

FED. ROAD DIST. NO.	STATE	A. W. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	5001	1	

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- HEET No. 1. SKETCH MAP AND TITLE
2. TYPICAL SECTION AND SUMMARY OF QUANTITIES
3. LIST OF STRUCTURES
4. DOUBLE CONCRETE BOX CULVERT
5. REINFORCED CONCRETE CULVERT PIPE
6. REINFORCED CONCRETE CULVERT PIPE
7. STANDARD HEADWALLS FOR CMP CULVERTS
8. STANDARD WIRE CABLE GUARD FENCE
9. STANDARD MARKER POSTS
10. STANDARD PICKET SNOW FENCE WITH STEEL POSTS
11. STANDARD METHODS FOR SUPERELEVATION AND WIDENING OF CURVES
12. TYPICAL SIDE APPROACH ROADS/ROADWAY CONSTRUCTION TRAFFIC SIGNS
- 13-22. PLAN AND PROFILE
- 23-123. CROSS SECTIONS
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- M-1-A
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COLORADO

STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED

A. W. PROJECT NO. 5001

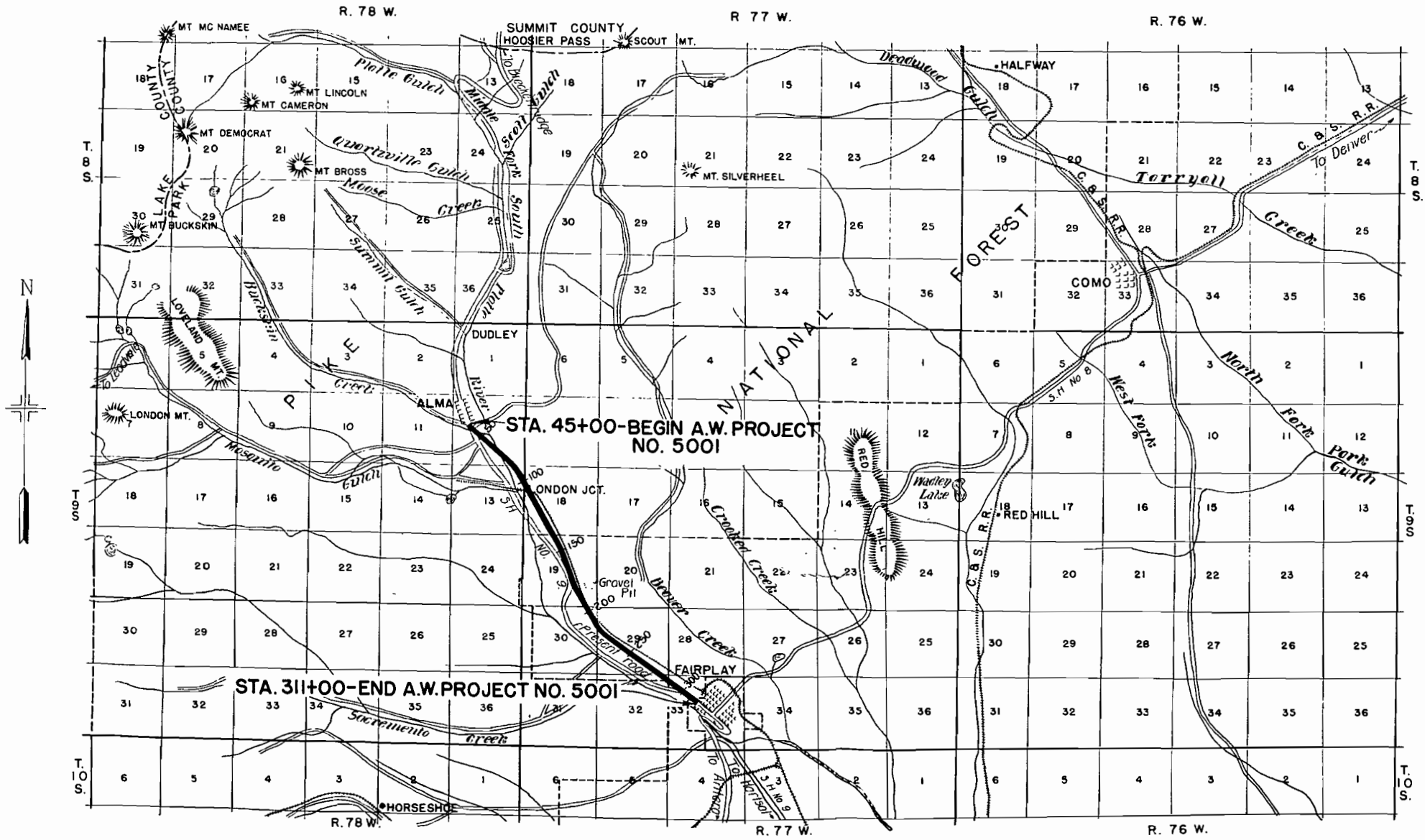
STATE HIGHWAY NO. 9

PARK COUNTY

CONVENTIONAL SIGNS

- CENTER LINE OF SURVEY
- RIGHT OF WAY LINE
- SECTION LINE
- ONE QUARTER SECTION LINE
- FENCE
- PRESENT ROAD
- POLE LINE
- RAILROAD

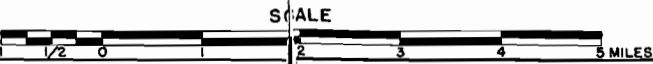
SCALES ON ORIGINAL TRACINGS
ON PLAN, 1 IN. = 100 FT.
ON PROFILE 1 IN. = 100 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
GROSS LENGTH OF PROJECT } 26600 FT. = 5.037 MILES
NET LENGTH OF PROJECT }



NOTE
It is recommended that bidders on this project go over the plan details with one of the following field representatives of this department:
Ernest Montgomery, Division Engineer, Colorado Springs, Colo.
Harry Littlefield, Resident Engineer, Colorado Springs, Colo.

