



DATE	STATE	U.S. ROAD	PROJECT	TOWNSHIP
		NO. 271-H		

# COLORADO

## STATE HIGHWAY DEPARTMENT

### PLAN AND PROFILE OF PROPOSED U.S.P.W. PROJECT NO. 271-H STATE HIGHWAY NO. 6 PUEBLO COUNTY

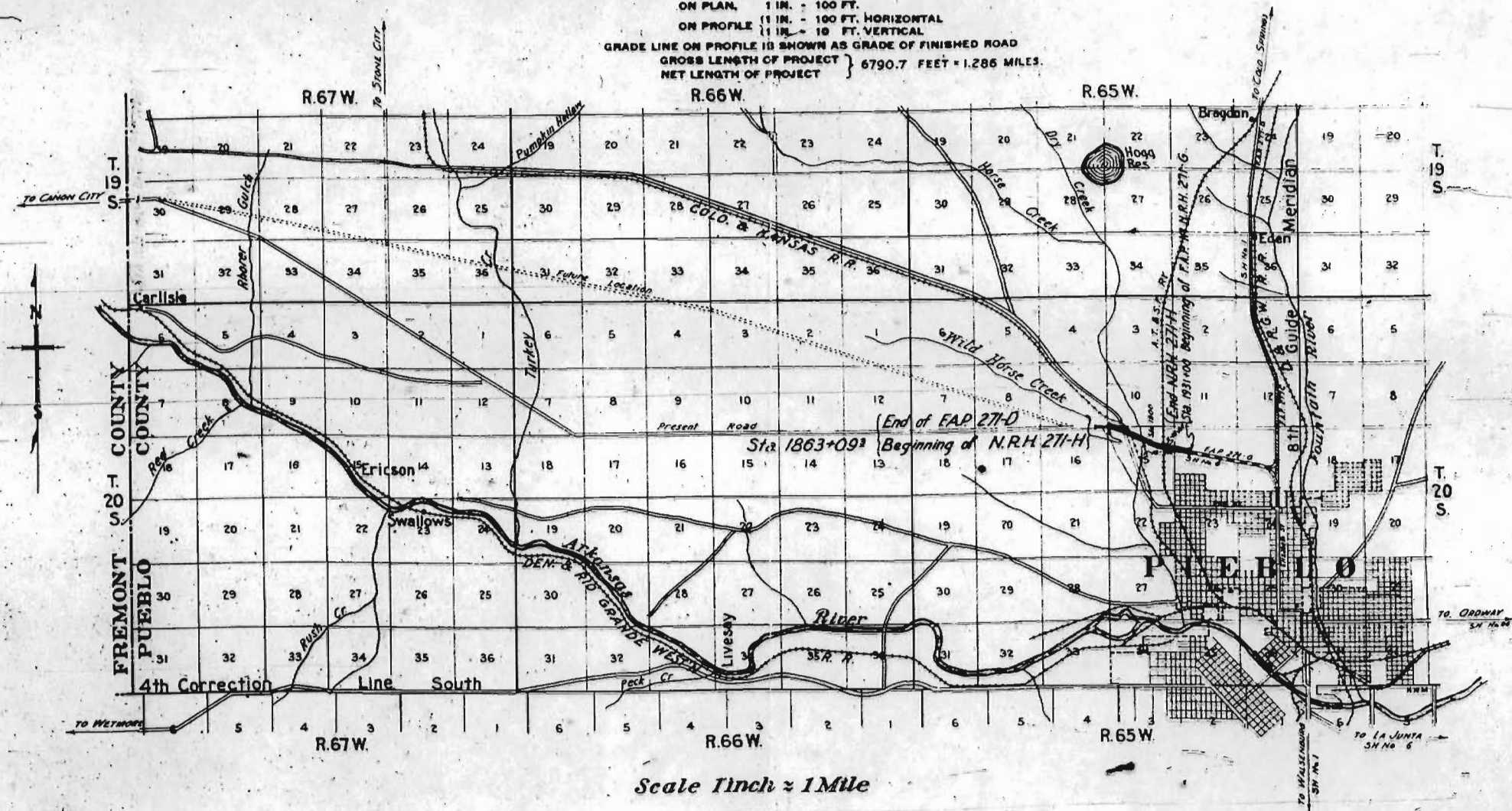
#### INDEX OF SHEETS

- No. 1. Sketch Map and Title Sheet.
- 2. Typical Cross Section of Improvement and Summary of Quantities.
- 3 to 6. Details of Bridge at Sta. 1893 +.
- 7 to 11. Details of Underpass and Drainage System at Sta. 1910 + 75 ±.
- 12. Standard Concrete Box Culvert. M-104-D
- 13. Standard Concrete Box Culvert. M-103-D
- 14. Standard Methods for Super-elevation and Widening. M-1-A
- 15. Standard Wire Fences with Steel Posts, & Marker Posts. M-27-A
- 16. Standard Wire Cable Guard Fence. M-20-F
- 17 to 19. Alignment Plan & Profile.
- 20 to 33. Roadway Cross Sections.

#### CONVENTIONAL SIGNS

- CENTER LINE OF SURVEY
- RIGHT OF WAY LINE
- TOWNSHIP LINE
- COUNTY LINE
- SECTION LINE
- ONE QUARTER SECTION LINE
- BARBED WIRE FENCE
- WIRE CABLE GUARD FENCE
- RAILROADS
- POLE LINES

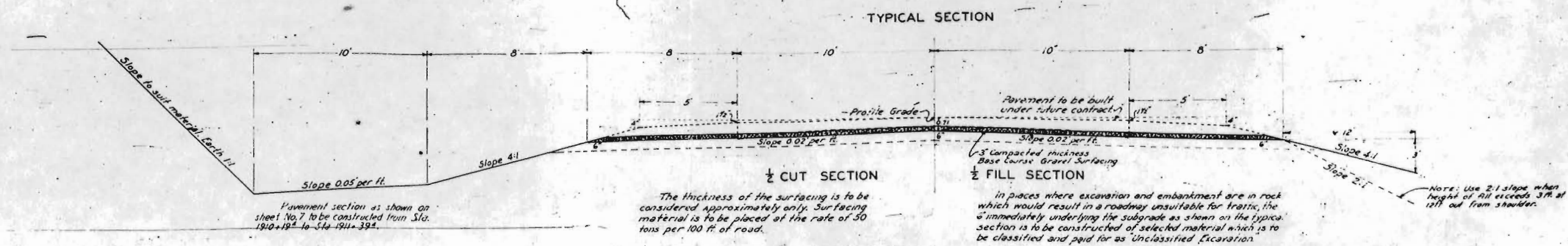
**SCALES**  
 ON PLAN, 1 IN. = 100 FT.  
 ON PROFILE 1 1/2 IN. = 100 FT. HORIZONTAL  
 1 1/2 IN. = 10 FT. VERTICAL  
 GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD  
 GROSS LENGTH OF PROJECT } 6790.7 FEET = 1.286 MILES.  
 NET LENGTH OF PROJECT }



RECOMMENDED FOR APPROVAL  
*William*  
 ASSISTANT ENGINEER  
 APPROVED  
*Charles*  
 STATE HIGHWAY ENGINEER  
 RECOMMENDED FOR APPROVAL  
 [Signature Box]  
 APPROVED  
 [Signature Box]

# TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

REVISED: MAR. 9, 1934 - F.W.D. & M.M.L.  
 Rev. 3-27-34: New 421, 422, 423 R.O.W.  
 3-11-34 47 N. Per. R.O.W.



**GENERAL NOTES**

This project is to be constructed in conformity with the Standard Specifications of the Colorado State Highway Department adopted January 1, 1930.

All quantities on preliminary plans are to be considered approximate only.

All roadway excavations required to construct this Project are to be obtained as indicated on the plans. Quantities involved beyond the limits of the ditch as shown on the Typical Section, either noted on profile as 'Borrow' or on Structure tabulation as 'Embankment', are to be classified and paid for as 'Unclassified Excavation'. These quantities are to be stated as part of the original excavation at locations indicated on the plans.

