

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
CONTRIBUTOR OF ACCESS LINE
PROPERTY LINE (Escrow 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 INLET
GUARD RAIL
BARBED WIRE FENCE
WOVEN WIRE FENCE
CHAIN LINK FENCE
RAILROAD SNOW FENCE
STONE WALL OR FENCE
MEDGE
RAILROAD CROSSING SIGN
RAILROAD CROSSING BELL
ELECTRIC WARNING SIGN
CROSSING GATE
MEANDER CORNER

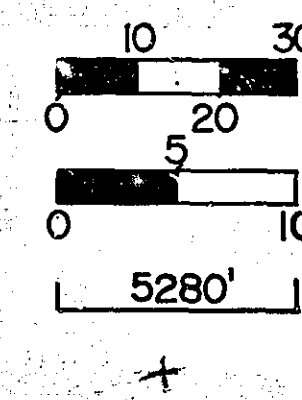
SPRINGS
MARSH
TIMBER
ORCHARD
BRUSH
NURSERY
CATCH BASIN
FIRE HYDRANT
CATTLE GUARD
OVERPASS (Highway Over)
UNDERPASS (Highway Under)
BRIDGE
BUILDING (One Story Frame)
F. FRAME C. CONCRETE
S. STONE T. TILE
B. BRICK ST. STUCCO
IRON PIPE OR ROD
MONUMENT (STONE, CONCRETE, OR METAL)
WOODEN HUB
GRAVEL PIT
SAND PIT
BORROW PIT
ROCK QUARRY

UTILITIES SYMBOLS

POWER POLE LINE
TELEPHONE OR TELEGRAPH
POLE LINE
JOINT TELEPHONE AND POWER
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 MAINHOLE
ELECTRIC MAINHOLE
BURIED TELEPHONE CABLE
BURIED ELECTRIC CABLE
AERIAL TELEPHONE CABLE
SEWER, (SANITARY OR STORM)
SEWER MAINHOLE

PLAN
CROSS SECTIONS
LAYOUT



GROSS LENGTH 5,411 FEET = 1.0248 MILES
BRIDGES-LENGTH 0 FEET = 0 MILES
EXCEPTIONS-LENGTH 0 FEET = 0 MILES
NET LENGTH 5,411 FEET = 1.0248 MILES

RAMSEY COUNTY DEPARTMENT OF PUBLIC WORKS EDGERTON STREET BIKEWAY

CONSTRUCTION PLAN FOR BITUMINOUS BIKEWAY
BETWEEN: LITTLE CANADA ROAD AND COUNTY ROAD "D"

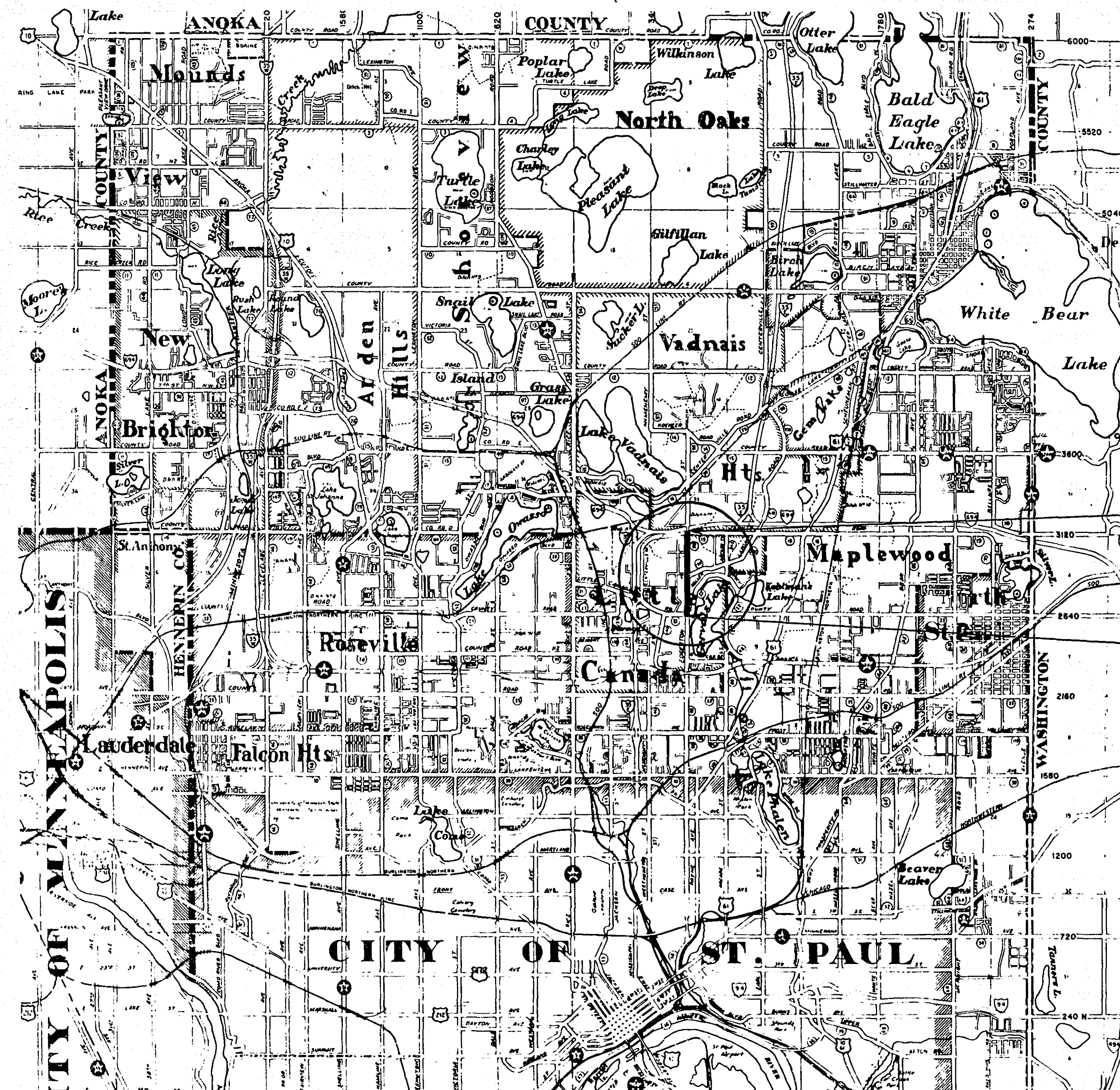
S.A.P. NO. 62-658-03
ACCOUNT NO. 47246

DESIGN DESIGNATION
LITTLE CANADA ROAD TO COUNTY RD. "D"

ADT 1980 3000
2000 3400

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS & ESTIMATED QUANTITIES
3-5	PLAN SHEETS
6-14	CROSS SECTIONS



END PROJECT
STA. 159+40

BEGIN PROJECT
STA. 105+29.30

DESIGN SQUAD _____ DATE _____
DRAWN BY _____ DATE _____
CHECKED BY _____ DATE _____

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 6-16-81 REG. NO. 13501 ENGR. Larry Feldman

RECOMMENDED FOR APPROVAL PK DATE 7-10-81

RECOMMENDED FOR APPROVAL DRS DATE 7-10-81

RECOMMENDED FOR APPROVAL MRS DATE 7-10-81

RECOMMENDED FOR APPROVAL DRA DATE 7-13-81

RECOMMENDED FOR APPROVAL LKF DATE 6-16-81

RECOMMENDED FOR APPROVAL JLP DATE 7-10-81

APPROVED W. H. H. DATE 7-10-81

RECOMMENDED FOR APPROVAL H. W. DATE 6-3-81

APPROVED S. A. DATE 10/26/81

APPROVED R. G. DATE 7/27/81

APPROVED _____ DATE _____

MINNESOTA DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL D. O. DATE 9-3-81