RECOMMENDED FOR APPROVAL 10/28/36

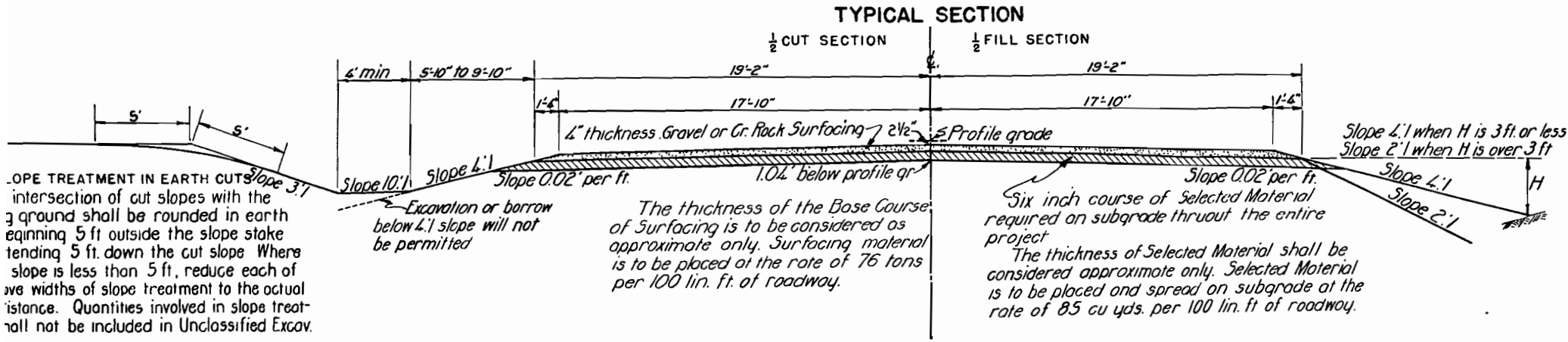
J. E. Montgomery
ASSISTANT ENGINEER
APPROVED
Chas. J. Hill
STATE HIGHWAY ENGINEER



FED. ROAD DIST. NO.	STATE	A. W. PROJ. NO.	SHEET NO.	TOTAL SHEETS
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Rev. 12/22/36 Quantities G.L.

TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES



SELECTED MATERIAL

The Selected Material shall conform to the requirements of item No. 13 cx Unclassified Excavation (Selected Material). No overhaul will be allowed or paid for on this material and the contract unit price per cubic yard shall include the purchase price of material and cost of all hauling. See tabulation below.

ITEM NO. 13 cx UNCLASSIFIED EXCAVATION SELECTED MATERIAL

REQUIRED STA. TO STA.	QUANTITY	SOURCE
45+00 to 100+00	4680	Pit 500 ft left Sta 187+00
100+00 to 187+00	7400	Pit 500 ft left Sta 187+00
187+00 to 250+00	5360	Pit 500 ft left Sta 187+00
250+00 to 311+00	5190	Pit 500 ft left Sta 187+00
Road approaches	400	Pit 500 ft left Sta 187+00
TOTAL	23030	

GENERAL NOTES

This Project is to be constructed in conformity with the Standard Specifications of the Colorado State Highway Dept, adopted August 1, 1935. Quantities on preliminary plans are to be considered as approximate only.

1 roadway excavation required to construct this project is to be located as indicated on the plans. Quantities involved beyond the limits of the ditch as shown on the Typical Section, either noted on the plans as "Borrow," or on List of Structures as "Embankment," are to be classified and paid for as "Unclassified Excavation." These quantities are to be staked as part of the Original Excavation at locations indicated on the Plans. Slope stakes beyond the limits of the Typical Section are subject to change by the Engineer to fit Embankment requirements actually encountered on construction.

All curves are to be superelevated as provided for by the Standard Specifications. Elevation Sheet included with plans. All poles encroaching on construction are to be moved by owners. 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."

All corrugated metal pipe cross culverts are to be provided with headwall on the inlet end unless otherwise noted on the plans. All side approach roads to the project shall be gravel surfaced with a thickness of "Gravel or Crushed Rock Surfacing" extending approximately 30 ft. from edge of highway. Estimated tonnage of surfacing material required in this operation is shown in List of Structures. Overhaul will be paid for as measured along center line of project, unless otherwise noted on plans.

During construction of this project, traffic will use the present existing roadway. Where project construction encroaches on present road, traffic shall be adequately provided for at the contractor's expense. Before proceeding with construction, the contractor must obtain from the Engineer written approval of the proposed method of handling traffic during construction.