Slope stakes, beyond the limits of the Typical Section as shown, are subject to change by the Engineer to fit Embankment requirements actually met in construction.

All curves are to be Super-elevated as provided for by the Standard Super-elevation sheet.

All poles encroaching on the Right of Way, to be removed by the owner.

The entire Project is to be cleared for the full width of the Right of Way, and the cost thereof included in the Lump Sum price for Clearing and Grubbing the entire project.

Except as limited by the special provisions, power equipment may be used on this project.

At all places on the project where the new work lies along the present travelled road, the Contractor shall, at his own expense, prosecute construction in such a manner that traffic may readily pass over the road. Also, the Contractor shall maintain in safe condition and at his own expense all temporary approaches.

## LIST OF STRUCTURES

Station	Description	Unclass. Excav. cu yds.	Structure Excav.		Concrete Cu Yds.		Reinf. Steel Lbs.	Corrugated Metal Pipe Lin. Ft.		Miscel.	
			Wet	Rock Com.	Cl. A	Cl. B		24"			
1863+00	Project Marker									150 tons of surfacing	
1872+10	Approach to project									Proj. Mark.	
1872+40	2'x2' S.C.B.C. and inlet & outlet	100	35		221		2216			459 cu yds Emb.	
1874+75	Remove C.M.P. curb & 100 guard fence	200								(Remove c.m.p. & 100 guard fence)	
1876+00	3'x3' S.C.B.C. and inlet & outlet				31.5		2611			100 cu yds Emb.	
1882+50	Road approach		30		209		2080				
1887+00 to 1891+00	C.B.C. 2x2x50 and inlet & outlet	100									
	Diversion ditches R.	500									
1893+	Concrete Bridges guard fence		(Quantities in Summary)								200 wire cable guard fence.
1894+00 to 1908+50	Diversion ditch L.	200						72			
1906+00	2 C.M.P. Side drains		(Quantities in Summary)								
1910+70	Underpass drainage system										
1912+00 to 1920+00	Diversion ditch L.	120									
1929+50	C.B.C. 3x2x44 and inlet & outlet	20	55		248		2212				
1911+62	Remove parts of shoofly emb.	2000								23,200	
1904+75 to 1910+00	Drainage ditch	300								51a yds	
<b>Totals</b>		<b>3540</b>	<b>230</b>		<b>993</b>		<b>9119</b>		<b>72</b>		

\*Structural Excavation is estimated to be 25% common and 75% rock; each of which is estimated to be 25% wet and 75% dry.

## SUMMARY OF APPROXIMATE QUANTITIES

NR	Item	Unit	Quantity			Total
			Roadway	Bridge	Underpass	
10a	Clearing and Grubbing entire proj.	Lump Sum				
11a	Removing c.m.p. guard fence, etc.	lin. ft.	670			670
12a	Removing fence	cu yds	43,000			43,000
13c	Unclassified Excavation	cu yds			6,000	6,000
14a	Dry Rock Excavation (Structural)	cu yds	50	20	300	400
14b	Dry Common	cu yds	130	1940	1140	3210
14c	Wet Rock	cu yds	20	480		500
14d	Wet Common	cu yds	50	640	10	700
18a	Station Yards Overhaul	sq yds	203,000		69,000	272,000
18b	Yard Mile Overhaul	mi	100			100
30x	Gravel or Crushed Rock Surfacing	tons	3400			3400
37a	Concrete Pavement	sq yds			400	400
37b	Sand Cushion	cu yds			25	25
42a	Untreated Bridge Timber	mbm		0.6		0.6
42y	Treated Bridge Timber	mbm			5.3	5.3
43x	Asphalt Plank	sq ft			520	520
44a	Misc Untreated Timber	mbm			0.3	0.3
46a	Class A concrete	cu yd	100	1092	537	1719
46b	Class D concrete	cu yd			271.0	271.0
47	Waterproofing	sq ft			642	642
47	Reinforcing Steel	lb	9120	120,720	42,320	178,160
48	Structural Steel	lb		228,960	28,800	257,760
53c	24" Corrugated Metal Pipe	lin. ft.	72			72
72	Wire Cable Guard Fence	lin. ft.	200			200
75x	Galvanized Barbed Wire fence	lin. ft.	12,400			12,400
75y	Gates in	each	2			2
78	Project Marker		1			1
79	Right of Way Markers		12			12
82	Sheet copper-B & S No 16 ga	lb		265		265
83	Trash guards	each			4	4
89	Drain pipe	each		6		6
97	C.I. Manhole rings & cover				1	1
MATERIALS TO BE FURNISHED AND WORK TO BE DONE BY RAILROAD CO FORCES:-						
	Or four. Track & temporary Bridge	Lump Sum				

