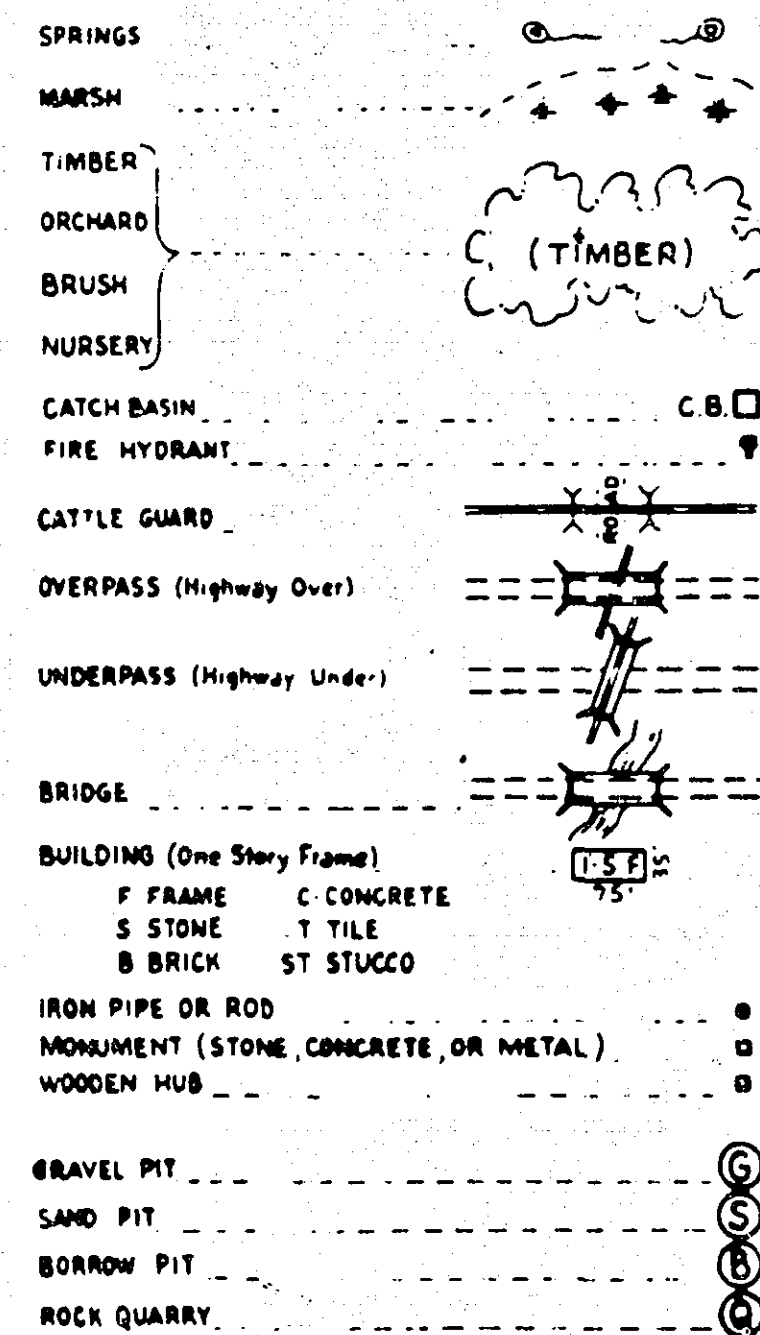
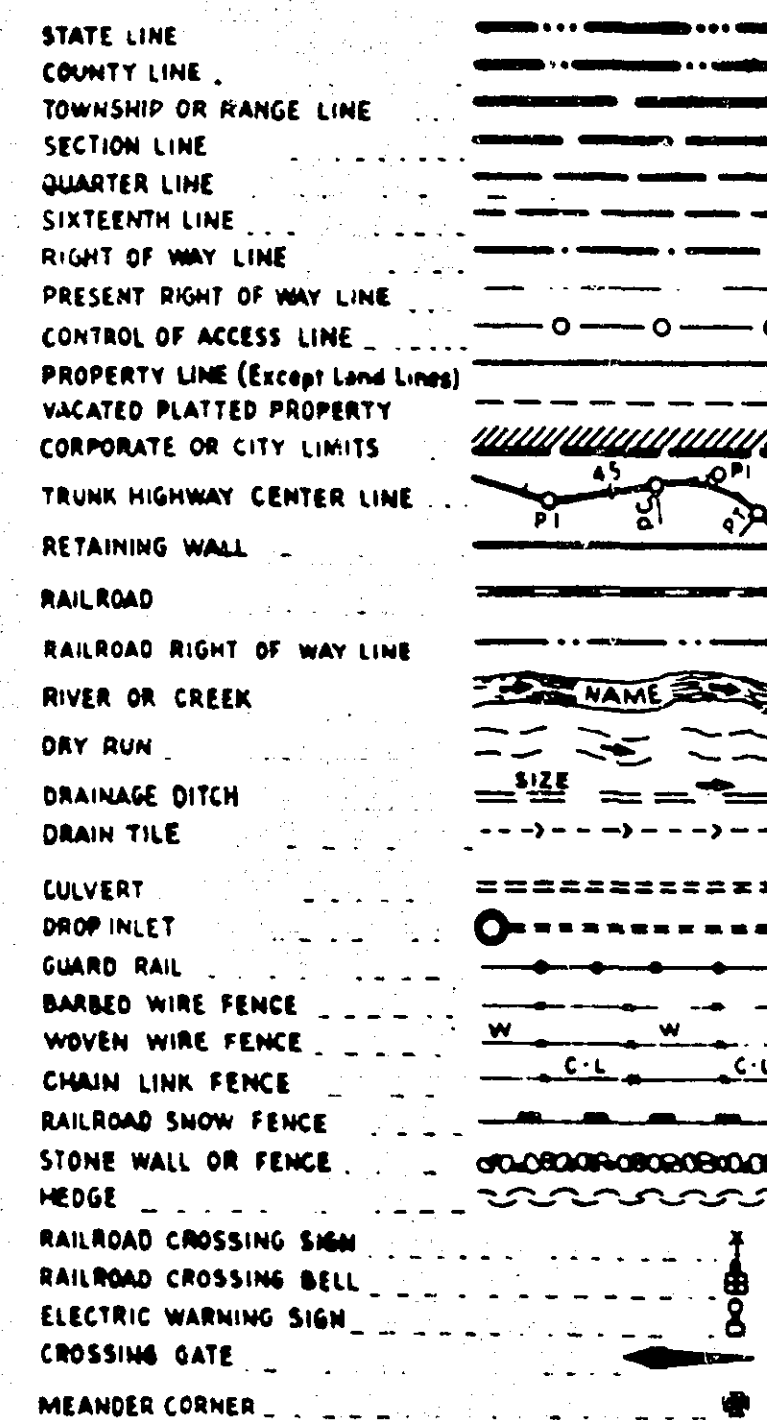
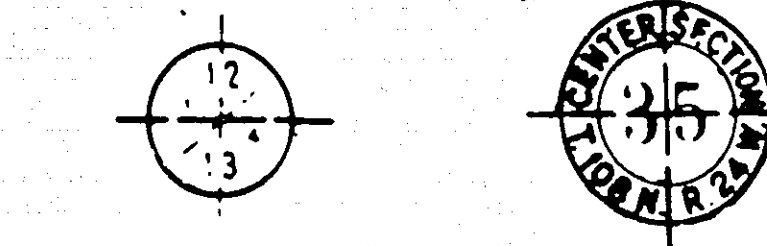
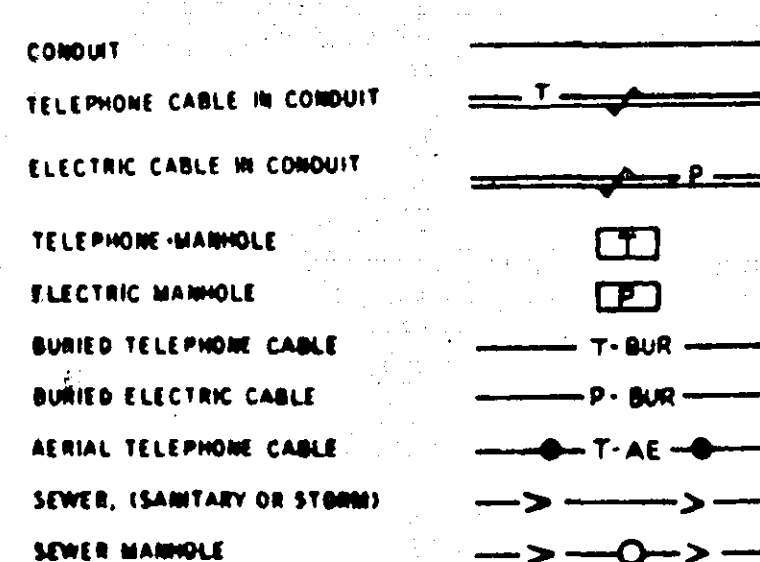
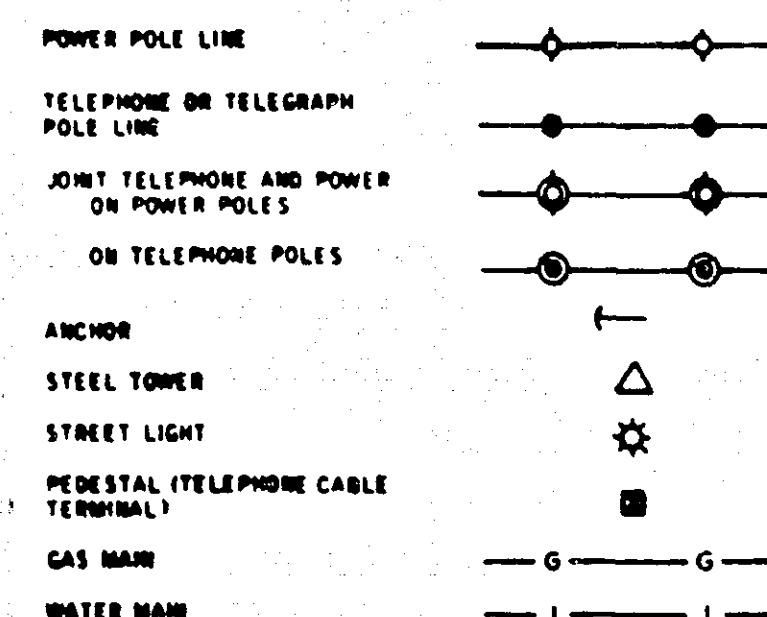


PLANS SYMBOLS



UTILITIES SYMBOLS



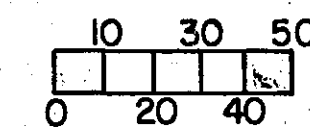
PIT DATA

PIT NO. _____ Located in _____
Dead Haul

PIT NO. _____ Located in _____
Dead Haul

PLAN

LAYOUT MAP



S.A.P. NO. 62-659-03

GROSS LENGTH 6,485 FEET 1.228 MILES
BRIDGE LENGTH 0 0
EXCEPTIONS 0 0
NET LENGTH 6,485 1.228

S.A.P. NO. 62-590-02

1,080 FEET 0.2045 MILES
0 0
0 0
1,080 0.2045

TRAFFIC VOLUME

A.D.T. 1980 2000
CENTERVILLE RD. EDGERTON ST. to CTY. RD. "E" 2025 6000
CTY. RD. "E" to LABORE RD. 950 6000
LABORE ROAD CENTERVILLE RD. to GOOSE LK. RD. 600 1600



BEGIN PROJECT STA. 0+00

S.A.P. NO. 62-590-02

END PROJECT STA. 10+80

END PROJECT STA. 157+85

S.A.P. NO. 62-659-03

BEGIN PROJECT STA. 93+00

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES & TYPICAL SECTIONS
3-4	PLAN SHEETS
5-19	CROSS SECTIONS

DESIGN SQUAD R. Weber DATE 2-23-81
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 2-27-81 REG. NO. 13501 ENGR. Larry K. Feldman

RECOMMENDED FOR APPROVAL PJL DATE 3-20-81
TRAFFIC ENGR.

RECOMMENDED FOR APPROVAL Tom St. John DATE 2-27-81
COUNTY ENGINEER

RECOMMENDED FOR APPROVAL DRG DATE 2/27/81
ENV. ENGR.

APPROVED Robert J. Carter DATE 2-20-82
CHAIRMAN OF THE RAMSEY COUNTY BOARD

RECOMMENDED FOR APPROVAL MDK DATE 2/27/81
MAINT. ENGR.

APPROVED Gerald Wilson DATE 6-2-82
CITY OF VADNAIS' HEIGHTS

RECOMMENDED FOR APPROVAL DRG DATE 2/27/81
CONST. ENGR.

APPROVED _____ DATE _____

RECOMMENDED FOR APPROVAL LKF DATE 2/27/81
DESIGN ENGR.

MINNESOTA DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL DRG DATE 3-20-81
ENV. ENGR.

RECOMMENDED FOR APPROVAL Delbert O. Osterhell DATE 7-26-82

APPROVED Wendy L. Loomis DATE 3-20-81
DESIGNING ENGR.

RECOMMENDED FOR APPROVAL _____ DATE _____

APPROVAL Wendy L. Loomis DATE 7/27/82
DIRECTOR, OFFICE OF STATE AID

DATE	SHEET NO.	BY
6-12-81	ENTIRE PLAN	B.J.

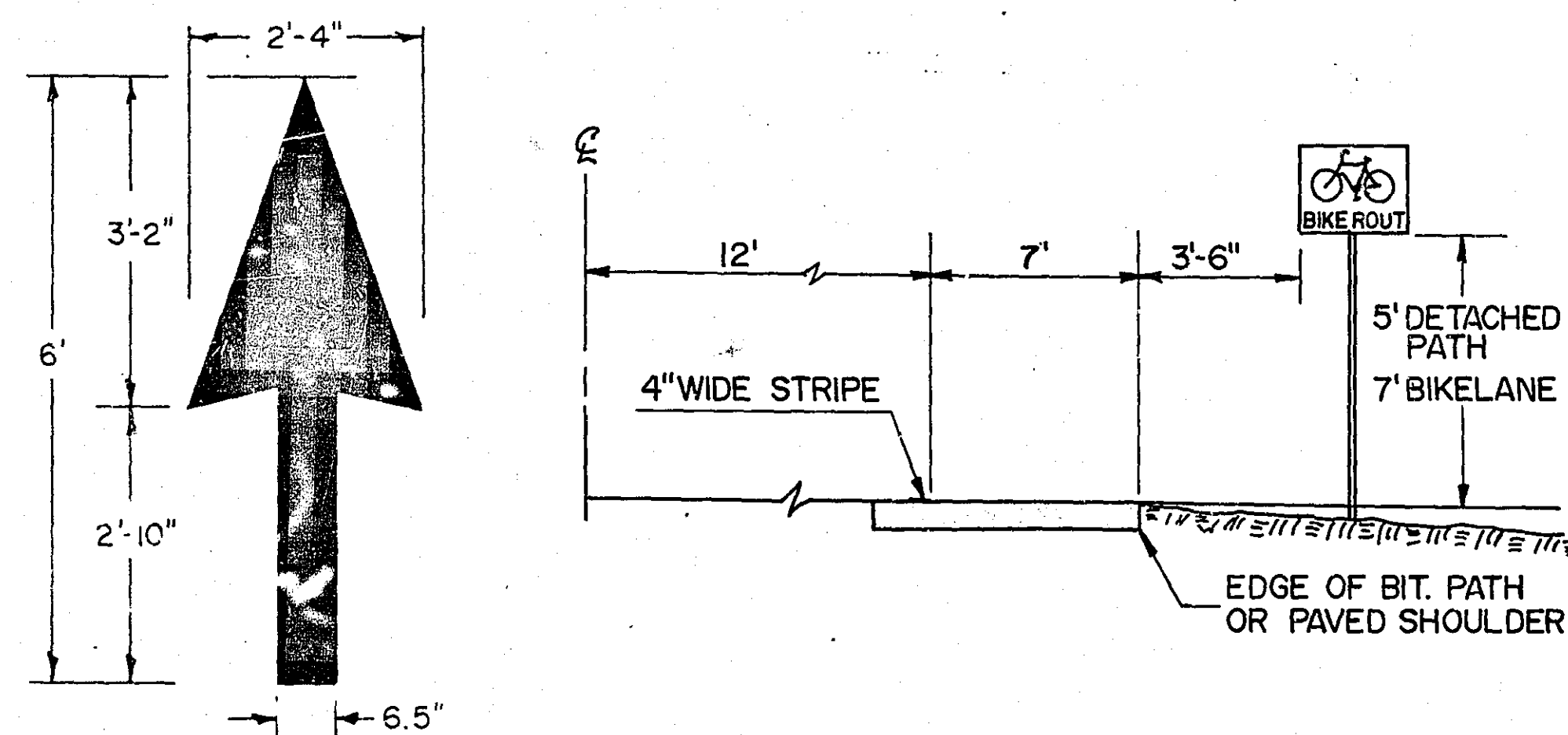
THE 1978 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" SHALL GOVERN.

S.A.P. NO. 62-659-03; 62-590-02

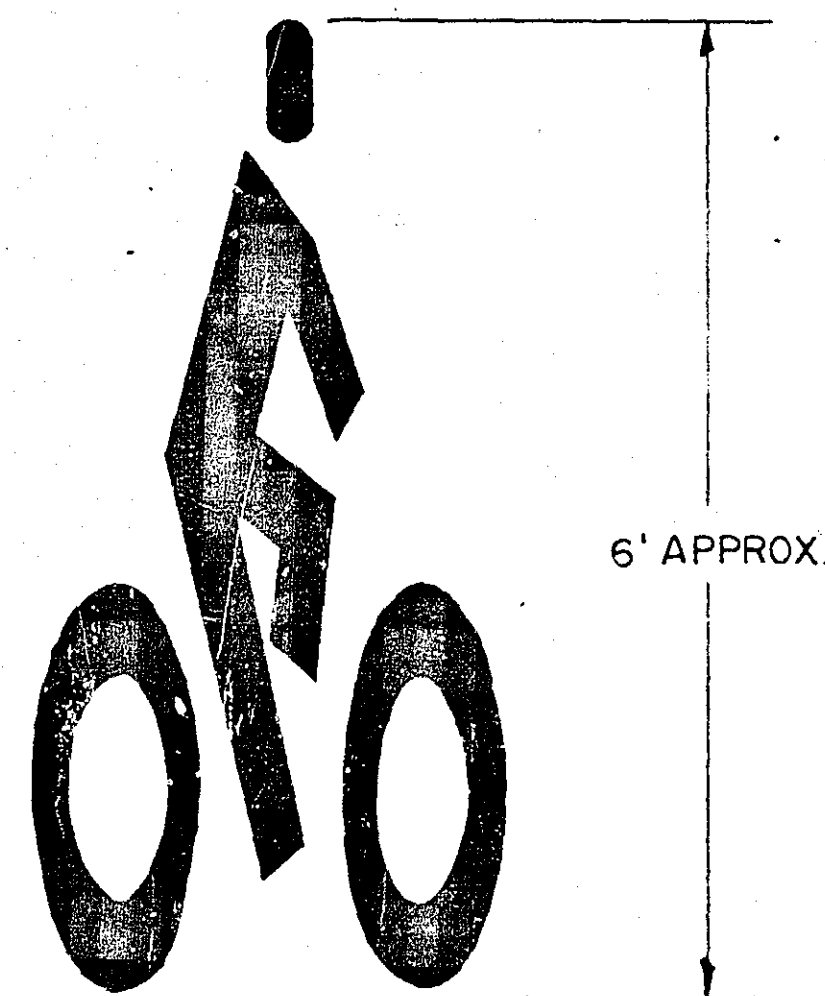
Sheet No. 1 of 19 Sheets

STATEMENT OF ESTIMATED QUANTITIES			S.A.P. NO. 62-659-03 CENTERVILLE ROAD	S.A.P. NO. 62-590-02 LABORE ROAD	
ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES	ESTIMATED QUANTITIES	TOTAL ESTIMATED QUANTITIES
2021.501	MOBILIZATION	LUMP SUM			
2101.502	CLEARING	TREE	12	0	12
2101.507	GRUBBING	TREE	12	0	12
2104.501	REMOVE CULVERT PIPE	L.F.	380	0	380
2104.505	REMOVE CONCRETE PAVEMENT	S.Y.			
2105.501	COMMON EXCAVATION	C.Y.	8,224	864	9,088
2105.523	COMMON BORROW (LV)	C.Y.	745	65	810
2105.525	TOPSOIL BORROW (LV)	C.Y.			
2211.501	AGGREGATE BASE, CLASS 6 OR CLASS 5 100% CRUSHED	TON	5,073	673	5,746
2331.512	LEVELING COURSE MIXTURE	TON	750	0	750
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	291	20	311
2341.508	WEARING COURSE MIXTURE	TON	2,180	140	2,320
2341.510	BINDER COURSE MIXTURE	TON	2,906	186	3,092
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	1,257	85	1,342
2358.501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.			
2461.501	STRUCTURAL CONCRETE	C.Y.			
2501.511	30" C.S. PIPE CULVERT, 16 GAUGE	L.F.			
2501.511	15" C.S. PIPE CULVERT, 16 GAUGE	L.F.			
2501.511	24" C.S. PIPE CULVERT, 16 GAUGE	L.F.	26	0	26
2501.511	24" R.C. PIPE SEWER, CLASS II	L.F.	78	0	78
2501.515	15" C.S. PIPE APRONS	EACH			
2501.515	24" C.S. PIPE APRONS	EACH	1	0	1
2501.515	24" R.C. PIPE APRON	EACH	4	0	4
2506.522	ADJUST FRAME AND RING CASTING	EACH	19	0	19
2506.508	CONSTRUCT MANHOLE, DESIGN A OR F	EACH			
2506.509	CONSTRUCT SURFACE DRAIN, DESIGN A OR F	EACH			
2506.509	CONSTRUCT CATCH BASIN	EACH			
2535.501	BITUMINOUS CURB	L.F.	450	0	450
2554.501	TRAFFIC BARRIER, DESIGN 8307A	L.F.	240	0	240
2575.505	SODDING	S.Y.	8,940	774	9,714
2575.531	COMMERCIAL FERTILIZER, ANALYSIS 12-12-12	TON	0.30	0.03	0.33
2571.541	TRANSPLANT TREES	TREE			
2511.503	GROUTED RIPRAP, CLASS A	C.Y.			
2511.504	FILTER BLANKET, TYPE I	C.Y.			
105.631	SALVAGE BITUMINOUS PAVEMENT	S.Y.	13,633	0	13,633
231.601	PAVEMENT BREAKING	STA.	61.35	0	61.35
301.604	SAWCUT CONCRETE PAVEMENT	L.F.			
331.603	SAWCUT BITUMINOUS PAVEMENT	L.F.	640	2,160	2,800
504.602	ADJUST VALVE BOX	EACH	15	0	15
554.607	TWISTED END TREATMENT	EACH	2	0	2

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./D.O.T. STANDARD SPECIFICATIONS.



