

SOUTH CAROLINA STATE HIGHWAY DEPARTMENT CONSTRUCTION PLANS

DOCKET NOS. 19.227 F.A. PROJ. NOS. _____

COUNTY EDGEFIELD

ROUTE NO. 231 FROM Route 23 TO Route 19-North of Johnston

TYPE OF CONSTRUCTION Bituminous Surfacing

CONTRACT AWARDED _____

WORK BEGAN April 12, 1941 MAINTENANCE BEGAN November 27, 1941 MAINTENANCE ENDED March 18, 1942

CONTRACTOR _____

DISTRICT ENGINEER D.M. Crockett RESIDENT ENGINEER R.D. Wise

INDEX

SHEET NO.	DESCRIPTION
1-A	COVER SHEET
1	TITLE SHEET
2	TYPICAL CROSS SECTION
3	ENDWALLS FOR PIPE CULVERTS
4	STANDARD SUPERELEVATION
5-8	PLAN AND PROFILE
9	CULVERT AND BRIDGE
10	STRUCTURE EXCAVATION
11-22	ROADWAY CROSS SECTIONS
	FIT CROSS SECTIONS
10	DITCH AND RAMP CROSS SECTIONS
23-27	OVERHAUL DIAGR.
28-29	MISCELLANEOUS <u>Bituminous Surfacing</u>
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31	RECAPITULATION SHEET C

TABLE OF OVERRUNS AND UNDERRUNS

ITEM	CONTRACT QUANTITIES	RES. ENGR. FINAL QUANT. COL. OFFICE	PAY QUAN.	OVERRUN	UNDERRUN	EXPLANATION
C.&G. WITHIN ROW	2.5	2.5	✓			
C.&G. OF PITS						
ROADWAY EXCAV.	8,495	9,176				
BORROW " "						
DITCH " "		326				
RAMP " "		336				
TOTAL EXCAV.	8,495	9,838	973	1,343		Overrun due to additional excavation in ramps, ditches & intersections.
EXC FOR STRUCT	45	65	55	20		Overrun due to more necessary than estimated on plans.
OVERHAUL	29,418	45,950	46,050	16,532		Overrun due to necessary location of pits.
SEL MAT FOR SHOUL	1,321	1,430	✓	109		Overrun due to additional material used in intersection.
BASE	5,028	4,891	✓		137	Underrun due to 10% additional not necessary.
SCARIFYING ETC	20,965	22,001	✓	1,036		Overrun due to increase in ramps and intersections.
Bit. Surfacing		24,046	210.00			Overrun due to increase in ramps and intersections.
CLASS "A" CONC.	25.60	25.60	✓			
" " B	3,846	3,516	✓			
REINFC STEEL	3,326	3,326	✓			
15" R.C. PIPE	106	108	✓		2	Overrun due to adjusting length of side line pipe.
18" R.C. PIPE	60	121	✓		61	Overrun due to change in size of side line pipe from 24" to 18"
24" R.C. PIPE	120	56	✓		64	Underrun due to change in size of side line pipe from 24" to 18"
30" R.C. PIPE	36	36	✓			
36" R.C. PIPE	36	36	✓			
15" R.C. Relaid	0	6	✓		6	Overrun due to none estimated on plans.
18" R.C. Relaid	0	18	✓		18	Overrun due to none estimated on plans.
CONC SIDEWALK						
3ET. CONC. C.&G.						
F.A. MARKERS						
F.A. NO. PLATE						
PLANT. SLASH						
SEL MAT. SLOP						
OVERHAUL						
FERTILIZER						
SHRINKAGE		18.3%				
NET MILEAGE		1.526				

NOTE TO RESIDENT ENGINEER: NOTES ON RECAPITULATION SHEETS SHOULD BE READ CAREFULLY AND COMPARED WITH ORIGINAL. THE RES. ENGR. SHOULD PERSONALLY CHECK THE PLANS AGAINST THE FOLLOWING LIST:

	RES. ENGR. CHECK	COL. OFFICE CHECK
ALL NOTE BOOKS PROPERLY MARKED AND INDEXED		
GRADE POINTS OF ROADWAY SHOWN ON CROSS SECTIONS		
CORRECTED BALANCES SHOWN ON PROFILE		
PITS, DITCHES AND RAMP SHOWN ON PLANS		
PLANS REFERENCED TO NOTES		
CORRECT DRAINAGE STRUCTURES SHOWN ON PLANS		
SOURCE OF RELAID PIPE SHOWN ON RECAPITULATION SHEET		
RELOCATIONS AND GRADE CHANGES SHOWN ON PLAN-PROFILE SHEETS		
EXCEPTIONS SHOWN ON PLANS, PROFILE AND CROSS SECTIONS		
SKETCHES AND COMPUTATION FOR ALL IRREGULAR ITEMS SUBMITTED		
QUANTITIES PROPERLY SECTIONALIZED-RECAP SHEETS "B" & "C" FOR EACH SECTION		
DETAIL, LARGE SCALE LAYOUT FOR CITY WORK		