GRAVEL OR CRUSHED ROCK SURFACING

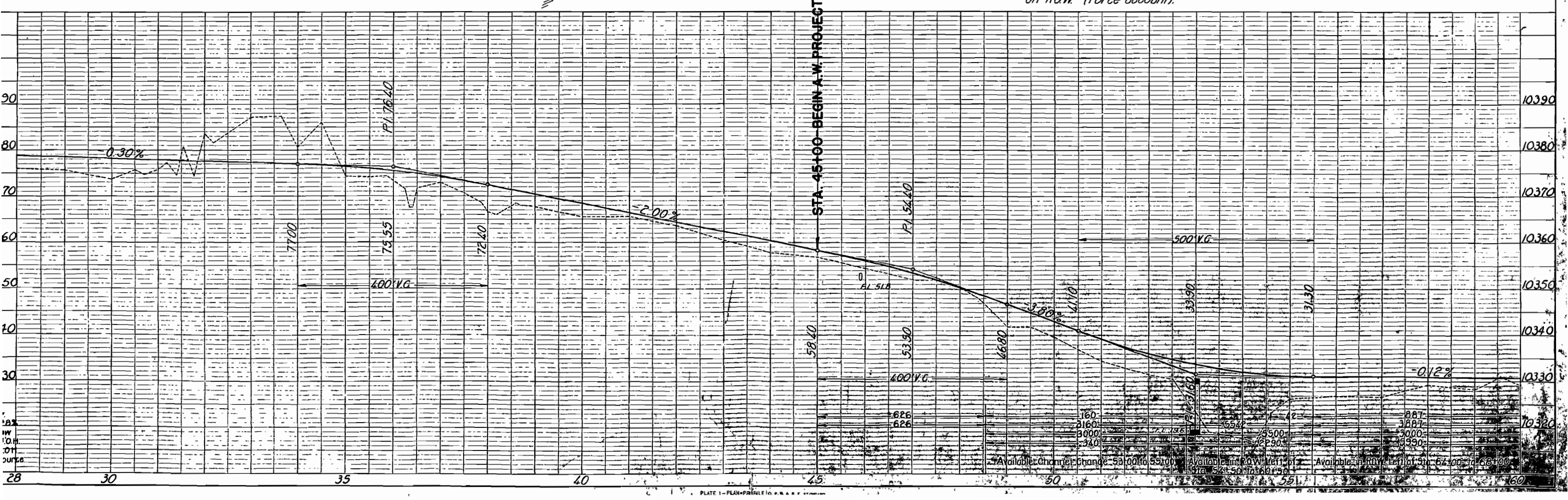
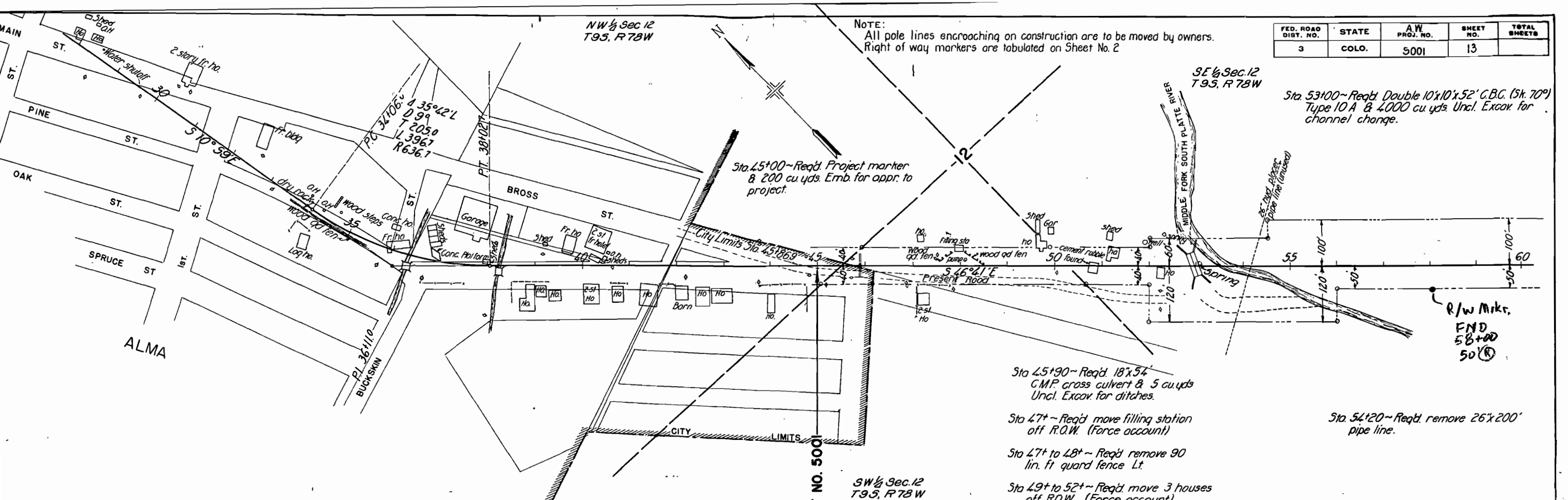
STATION TO STATION	QUANTITY REQUIRED	ESTIMATED OVERHAUL	SOURCE
	TONS	TON MILE	
45+00 - 139+20	7160	6390	It is estimated that all gravel or Crushed Rock Surfacing required on this project will be obtained from a pit located 500 feet left of Station 187, or in the immediate vicinity thereof. It is estimated that 30000 Tons of material are available from this pit.
139+20 - 187+00	3640		
187+00 - 234+80	3640		
234+80 - 311+00	5800	4190	
Road approaches	400	420	
TOTAL	20640	11000	

R.O.W. MARKERS

STATION	SIDE	NO.
45+00	R	1
45+91	L	1
46+18	R	1
49+91	L	1
50+65	R	1
52+00	R & L	4
54+50	L	2
56+00	R	2
83+95	R	1
85+30	L	1
85+42	L	1
86+97	R	1
100+00	L	2
114+94	R	1
115+35	L	1
139+03	R	1
139+48	L	1
142+82	L	1
143+57	L	1
145+85	R	1
167+24	R	1
167+38	L	1
180+00	L	2
194+52	R	1
194+80	L	1
212+00	L	2
216+00	L	2
223+15	L	1
224+22	R	1
228+62	R	1
229+79	L	1
232+00	R	2
242+00	R	2
255+78	L	1
255+90	L	1
256+50	R	1
263+99.1	L	2
268+00	R	2
281+00	L	2
284+97	L	1
285+45	R	1
285+57	R	1
288+27	L	1
298+00	L	2
307+38	R	1
307+57	R	1
308+48	L	1
TOTAL		62

SUMMARY OF APPROXIMATE QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	PROJECT TOTALS
10 a	Clearing & Grubbing The Entire Project	Lump Sum	•
11 b	Removal of 10 Structures	Lump Sum	•
12 c	Removing Guard Fence	Lin Ft	250
13 c	Unclassified Excavation	Cu Yd	147000
13 d	Cut Slope Treatment	Mi	6.5
14 a	Dry Rock Excavation (Structural)	Cu Yd	50
14 b	Dry Common Excavation (Structural)	Cu Yd	440
14 c	Wet Rock Excavation (Structural)	Cu Yd	20
14 d	Wet Common Excavation (Structural)	Cu Yd	110
18 a	Station Yard Overhaul	Sta Yd	262000
18 b	Yard Mile Overhaul	Yd Mi.	500
26 a	Gravel or Crushed Rock Surfacing	Ton	20700
26 c	Overhaul of Surfacing	Ton Mi	11000
46 a	Class "A" Concrete	Cu Yd	265
46 b	Class "B" Concrete	Cu Yd	42
47	Reinforcing Steel	Lb	24100
53 b	18" Corrugated Metal Culvert Pipe	Lin Ft	1368
53 c	24" Corrugated Metal Culvert Pipe	Lin Ft	344
53 e	36" Corrugated Metal Culvert Pipe	Lin Ft	234
53 g	48" Corrugated Metal Culvert Pipe	Lin Ft	82
53 i	60" Corrugated Metal Culvert Pipe	Lin Ft	234
74	Wire Cable Guard Fence	Lin Ft	648
77	Picket Snow Fence	Lin Ft	754
81 a	Project Markers	Each	2
81 b	Right of Way Markers	Each	62
13 cx	Unclassified Excavation (Selected Material)	Cu Yd.	23100
	Remove Filling Station Sta 47+ (FORGE ACCOUNT)	Lump Sum	•
	Remove 3 Houses Sta 47+ to 48+ (FORGE ACCOUNT)	Lump Sum	•
	R.R. Grade Crossing Sta. 113+ (FORGE ACCOUNT)	Lump Sum	•
	(Work by R.R. Co. Forces)		
	ALTERNATE BIDS TO BE RECEIVED FOR REINFORCED CONCRETE CULVERT PIPE		
	As an alternate for items 53b, 53c, 53e, 53g, & 53i, the following items providing for Reinforced Concrete Culvert Pipe shall be bid upon.		
51 b	18" Reinforced Concrete Culvert Pipe	Lin Ft.	1368
51 c	24" Reinforced Concrete Culvert Pipe	Lin Ft.	344
51 e	36" Reinforced Concrete Culvert Pipe	Lin Ft.	234
51 g	48" Reinforced Concrete Culvert Pipe	Lin Ft.	82
51 i	60" Reinforced Concrete Culvert Pipe	Lin Ft.	234