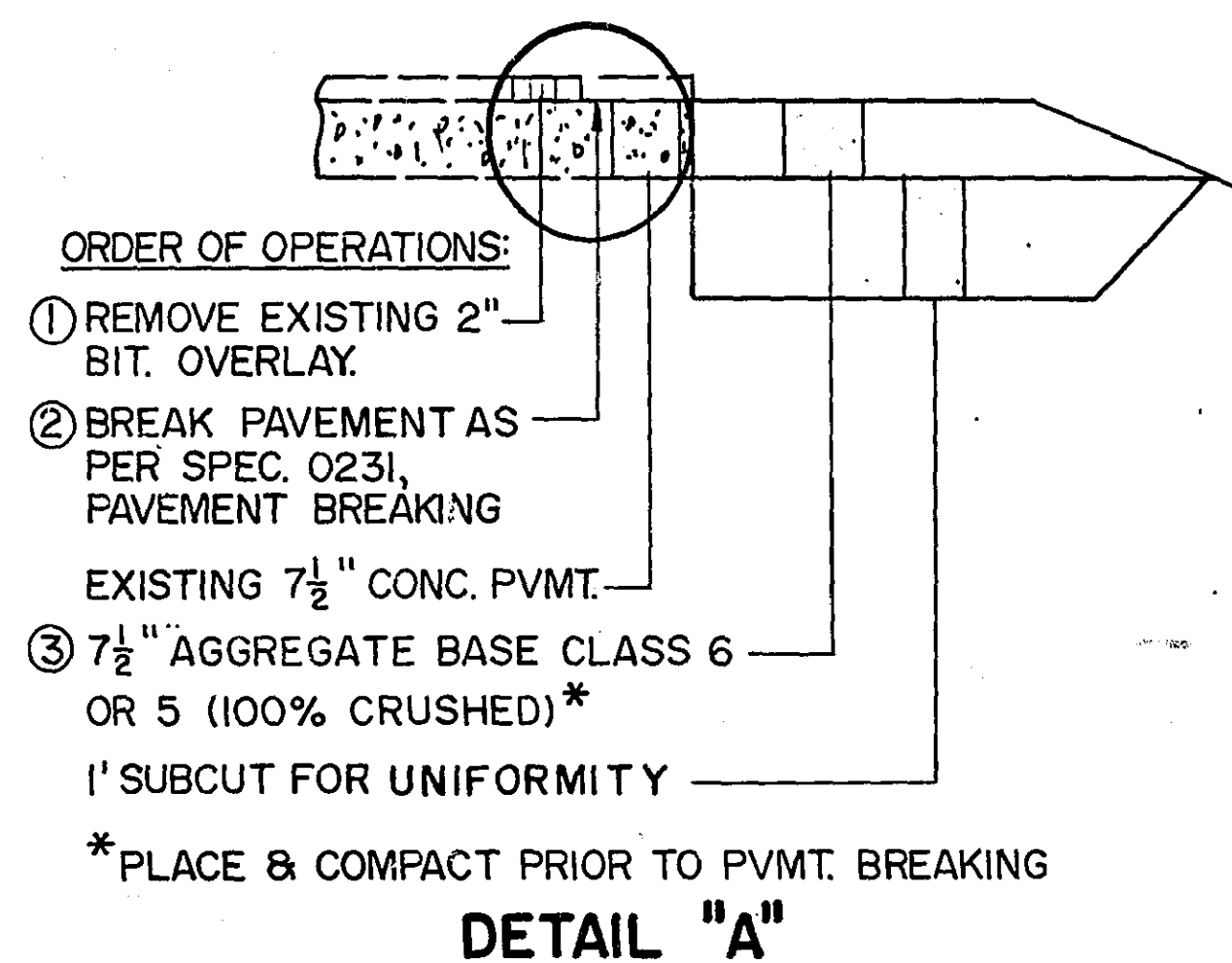
TYPICAL SIGN & PAVEMENT MESSAGE PLACEMENT



SIGNING AND PAINTING BY OTHERS

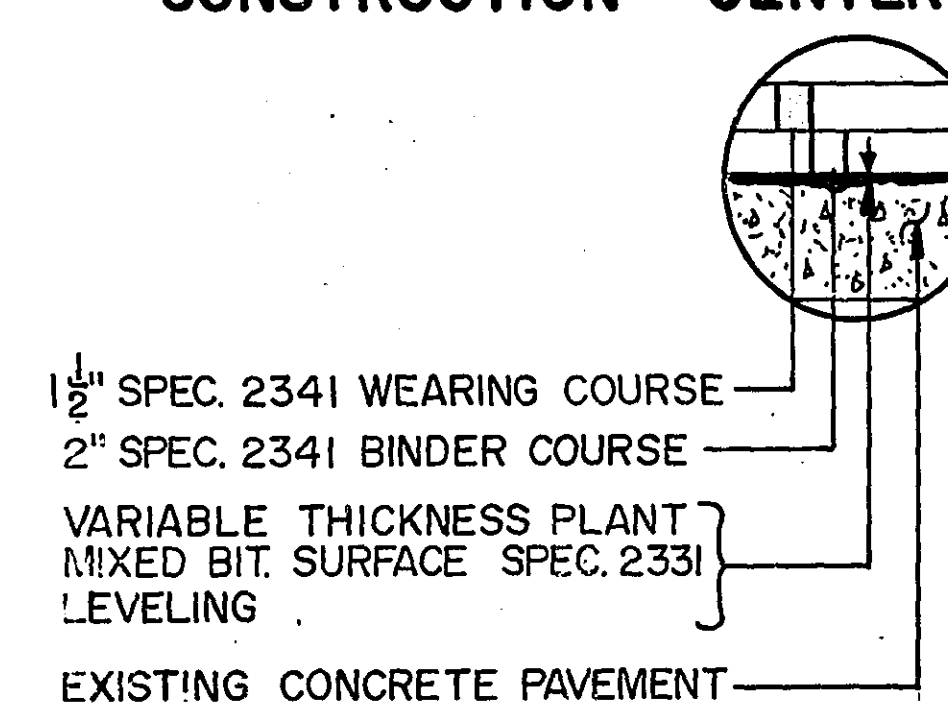
STANDARD DETAIL PLATES	
0003A	SPECIFICATION REFERENCE TO STANDARD PLATES
3000 I	REINFORCED CONCRETE PIPE
3040 F	CORRUGATED METAL PIPE CULVERT
3066 A	CORRUGATED METAL EXTENSION FOR BOX CULVERT
3100 F	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3123 H	METAL APRON FOR C.M. PIPE
3133 A	RIPRAP AT R.C.P. OUTLETS
3221 B	CORRUGATED STEEL PIPE COUPLING BAND
7065 C	BITUMINOUS CURB
8000 H	STANDARD BARRICADES
8319 D	TWISTED END TREATMENT
9102 C	SODDING AT PIPE CULVERT ENDS

SEQUENCE OF OPERATIONS - REMOVALS

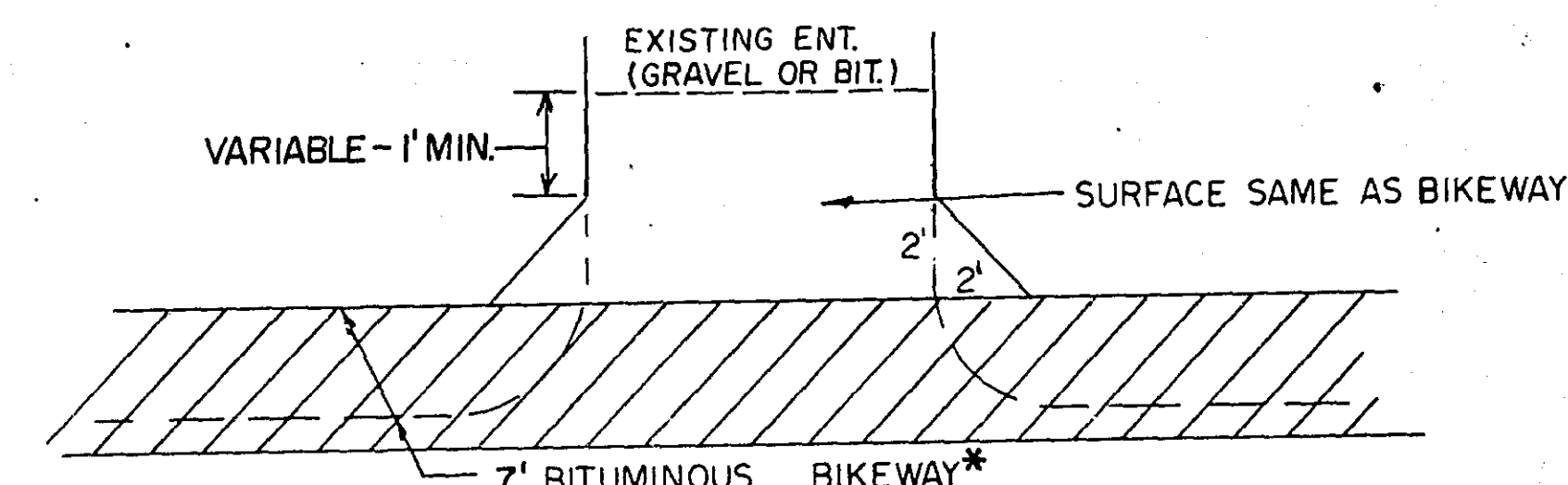


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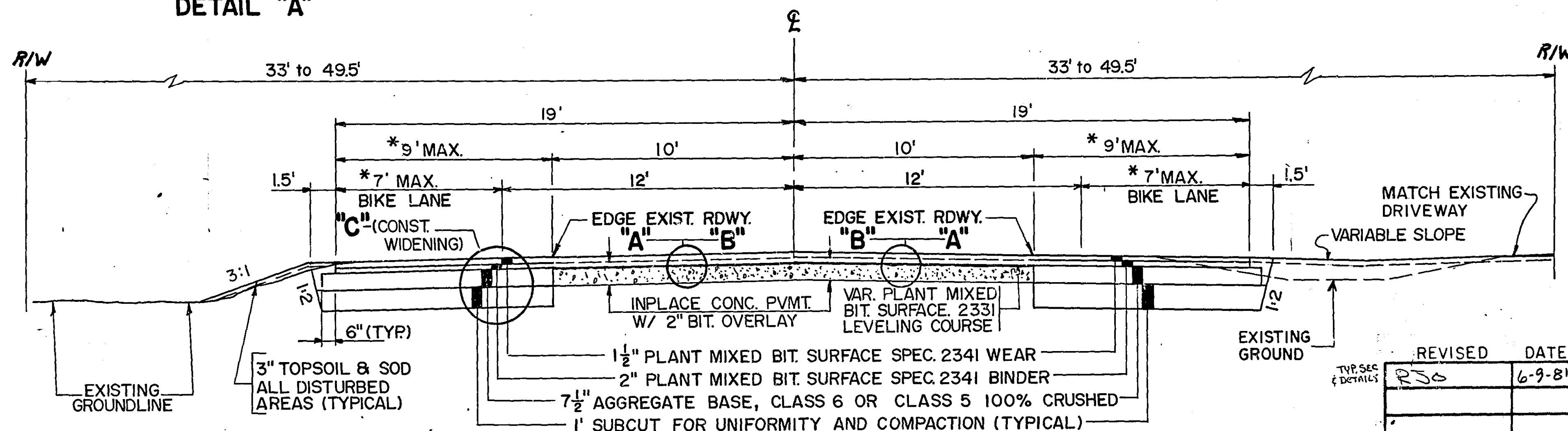
CONSTRUCTION - CENTER 20'



DETAIL "B"



TYPICAL ENTRANCE TREATMENT



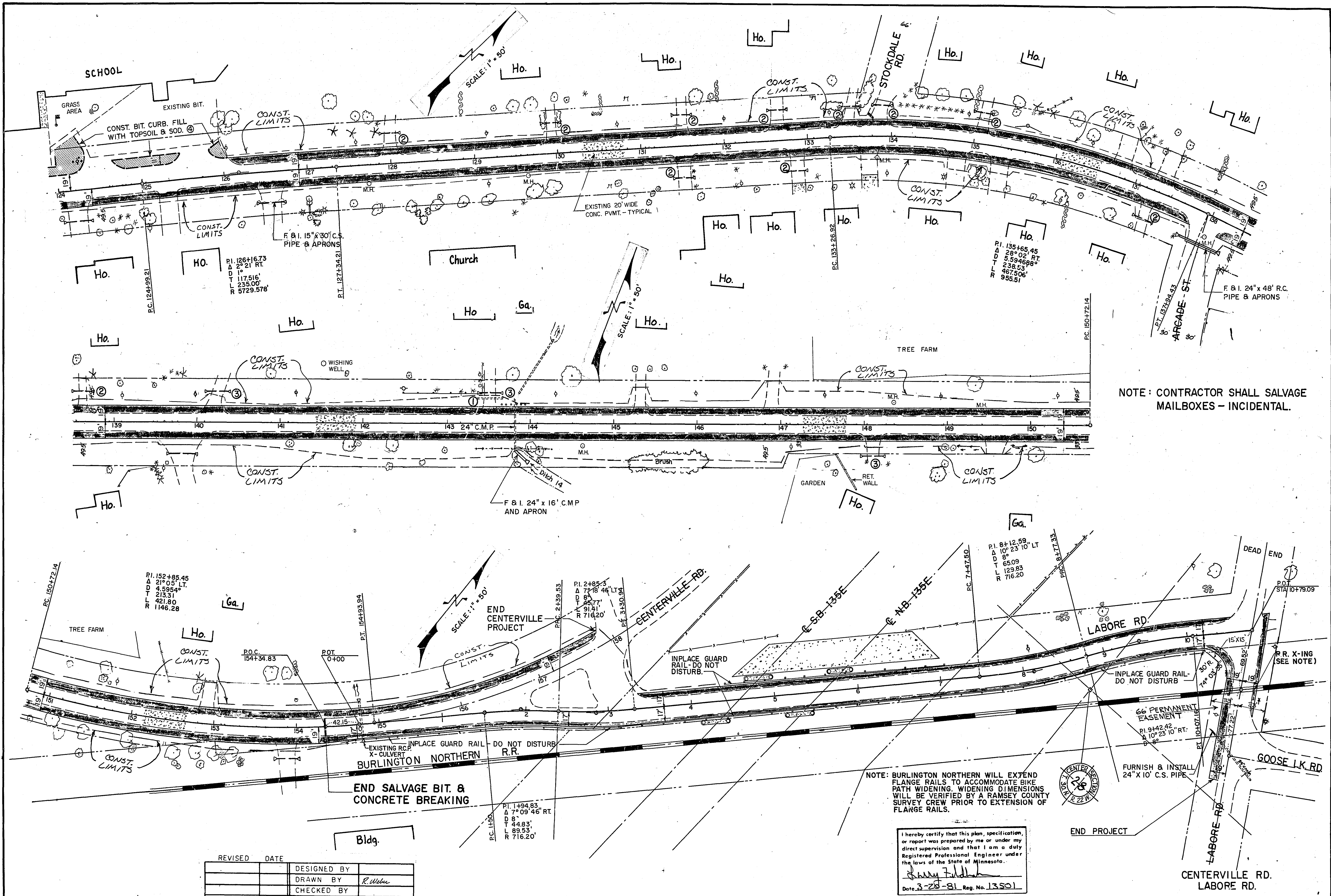
TYPICAL SECTION

* DIMENSION VARIES. SEE PLAN SHEETS FOR FURTHER INFORMATION.

**SEE PLAN SHEETS

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 3-28-51 Reg. No. 13501

REVISED	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
RSO	6-9-81			

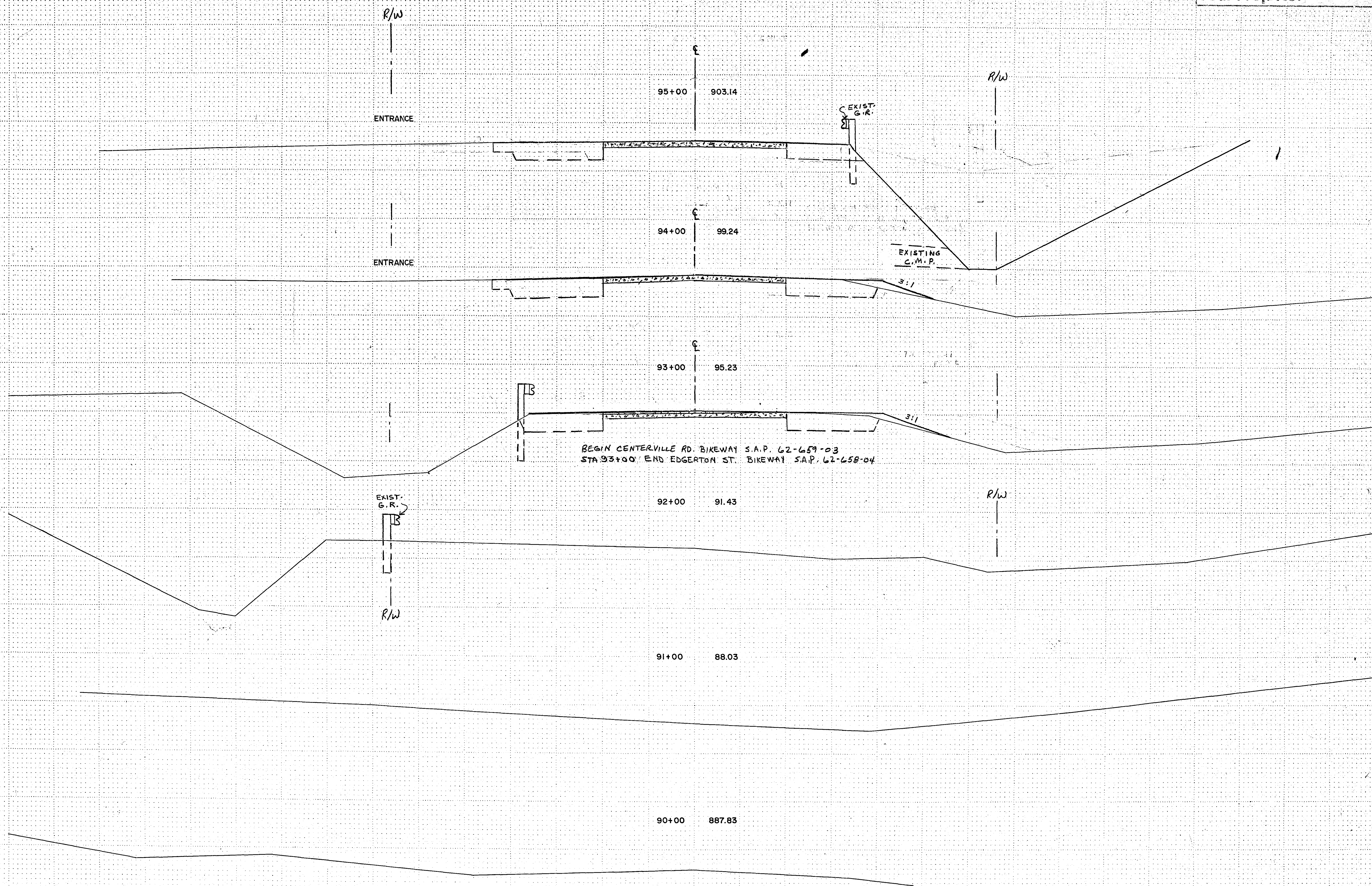


REVISED	DATE	DESIGNED BY	
		DRAWN BY	R. Wilson
		CHECKED BY	

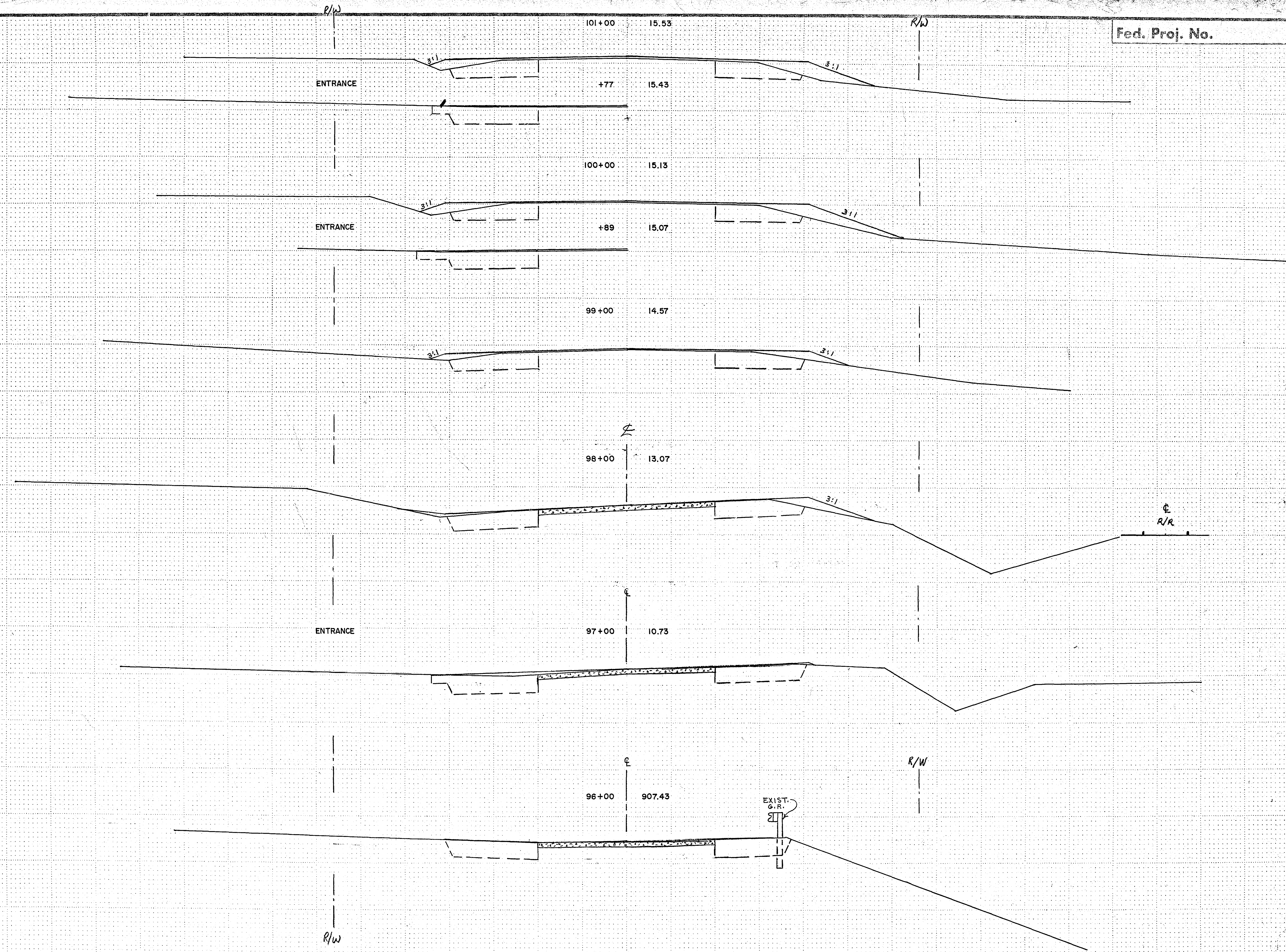
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