OVERRUNS AND UNDERRUNS ARE TO BE FULLY EXPLAINED.
 THE FOLLOWING DATA TO BE LINKED ON FRONT OF EACH NOTE BOOK:
 FULL CAPTION AS SHOWN BY ORIGINAL PLANS; B.M. NUMBER; CONTENTS;
 CONTRACTOR; RESIDENT ENGINEER; DATE COMPLETED; TYPE OF ROAD.
 THE FINAL NOTE BOOKS PROPERLY MARKED AND DESCRIBED ARE AS FOLLOWS:

- BOOK NO. 1. TRANSIT NOTES.
- BOOK NO. 2. ORIGINAL CROSS SECTIONS.
- BOOK NO. 3. SUBGRADE CROSS SECTIONS.
- BOOK NO. 4. CULVERT NOTES, RAMPS & DITCH NOTES, & PIPE NOTES.
- BOOK NO. 5. _____
- BOOK NO. 6. _____
- BOOK NO. 7. _____

DATA CORRECT
R.D. Wise
 RESIDENT ENGINEER DATE 6/2/42

QUANTITIES RECOMMENDED FOR PAYMENT
 ESTIMATE ENGINEER DATE

File Hooper

INDEX OF SHEETS

SHEET No. 1	TITLE PAGE
" " 2	TYPICAL CROSS SECTIONS OF IMPROVEMENT
" " 3	ENDWALLS FOR PIPE CULVERTS
" " 4	SUPERELEVATION STANDARD
" " 5	PLAN & PROFILE STA 2124 TO STA 82186.3
" " 7	4 FT X 6 FT X 36 FT R.C. BOX CULVERT STA 78135
" " 10	CROSS SECTIONS STA 2124 TO STA 82186.3

SOUTH CAROLINA
STATE HIGHWAY DEPARTMENT
COLUMBIA

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

DOCKET 19.227
ROUTE
EDGEFIELD COUNTY
FROM A POINT 1.15 MILES NORTH OF JOHNSTON
ON ROUTE 23 TO A POINT NEAR THE SALUDA
COUNTY LINE ON ROUTE 19

SCALE: PLAN AND PROFILE 1 INCH = 100 FEET HORIZONTAL; 1 INCH = 10 FEET VERTICAL.

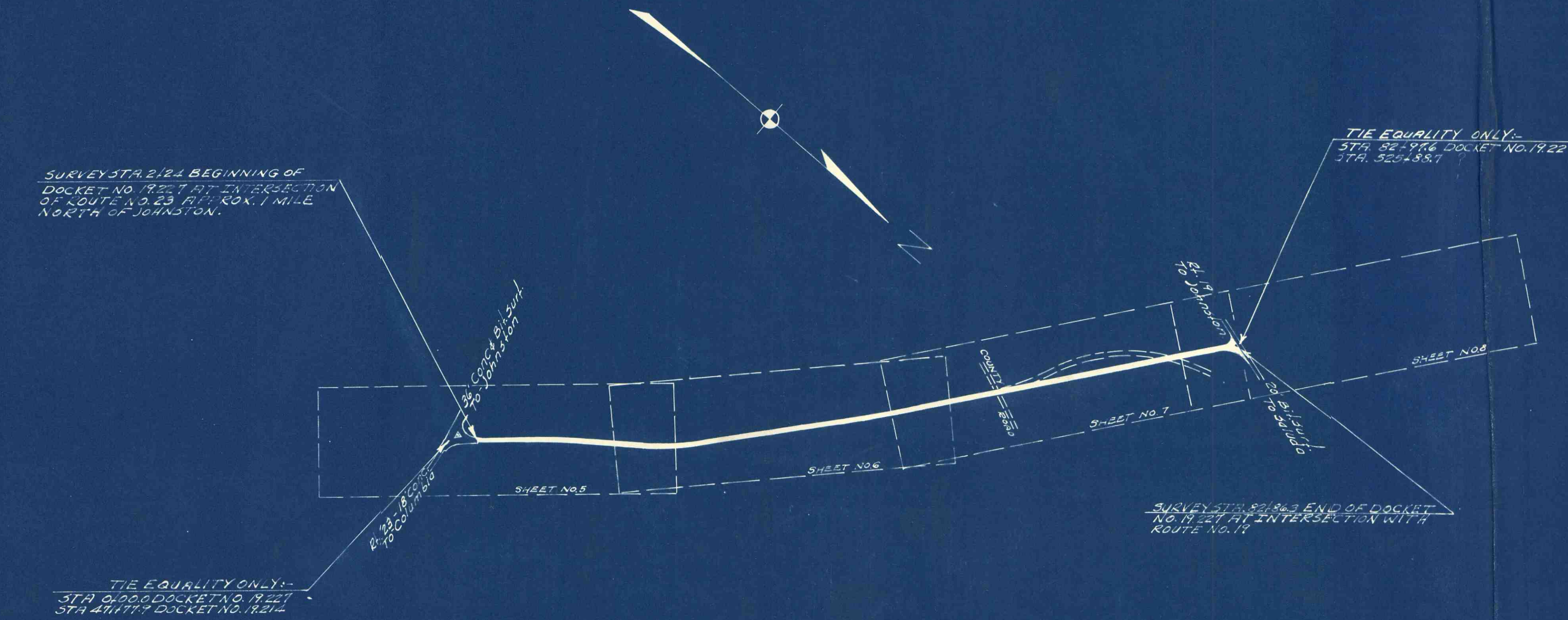
FED. ROAD DIST. NO.	STATE	COUNTY	DOCKET PROJ. NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
14	S. C.	EDGEFIELD	19.227	23	1	19