RECOMMENDED FOR APPROVAL _____ DATE 8/2/81

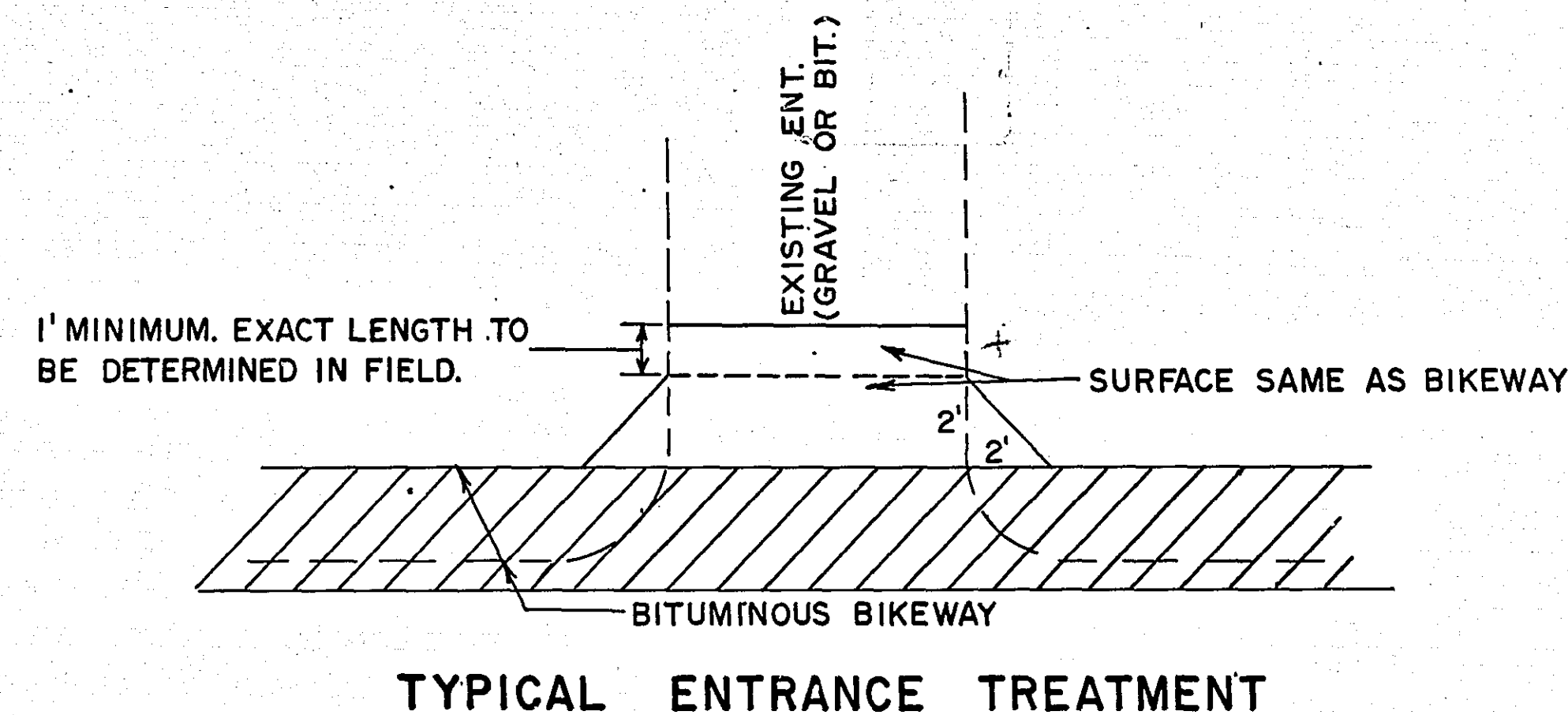
APPROVAL _____ DATE 9-4-81

PLAN REVISIONS		
DATE	SHEET NO.	BY
MAY 81	ENTIRE SET	

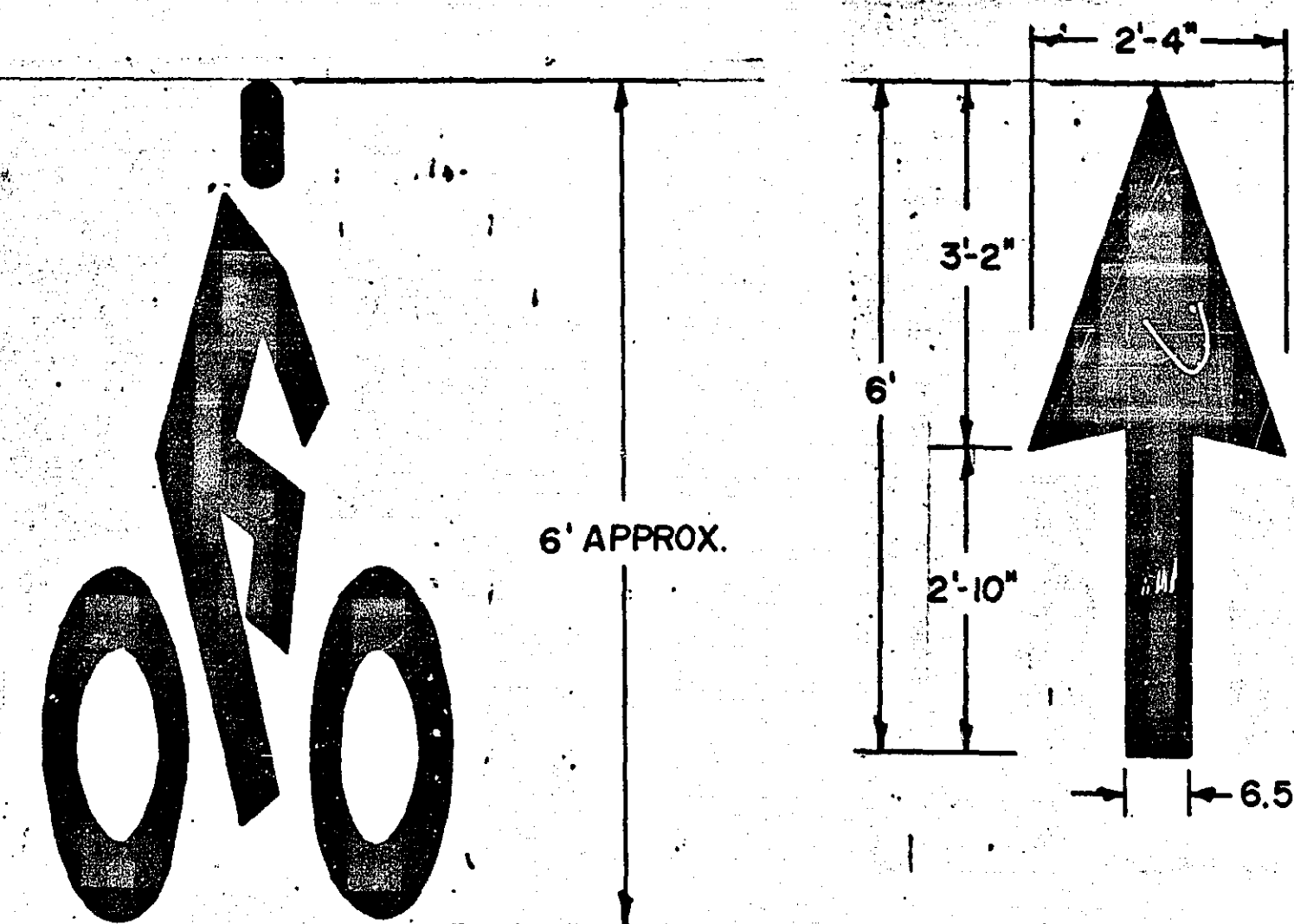
THE 1978 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" SHALL GOVERN.

STATEMENT OF ESTIMATED QUANTITIES				
ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES	FINAL QUANTITIES
2021.501	MOBILIZATION	LUMP SUM	1	
2104.501	REMOVE CULVERT PIPE	L.F.	590	
2105.501	COMMON EXCAVATION	C.Y.	5,360	
2105.523	COMMON BORROW (LV)	C.Y.	500	
2105.525	TOPSOIL BORROW	C.Y.	1,018	
2211.525	AGGREGATE BASE, CLASS 6 OR 5 100% CRUSHED	TON	2,728	
0331.603	*SAWCUT BITUMINOUS PAVEMENT SURFACE	L.F.	9,250	
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	97	
2341.508	WEARING COURSE MIXTURE FOR BIKEWAY	TON	843 *	
2341.510	BINDER COURSE MIXTURE FOR BIKEWAY	TON	843 *	
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	418	
2358.501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.	2,510	
2501.511	18" C.M. PIPE CULVERT 16 GAUGE	L.F.	275	
2501.515	15" C.M. PIPE APRONS	EACH	44	
2501.511	15" C.M. PIPE CULVERT 16 GAUGE	L.F.	722	
2501.511	24" R.C. PIPE SEWER, CLASS II	L.F.	1	
2506.522	ADJUST FRAME & RING CASTING	EACH	5	
2506.509	CONSTRUCT C.B., DESIGN A OR F	EACH	3	
2535.501	BITUMINOUS CURB (B)	L.F.	700	
2575.505	SODDING	S.Y.	12,210	
2575.531	COMMERCIAL FERTILIZER, ANALYSIS 12-12-12	TON	0.8	
412.604	TIMBER WALL	S.F.	2,185	
504.602	ADJUST VALVE BOX	EACH	5	

NOTE: THE CONTRACTOR IS ADVISED THAT HE MAY USE AGGREGATE BASE, CLASS 6 OR, AS AN ALTERNATE, HE MAY USE 100% CRUSHED MATERIAL WHICH MEETS THE REQUIREMENTS OF CLASS 5 IN TABLE 3138-1 OF THE MN/DOT STANDARD SPECIFICATIONS.