## R.O.W. MARKERS

Station	Side	Nº
1863+09.3	R.H.L.	2
1889+57	L.A.	1
1889+97	R.L.	1
1907+00	R.H.L.	4
1917+00	R.H.L.	4
<b>Total</b>		

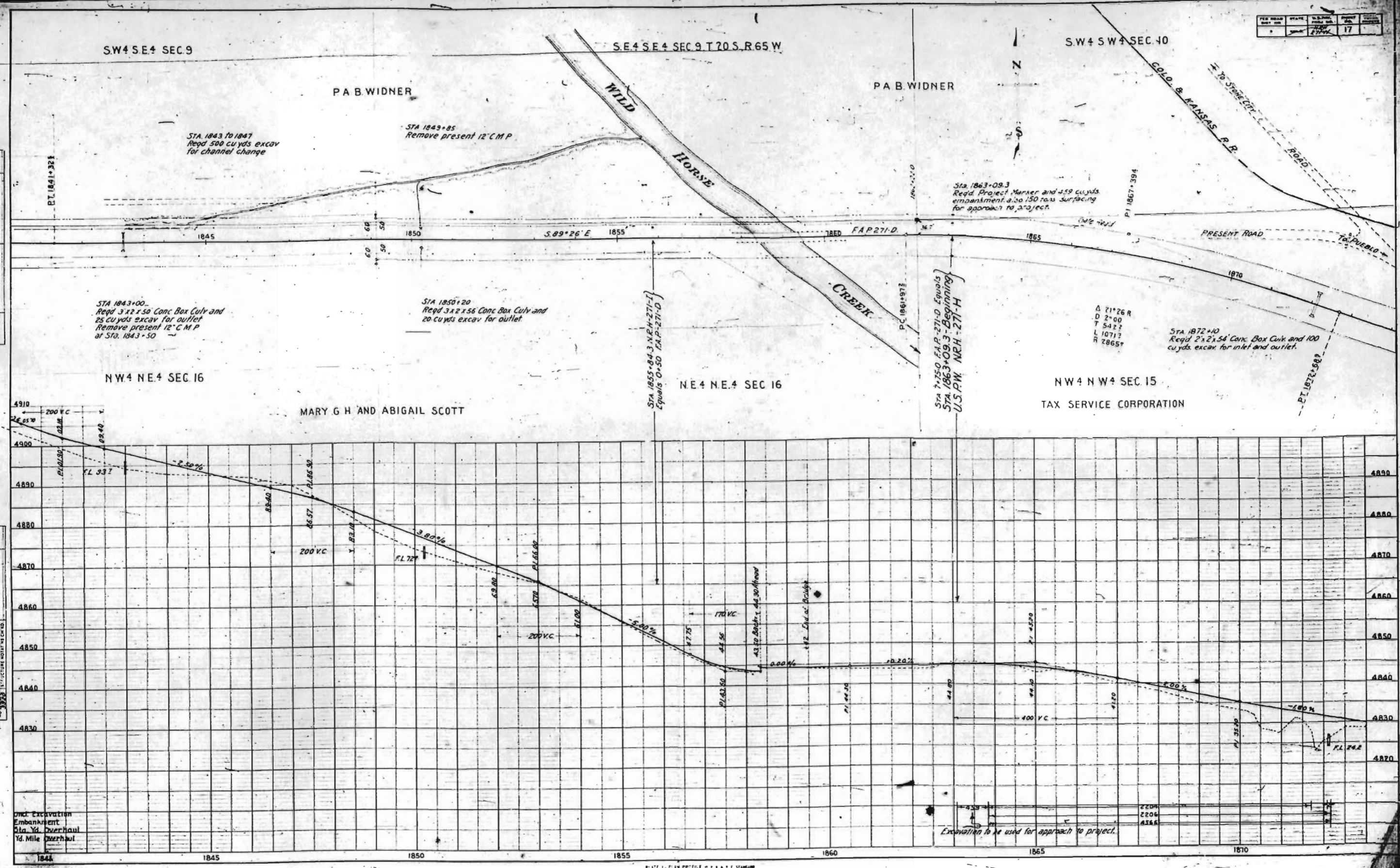
## FENCING

Station	Side	Remarks	Build Lin. Ft.
1863+09 to 1876+39	L		1230
1876+40 to 1881+60	L		550
1881+60 to 1885+00	X	370	
1885+00 to 1893+20	L		970
1894+20 to 1909+80	L		1560
1909+80	X	150	