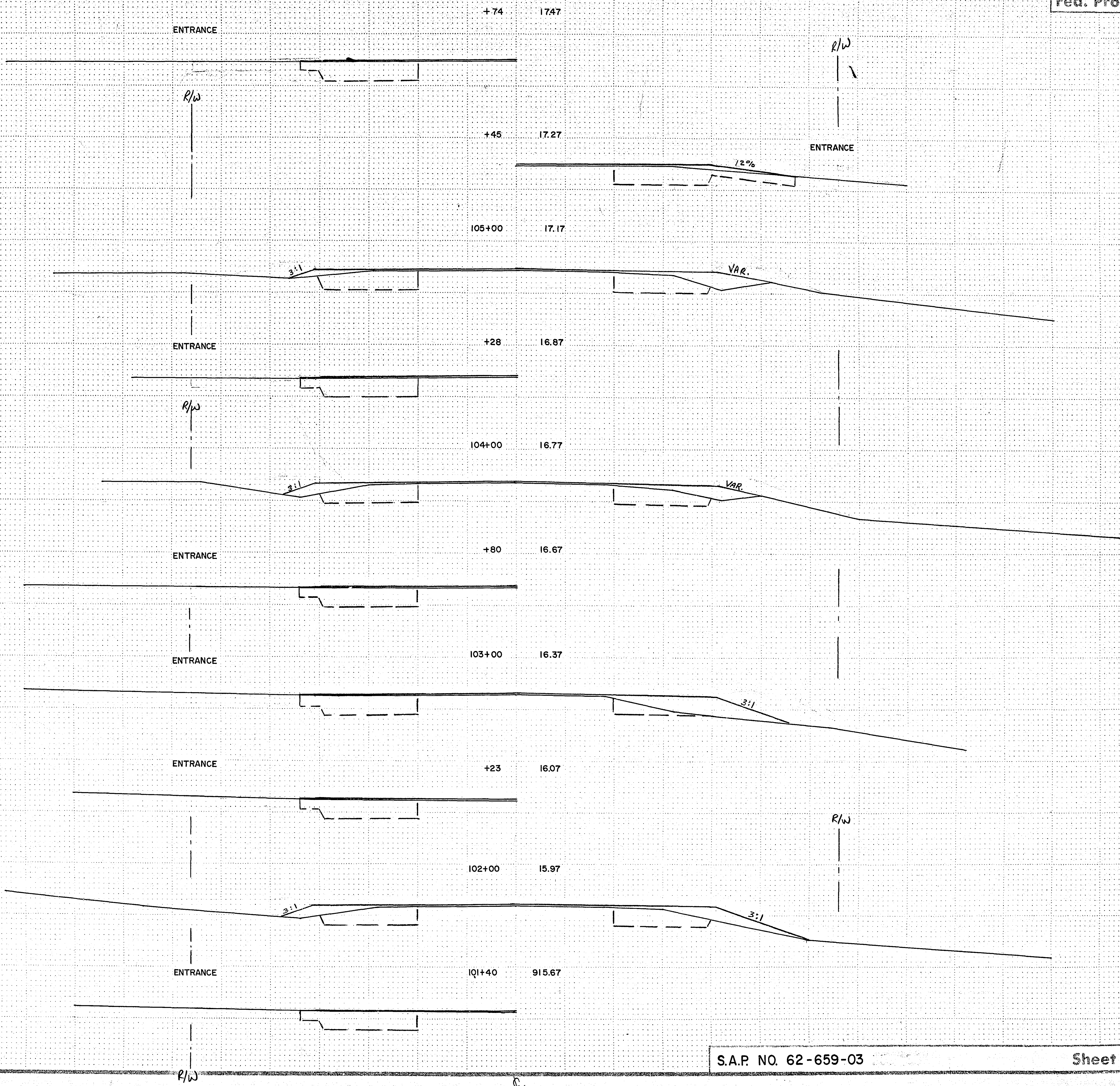
Harry J. Fildes

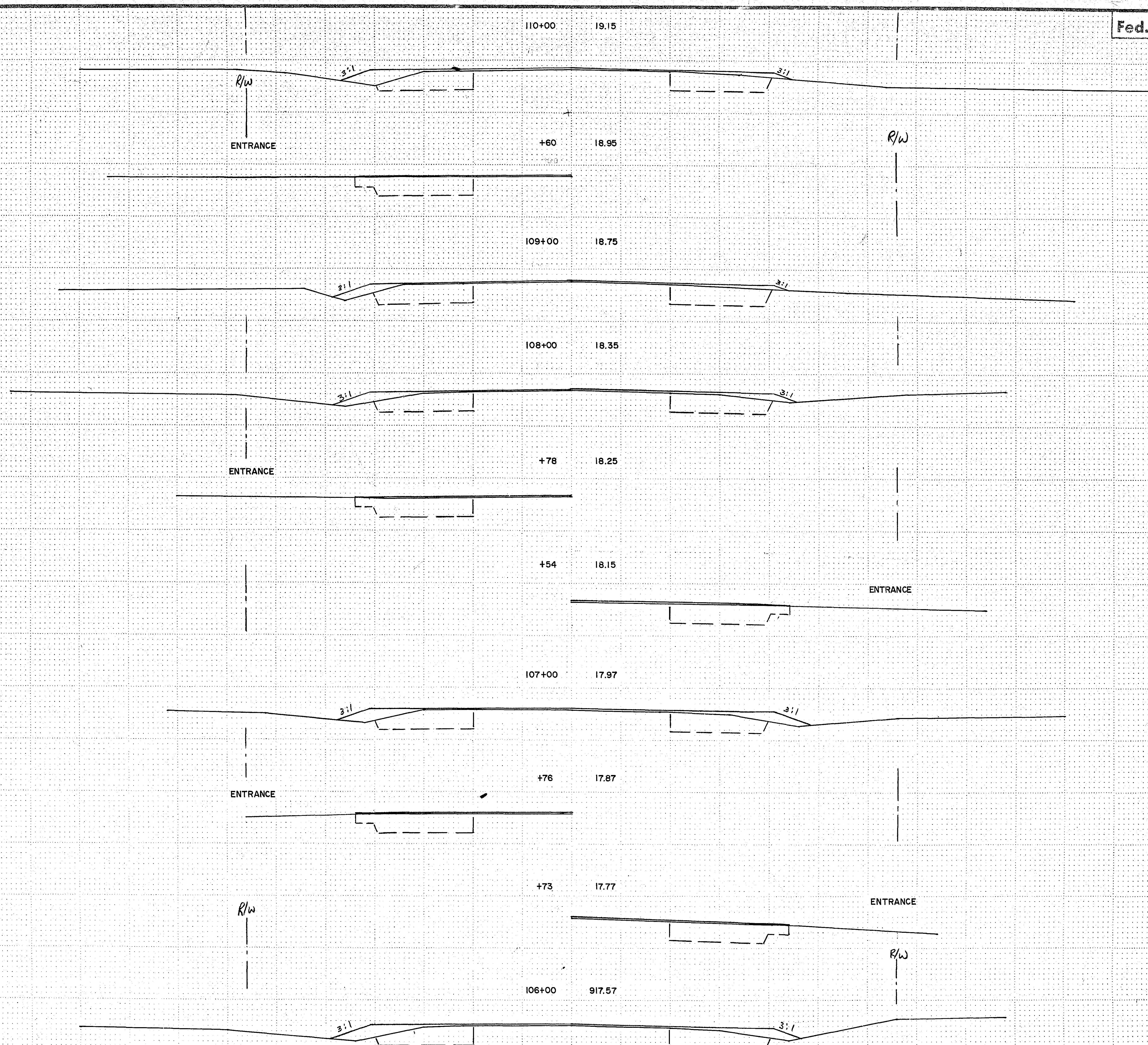
Date 3-20-81 Reg. No. 13501

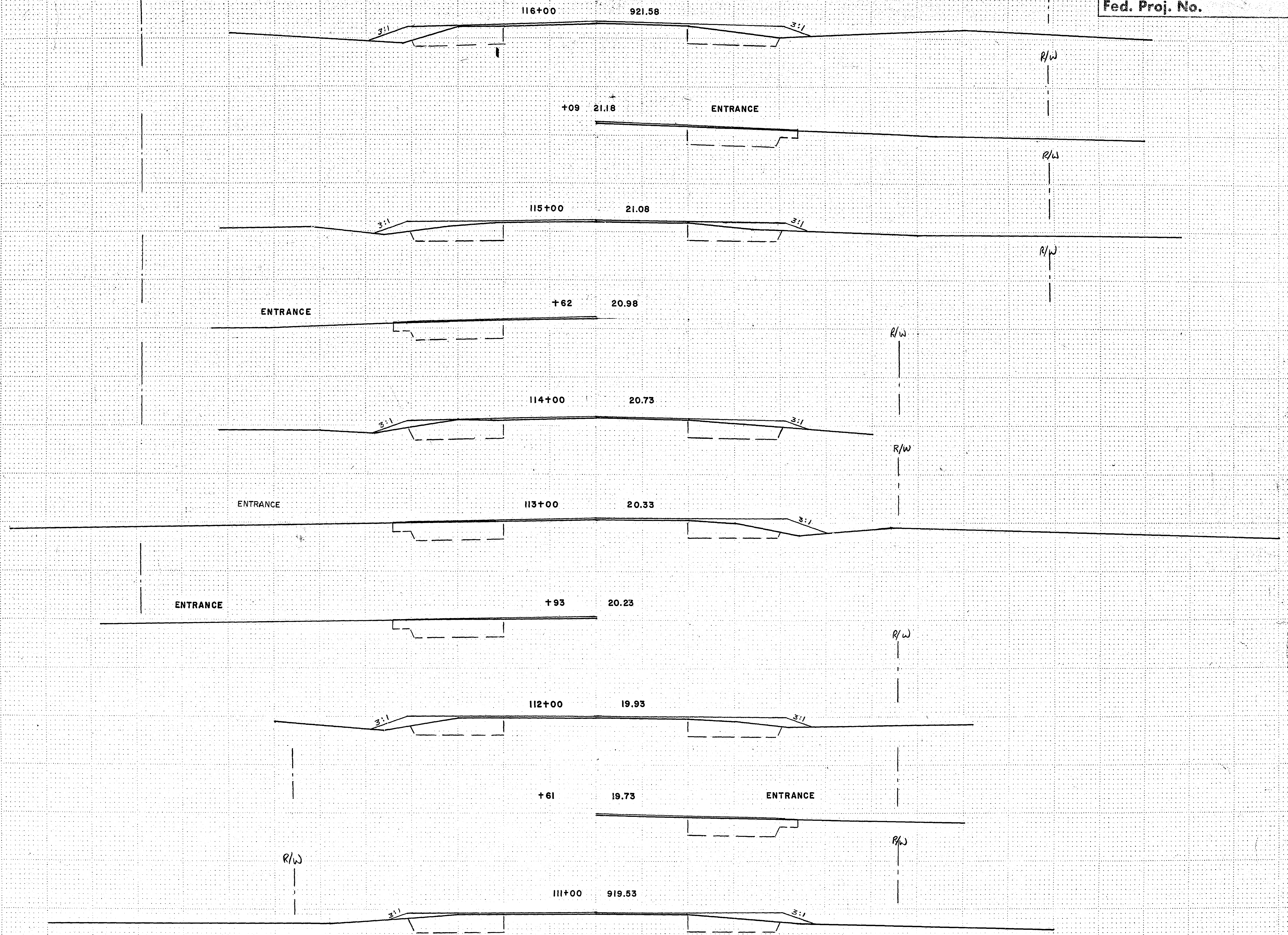


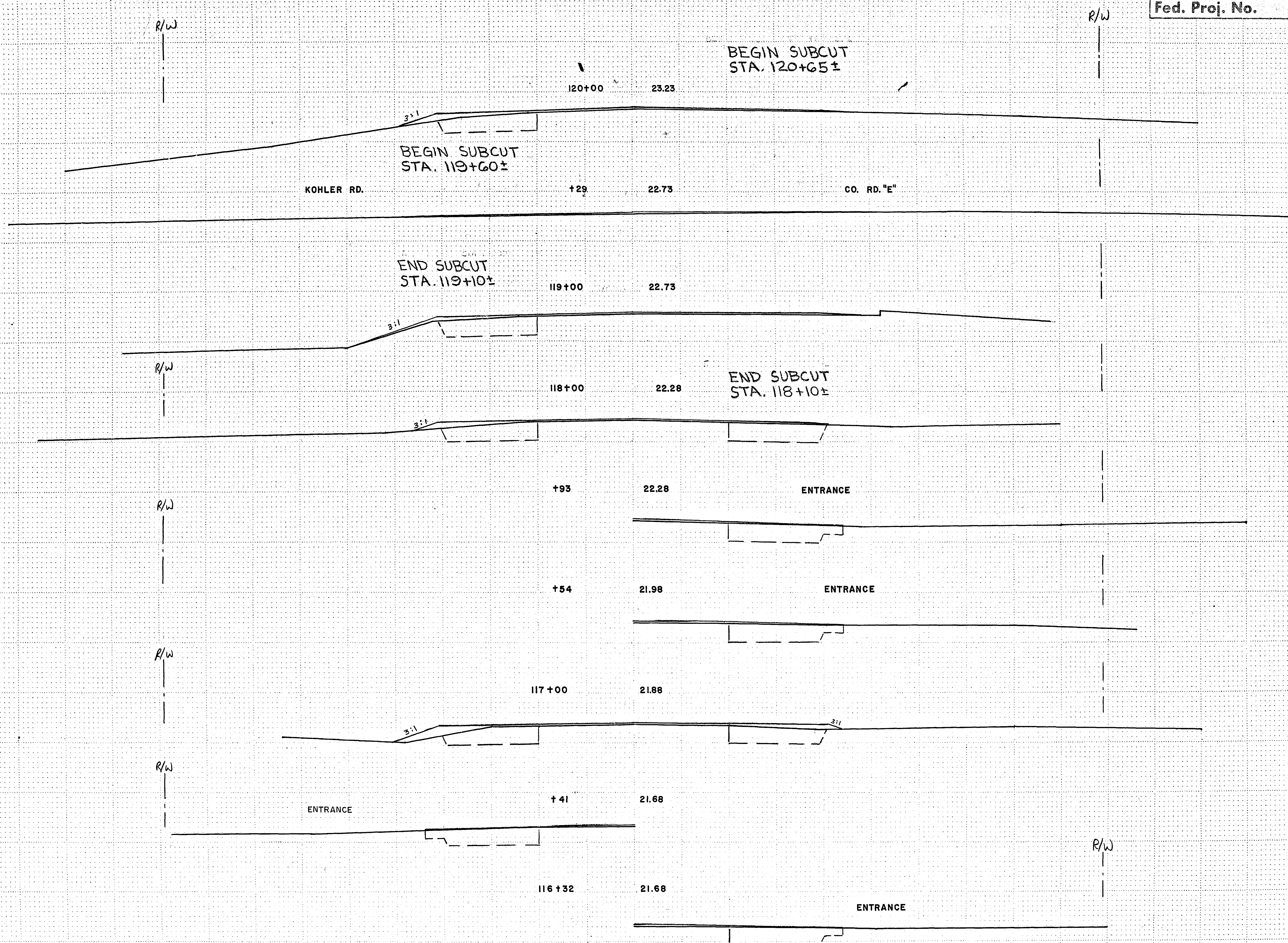
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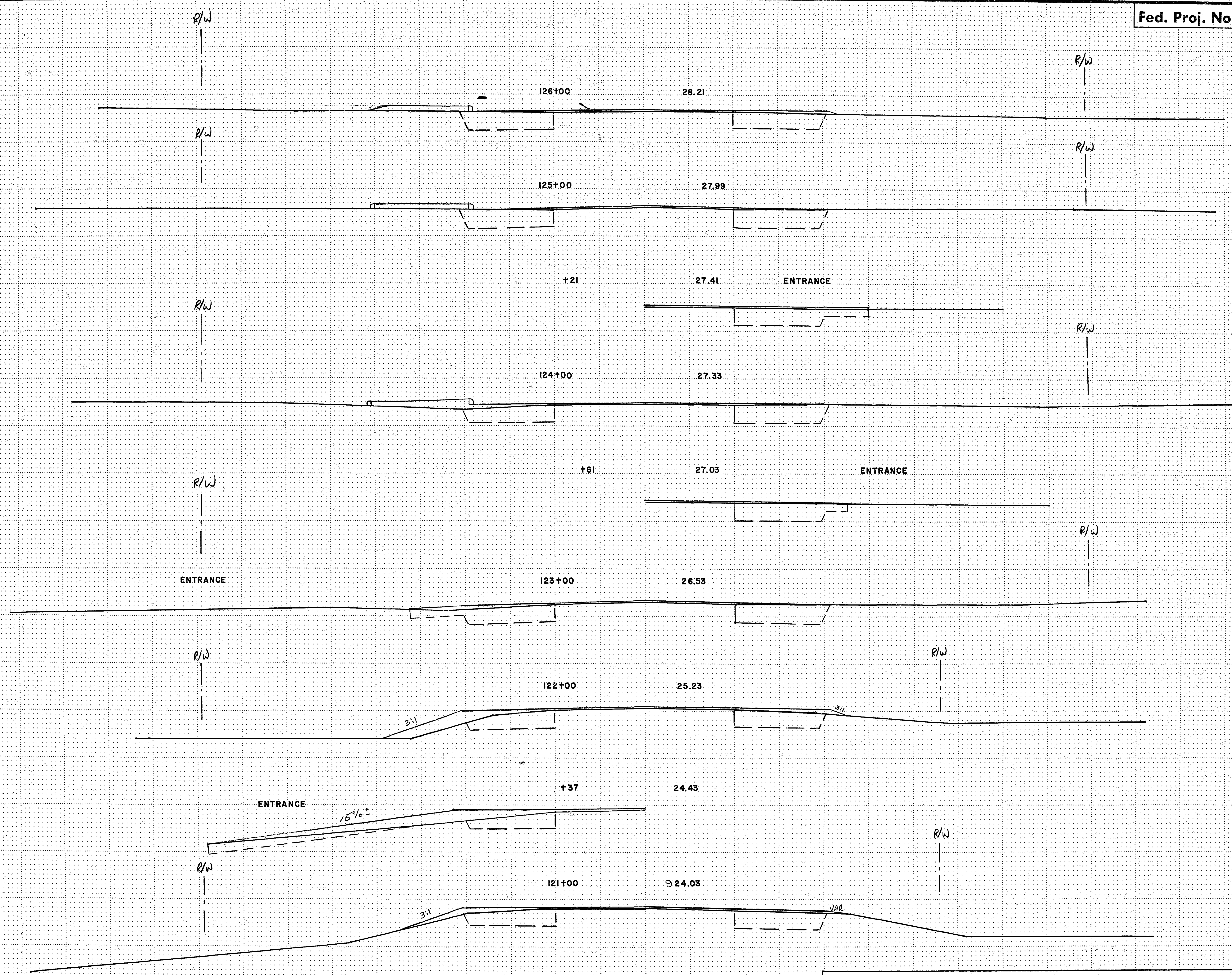