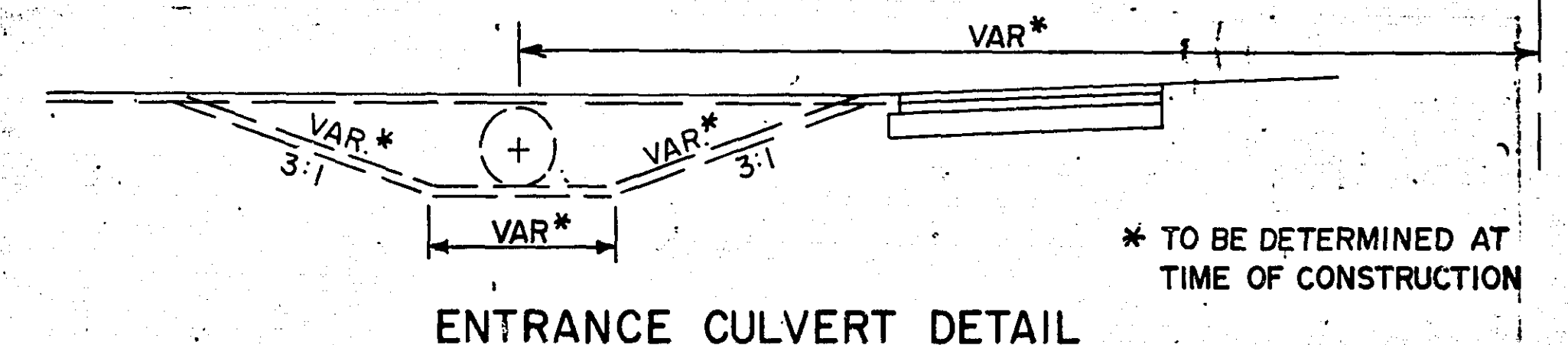
* INCLUDES 185 TONS FOR DRIVEWAY RESTORATION



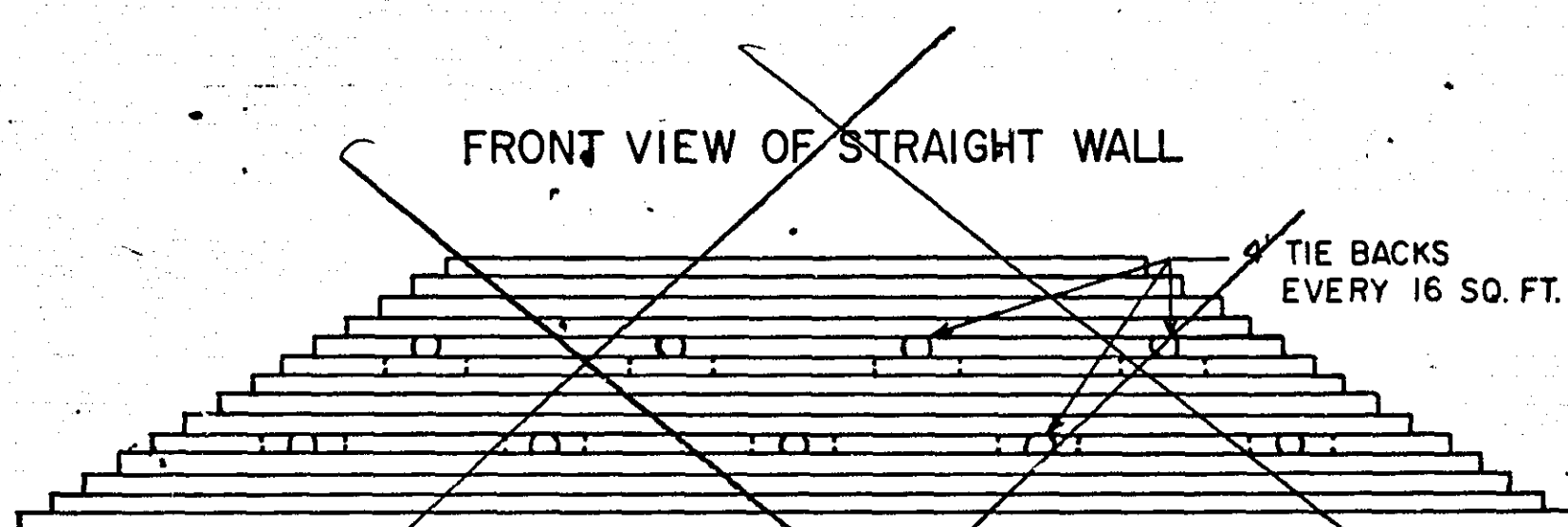
SIGNING AND PAINTING BY OTHERS

STANDARD DETAIL PLATES	
0003 A	SPECIFICATION REFERENCE TO STANDARD PLATES
3000 I	REINFORCED CONCRETE PIPE
3006 C	GASKET JOINT FOR REINFORCED CONCRETE PIPE
3040 F	C.M.P. CULVERT
3123 H	METAL APRON FOR C.M.P.
4000 H	MANHOLE OR CATCH BASIN
4010 E	CONCRETE SHORT CONE AND ADJUSTING RING
4011 D	PRECAST CONCRETE BASE
4101 B	RING CASTING FOR MANHOLE OR CATCH BASIN
4140 D	SPECIAL GRATE CASTING FOR CATCH BASIN
7065 C	BITUMINOUS CURB
8000 H	STANDARD BARRICADES
9102 C	SODDING AT PIPE CULVERT ENDS