1911+80	X	150	
1911+80 to 1931+00	L		1920
1863+09 to 1877+29	R		1420
1878+10 to 1883+20	R		510
1885+10 to 1894+10	R		900
1895+80 to 1909+80	R		1400
1911+80 to 1931+00	R		1920
1865+00			
1906+00			
<b>Total</b>			

FILE NO.	STATE	U.S. ROAD NO.	PROJECT NO.
17	KANSAS	17	17

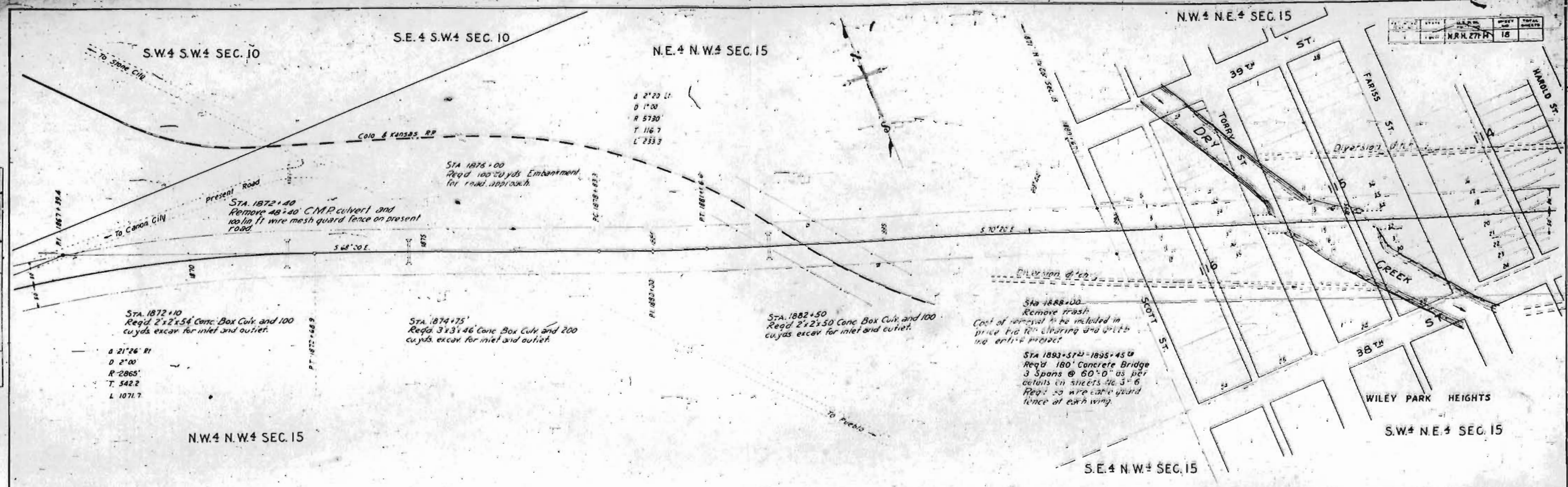
PLAN	DATE	BY
10/10/50	10/10/50	J.M.
NOTE BOOK NO. 3977		