SE 1/4 Sec. 12
T9S, R78W

Sta. 62+50~ Req'd. Double 60"x74' C.M.P. cross culvert
& 200 cu. yds. Uncl. Excav. for channel change.
(Headwall details on Sheet No. 3) 2 headwalls req'd.

Sta. 76+40~ Req'd. 60"x85' C.M.P. cross culvert (H&Wl. Type G)
(Sk. 65°) & 10 cu. yds. Uncl. Excav. for ditches.

Sta. 77+00 to 80+02~ Req'd. 302 lin. ft.
Picket Snow Fence Lt.

Sta. 78+50~ Req'd. 18"x65' C.M.P. cross
culv. & 20 cu. yds. Uncl. Excav. for ditches

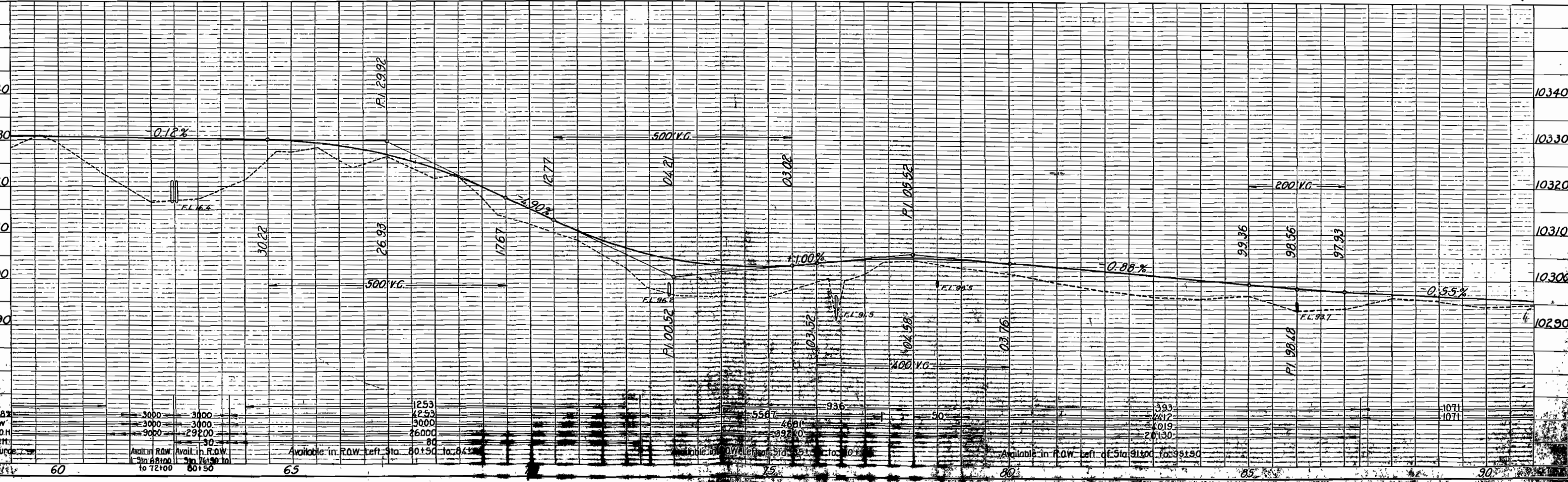
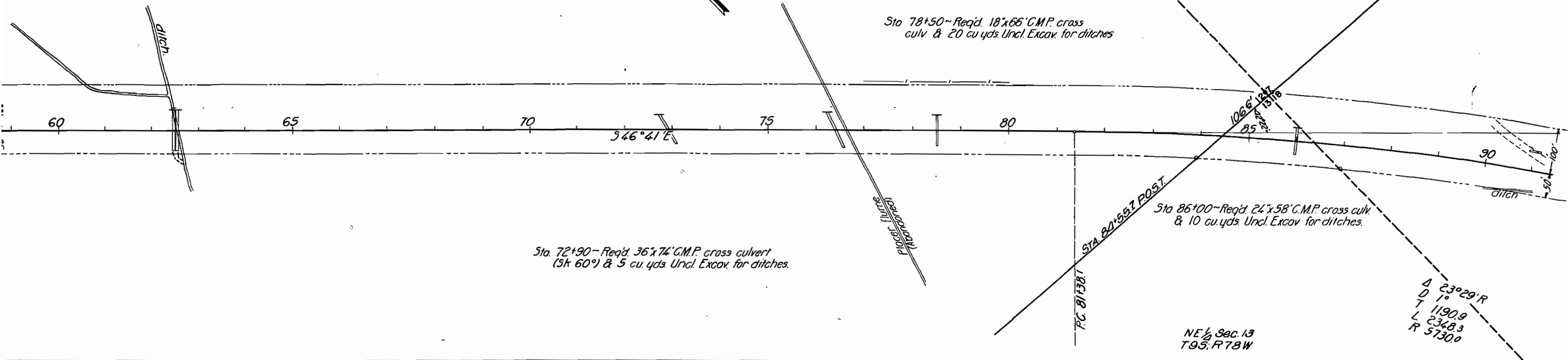
Sta. 72+90~ Req'd. 36"x74' C.M.P. cross culvert
(Sk. 60°) & 5 cu. yds. Uncl. Excav. for ditches.