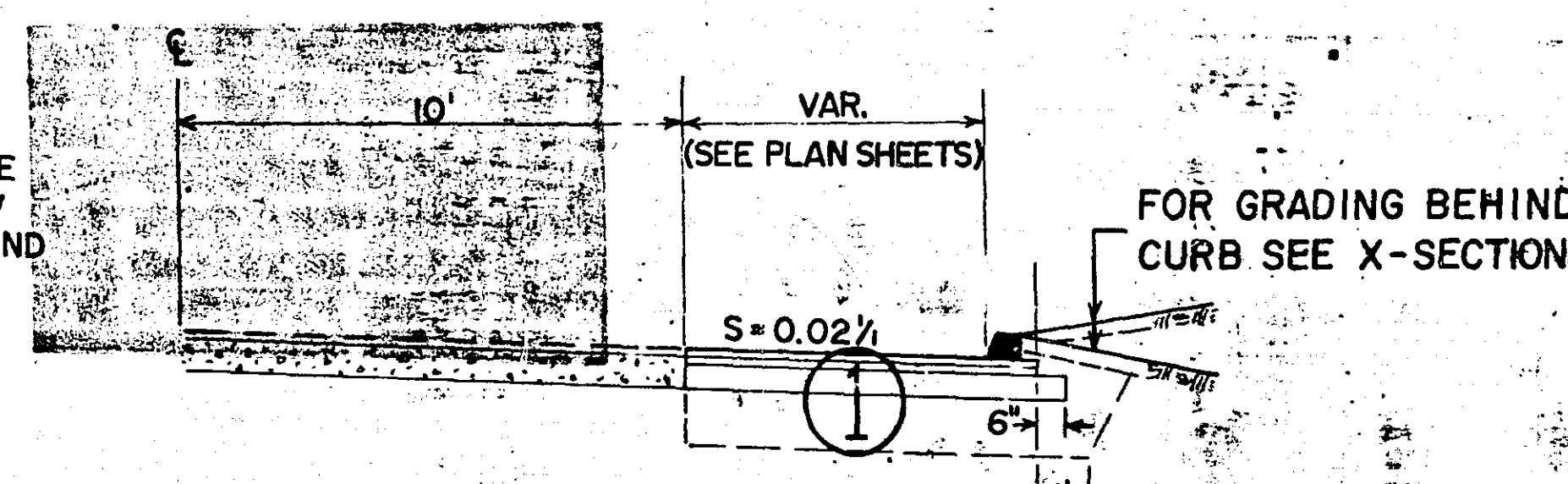
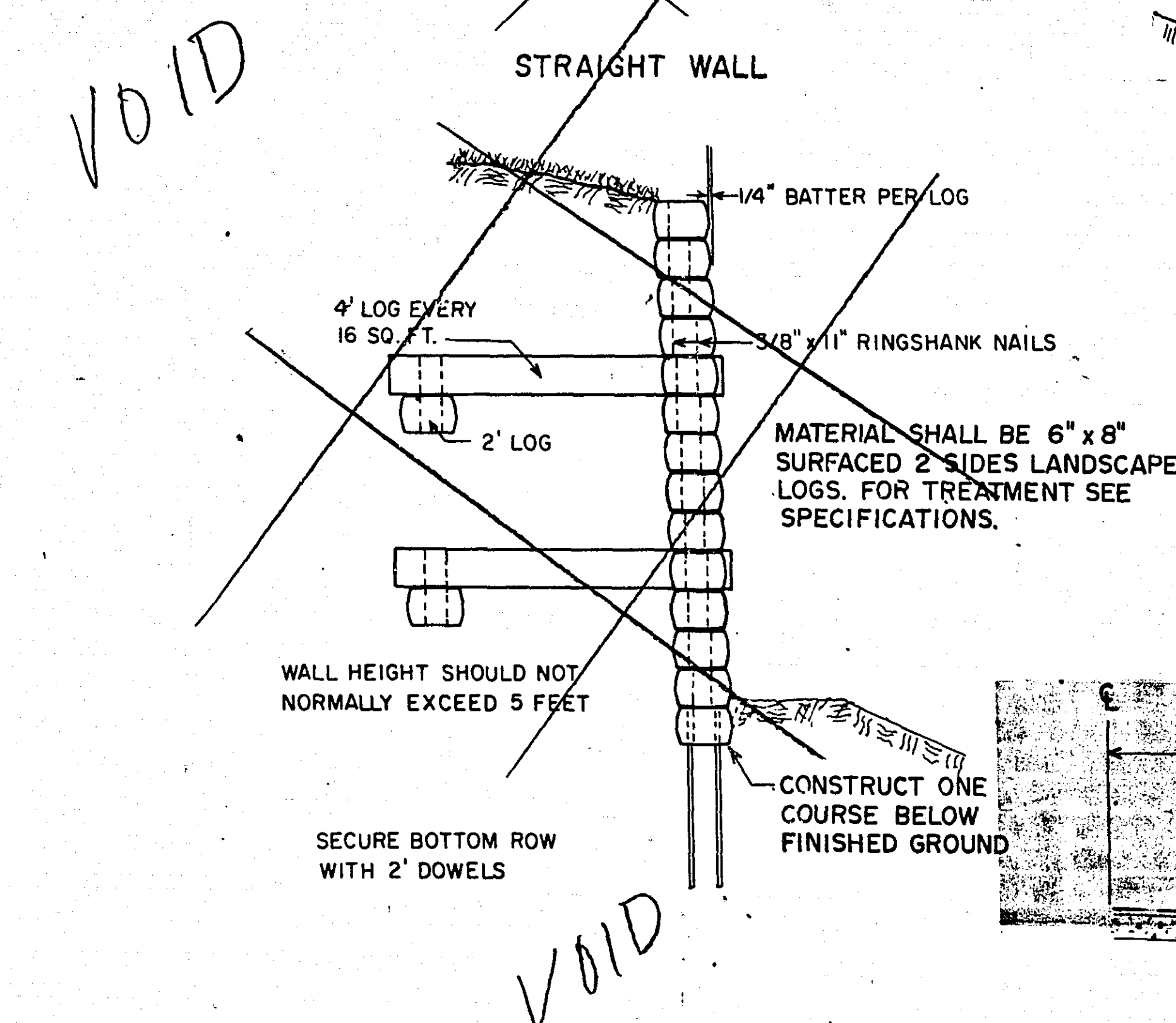
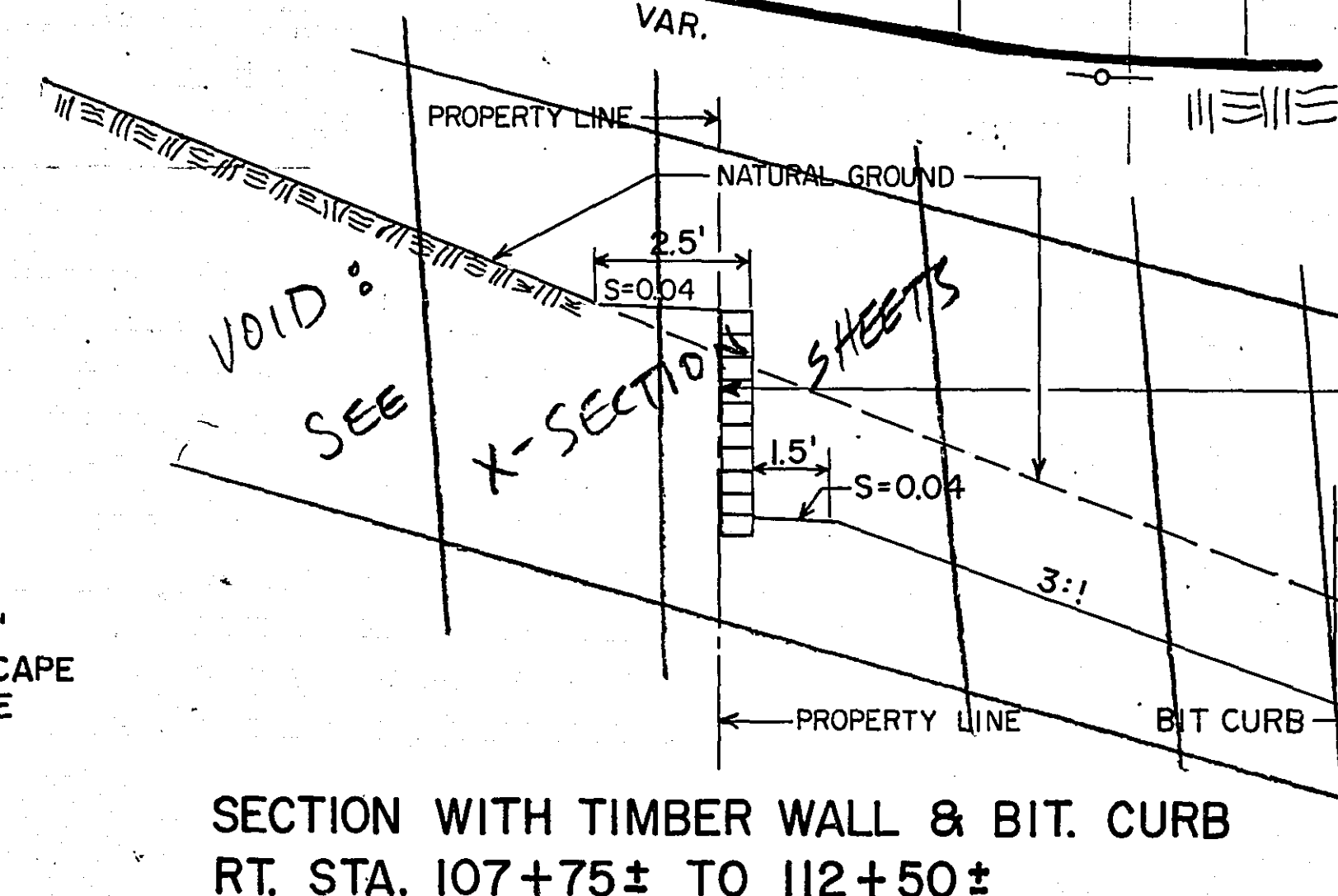
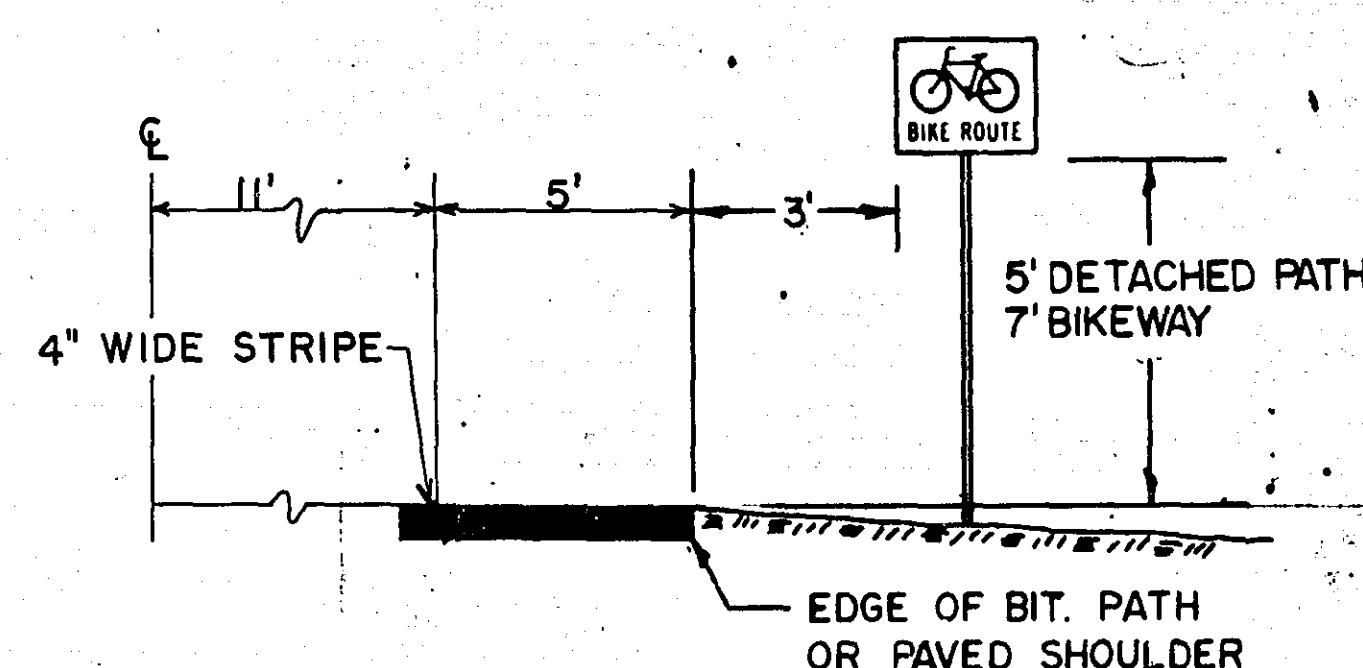
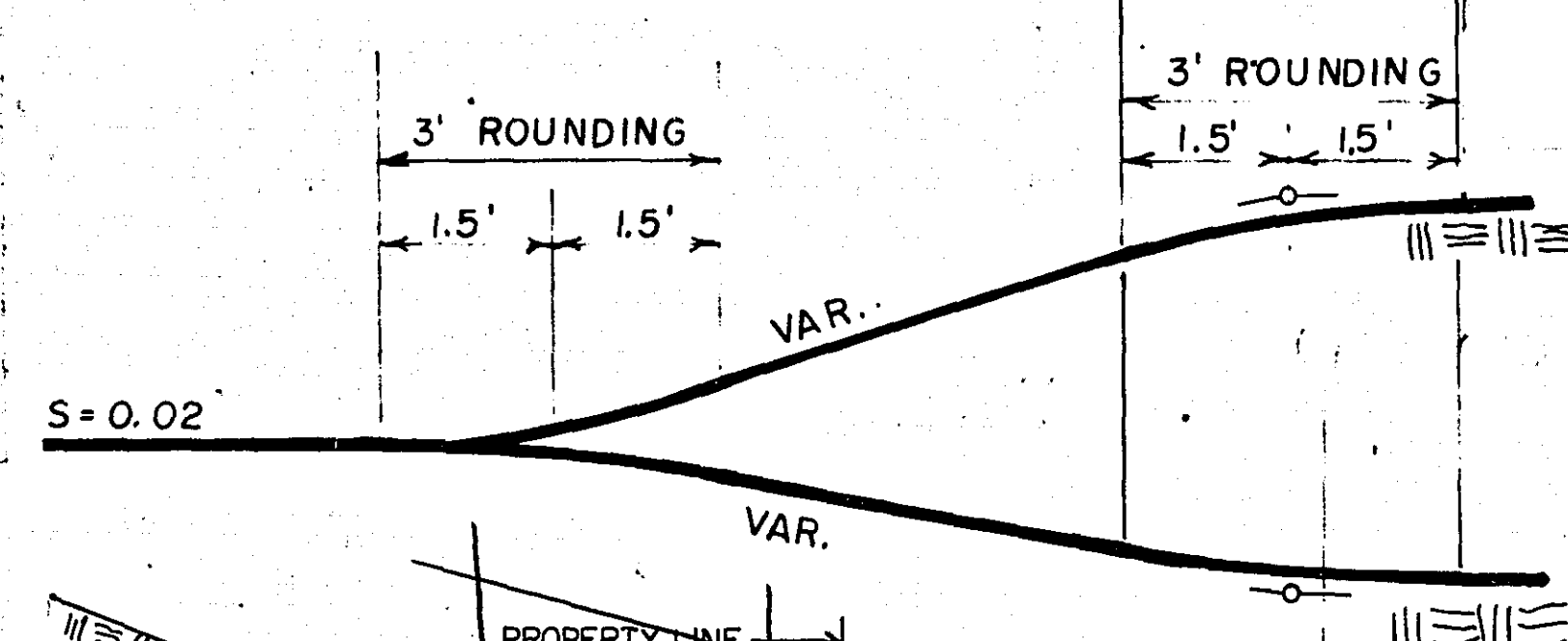
NOTE: PARTIAL REMOVAL OF TIMBER, MASONRY, OR FLAGSTONE CULVERT HEADWALLS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION BY THE ENGINEER. PAYMENT FOR SUCH WORK SHALL BE INCIDENTAL TO COMMON EXCAVATION.