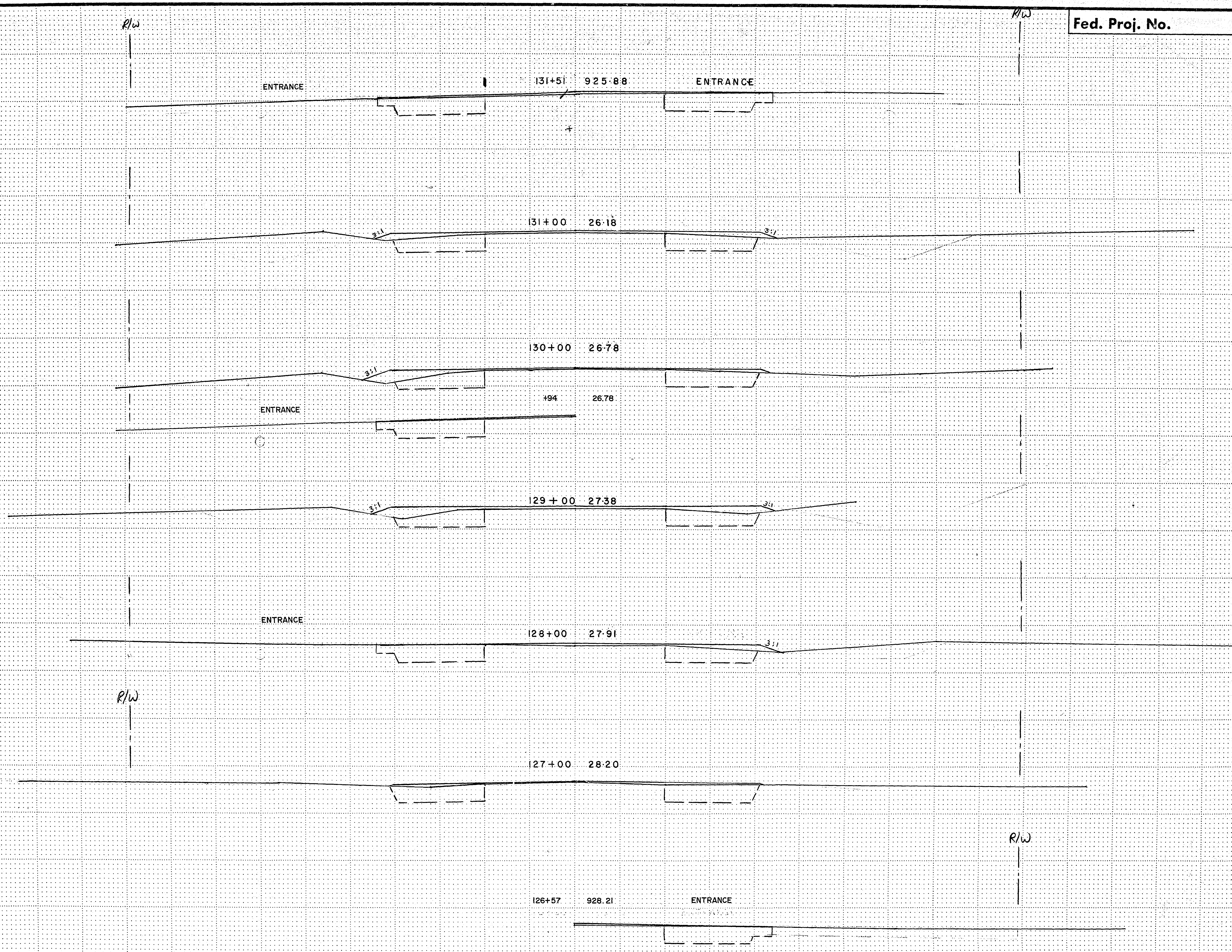


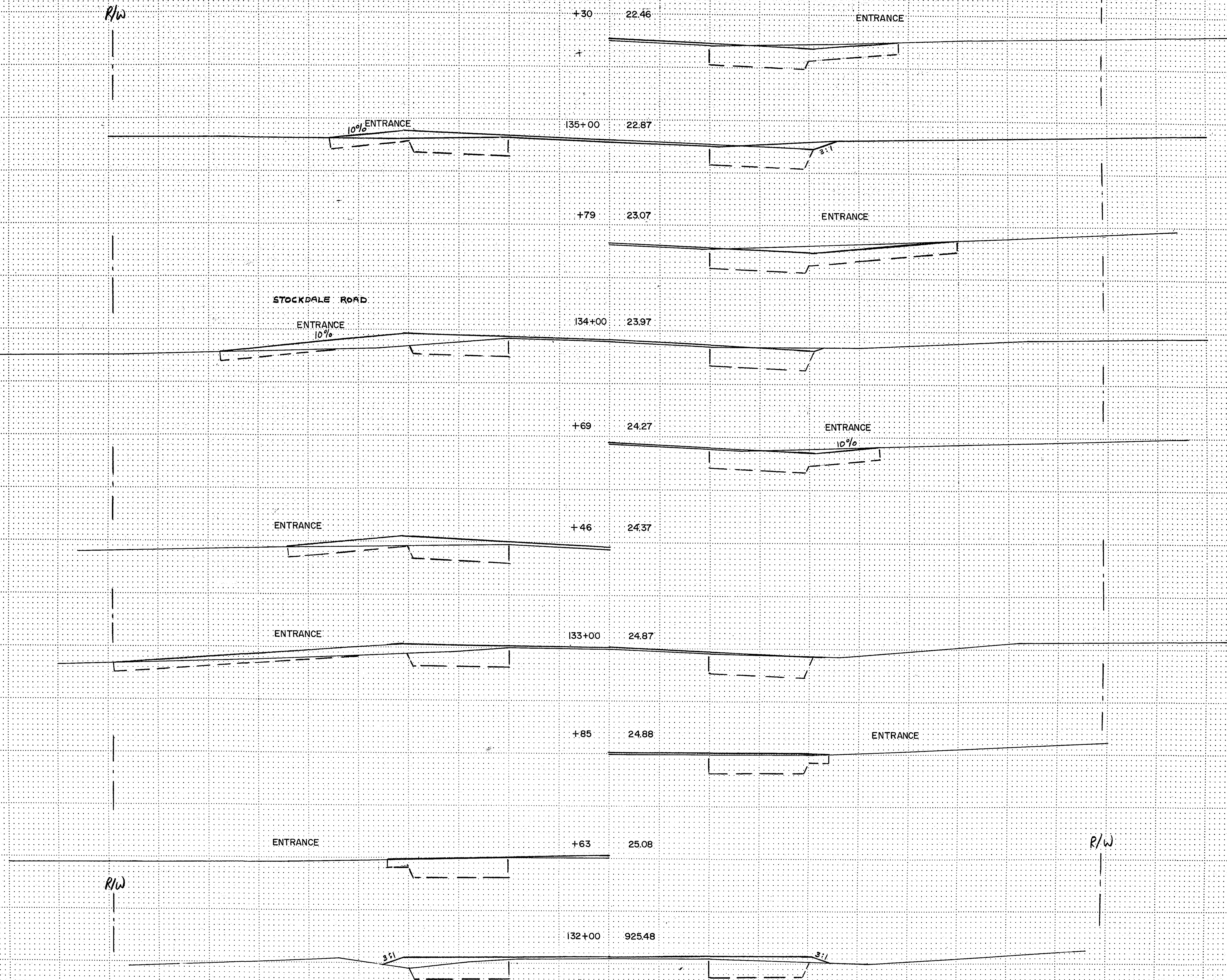


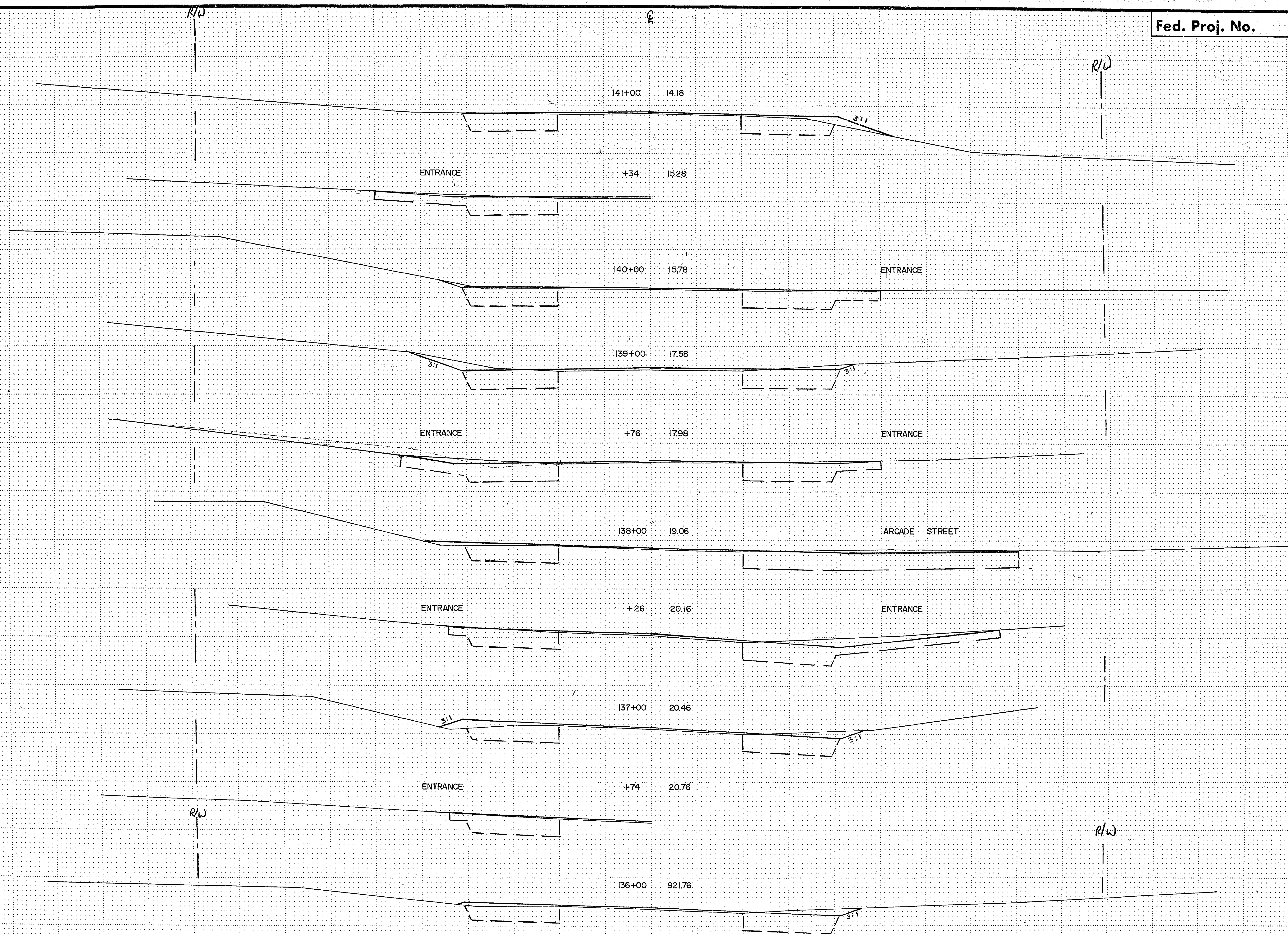


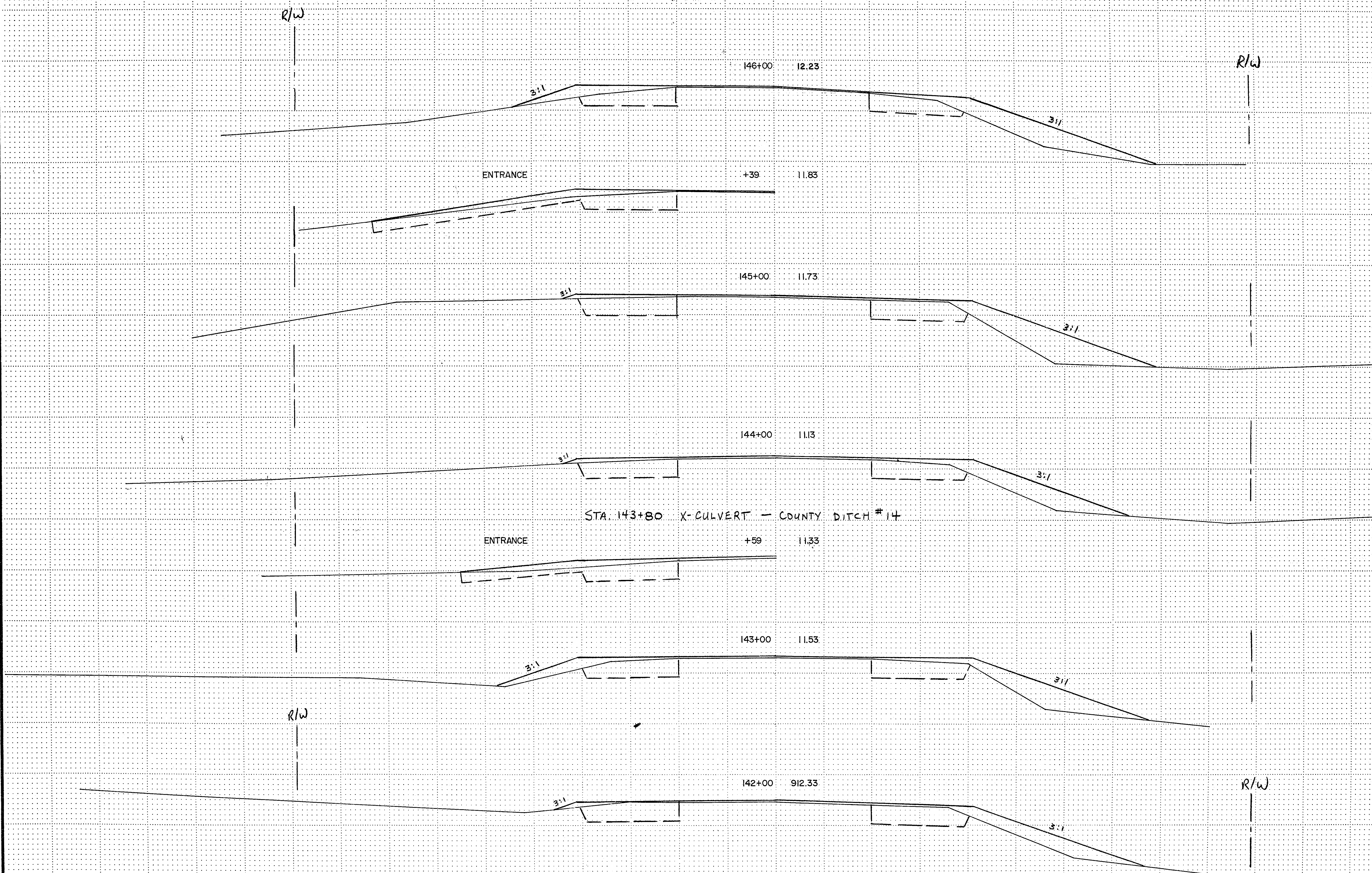


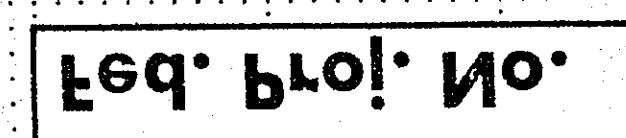


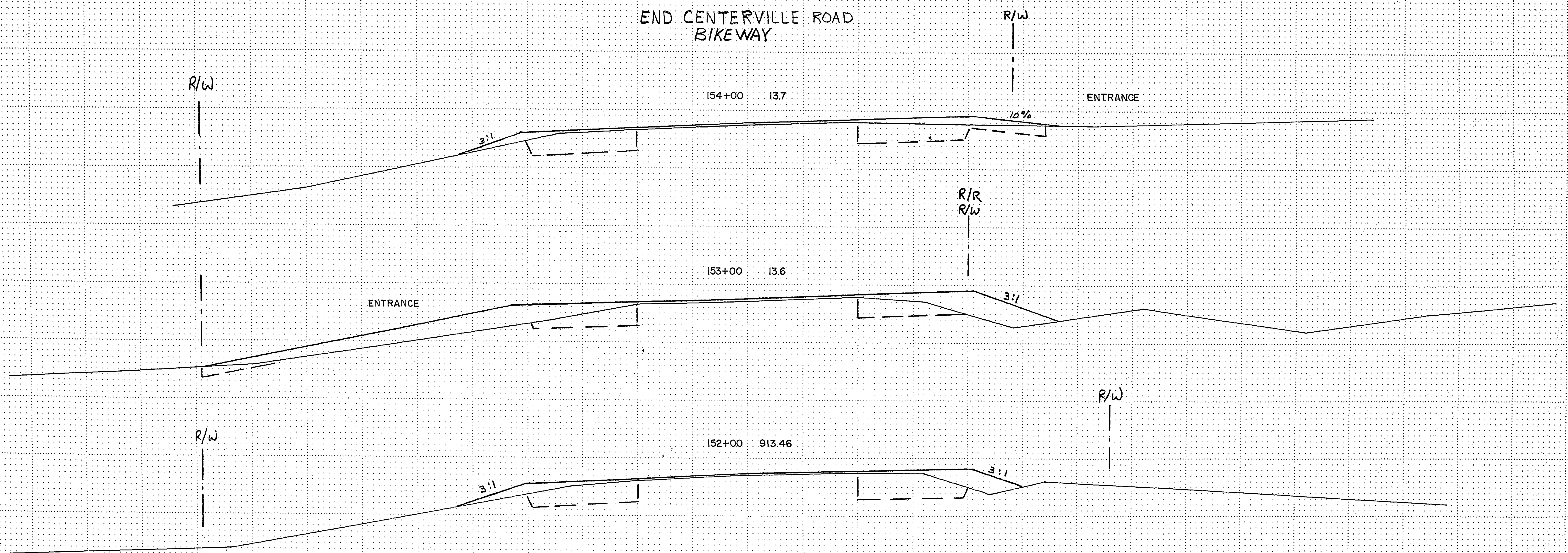


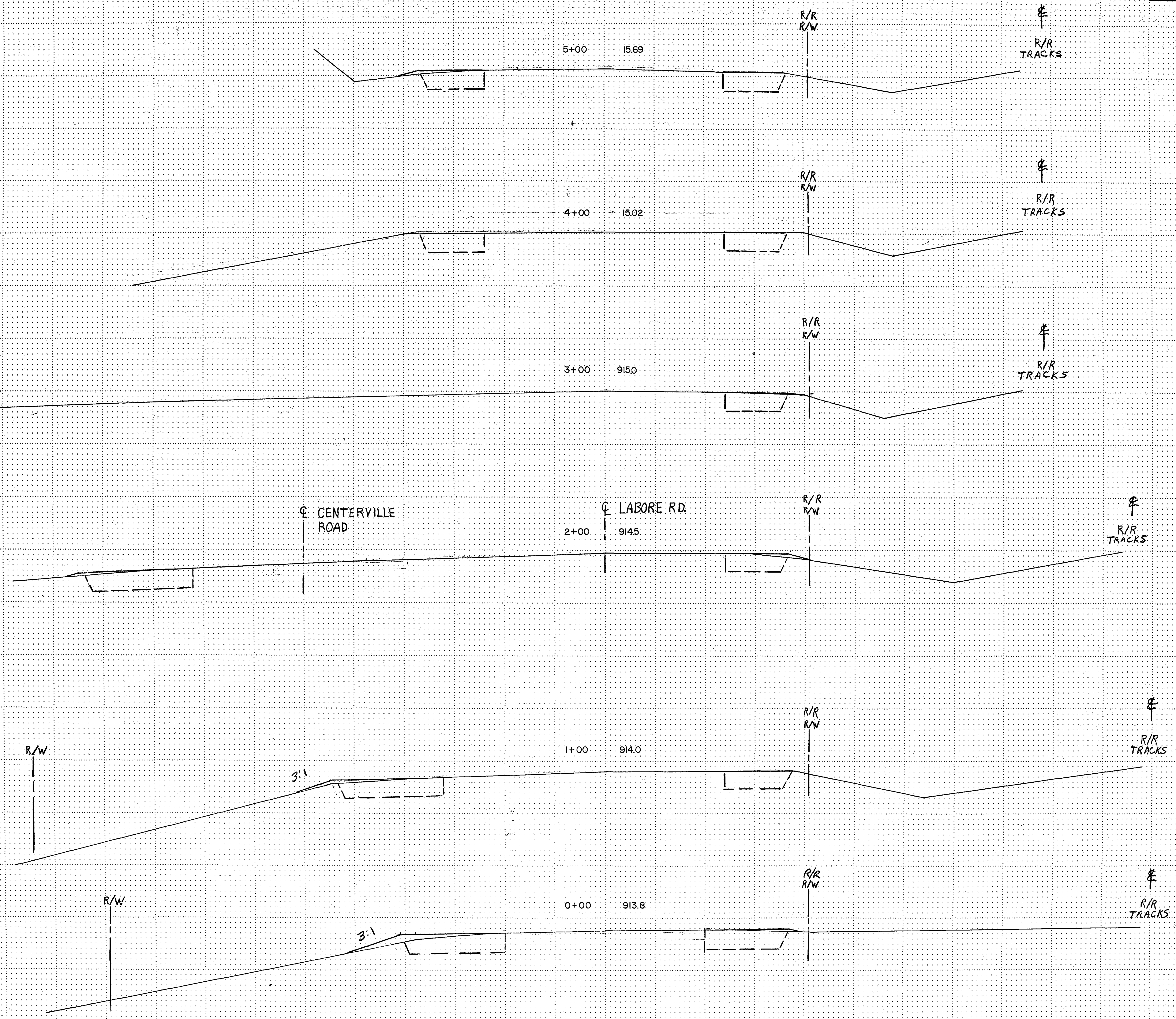


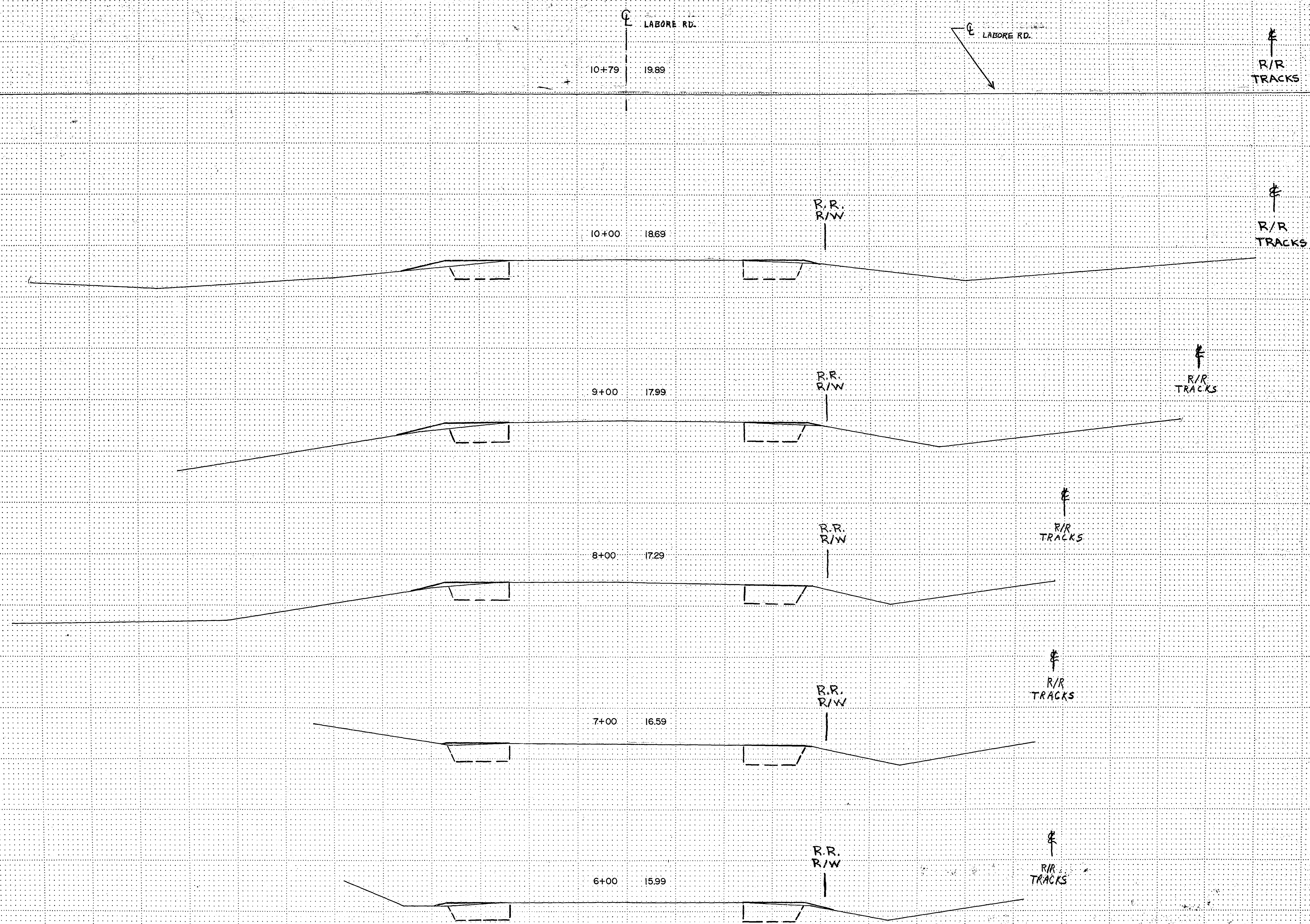










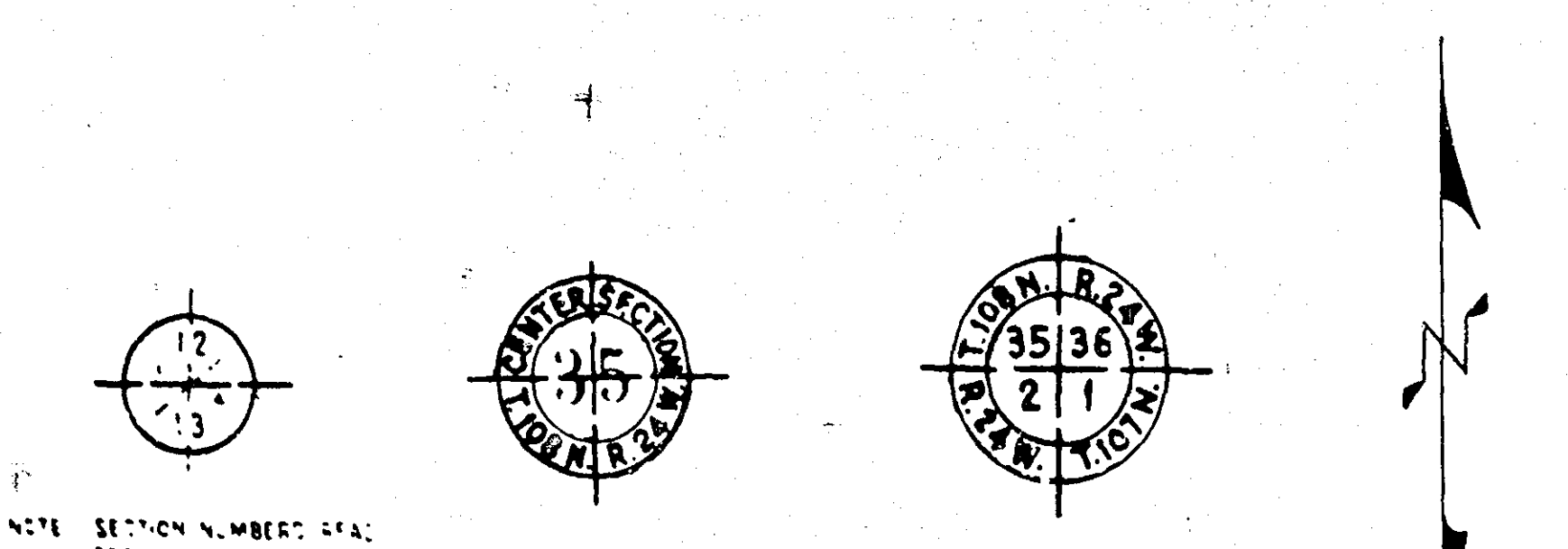


PLANS SYMBOLS

STATE LINE	SPRINGS
COUNTY LINE	MARSH
TOWNSHIP OR RANGE LINE	TIMBER
SECTION LINE	ORCHARD
QUARTER LINE	BRUSH
SIXTEENTH LINE	NURSERY
RIGHT OF WAY LINE	CATCH BASIN
PRESENT RIGHT OF WAY LINE	FIRE HYDRANT
CONTROL OF ACCESS LINE	CATTLE GUARD
PROPERTY LINE (EDGEM LINE LINE)	OVERPASS (Highway Over)
VACATED PLATTED PROPERTY	UNDERPASS (Highway Under)
CORPORATE OR CITY LIMITS	BRIDGE
TRUNK HIGHWAY CENTER LINE	BUILDING (One Story Frame)
RETAINING WALL	P FRAME C CONCRETE
RAILROAD	S STONE T TILE
RAILROAD RIGHT OF WAY LINE	B BRICK ST STUCCO
RIVER OR CREEK	IRON PIPE OR ROD
DRY RUN	MONUMENT (STONE, CONCRETE, OR METAL)
DRAINAGE DITCH	WOODEN HUB
DRAIN TILE	GRAVEL PIT
CULVERT	SAND PIT
DROP INLET	BORROW PIT
GUARD RAIL	ROCK QUARRY
BARBED WIRE FENCE	
WOVEN 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	

UTILITIES SYMBOLS

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

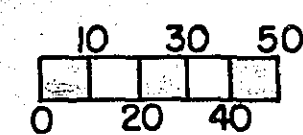


PIT DATA

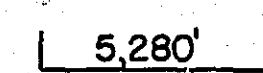
PIT NO.	Located in
	Dead Haul
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	Dead Haul

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

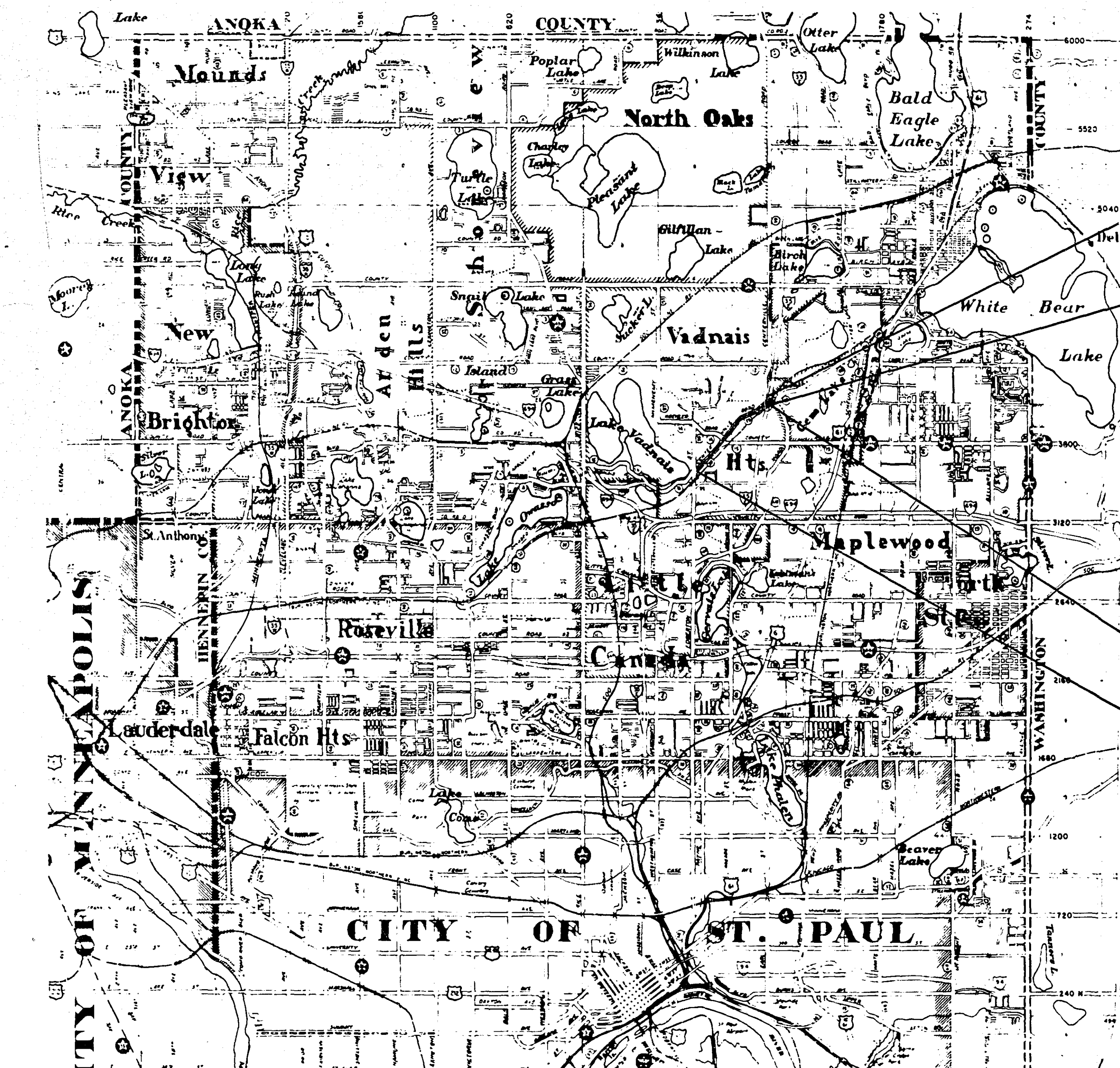
PLAN



LAYOUT MAP



	S.A.P. NO. 62-659-03	S.A.P. NO. 62-590-02
GROSS LENGTH	6,485 FEET 1.228 MILES	1,080 FEET 0.2045 MILES
BRIDGE LENGTH	0 0	0 0
EXCEPTIONS	0 0	0 0
NET LENGTH	6,485 1.228	1,080 0.2045
	TRAFFIC+ VOLUME	
	A.D.T. 1980 2000	
CENTERVILLE RD. — EDGERTON ST. to CTY. RD. "E"	2025 6000	
CTY. RD. "E" to LABORE RD.	950 6000	
LABORE ROAD — CENTERVILLE RD. to GOOSE LK. RD.	600 1600	



DESIGN DESIGNATION

DESIGN LOAD	9 TON
DESIGN SPEED	30 M.P.H.

RAMSEY COUNTY DEPARTMENT OF PUBLIC WORKS CONSTRUCTION PLAN FOR BITUMINOUS BIKEWAYS CENTERVILLE RD. BIKEWAY BETWEEN: EDGERTON STREET AND LABORE ROAD S.A.P. NO. 62-659-03 ACCOUNT NO. 47227 LABORE ROAD BIKEWAY BETWEEN: CENTERVILLE RD. AND GOOSE LAKE RD. S.A.P. NO. 62-590-02 ACCOUNT NO. 47228

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES & TYPICAL SECTIONS