Sta. 86+00~ Req'd. 24"x58' C.M.P. cross culv.
& 10 cu. yds. Uncl. Excav. for ditches.

NE 1/4 Sec. 13
T9S, R78W

NW 1/4 Sec. 18
T9S, R77W

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FED. ROAD DIST. NO.	STATE	A.W. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	5001	15	

Sta 91+00~Req'd 18"x26" C.M.P. side drain
& 50 cu yds. Emb. for rd apprs. Lt.

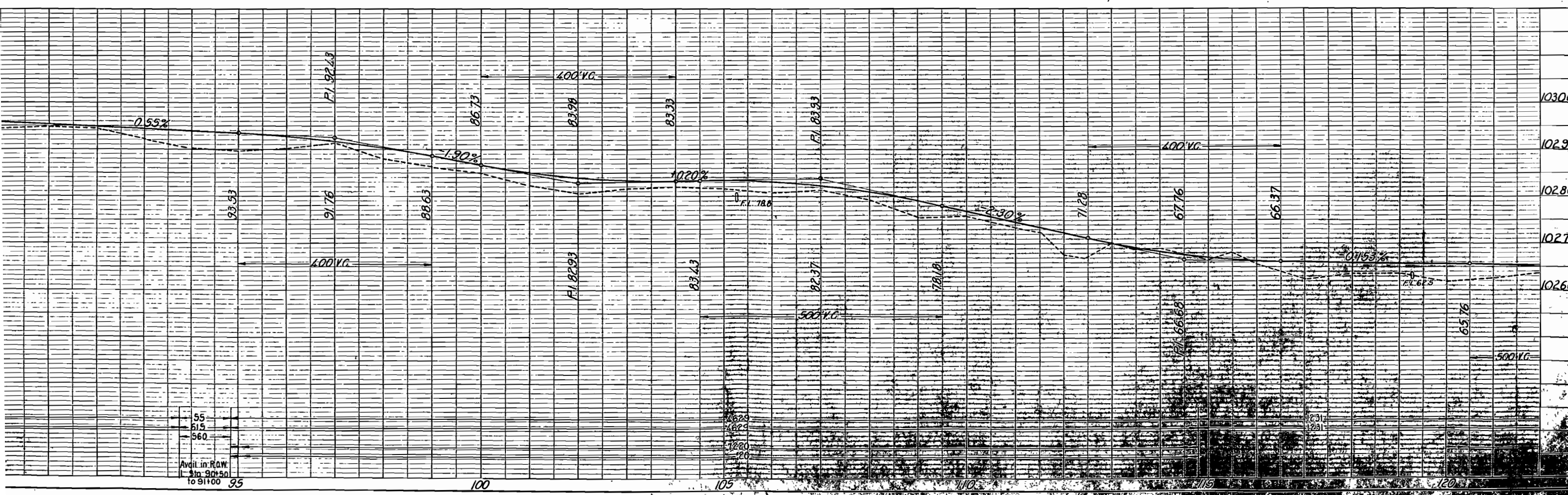
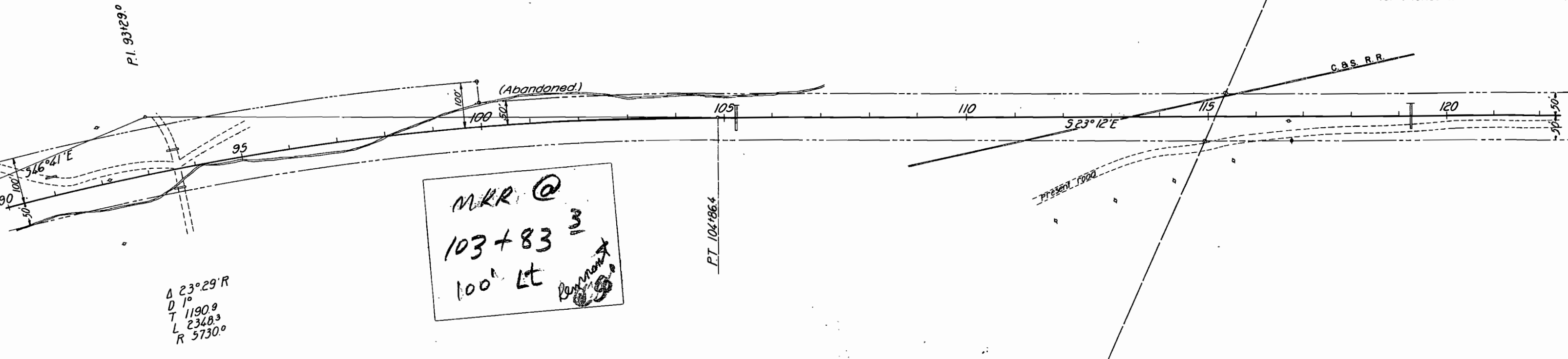
Sta 93+60~Req'd 2-18"x26" C.M.P. side drains
& 100 cu yds. Emb. for rd apprs Rt. & Lt.

Sta 105+25~Req'd 24"x56" C.M.P. cross culvert
& 5 cu yds. Uncl. Excav. for ditches.

Sta 113+50~Req'd. Grade crossing
(Force account. Work to be done
by R.R. co forces

SW 1/4 Sec. 18
T9S, R77W

Sta 119+26~Req'd 18"x52" C.M.P. cross
culvert; & 20 cu yds Uncl. Excav.
for ditches & remove 2'x1" W.B.C.