SUMMARY OF ESTIMATED QUANTITIES

STATION	SHEET NO.	ITEM	CONCRETE		REINF.	STEEL	STRUCT.	PILES (LINEAR FEET)		RIP RAP
			CLASS "A" CU. YDS.	CLASS "B" CU. YDS.	POUNDS	EXCAV. CU. YDS.	TREATED LIN. FT.	UNTREATED LIN. FT.		
78135	9-7	END WALLS FOR PIPE CULVERT 4' X 6' X 36" R.C. BOX CULVERT			3,546		126			
TOTAL PIPE FOR CULVERTS										
TOTALS										

DIAM.	REINFC. CONCRETE	TOTALS	
15"	106	TOTAL CLEARING AND GRUBBING WITHIN RIGHT-OF-WAY	1.5
18"	40	TOTAL CLEARING AND GRUBBING ON PIT	ACRE
24"	150	TOTAL UNCLASSIFIED EXCAVATION	2,495
30"	32	TOTAL OVERHAUL	29,418
36"	36	TOTAL SELECTED MATERIAL FOR SHOULDERS	1,321
		TOTAL EARTH TYPE BASE COURSE C/GROUND SURFACE MATERIAL	25,088
		TOTAL SCARIFYING, MIXING, REMIXING, SHAPING AND RESHAPING	120,965
		TOTAL ADD SCARIFYING, MIXING, REMIXING, SHAPING AND RESHAPING	5,000
		TOTAL BITUMINOUS SURFACING	20,366
		TOTAL	

*INCLUDES 300 CY FOR DITCHES AND RAMPS.
*INCLUDES 2960 CY/M OVERHAUL ON EXCAVATION
*INCLUDES 10% FOR ANY EXTRA MATERIAL NECESSARY
*INCLUDES 10% FOR ANY EXTRA MATERIAL NECESSARY
*INCLUDES 5,000 M.S.Y. FOR RAMPS AND INTERSECTION
*INCLUDES 500 S.Y. FOR RAMPS AND INTERSECTION



OK.
J.W.
5-16-41

CONVENTIONAL SIGNS

State Line	Trolley Poles
County Line	Power Poles
City or Town Limits	Telephone or Telegraph Poles
Property Line	Marsh
Fence	Trees
Retaining Wall	Brush
Existing Road	Stumps
Ⓒ and R.O.W. Lines of Proposed Road	Buildings
Railroad	Bridge
Levee or Embankment	Concrete Box Culvert
Guard Rail	Pipe Culvert
Point of Intersection (P. I.)	Drop Inlet and Culvert
	Hub on Center Line

LEGEND

PROPOSED PROJECT	—————
OTHER ROADS	-----

LAYOUT

Scale: 1 inch = 500 feet

Net Length of Roadway	= 1.526	Miles
Net Length of Bridges	= 0.000	Miles
Net Length of Project	= 1.526	Miles
Length of Exceptions	= 0.000	Miles
Gross Length of Project	= 1.526	Miles

Equalities in Stationing NONE

Note: All workmanship and material on this project to conform with South Carolina State Highway Department Standard Specifications for Highway Construction dated March 15th, 1939, as approved by the Administrator, Federal Works Agency.