* TO BE DETERMINED AT TIME OF CONSTRUCTION



SLOPE ROUNDING DETAIL



2" PLANT MIXED BIT. SURFACE SPEC. 2341 WEAR
2" PLANT MIXED BIT. SURFACE SPEC. 2341 BINDER
6" AGGREGATE BASE, CLASS 6 OR 5 100% CRUSHED
1" SUBCUT FOR UNIFORMITY & COMPACTION (TYPICAL)

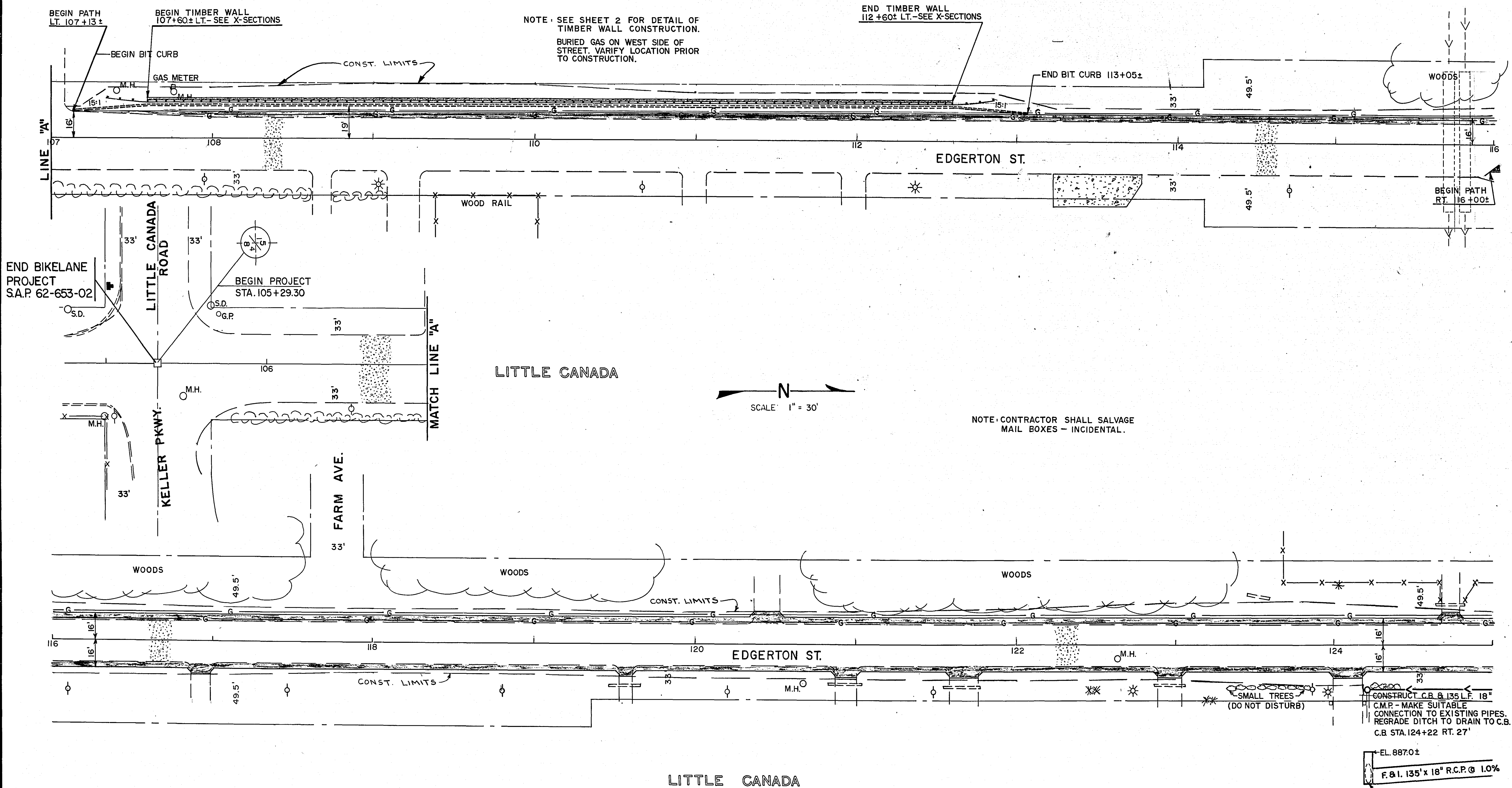
STA. 105+29.30 to STA. 159+40

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 7-10-81 Reg. No. 13501

S.A.P. NO. 62-658-03

Sheet No. 2 of 14 Sheets

LITTLE CANADA



SCALE 1" = 30'

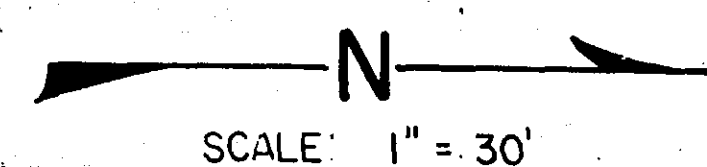
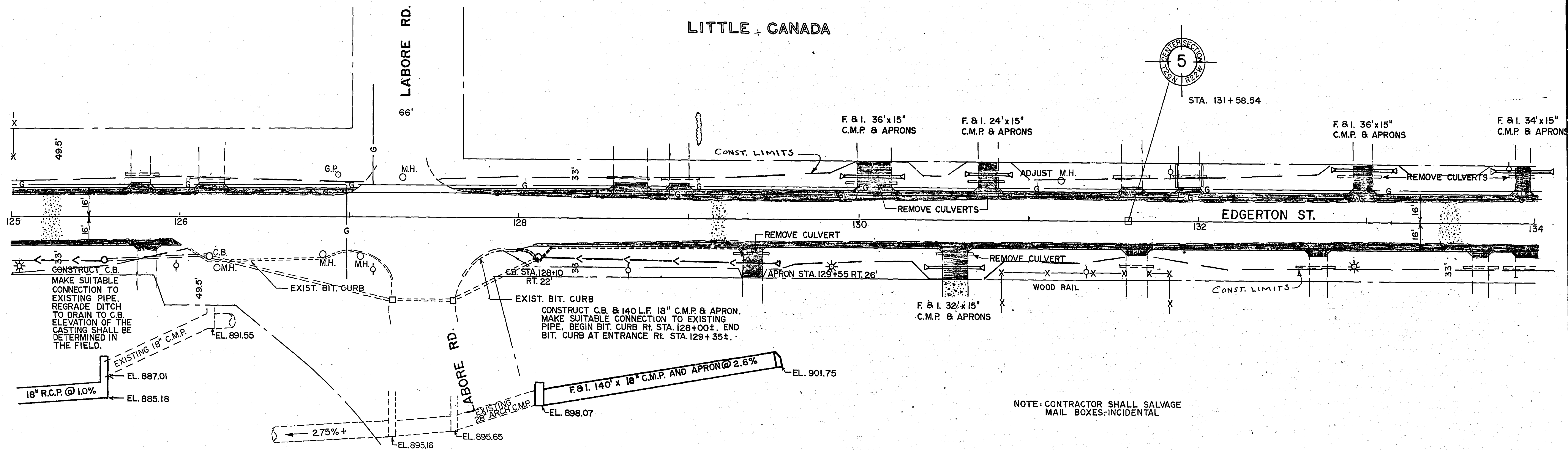
NOTE: CONTRACTOR SHALL SALVAGE MAIL BOXES - INCIDENTAL.