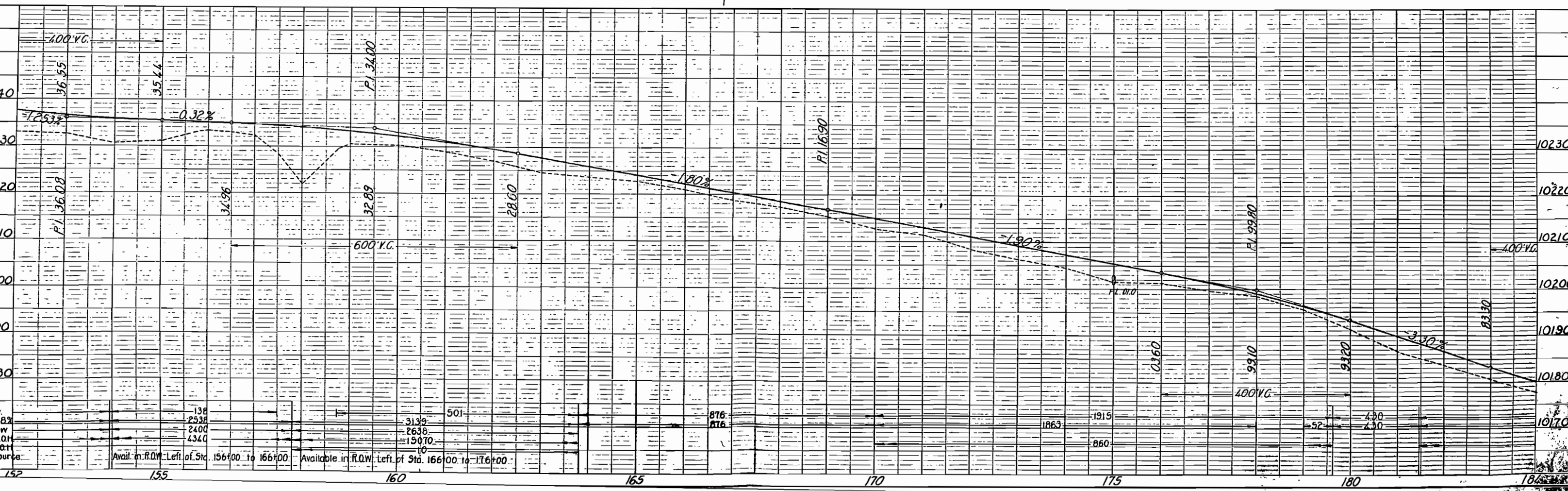
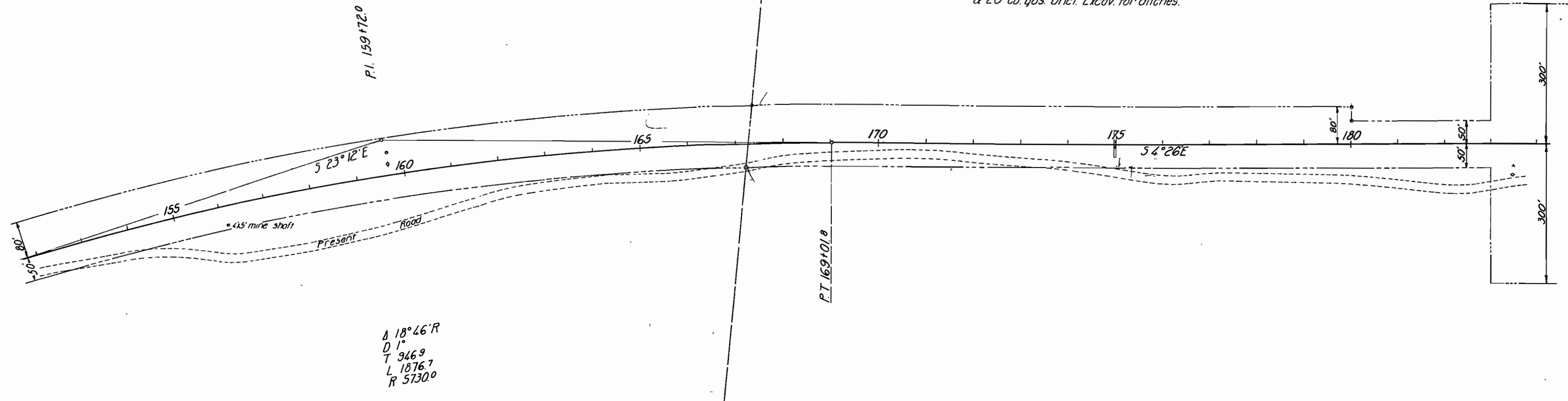
FED. ROAD DIST. NO.	STATE	AW PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	5001	17	

NE 1/4 Sec 19
T9S, R77W

SE 1/4 Sec 19
T9S, R77W

Sta. 156+10 ~ Req'd. 20 cu. yds. Emb.
to backfill mine shaft.

Sta. 175+00 ~ Req'd. 24"x58" C.M.P. cross culvert
& 20 cu. yds. Uncl. Excav. for ditches.



N.W. 1/4 Sec 29
T.9S. R.77W.

S.W. 1/4 Sec. 29
T.9S. R.77W.

Sta. 242+25 ~ Req'd 24"x54" C.M.P. cross culvert
& 10 cu.yds. Uncl. Excav. for ditches &
remove 2'x1'x24" W.B.C.

Sta. 242+25 to 244+40 ~ Req'd. 50 cu. yds.
Uncl. Excav. for ditch change R/R.

Sta. 225+00 ~ Req'd 18"x60' C.M.P. cross culvert
& 10 cu. yds. Uncl. Excav. for ditches.

Sto. 225+25 ~ Req'd. 50 cu. yds. Emb.
for dyke Lt.