3-4	PLAN SHEETS
5-19	CROSS SECTIONS

DESIGN SQUAD R. Weber DATE 2-23-81
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 2-27-81 REG. NO. 13501 ENGR. Sammy K. Feldman

RECOMMENDED FOR APPROVAL PJL DATE 3-20-81
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RECOMMENDED FOR APPROVAL DRG DATE 2/27/81
CONST. ENGR.

APPROVED _____ DATE _____

RECOMMENDED FOR APPROVAL LKF DATE 2/27/81
DESIGN ENGR.

MINNESOTA DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL DRG DATE 3-20-81
PLAN ENGR.

RECOMMENDED FOR APPROVAL Dilbert D. O'Connell DATE 7-16-82

APPROVED Wm. J. O'Connell DATE 3-20-81
SUPERVISING ENGR.

RECOMMENDED FOR APPROVAL DRG DATE 4/10/82
DISTRICT STATE ENGINEER

APPROVAL William H. Steg DATE 7/27/82
DIRECTOR, OFFICE OF STATE AID

PLAN REVISIONS		
DATE	SHEET NO.	BY
6-12-81	ENTIRE PLAN	B.J.

MICROFILMED
RAMSEY CO. 1981

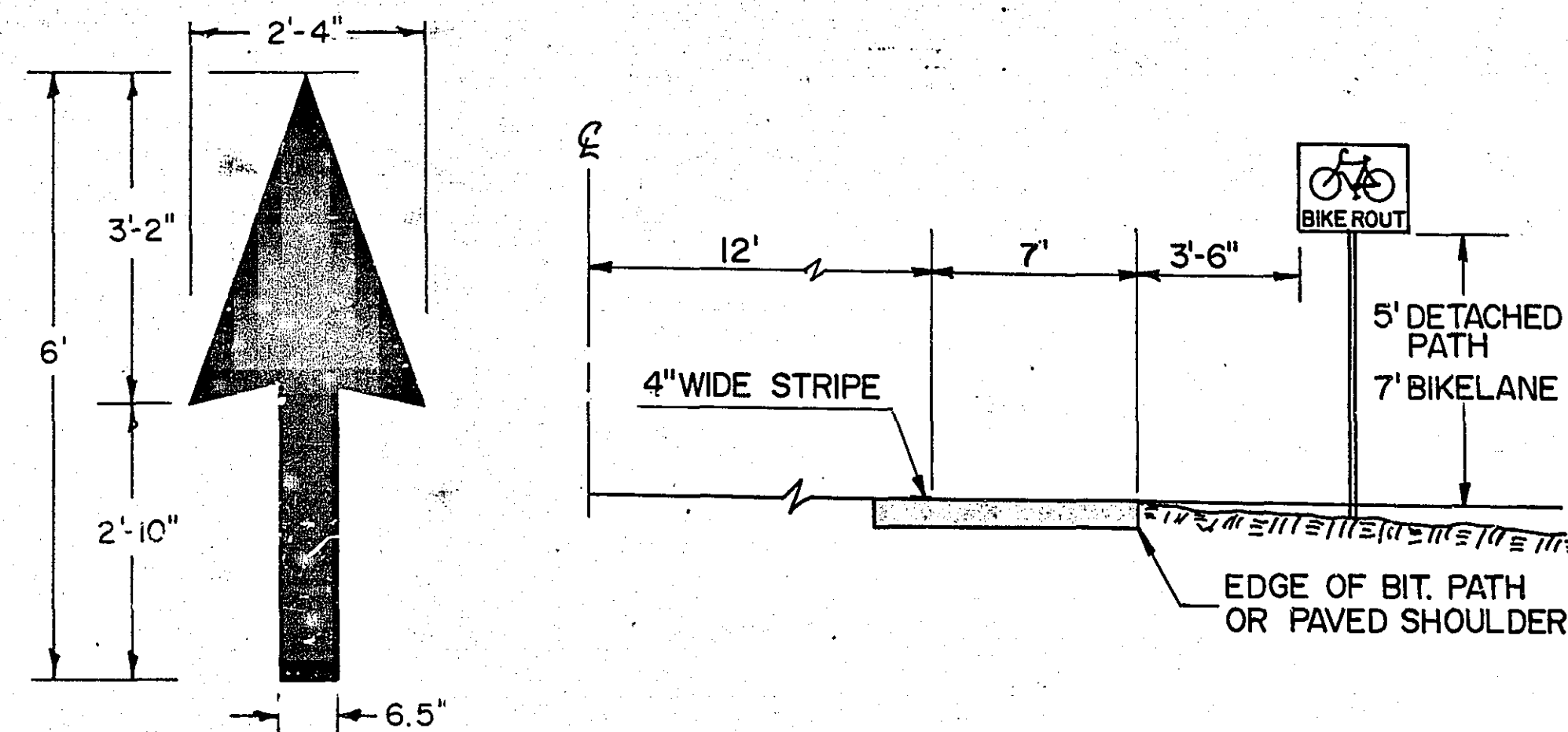
S.A.P. NO. 62-659-03; 62-590-02

Sheet No. 1 of 19 Sheets

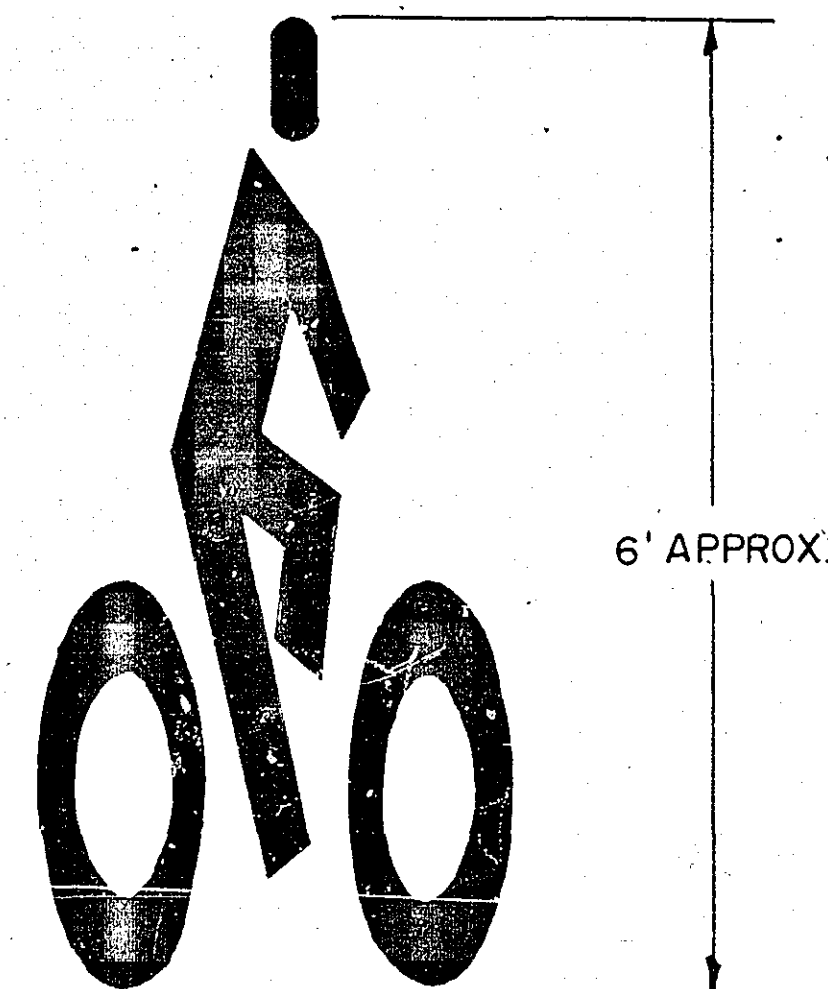
26-101

STATEMENT OF ESTIMATED QUANTITIES			SAP NO. 62-659-03 CENTERVILLE ROAD	SAP NO. 62-590-02 LABORE ROAD	
ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES	ESTIMATED QUANTITIES	TOTAL ESTIMATED QUANTITIES
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2501.511	15" C.S. PIPE CULVERT, 16 GAUGE	L.F.			
2501.511	24" C.S. PIPE CULVERT, 16 GAUGE	L.F.	26	0	26
2501.511	24" R.C. PIPE SEWER, CLASS II	L.F.	78	0	78
2501.515	15" C.S. PIPE APRONS	EACH			
2501.515	24" C.S. PIPE APRONS	EACH	1	0	1
2501.515	24" R.C. PIPE APRON	EACH	4	0	4
2506.522	ADJUST FRAME AND RING CASTING	EACH	19	0	19
2506.508	CONSTRUCT MANHOLE, DESIGN A OR F	EACH			
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2575.531	COMMERCIAL FERTILIZER, ANALYSIS 12-12-12	TON	0.30	0.03	0.33
2571.541	TRANSPLANT TREES	TREE			
2511.503	GROUTED RIPRAP, CLASS A	C.Y.			
2511.504	FILTER BLANKET, TYPE I	C.Y.			
105.631	SALVAGE BITUMINOUS PAVEMENT	S.Y.	13,633	0	13,633
231.601	PAVEMENT BREAKING	STA.	61.35	0	61.35
301.604	SAWCUT CONCRETE PAVEMENT	L.F.			
331.603	SAWCUT BITUMINOUS PAVEMENT	L.F.	640	2,160	2,800
504.602	ADJUST VALVE BOX	EACH	15	0	15
554.607	TWISTED END TREATMENT	EACH	2	0	2

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.D.Q.T. STANDARD SPECIFICATIONS.



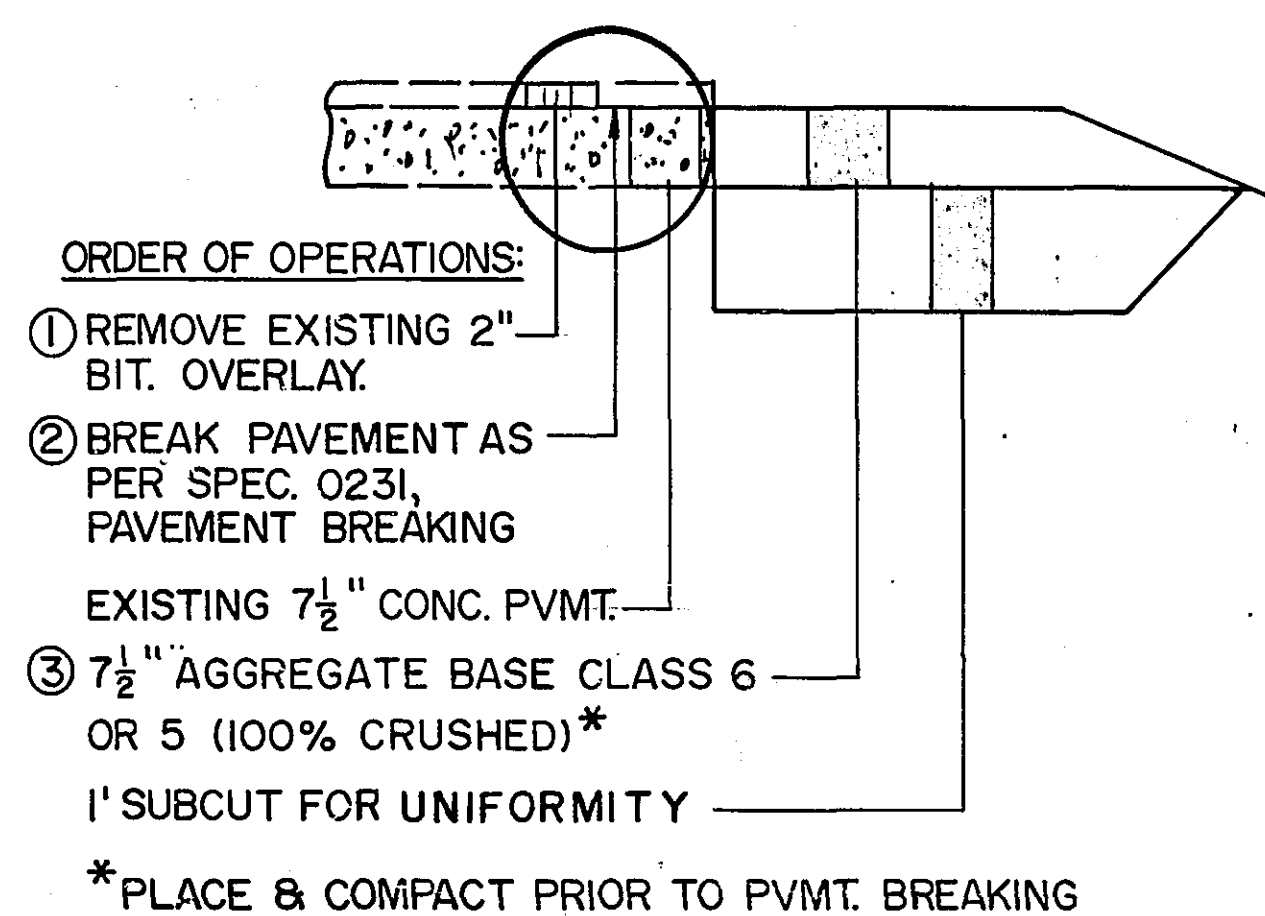
TYPICAL SIGN & PAVEMENT MESSAGE PLACEMENT