APPROVED

C. R. McMillan
STATE HIGHWAY ENGINEER
DATE 5-16-41

RECOMMENDED FOR APPROVAL

DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

APPROVED

COMMISSIONER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

FED. ROAD DIST. NO.	STATE	COUNTY	DOCKET NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
14	S.C.	EDGEFIELD	19227		5	33

PLAN	DATE	BY
SURVEYED		
PLOTTED		
CHECKED		
BY		

PROFILE	DATE	BY
SURVEYED		
PLOTTED		
CHECKED		
BY		

SURVEY STA 2124 BEGINNING OF DOCKET NO. 19227 AT INTERSECTION OF ROUTE NO. 25 APPROX. 1 MILE NORTH EAST OF JOHNSTON

THE EQUALITY:
STA. 0100 DOCKET NO. 19227
STA. 1711719 DOCKET NO. 19214

PI = 10143.9
Δ = 40.25' RT
D = 91.30
T = 875.9
E = 8.3

NOTES TO RESIDENT ENGINEER

Changes involving increased cost of project or changes in alignment must be specifically authorized by the State Highway Engineer in advance of being made. District Engineer may authorize minor alterations not in conflict with the standard practices of the Department and not involving increases in cost.

Keep a record on your set of plans of all changes made during construction and forward to Columbia office each month information necessary to check monthly estimates.

All curves of thirty minutes (30') and over are to be super-elevated as shown on sheet and elevation shown are normal elevations before super-elevation is added.

The Resident Engineer is to have proper grade connection made with existing roads.

All buildings, etc. are to be removed from the Right of Way so as to secure an unobstructed Right of Way for the width shown on the plans.

All telephone and power poles are to be removed from the roadbed.

Lump Sum bid will cover clearing and grubbing of the entire Right of Way.

Excavation necessary in cleaning out, widening, deepening or reshaping existing ditches will be measured and paid for at the contract unit price for unclassified excavation. Material thus obtained may be used in roadway widening and/or disposed of as directed by the Engineer.

The cost of all drilling and chipping necessary in extending pipe culverts and resetting headwalls shall be included in the price bid per linear foot for pipe.

B.M. # 1 = B.M. DOCKET NO. 19214
x on base of monument 30 ft
at Sta. 0160 EL. = 662.89