REVISED	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
R30	5-12-81			

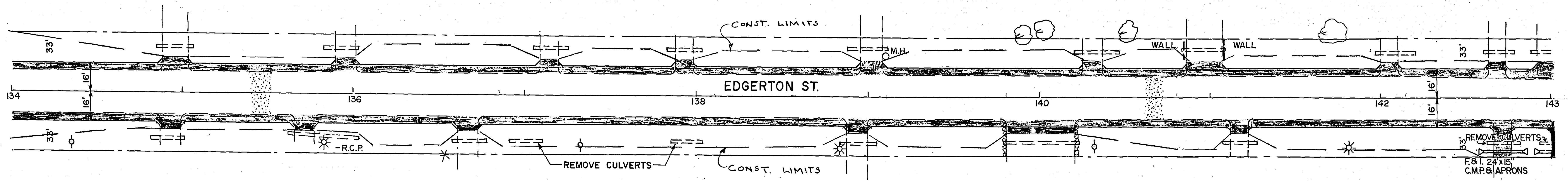
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

K. J. Felt

Date: 7-18-81 Reg. No. 13501



LITTLE CANADA



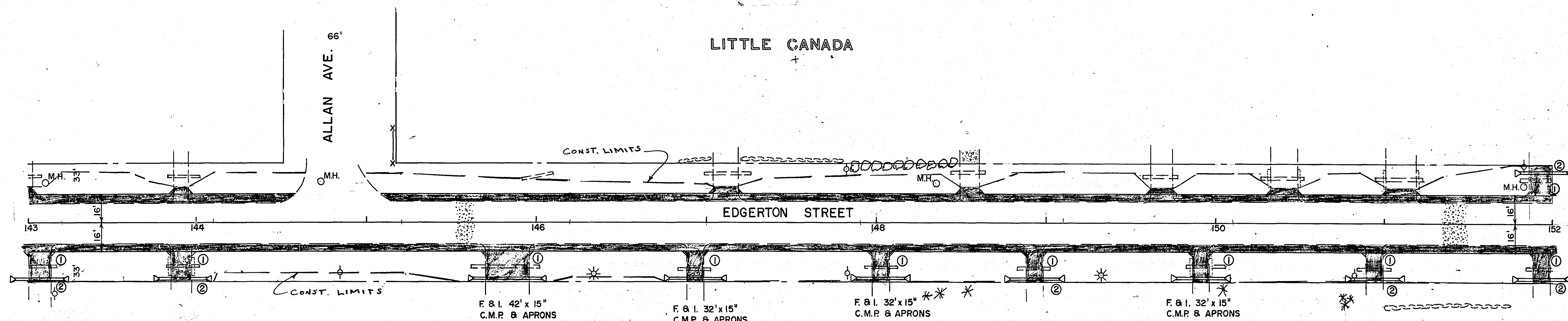
LITTLE CANADA

REVISED	DATE	DESIGNED BY
1	5-12-81	
2	5-13-81	
		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.

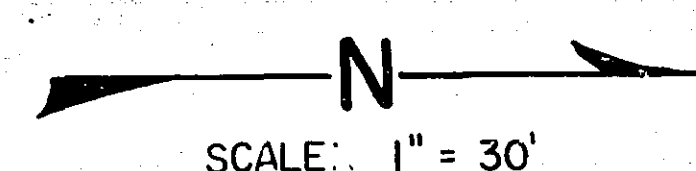
Harry R. Felt

Date 7-10-81 Reg. No. 13501

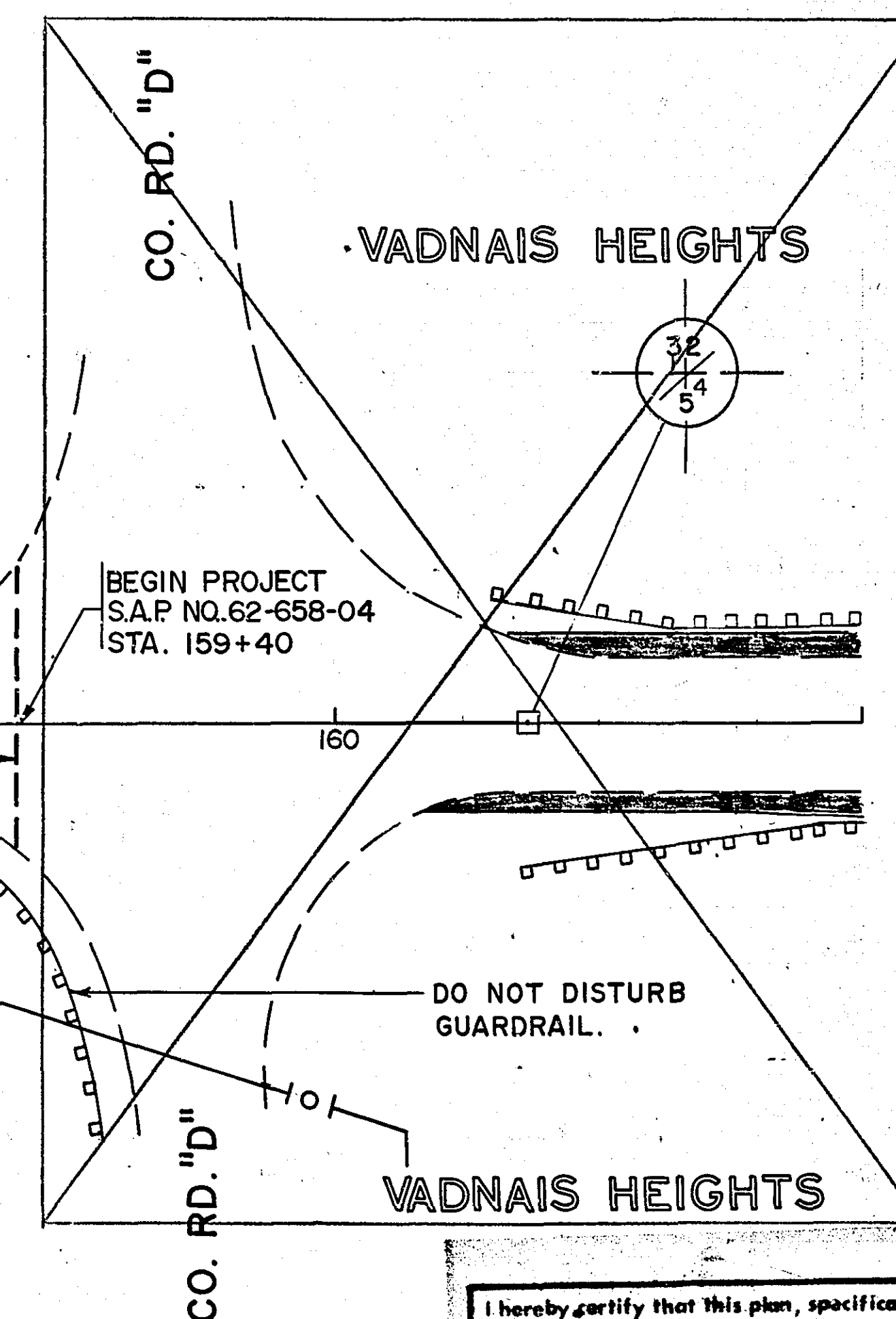
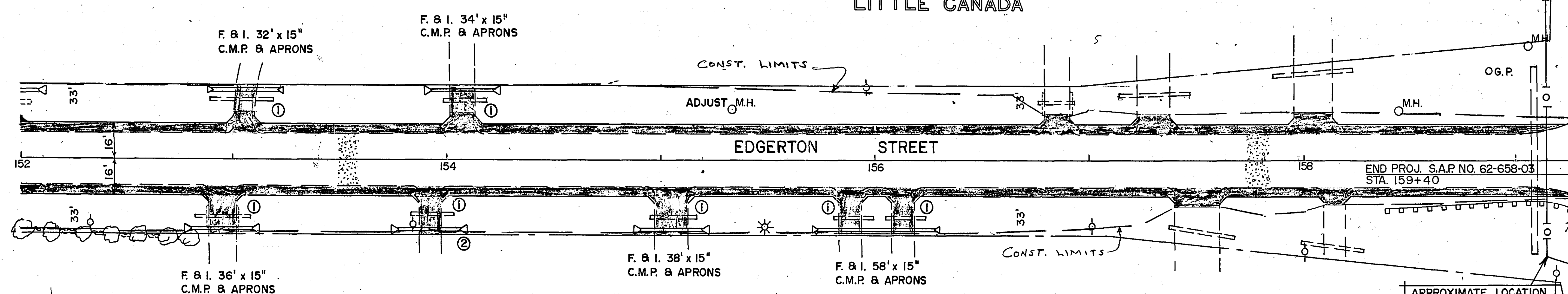


NOTE: CONTRACTOR SHALL SALVAGE
MAIL BOXES - INCIDENTAL.