PROFILE	DATE	BY
10/10/50	10/10/50	J.M.
NOTE BOOK NO. 3977		



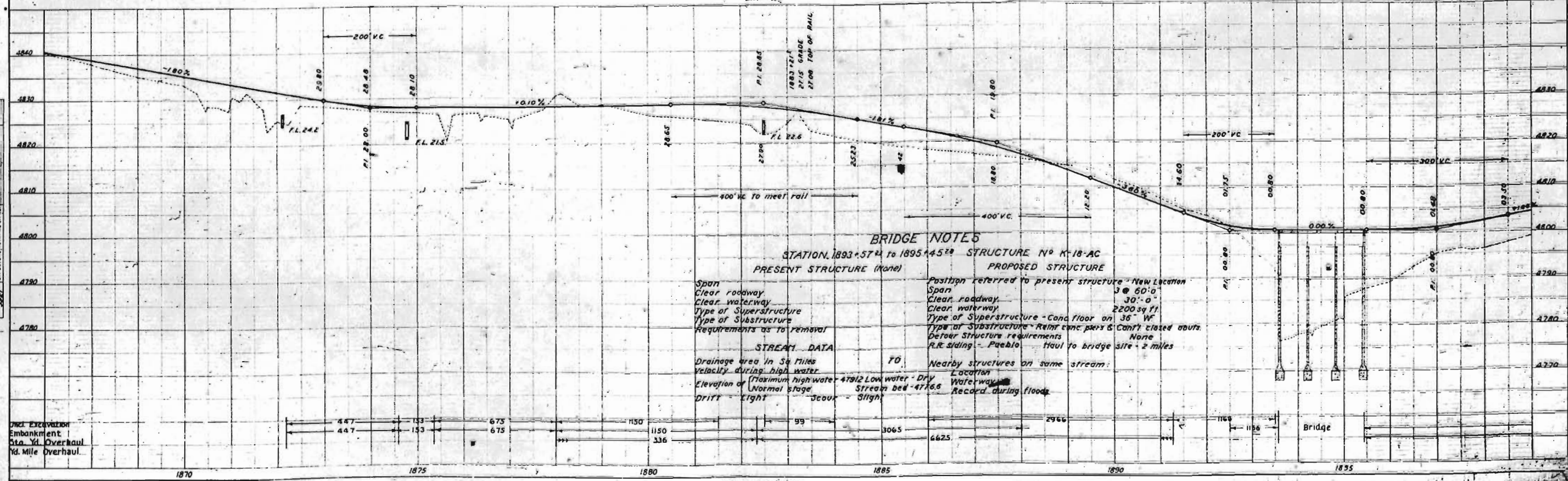
Ord. Excavation  
Embankment  
Sta. Yd. Overhaul  
Yd. Mile Overhaul

Excavation to be used for approach to project.



DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 PLAN NO. 1818

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 PROFILE NO. 1818



**BRIDGE NOTES**

STATION 1893+57.4 to 1895+45.0 STRUCTURE NO. K-18-AC  
 PRESENT STRUCTURE (None) PROPOSED STRUCTURE

Span	Position referred to present structure - New Location
Clear roadway	3 @ 60'-0"
Clear waterway	30'-0"
Type of Superstructure	2200 sq ft
Type of Substructure	Rein. conc. piers on 36" W
Requirements as to removal	None
Drainage area in Sq Miles	None
Velocity during high water	None
Elevation of Normal stage	None
Drift	None

**STREAM DATA**  
 Drainage area in Sq Miles: TO  
 Velocity during high water: Location  
 Elevation of Normal stage: (Maximum high water - 4791.2 Low water - Dry Waterway - 4776.6) Stream bed - 4776.6  
 Drift: Slight Scour: Slight

Span	3 @ 60'-0"
Clear roadway	30'-0"
Clear waterway	2200 sq ft
Type of Superstructure	Rein. conc. piers on 36" W
Type of Substructure	Rein. conc. piers on 36" W
Requirements as to removal	None
Drainage area in Sq Miles	None
Velocity during high water	None
Elevation of Normal stage	None
Drift	None

Dred. Excavation  
 Embankment  
 Sta. Yd. Overhaul  
 Yd. Mile Overhaul

Bridge