B.M. # 2 = x on corner of corn
coping 40 ft. at Sta. 10185 EL. = 671.97

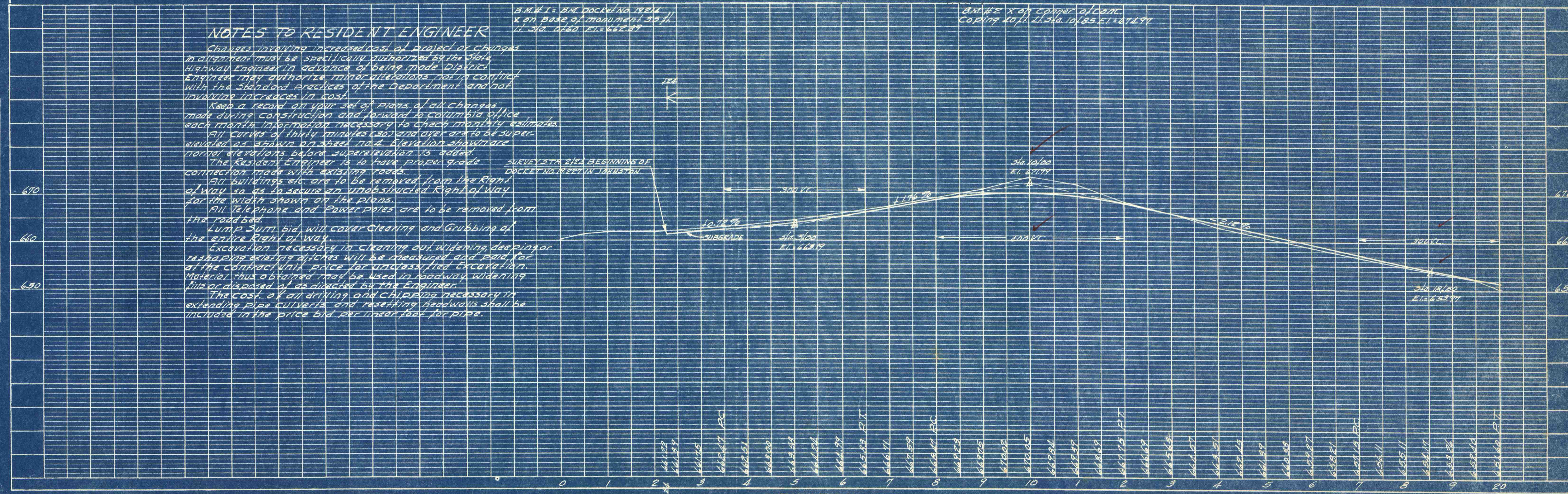
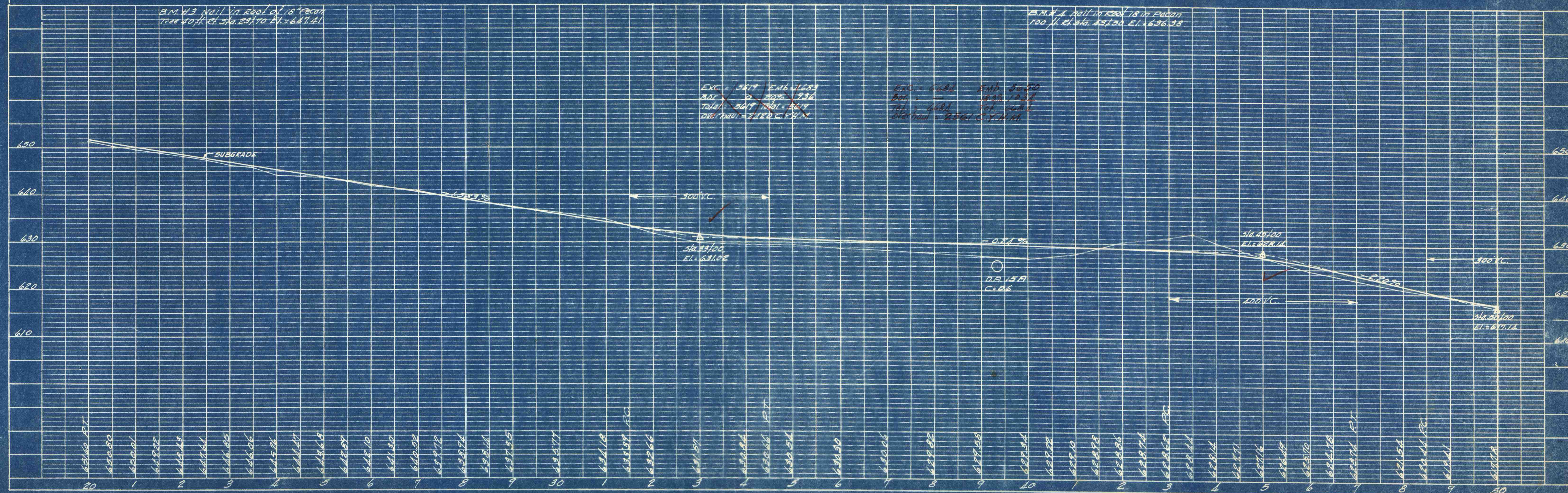
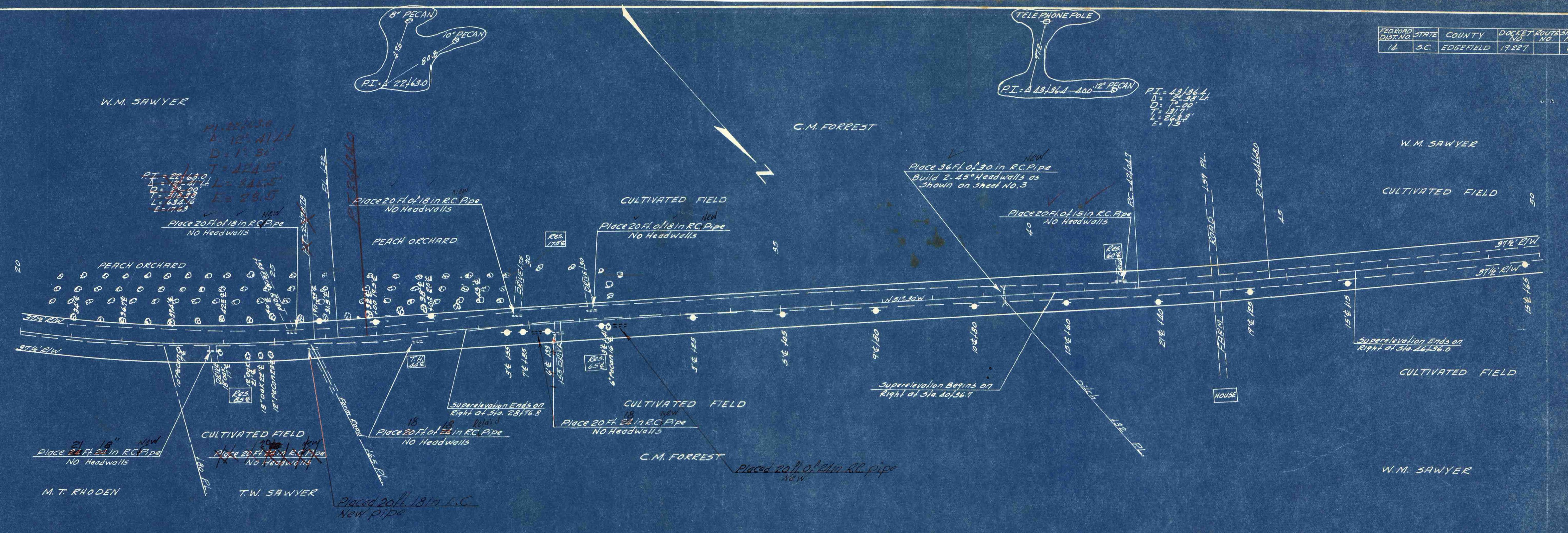