- ① REMOVE EXISTING C.M.P.
- ② F. & I. 30' x 15" C.M.P. & APRONS

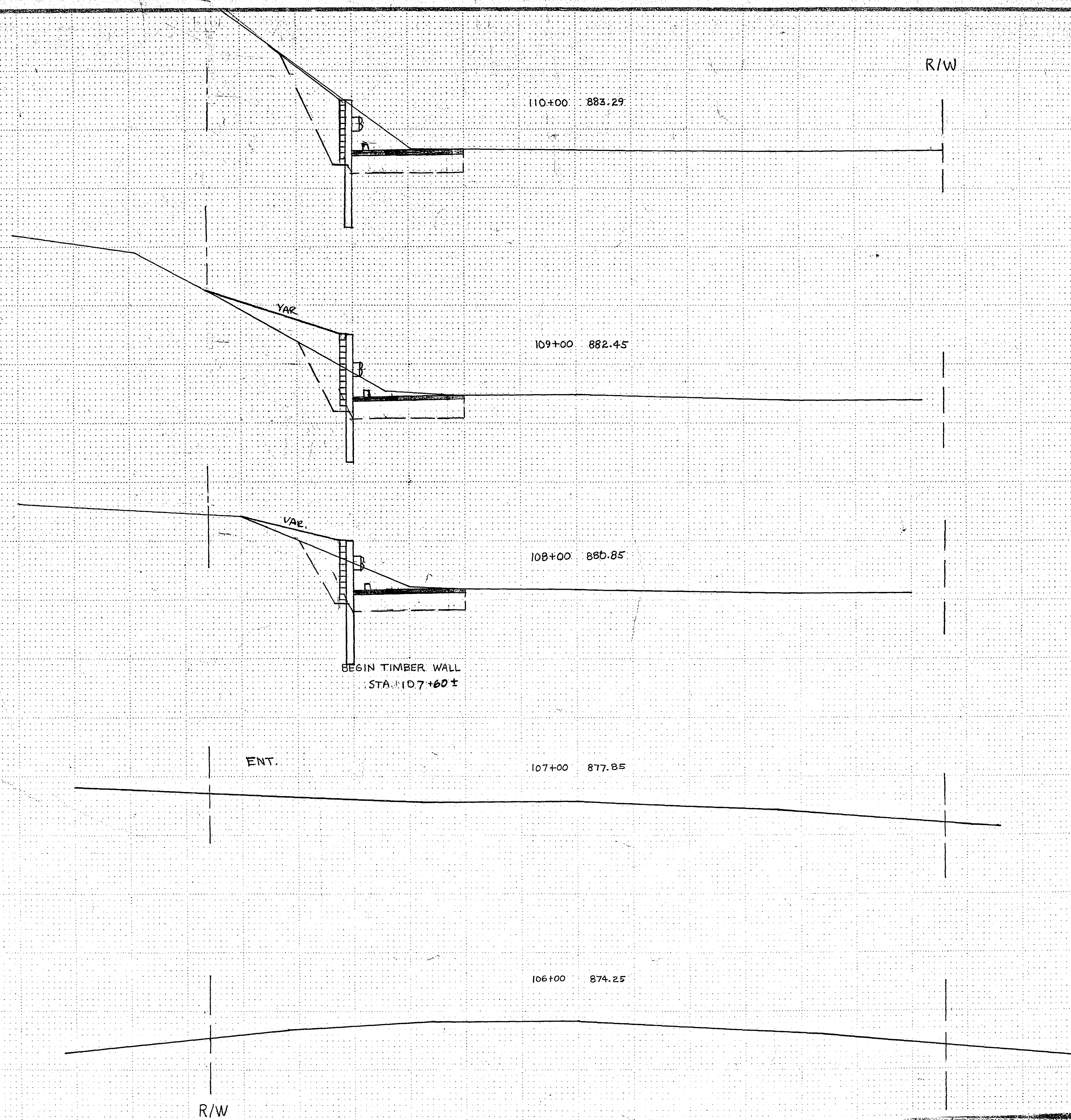


CAUTION
PIPELINE CROSSING
DO NOT DIG WITHOUT
NOTIFYING AMOCO OIL CO.
CALL:
RALPH COSTELLO
425-4201



REVISED	DATE	DESIGNED BY
R50	5-19-81	
M.P.M.	9/16/81	
		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.
Ralph K. Costello
Date 7-17-81 Reg. No. 13521



REVISED	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
2-2-52	5-12-52			

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 Illinois.

Harry R. Teller

Date 7-10-52 Reg. No. 13501

Fed. Proj. No.

R/W

R/W

116+00 872.27

115+00 873.07

114+00 875.17

113+00 878.37

112+00 880.77

111+00 882.67

END WALL +60 ±

R/W

REVISED	DATE	DESIGNED BY	
2/2/81	5-12-81	DRAWN BY	
R/W		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.
Harry K. Felt
Date 7-10-81 Reg. No. 13501

Fed. Proj. No.

R/W

122+00 881.33

R/W

121+00 879.03

120+00 876.93

119+00 874.43

118+00 871.97

117+00 871.57

R/W

REVISED	DATE	DESIGNED BY	
		DRAWN BY	
		CHECKED BY	
			R/W

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.
Harry K. Tiedeman
 Date 7-10-81 Reg. No. 3501

S.A.P. NO. 62-658-03

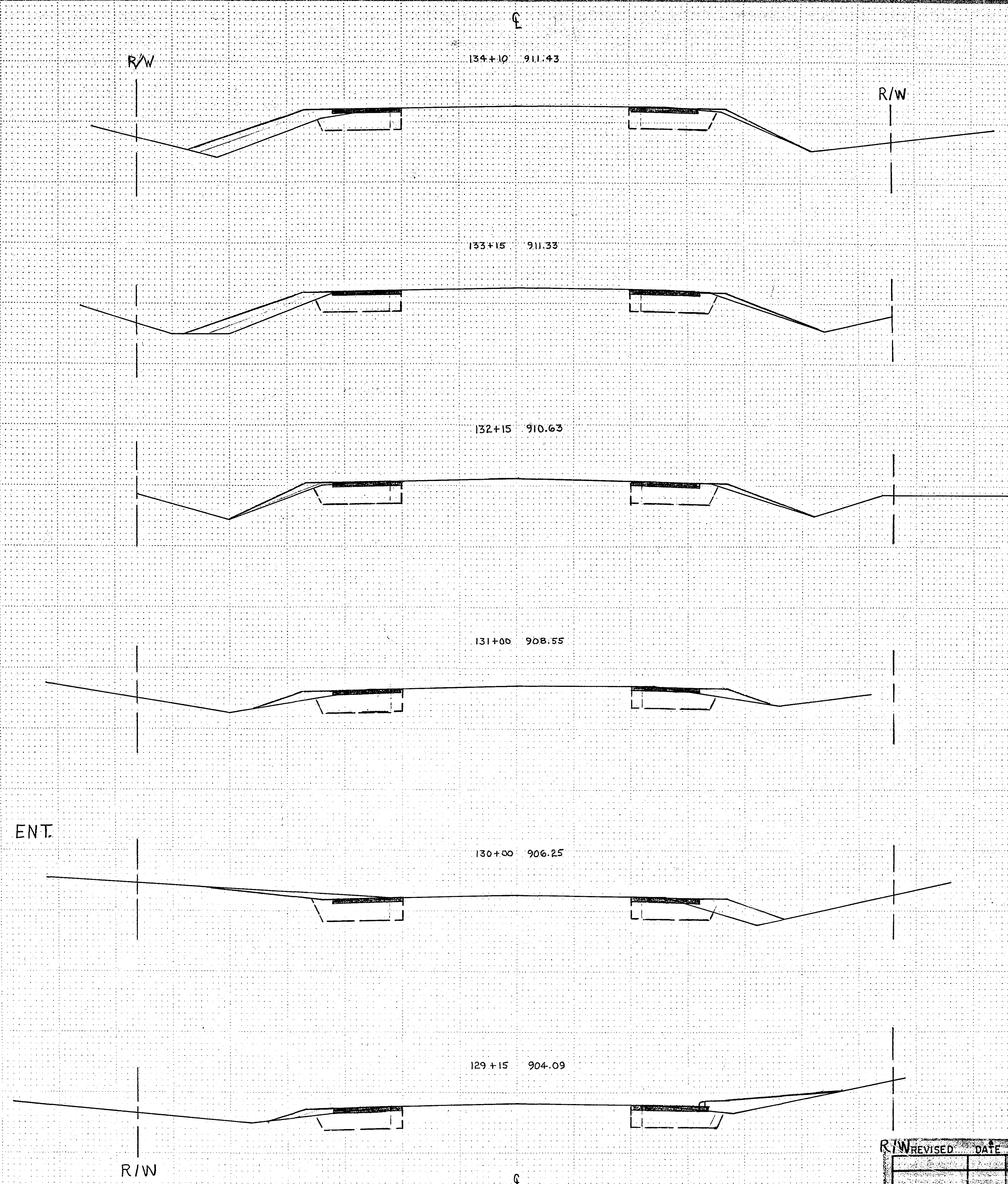
Sheet No. 8 of 14 Sheets



R/W 105' →

REVISED	DATE	DESIGNED BY	CHECKED BY
R/W			

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.
Randy K. Teltz
 Date 7-10-81 Reg. No. 13501