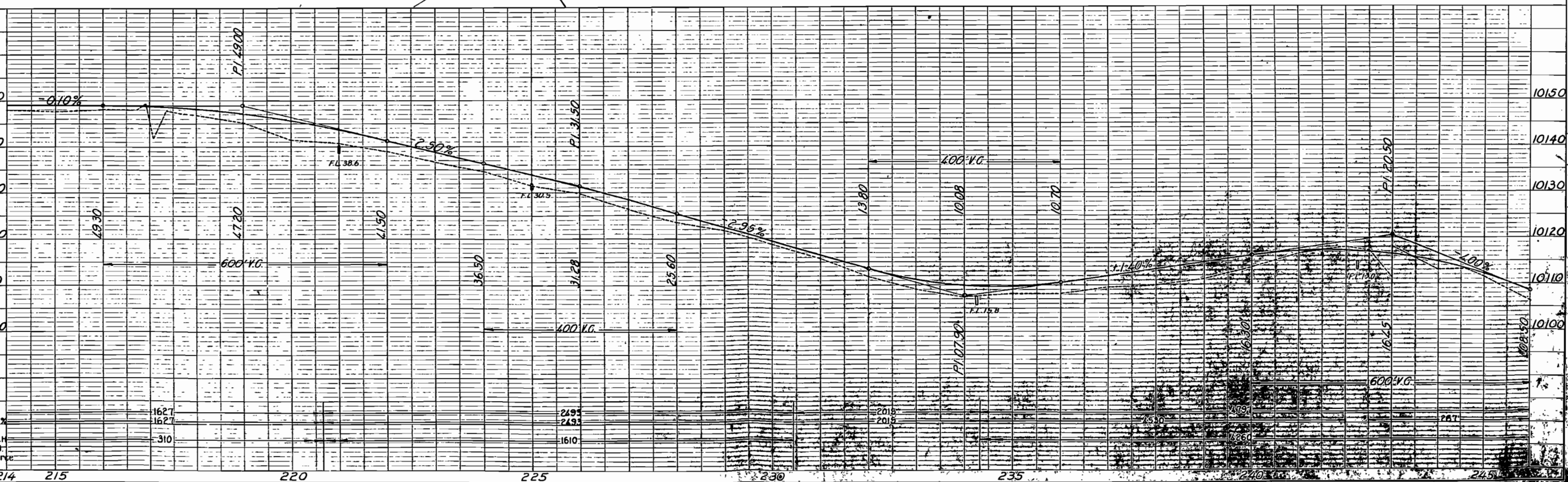
Sta 230+00~Req'd. 18"x26" C.M.P. side drain
& 50 cu yds Emb. for rd. appr. Rt.

Sta. 234+25 ~ Reg'd. 24'x54'
C.M.P. cross culvert & 10 cu. yds.
Uncl. Excav for ditches & remove
1 1/2'x2'x24' W.B.C.

Sta. 216+ to 217+ ~ Req'd remove 150 lin. ft.
quord fence

Sta. 218+00~Req'd. 18"x26' CMP side drain
& 50 cu yds Emb. for rd appr. Lt.

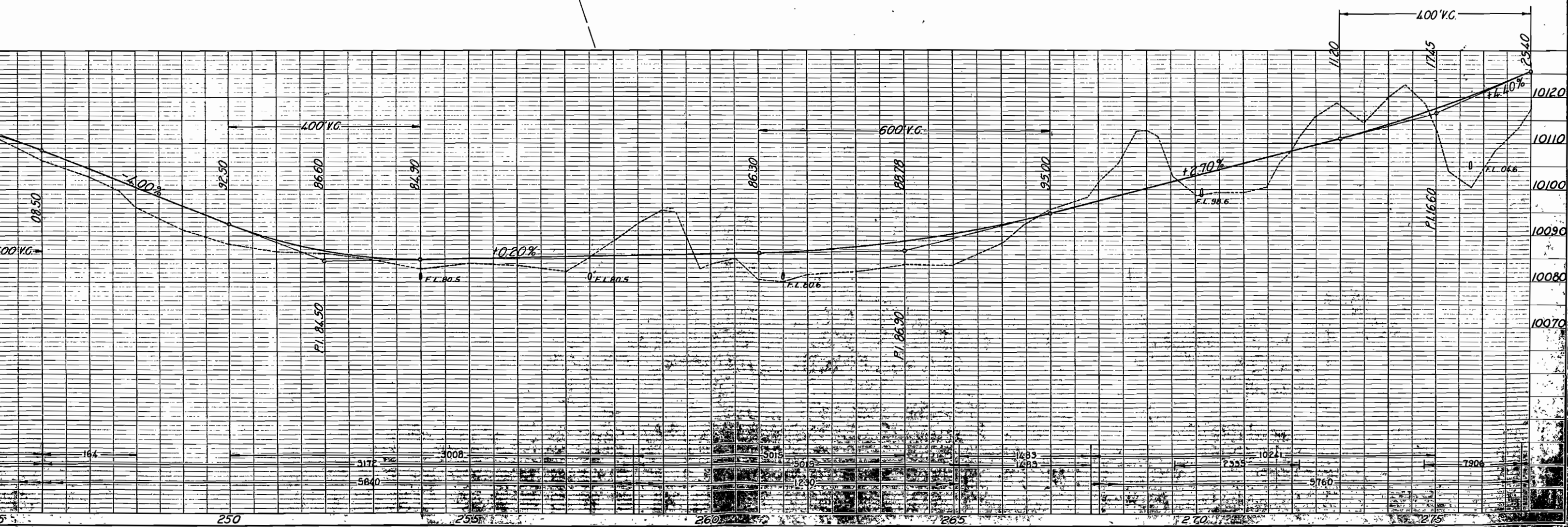
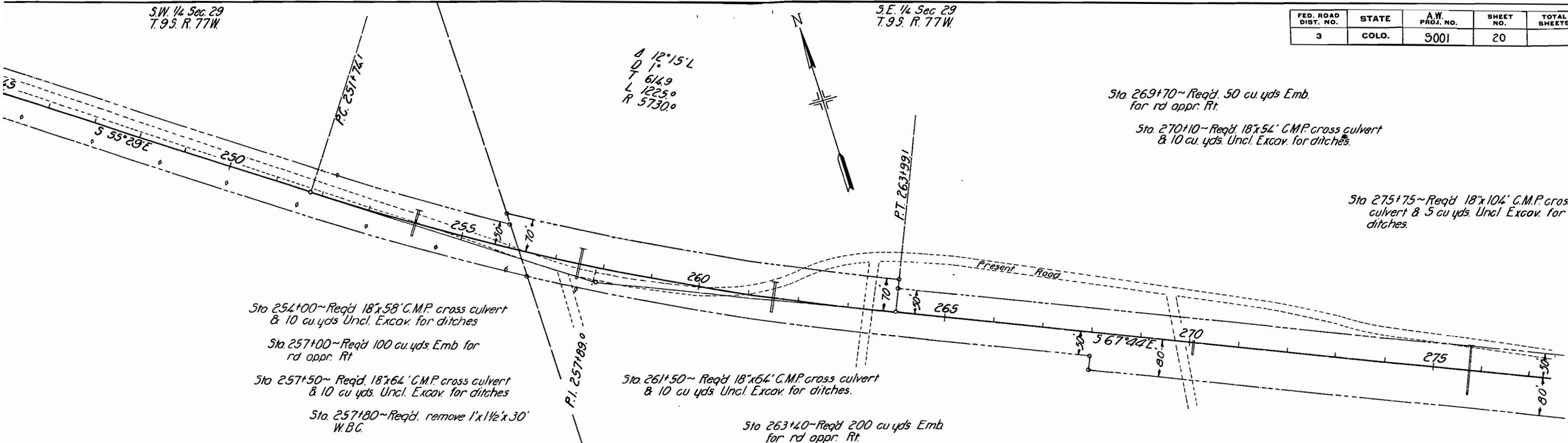
Sta. 221+00 ~ Req'd. 18"x64' G.M.P. cross culvert
& 20 cu. yds Uncl. Excav. for ditches



S.W. 1/4 Sec. 29
T.9S. R. 77W.