PLATE 1-PLAN-PROFILE B. P. R. STANDARD

FED. ROAD DIST. NO.	STATE	COUNTY	DOCKET NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
14	S.C.	EDGEFIELD	19227		6	231

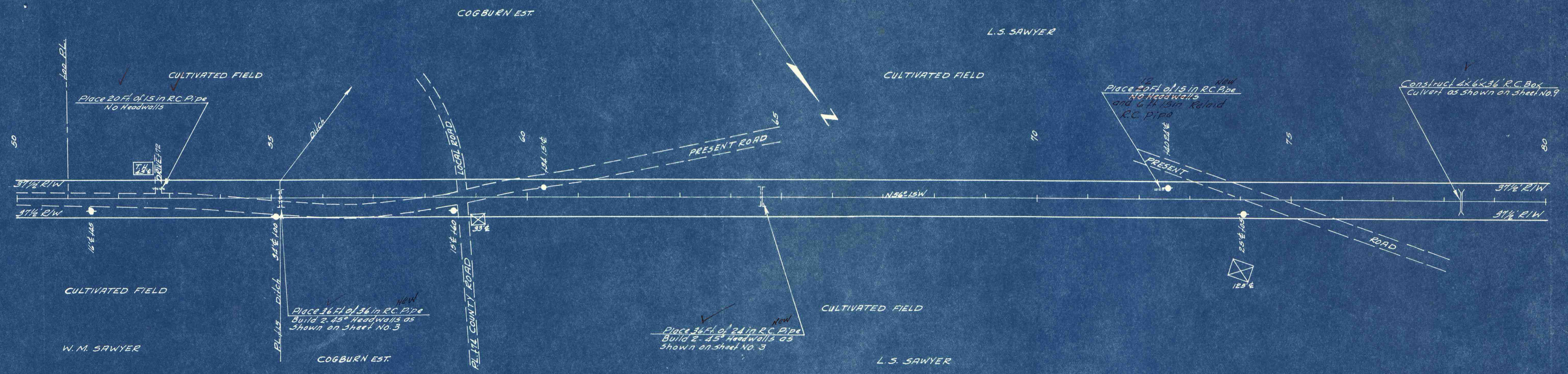
PLAN	BY	DATE
SURVEYED	C.M.T.	
NOTE BOOK		
PLOTTED		
CHECKED		
RT. OF WAY		
CHECKED		
NO.		

PROFILE	BY	DATE
SURVEYED	C.M.T.	
NOTE BOOK		
PLOTTED		
CHECKED		
STRUCTURE		
NOTATIONS		
CHECKED		
NO.		