SIGNING AND PAINTING BY OTHERS

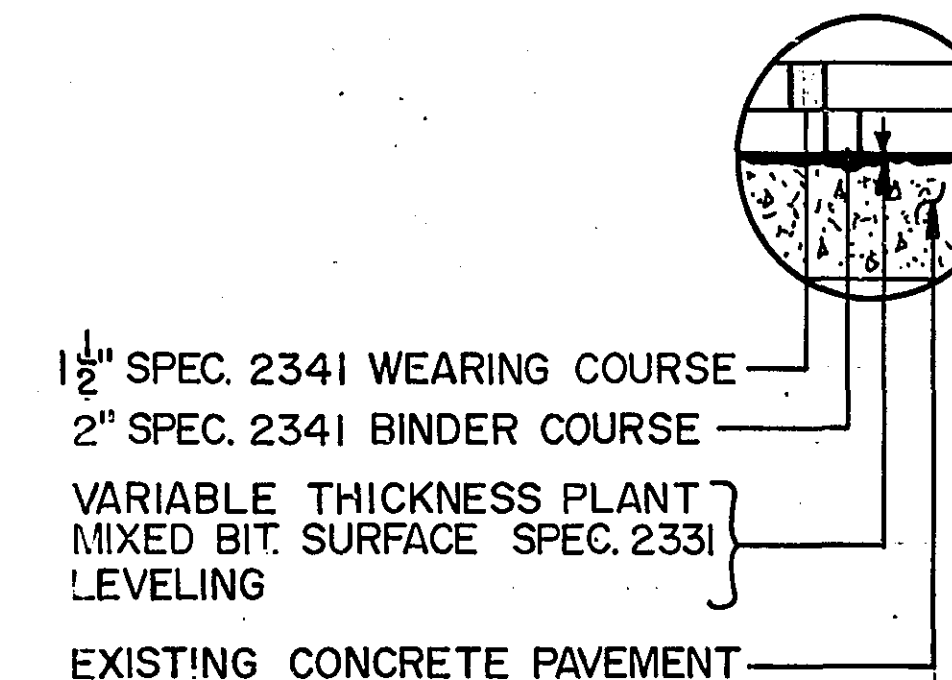
STANDARD DETAIL PLATES	
0003A	SPECIFICATION REFERENCE TO STANDARD PLATES
3000 I	REINFORCED CONCRETE PIPE
3040 F	CORRUGATED METAL PIPE CULVERT
3066 A	CORRUGATED METAL EXTENSION FOR BOX CULVERT
3100 F	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3123 H	METAL APRON FOR C.M. PIPE
3133 A	RIPRAP AT R.C.P. OUTLETS
3221 B	CORRUGATED STEEL PIPE COUPLING BAND
7065 C	BITUMINOUS CURB
8000 H	STANDARD BARRICADES
8319 D	TWISTED END TREATMENT
9102 C	SODDING AT PIPE CULVERT ENDS

SEQUENCE OF OPERATIONS - REMOVALS

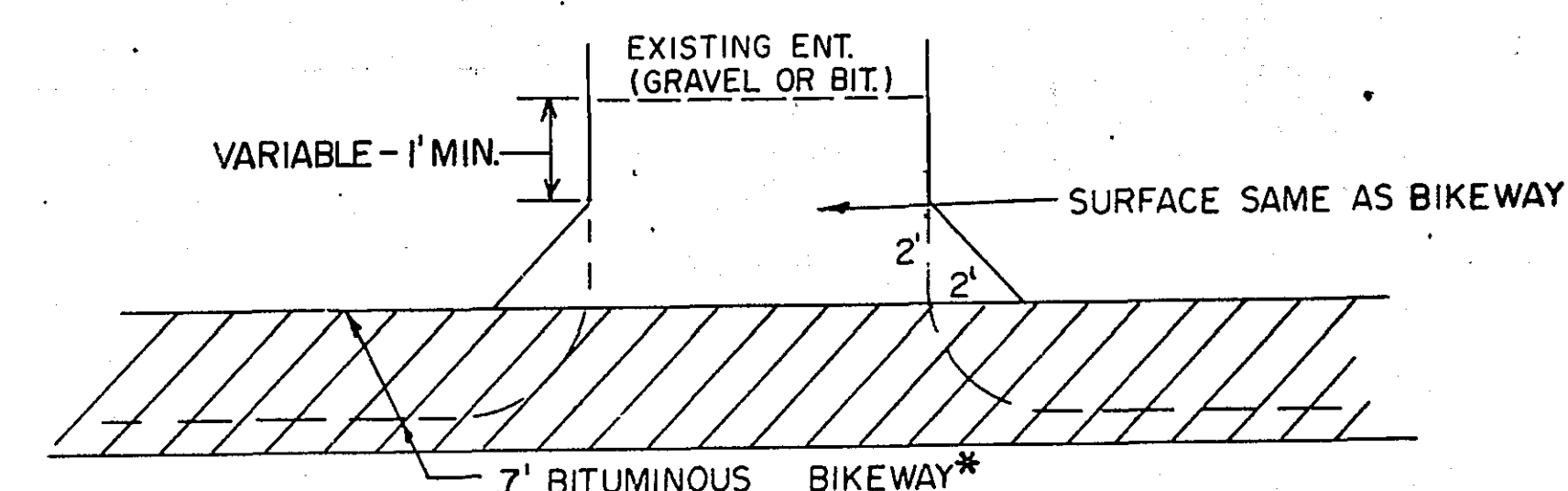


DETAIL "A"

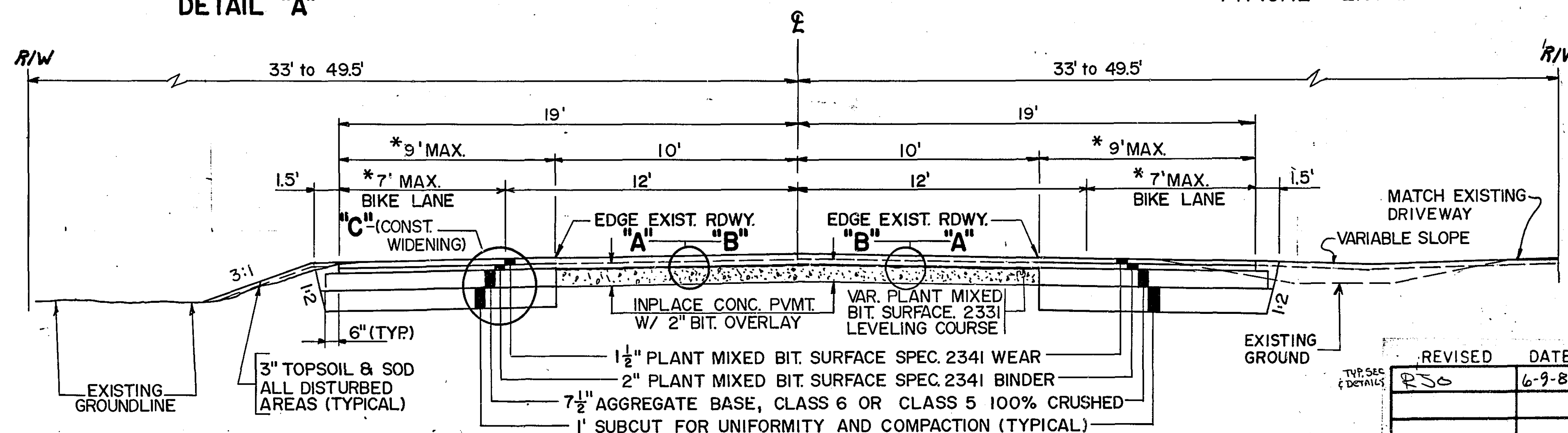
CONSTRUCTION - CENTER 20'



DETAIL "B"



TYPICAL ENTRANCE TREATMENT



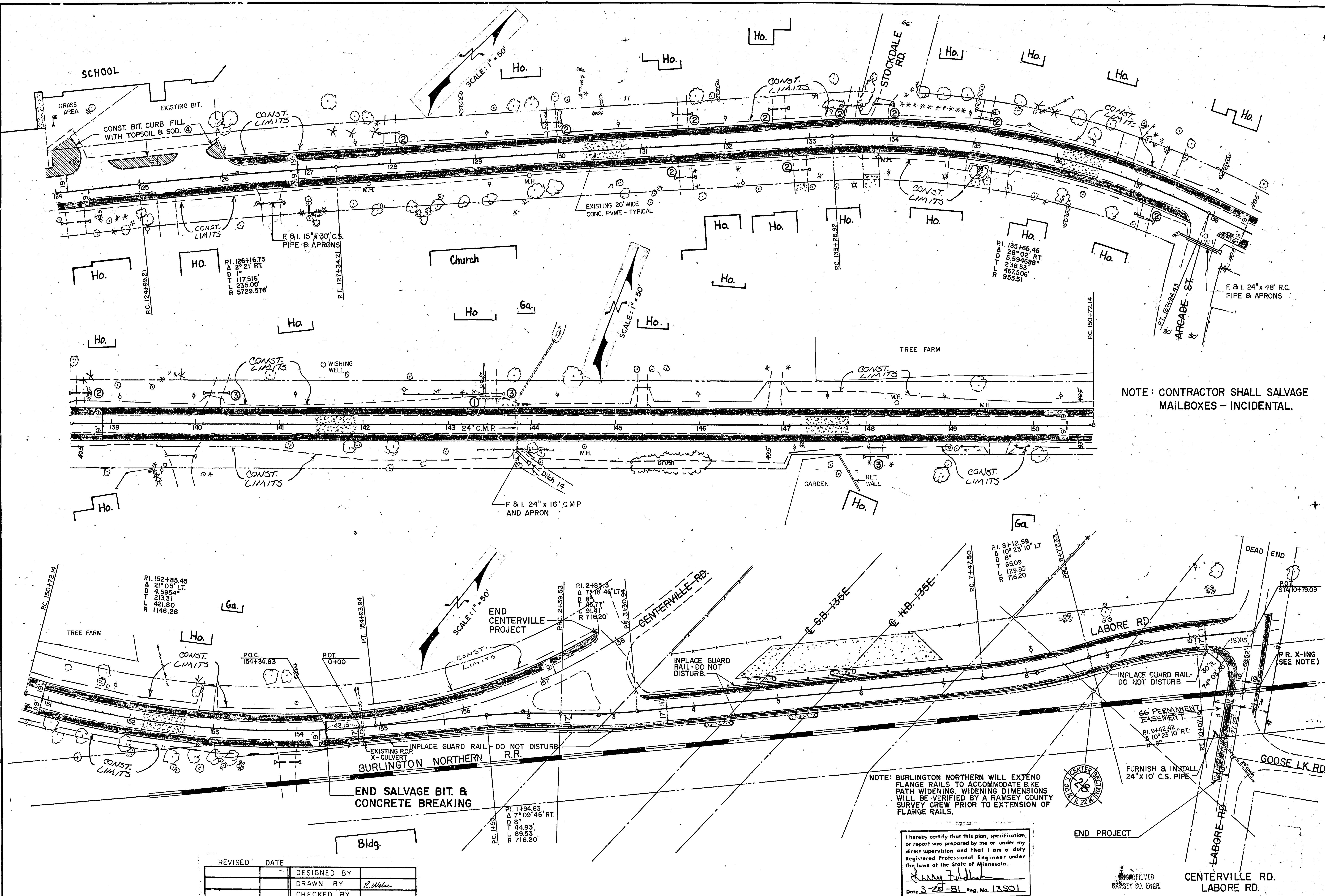
TYPICAL SECTION

* DIMENSION VARIES. SEE PLAN SHEETS FOR FURTHER INFORMATION.

** SEE PLAN SHEETS

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 3-28-81 Reg. No. 13501

REVISED	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
RSO	6-9-81			



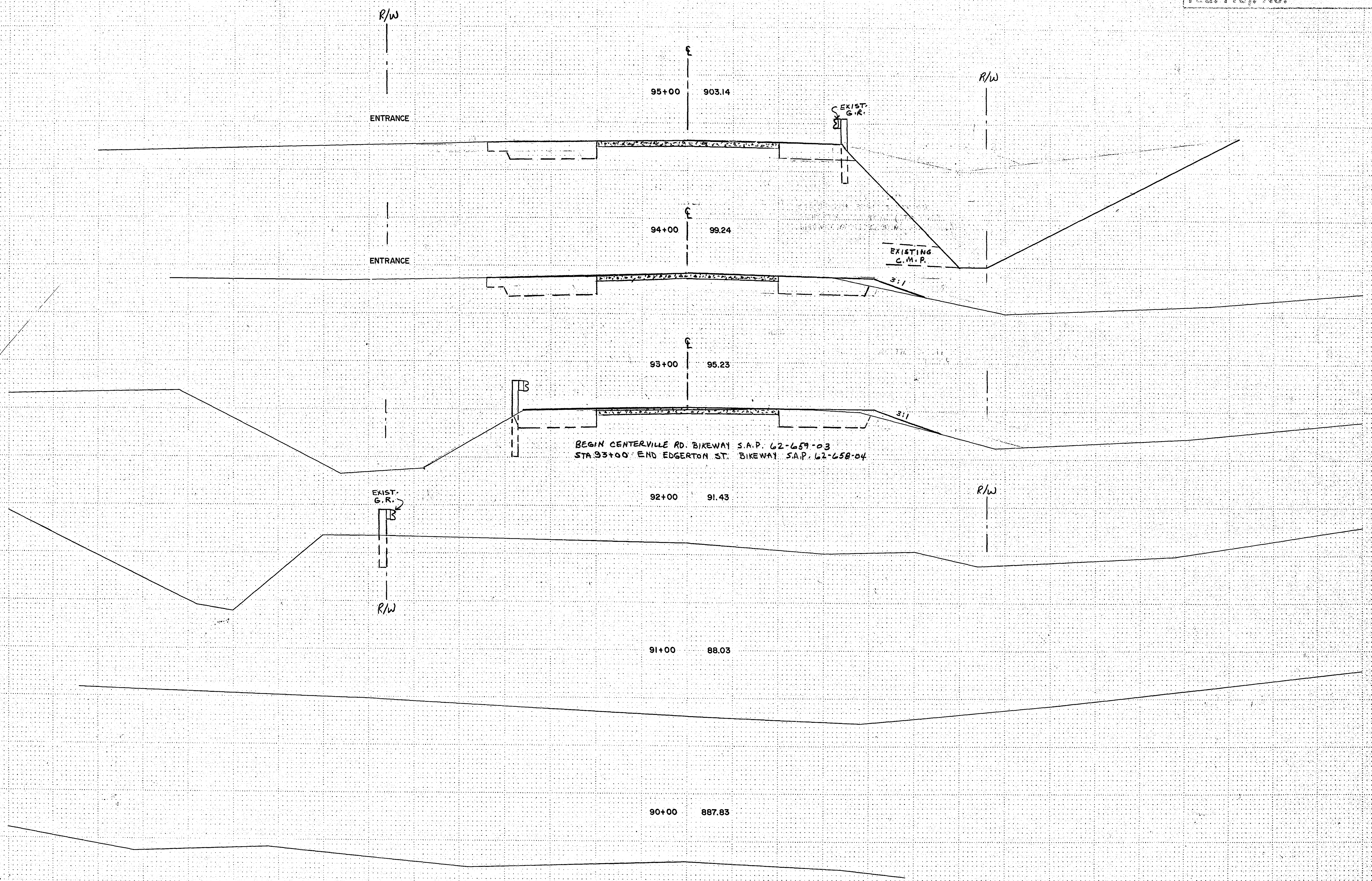
NOTE: CONTRACTOR SHALL SALVAGE MAILBOXES - INCIDENTAL.

NOTE: BURLINGTON NORTHERN WILL EXTEND FLANGE RAILS TO ACCOMMODATE BIKE PATH WIDENING. WIDENING DIMENSIONS WILL BE VERIFIED BY A RAMSEY COUNTY SURVEY CREW PRIOR TO EXTENSION OF FLANGE RAILS.

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.
James F. J. [Signature]
 Date 3-26-81 Reg. No. 13501

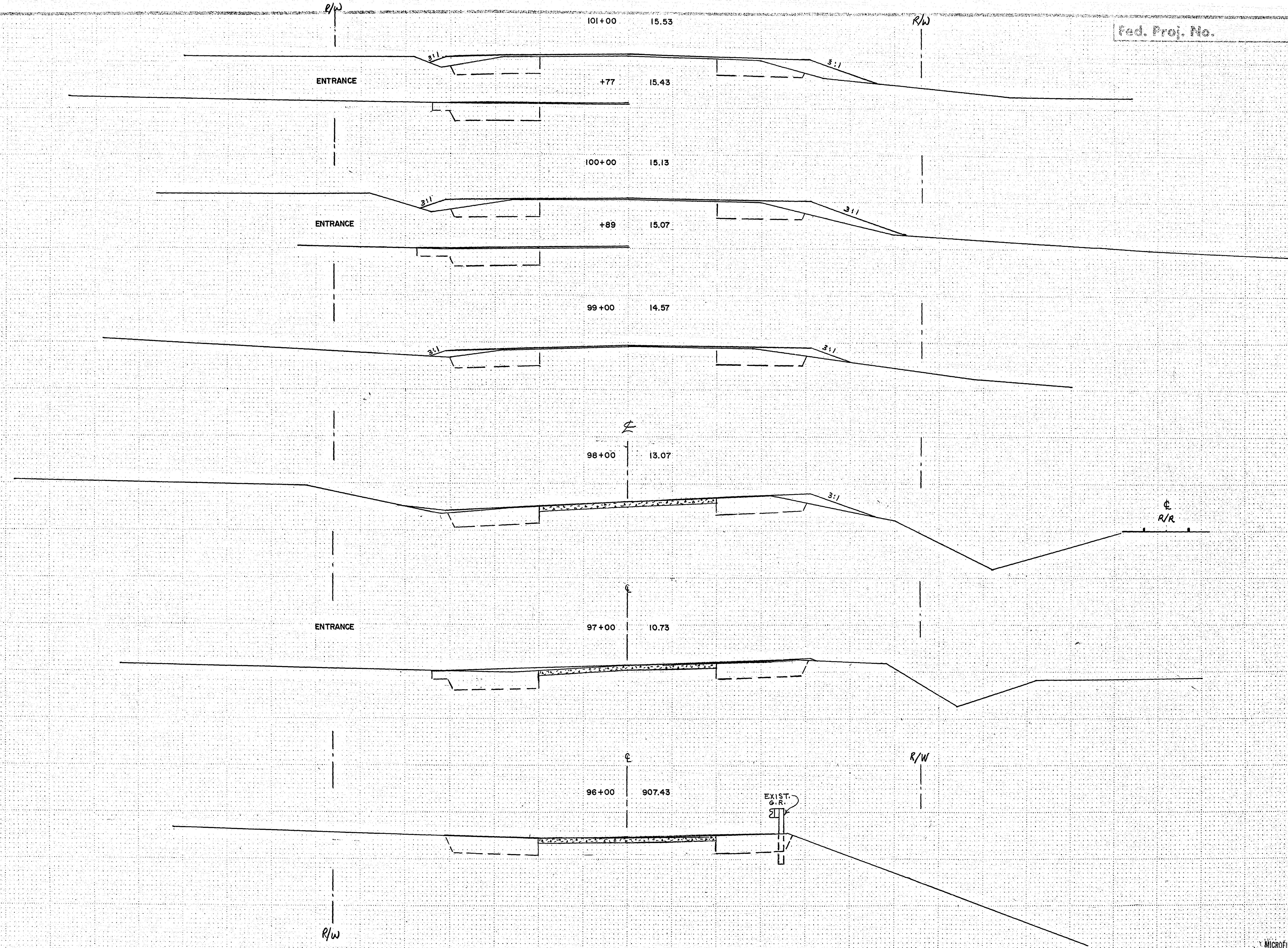
REVISED	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
			R. Wilson	

26-101



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RAMSEY CO. ENGR.

Fed. Proj. No.

