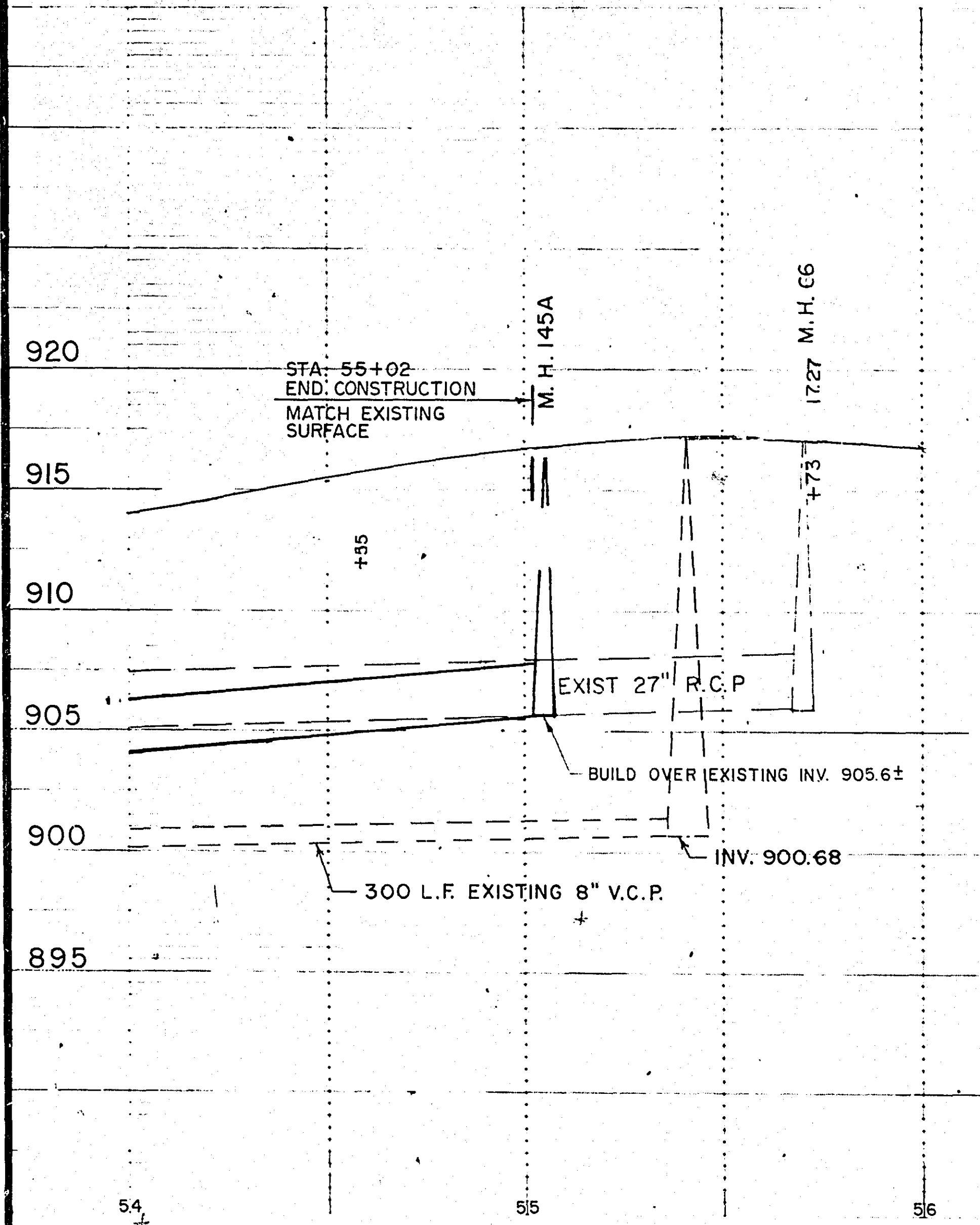
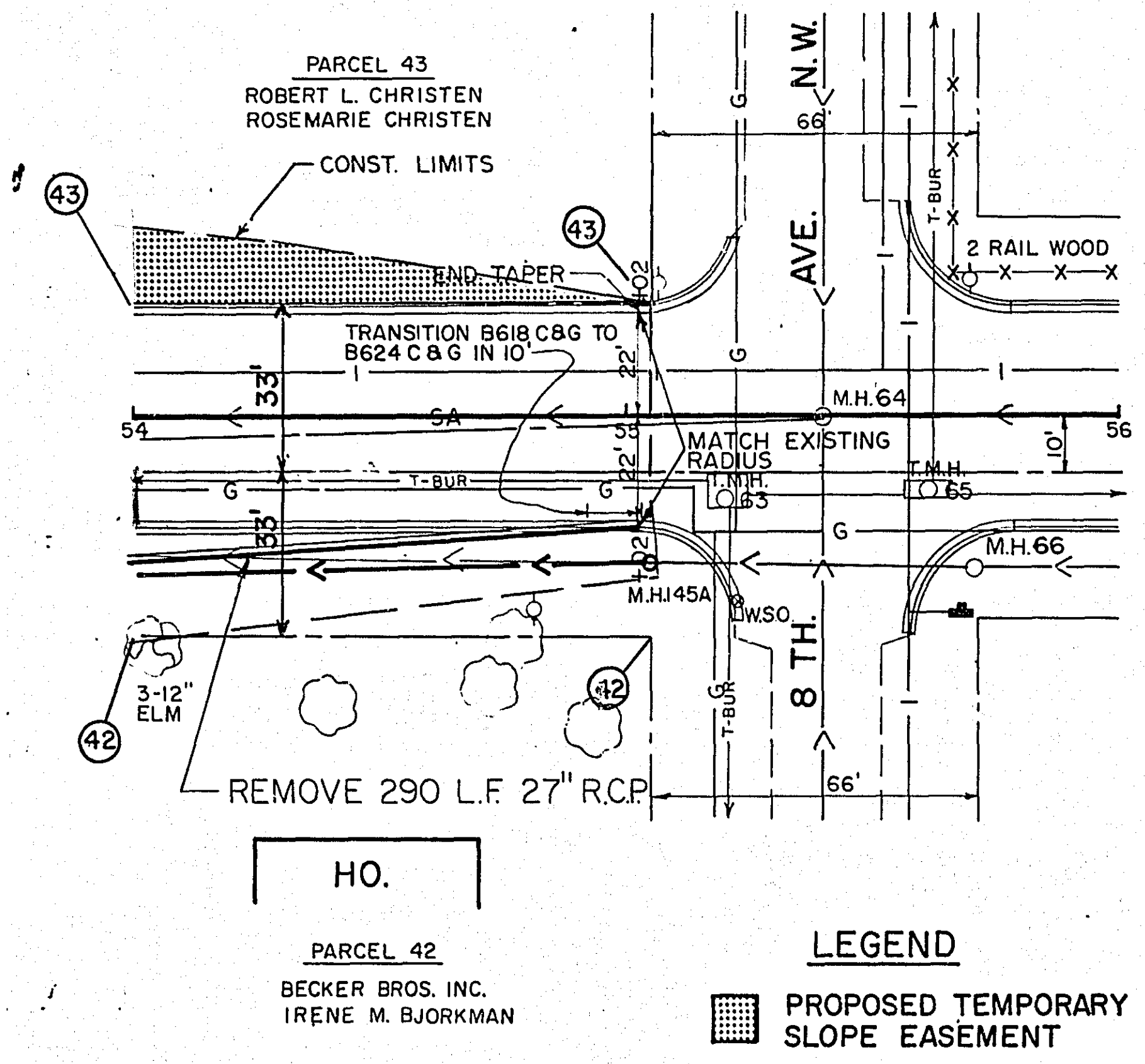
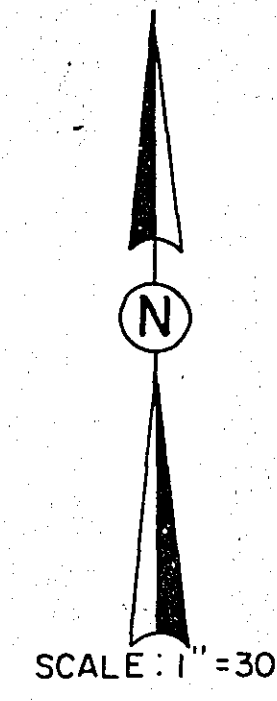
PROPOSED HIGHWAY EASEMENT

LEGEND
 PROPOSED HIGHWAY EASEMENT
 PROPOSED TEMPORARY SLOPE EASEMENT



REVISED	DATE	DESIGNED BY	I hereby certify that this plan, specification or report 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. <i>Joseph A. Brunetta</i> Date 5/17/81 Reg. No. 8271
		DRAWN BY	
		CHECKED BY	





REVISED	DATE	DESIGNED BY	I hereby certify that this plan, specification, or report 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. <i>Joseph A. Bernatta</i> Date <u>7/17/81</u> Reg. No. <u>8271</u>
		DRAWN BY	
		CHECKED BY	