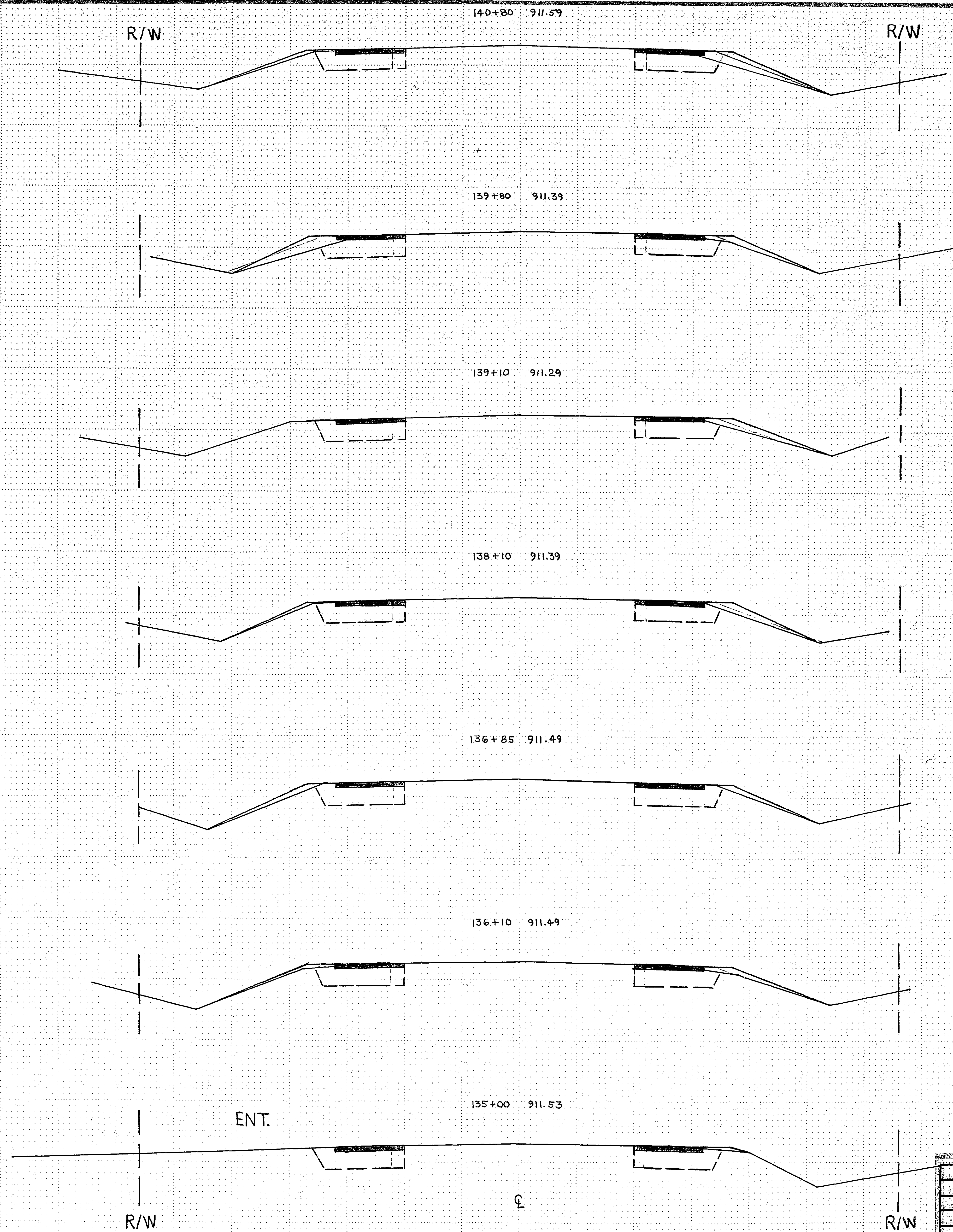


ENT.

REVISED	DATE	DESIGNED 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.
Larry R. Feldman
 Date 7-10-81 Reg. No. 13501

Fed. Proj. No.



REVISED	DATE	DESIGNED BY	
		DRAWN BY	
		CHECKED BY	

I hereby certify that the plan, specification, and 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.

Harry K. Feldt

Date 7-18-81 Reg. No. 13501

Fed. Proj. No.

R/W

155+20 910.27

R/W

154+20 910.44

153+20 910.44

152+10 910.44

150+80 910.74

150+10 910.68

149+10 910.48

R/W

R/W

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.
Harry K. Fellner
Date 7-10-81 Reg. 62501

S.A.P. NO. 62-658-03

Sheet No. 13 of 14 Sheets

Fed. Proj. No.

R/W

R/W

147+90 910.58

147+00 910.88

146+20 911.14

145+20 911.24

144+10 911.34

143+20 911.44

142+15 911.54

R/W

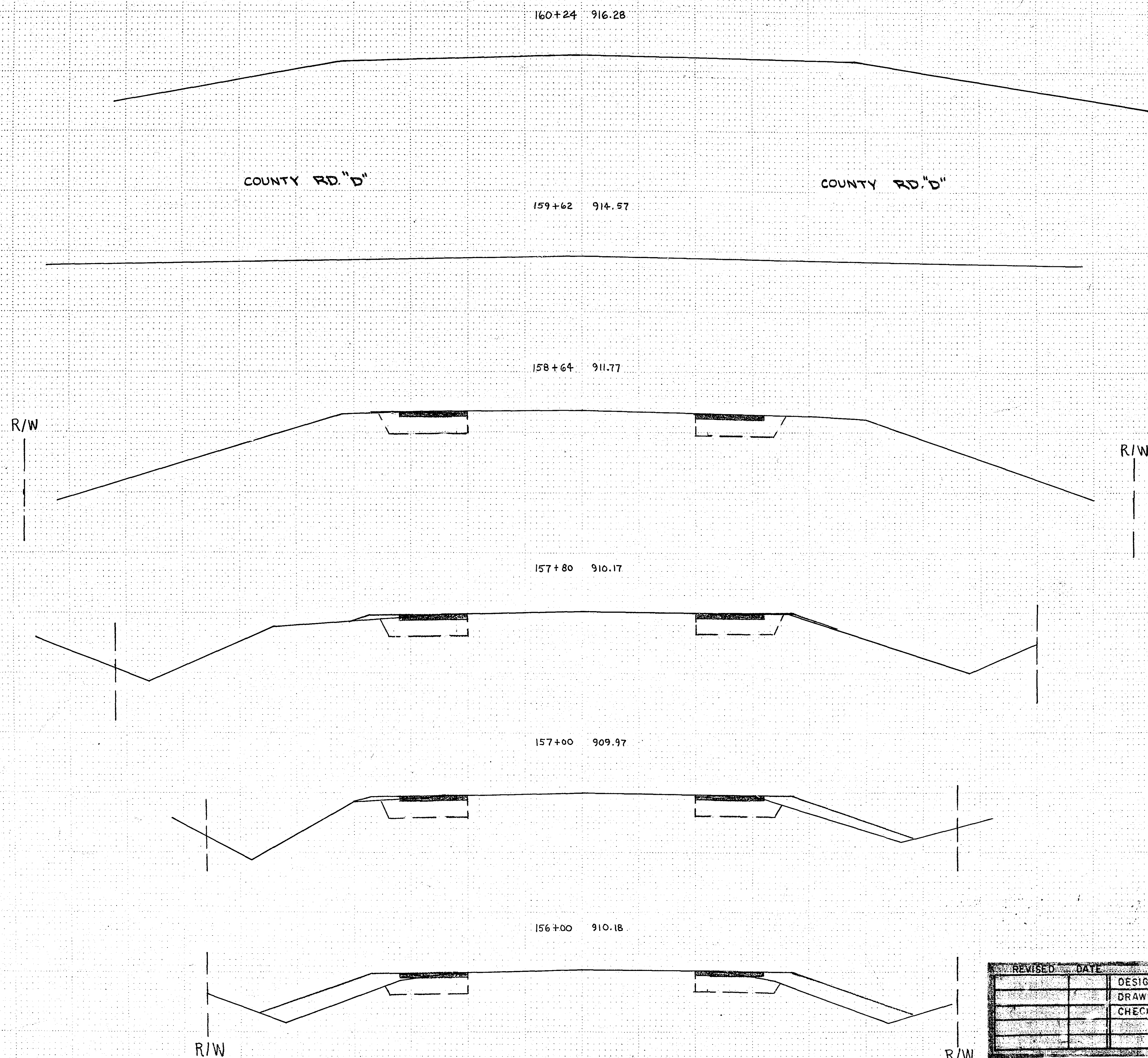
R/W

REVISED	DATE	DESIGNED 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.
Harry K. Fellner
Date 7-10-81 Reg. No. 13501

S.A.P. NO. 62-658-03

Sheet No. 12 of 14 Sheets



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.
Danny R. Feltner
 Date 7-18-81 Reg. No. 13501