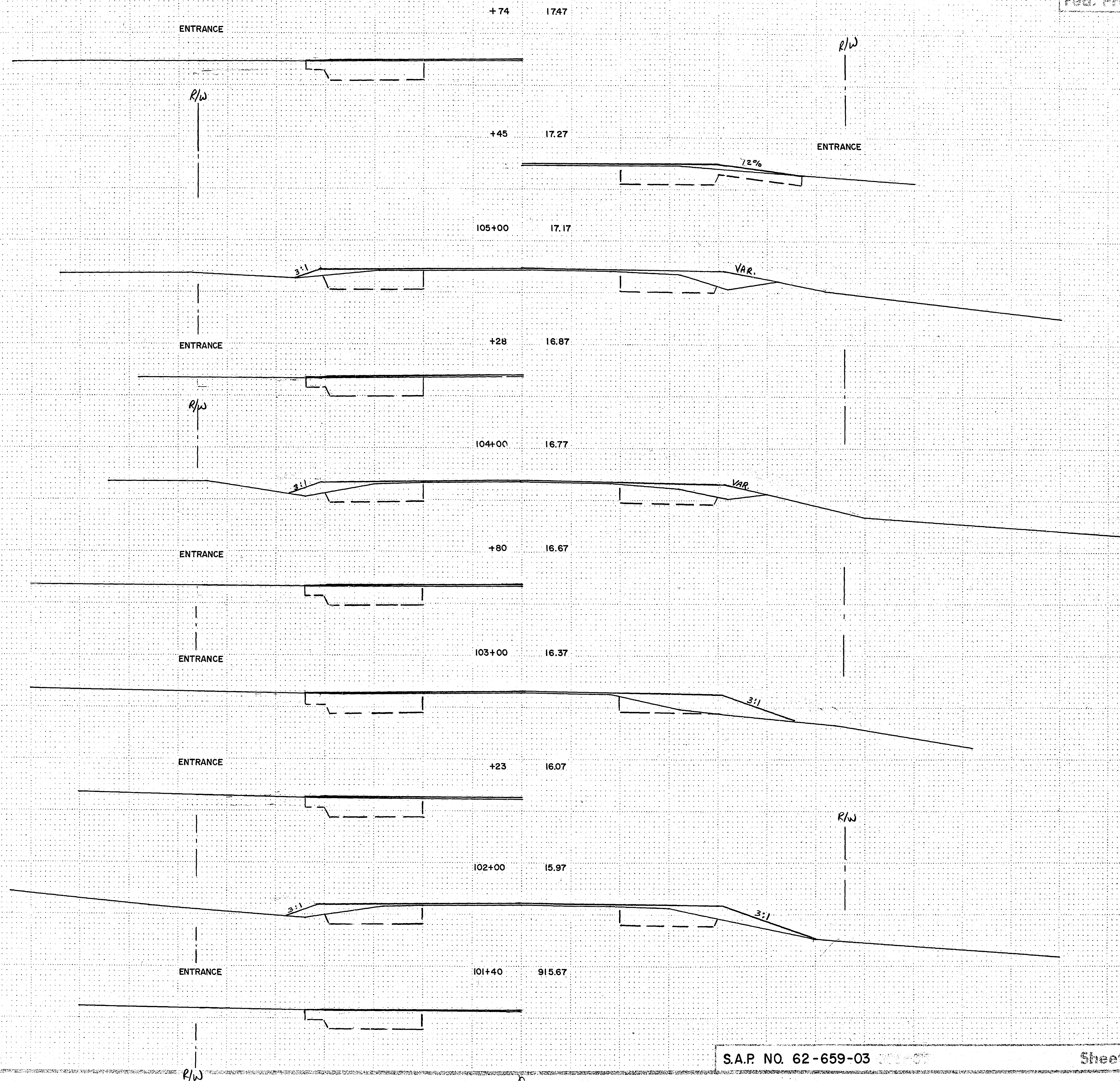


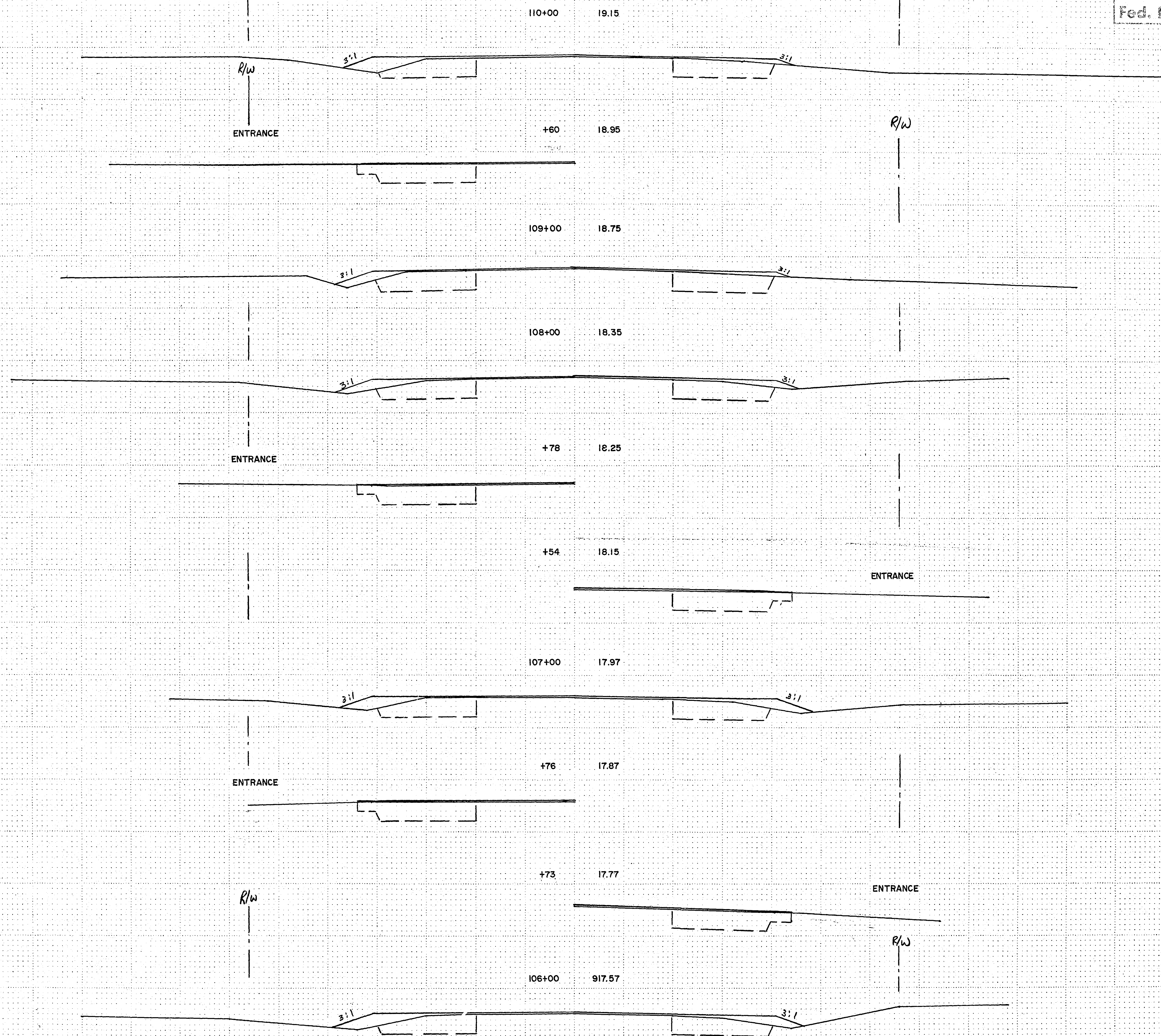
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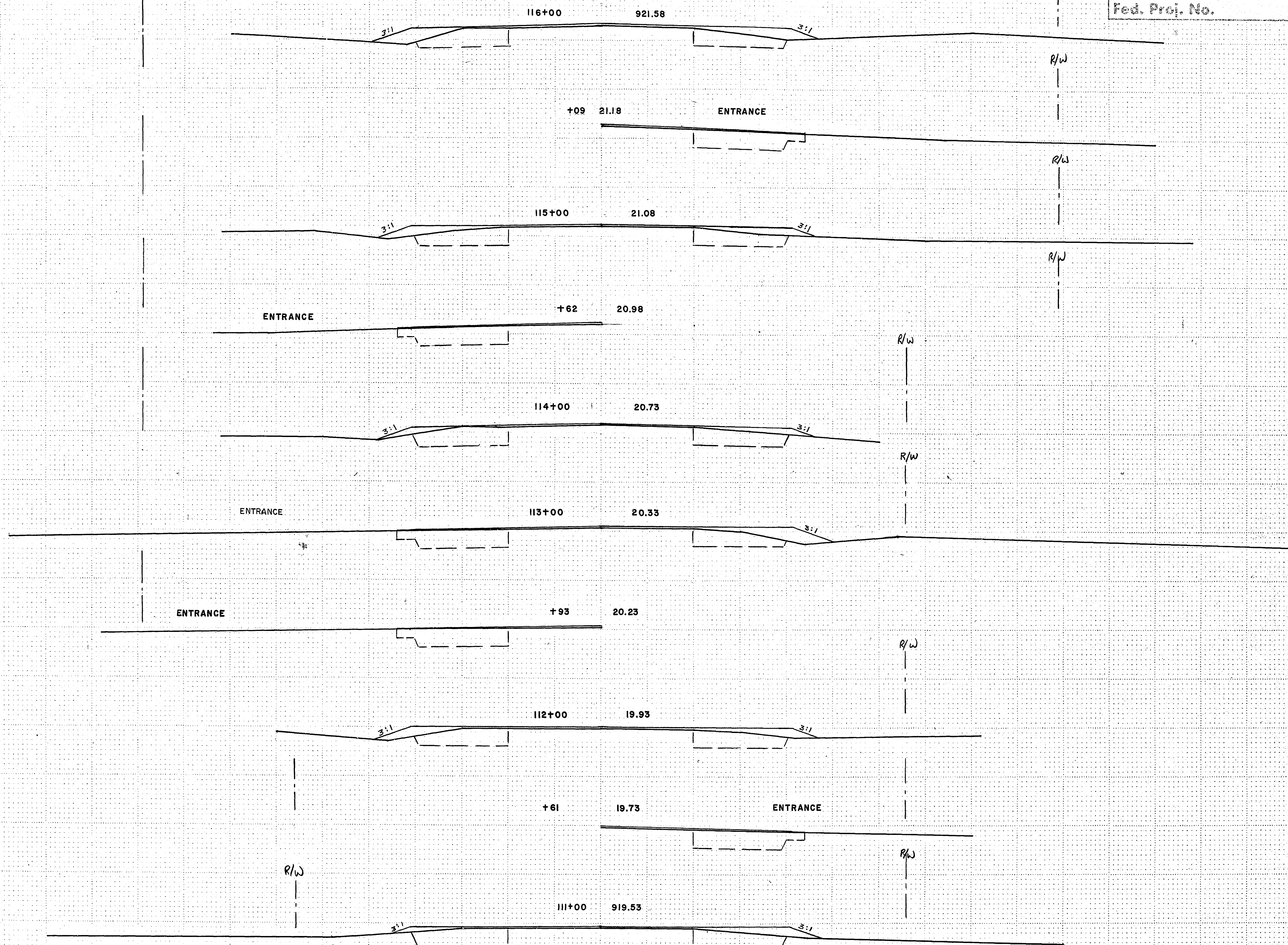
Sheet No. 6 of 19 Sheets

26-101

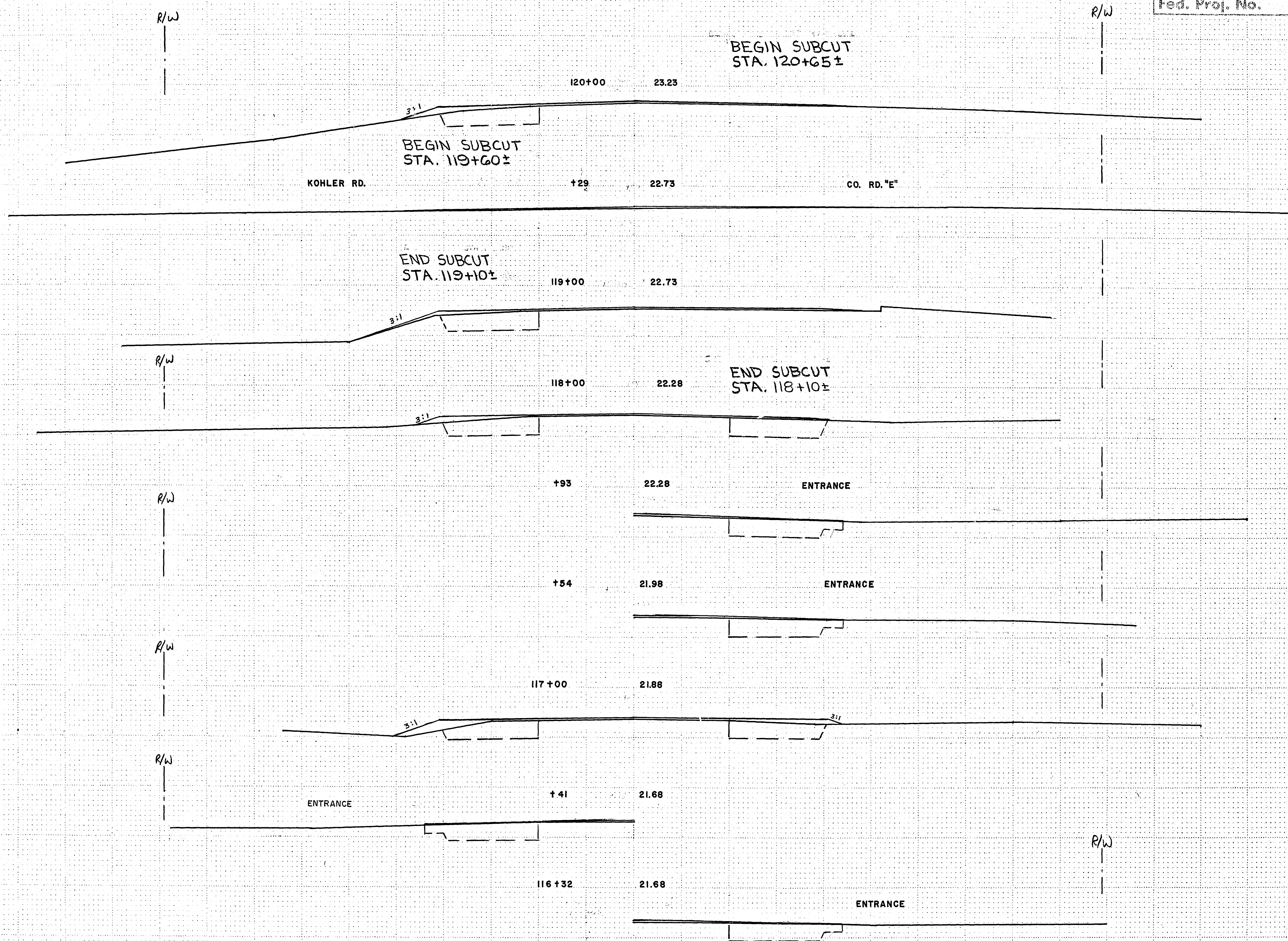
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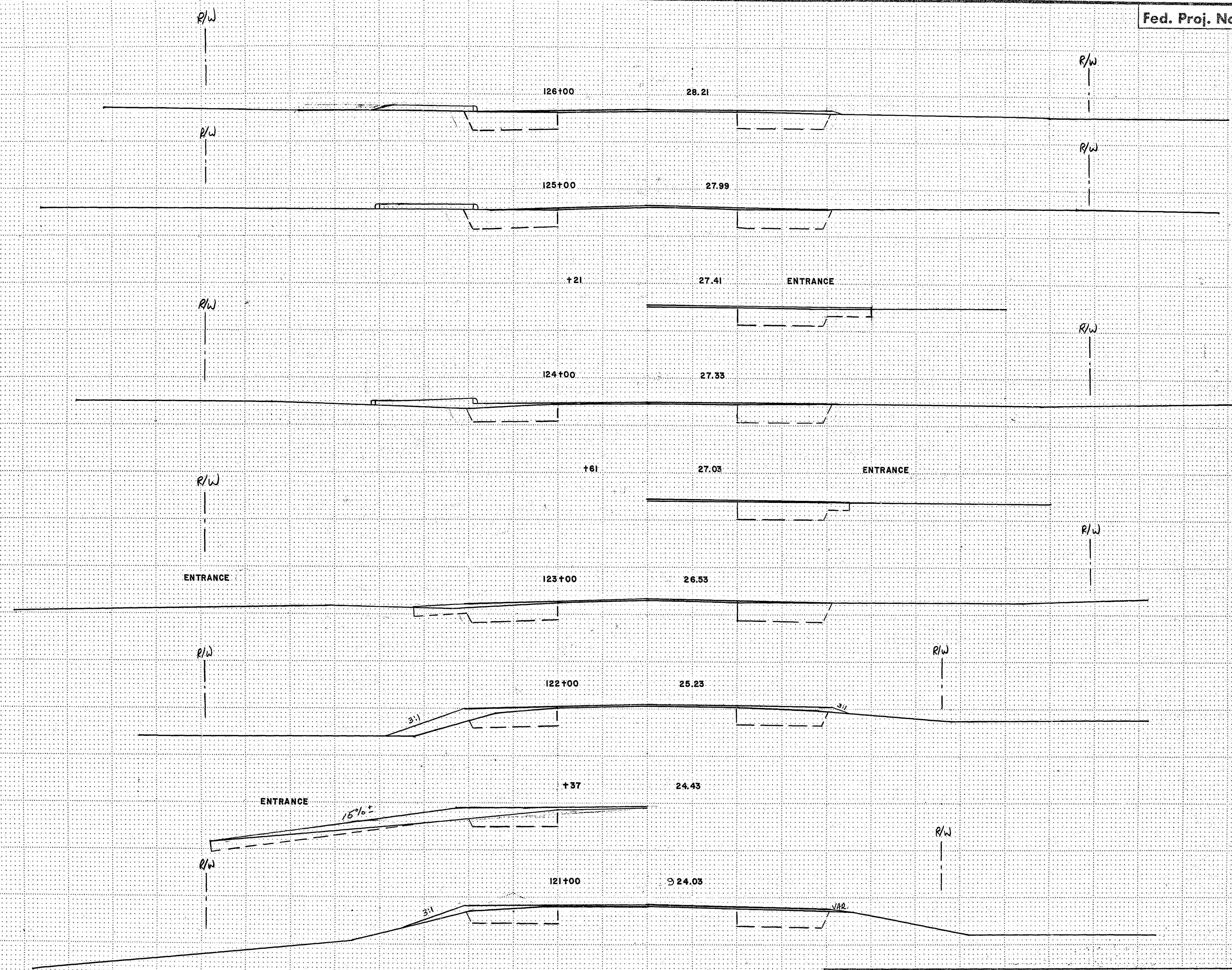