S.E. 1/4 Sec. 29
T.9S. R. 77W.

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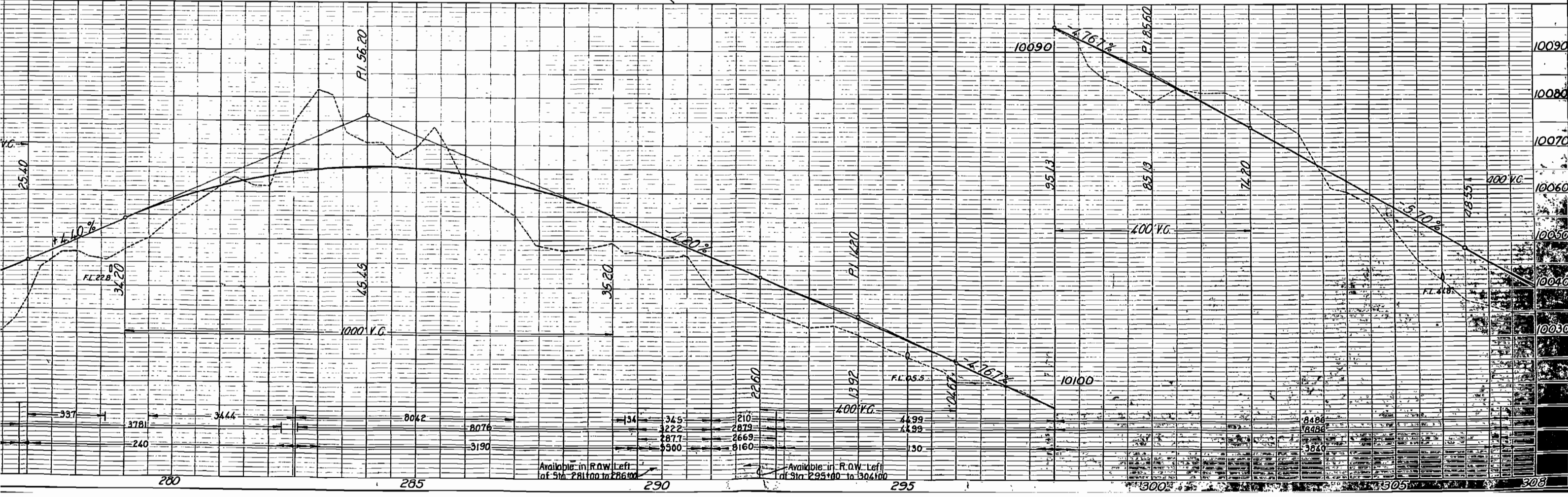
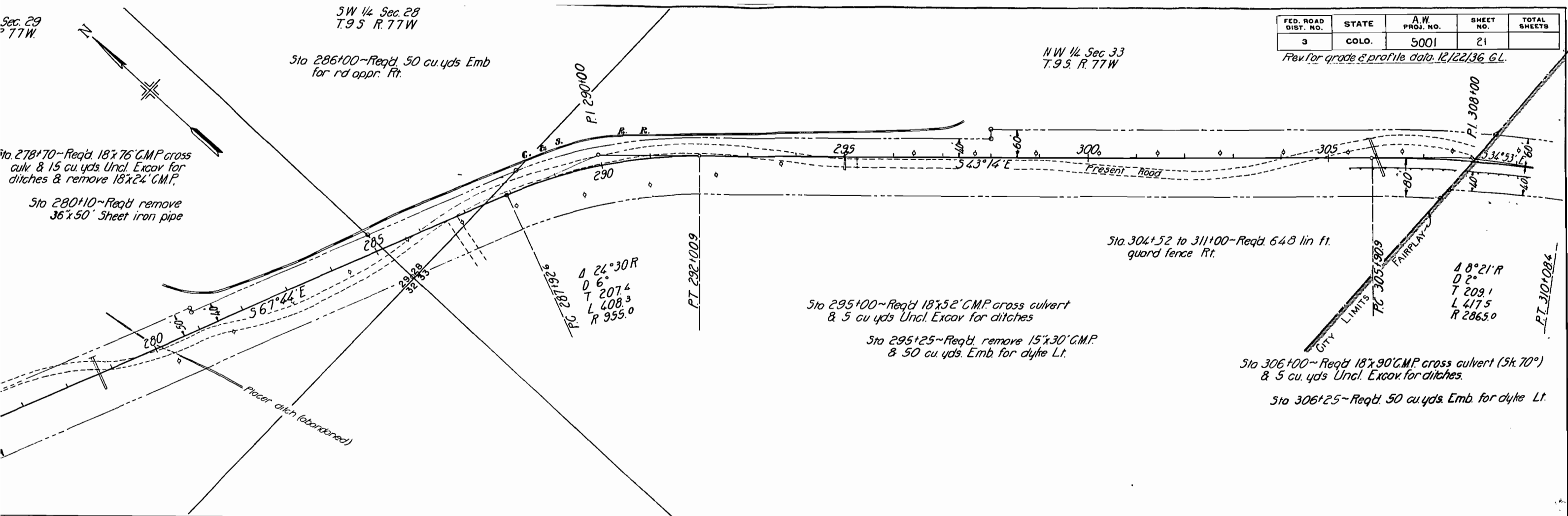
Sec. 29
T.9S. R.77W.

SW 1/4 Sec. 28
T.9S. R.77W

NW 1/4 Sec. 33
T.9S. R.77W

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Rev. for grade & profile data. 12/22/36 G.L.



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Rev 12/22/36 (New Sheet) grade & profile data G.L.