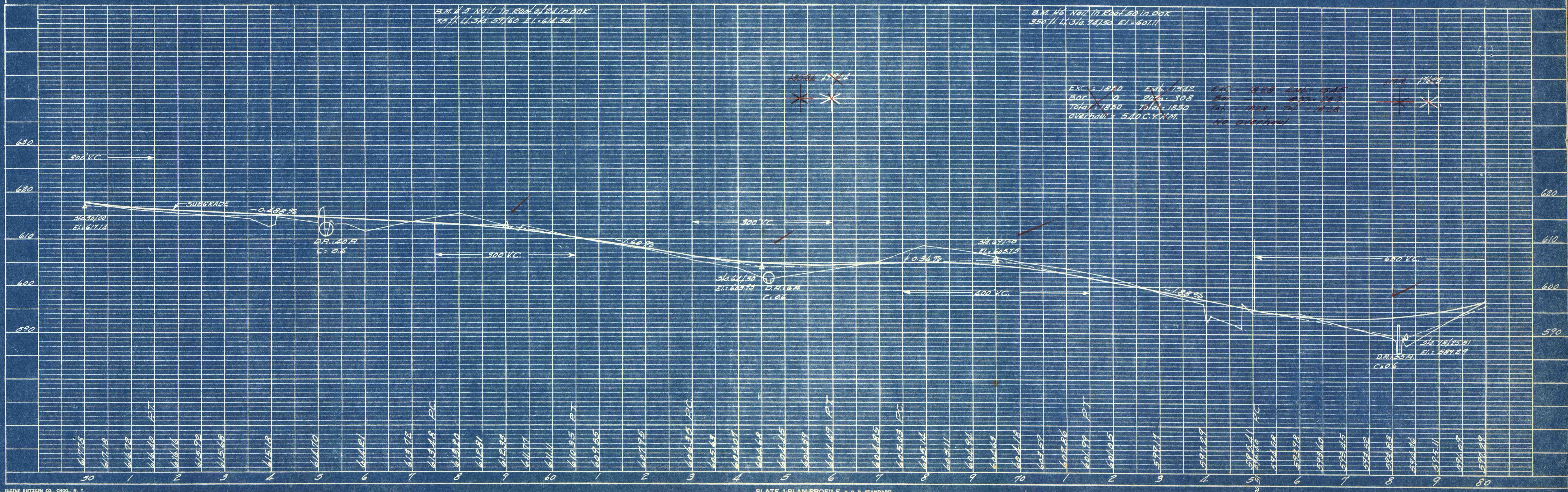


FED. ROAD DIST. NO.	STATE	COUNTY	DOCKET NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
14	S.C.	EDGEFIELD	17.221		7	137

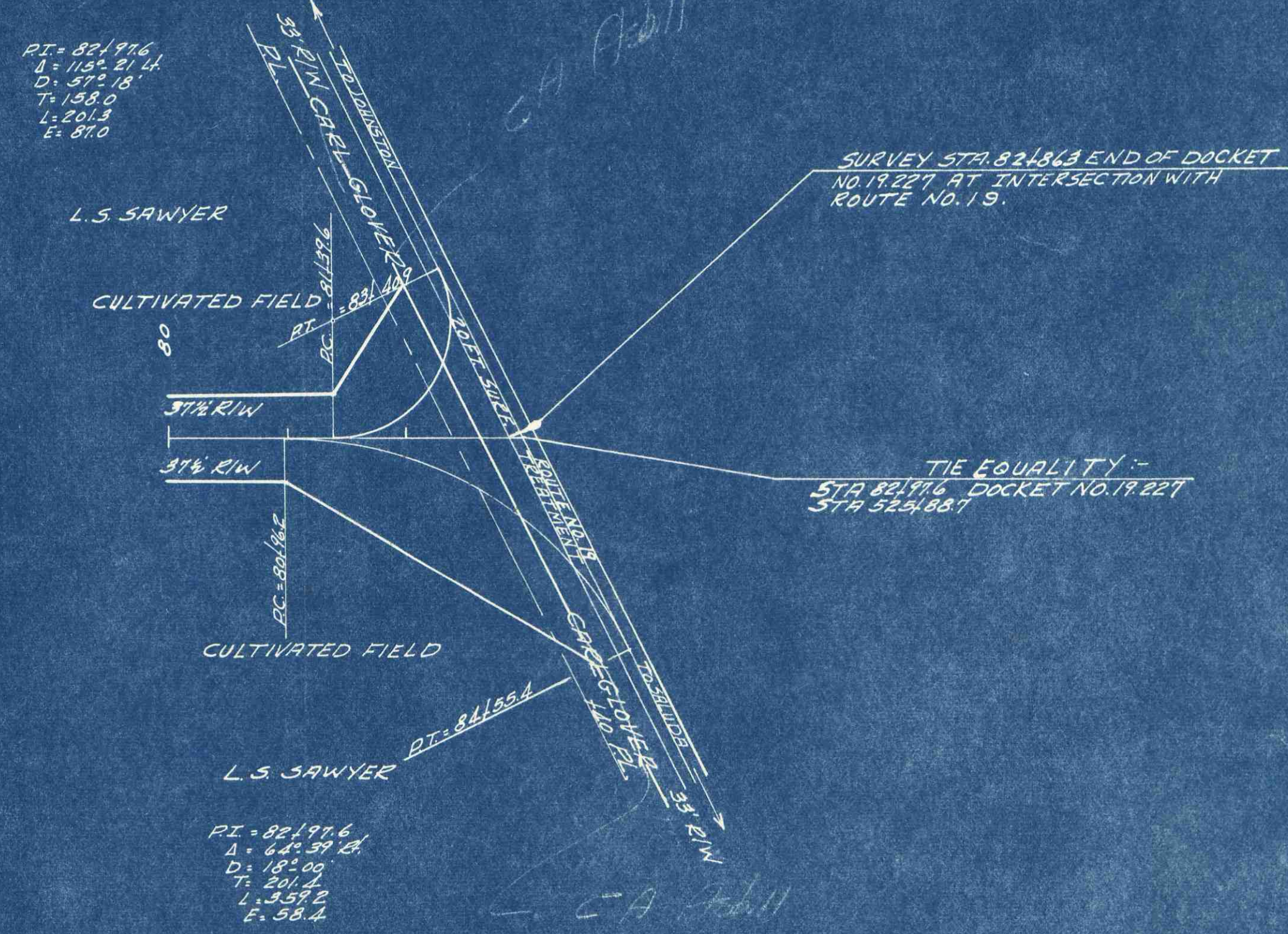
PLAN	REVISIONS	DATE
NO. 1	BY C.A.T.	
NO. 2	BY C.A.T.	