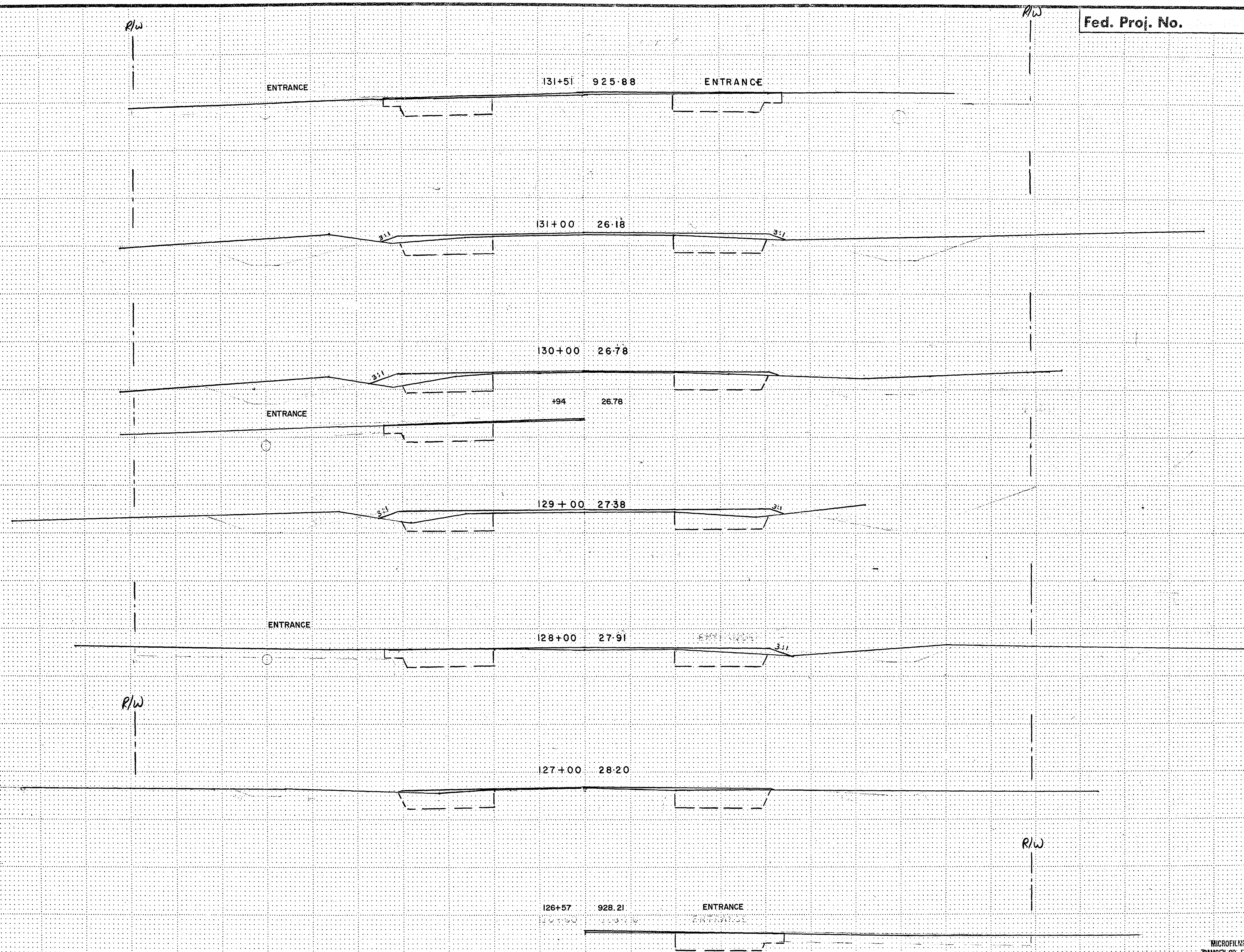




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R/W

R/W

+30 22.46

ENTRANCE

10% ENTRANCE

135+00 22.87

3:1

+79 23.07

ENTRANCE

STOCKDALE ROAD

ENTRANCE
10%

134+00 23.97

+69 24.27

ENTRANCE
10%

ENTRANCE

+46 24.37

ENTRANCE

133+00 24.87

+85 24.88

ENTRANCE

ENTRANCE

+63 25.08

R/W

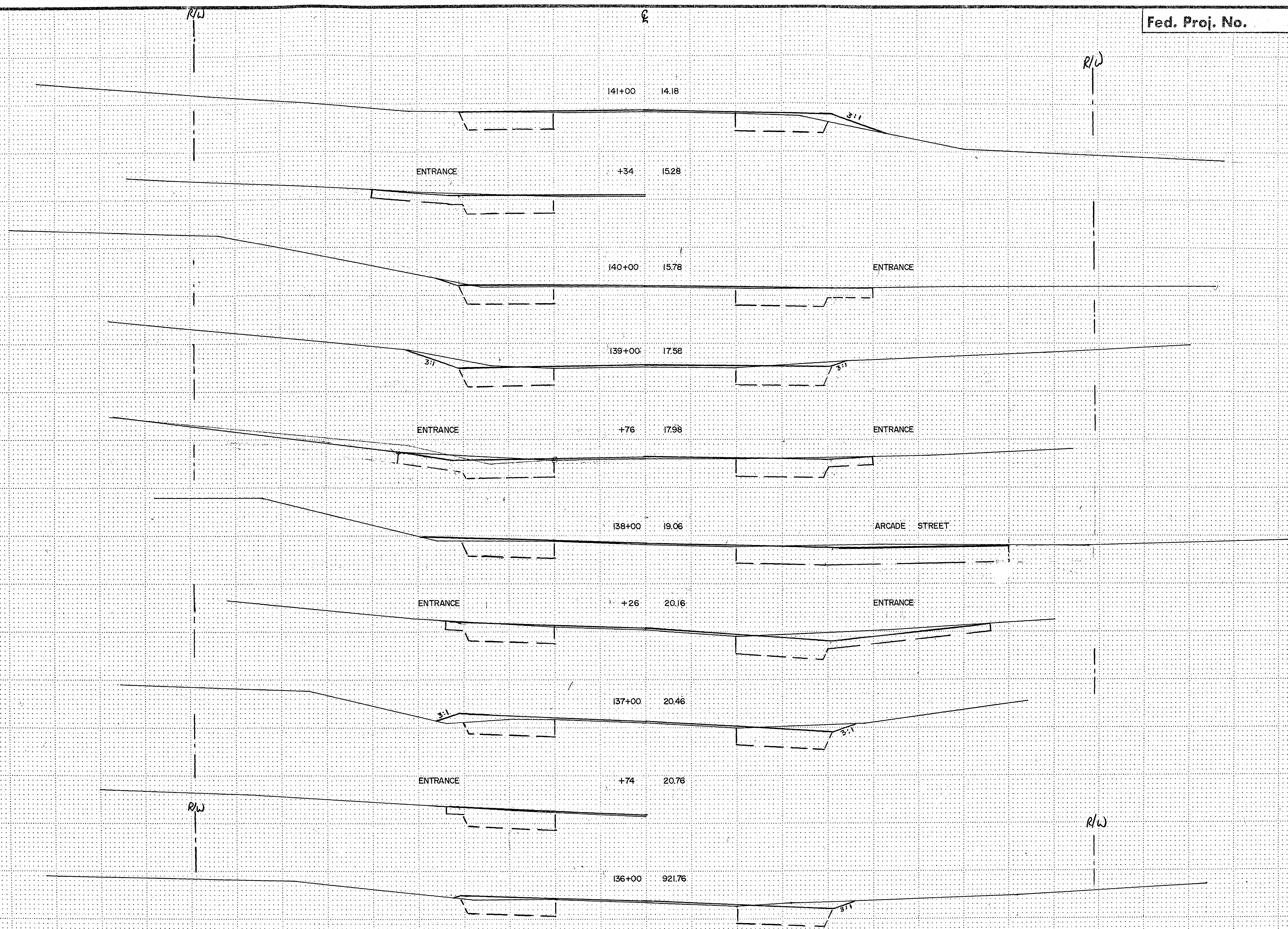
R/W

132+00 925.48

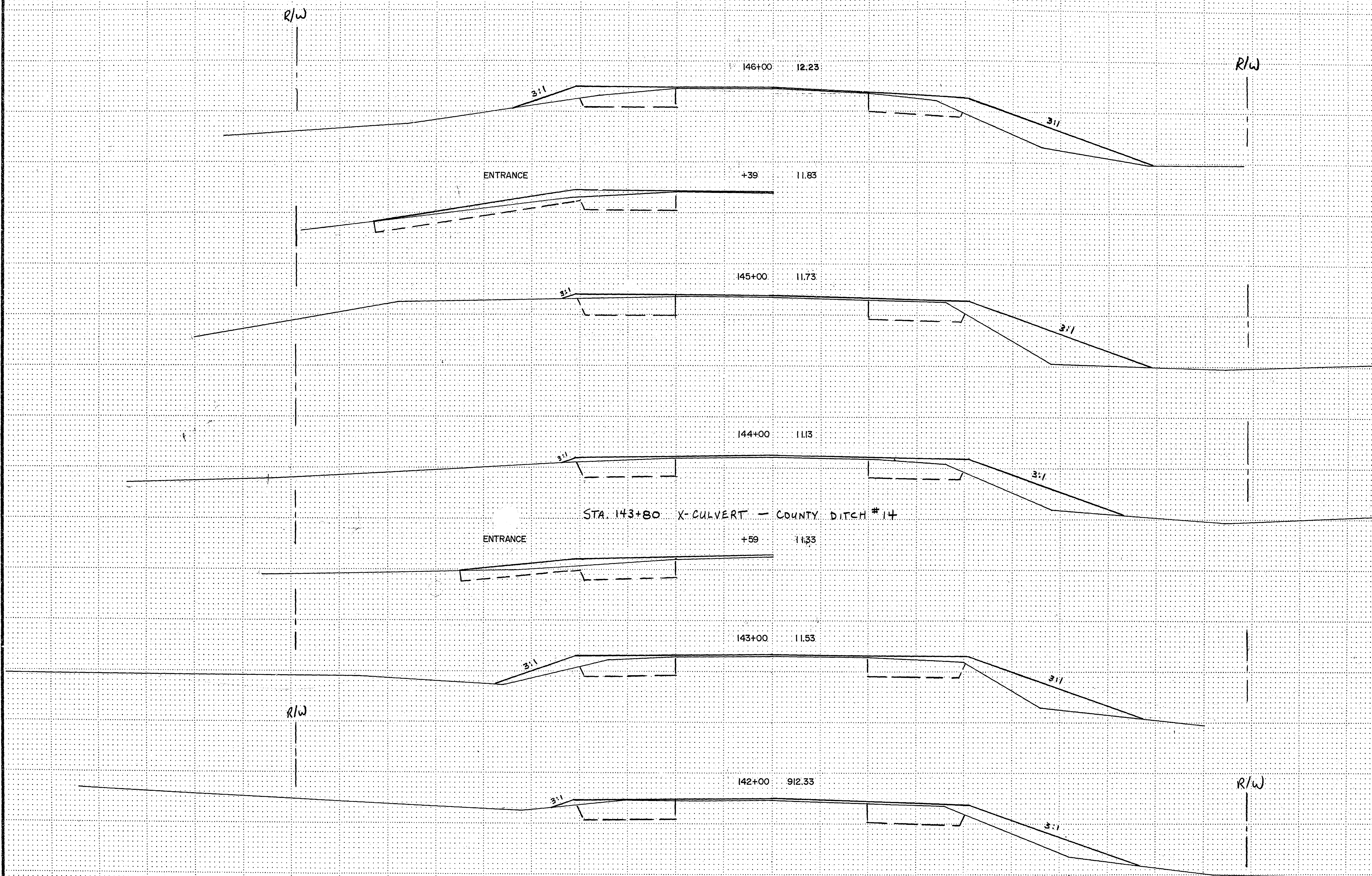
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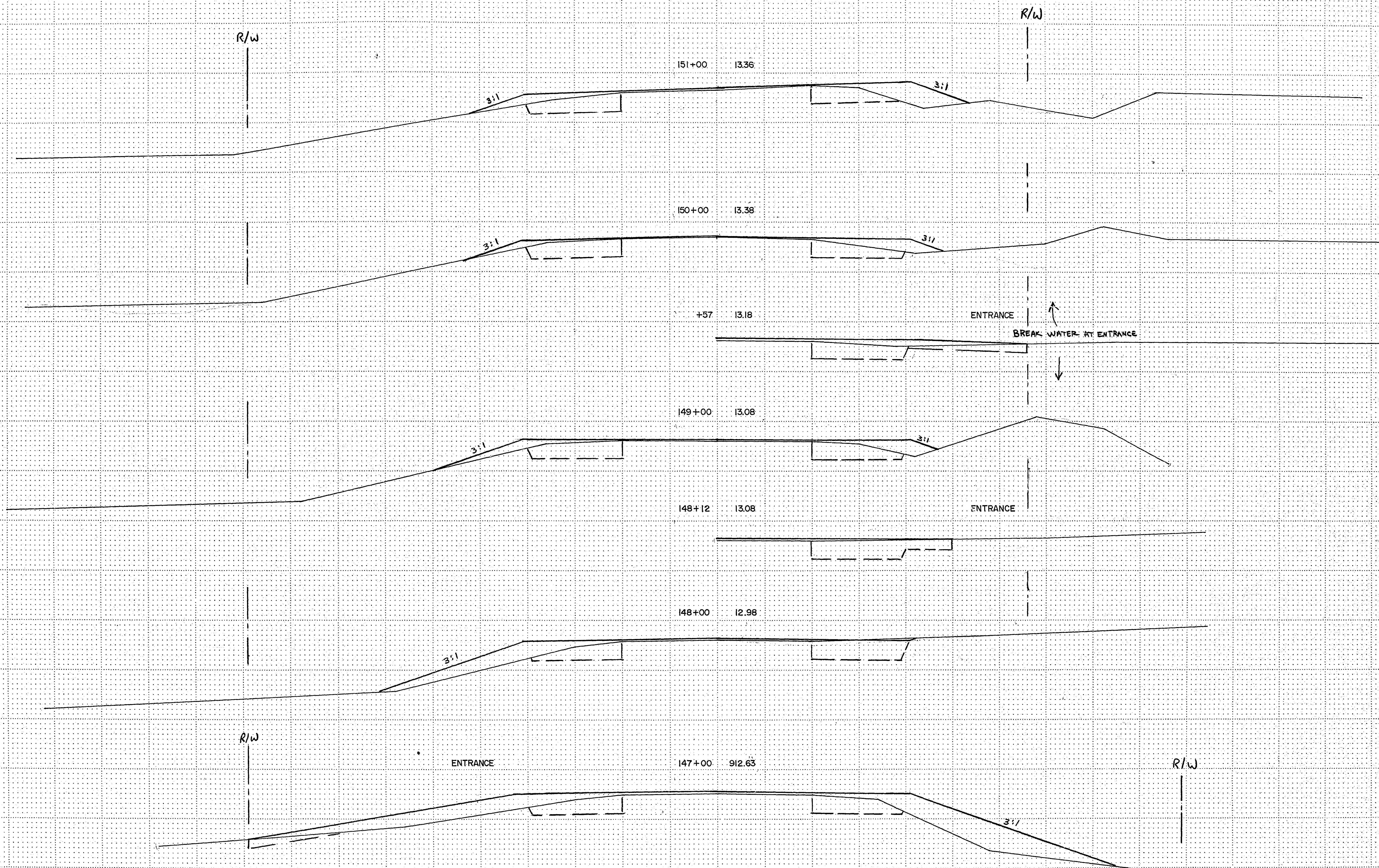
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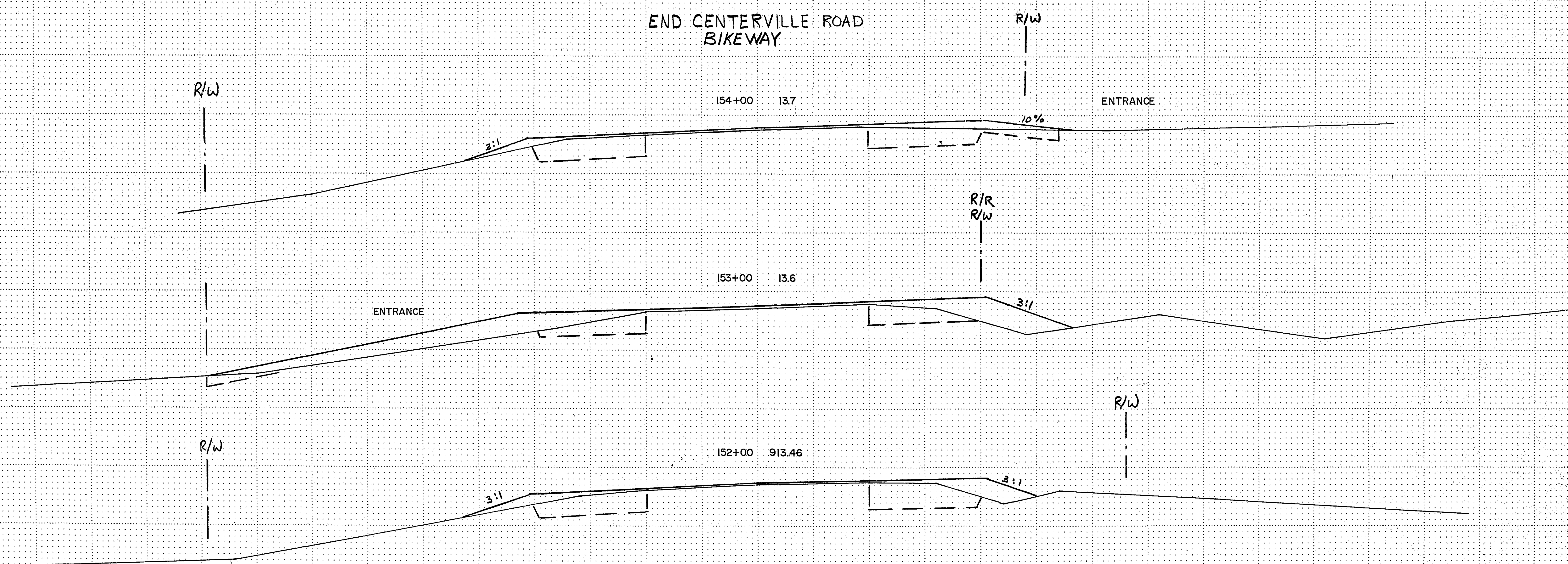
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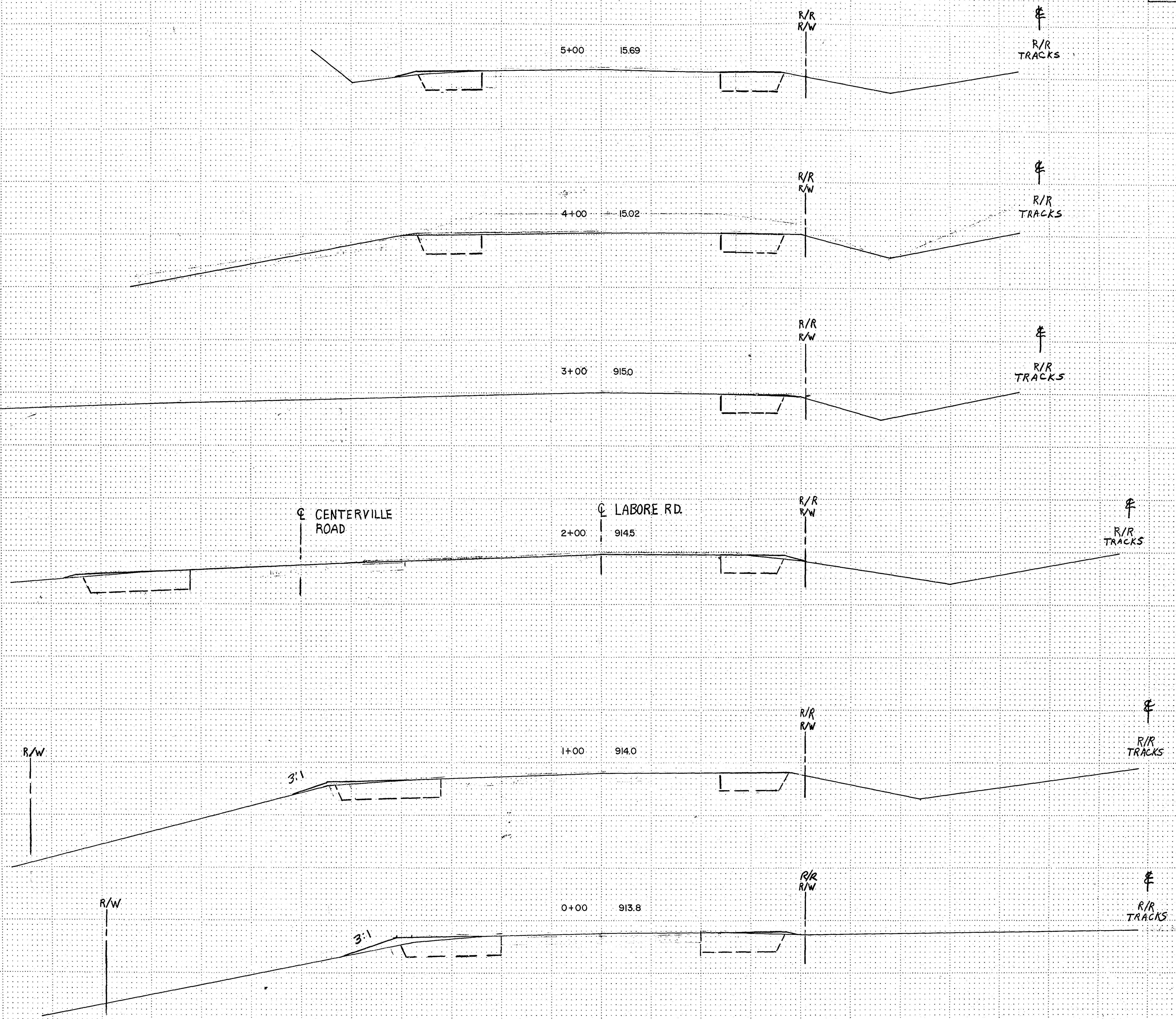


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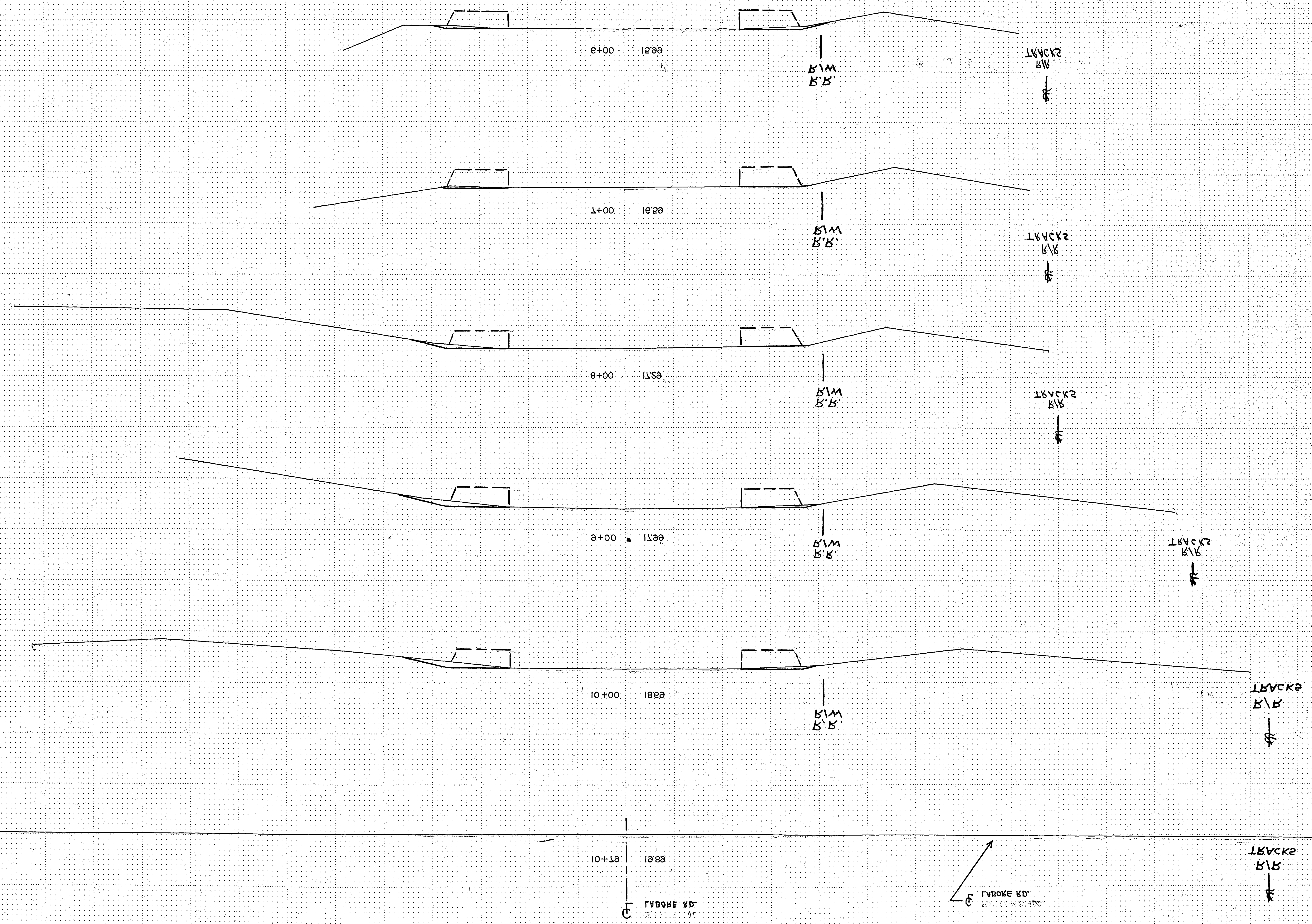


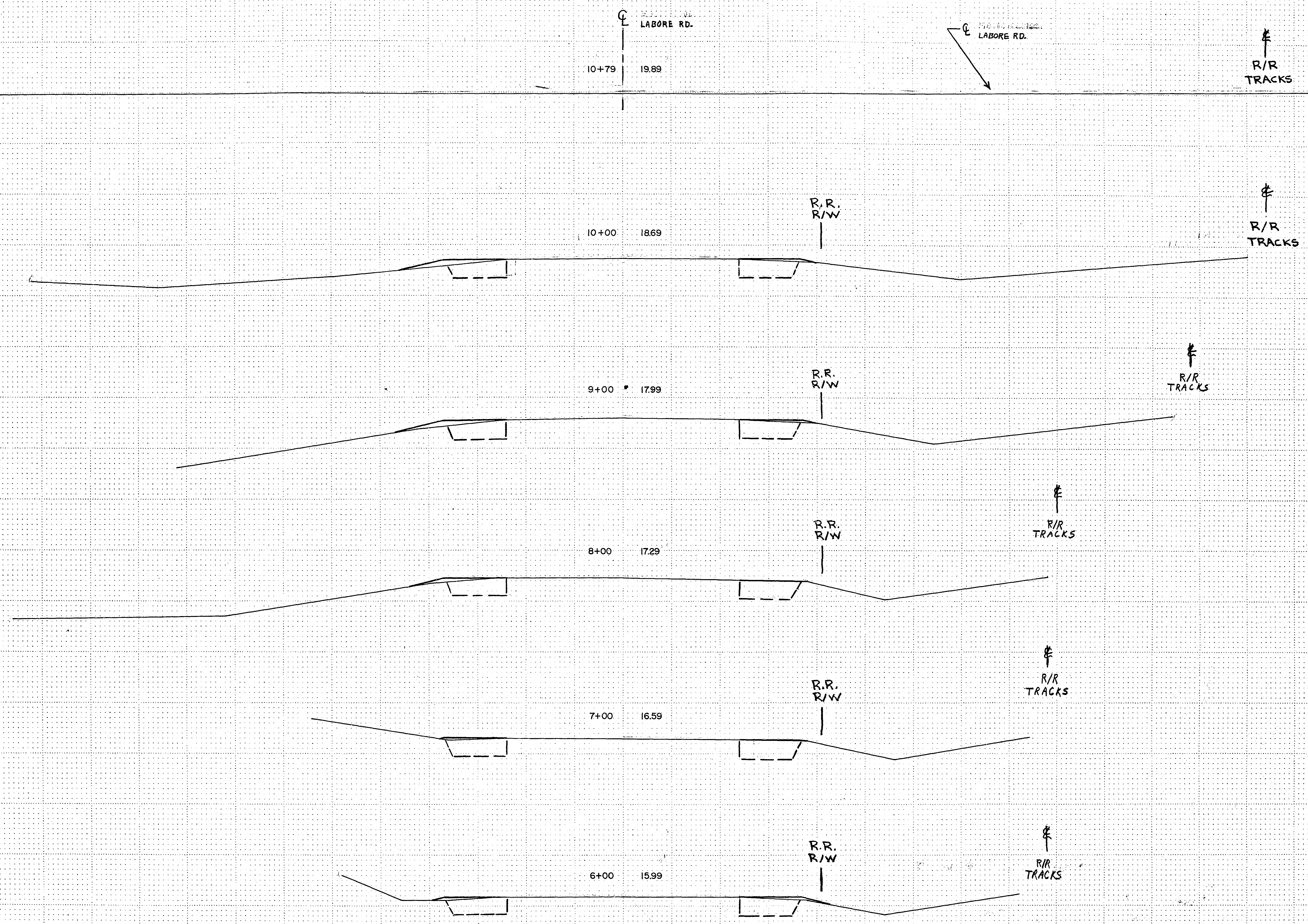






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