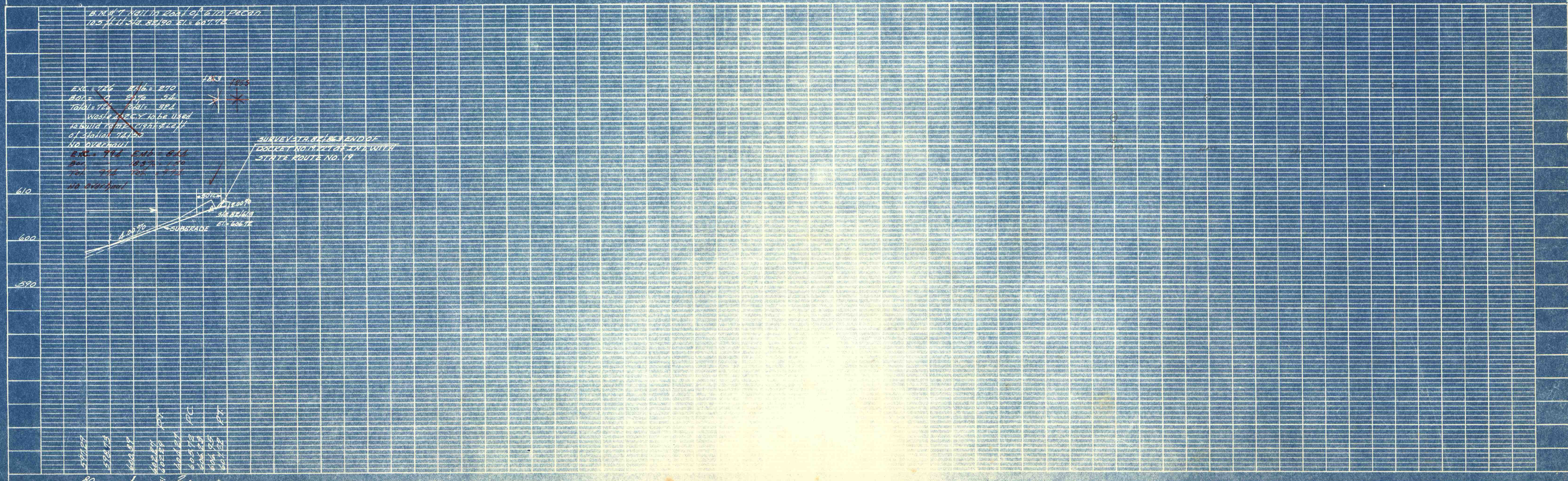
PROFILE	REVISIONS	DATE
NO. 1	BY C.A.T.	
NO. 2	BY C.A.T.	



FED. ROAD DIST. NO.	STATE	COUNTY	DOCKET NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
14	SC.	EDGEFIELD	19227		8	1931



PLAN	DATE	BY
SURVEYED NOTE BOOK C.M.T.		
ALIGNED CHECKED RT. OF WAY CHECKED		
NO.		



PROFILE	DATE	BY
SURVEYED NOTE BOOK C.M.T.		
GRADES CHECKED B.M.'S NOTED STRUCTURE NOTATION CHECKED		
NO.		