

* Note: Reproduction doesn't have these plans

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	COLO.	297C	1	1
REV. 6-15-29 M.A.M.				
REV. 6-8-32 F.W.D.				

EX OF SHEETS

Sheet and Sketch Map
Cross Section of Improvement and Summary of Quantities
for Bridge at Sta. 176+
192+
285+
346+
400+
409+
Concrete Box Culverts
Pipe Culvert Headwalls
Wire Cable Guard Fence
Barbed Wire Fence and Project Marker
Profile Sheets
Section Sheets
for Bridge at Sta. 88+
234+

P-105-A
P-105-A
P-105-A
P-105-A
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P-105-A

COLORADO

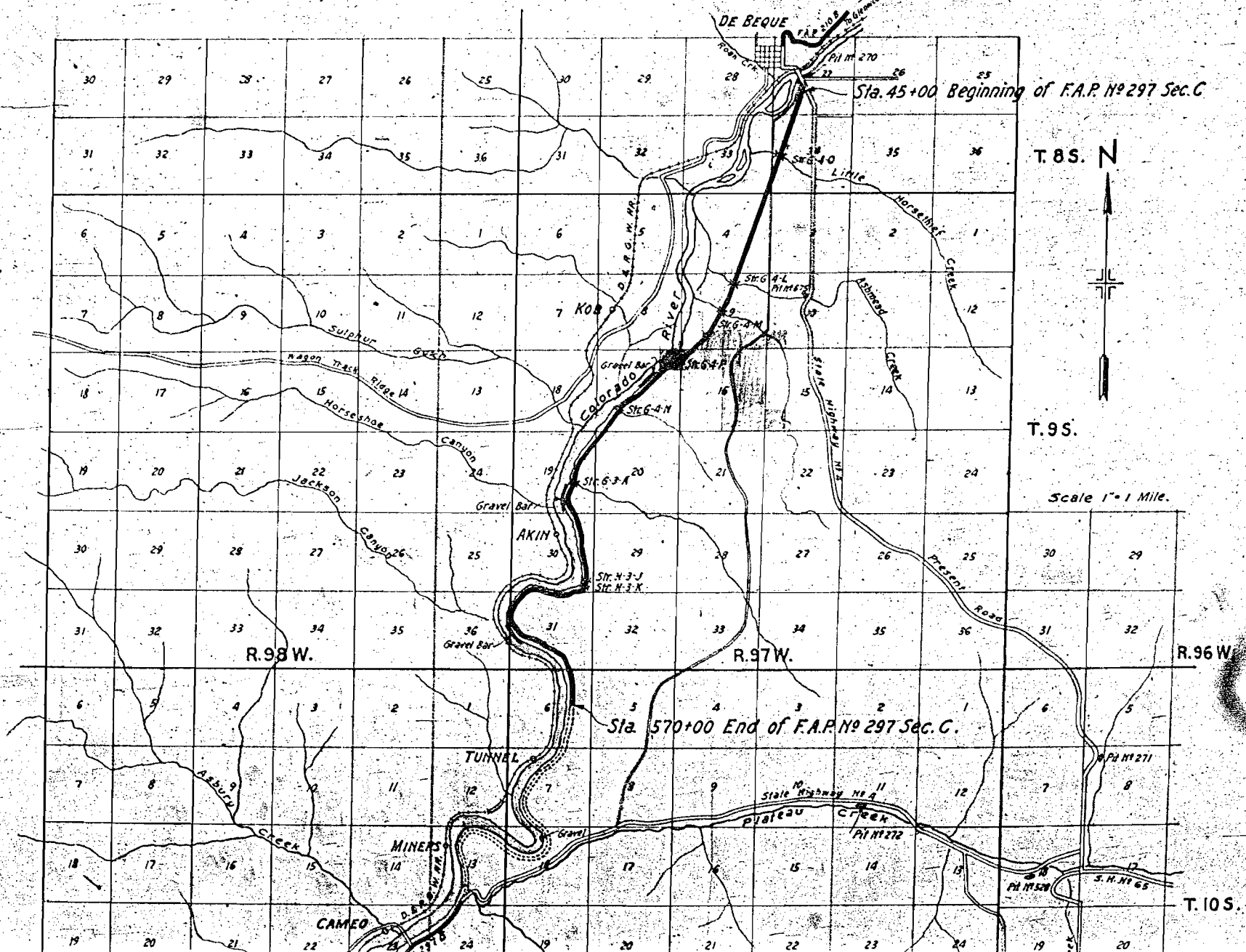
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. 297-C STATE HIGHWAY NO. 4 MESA COUNTY

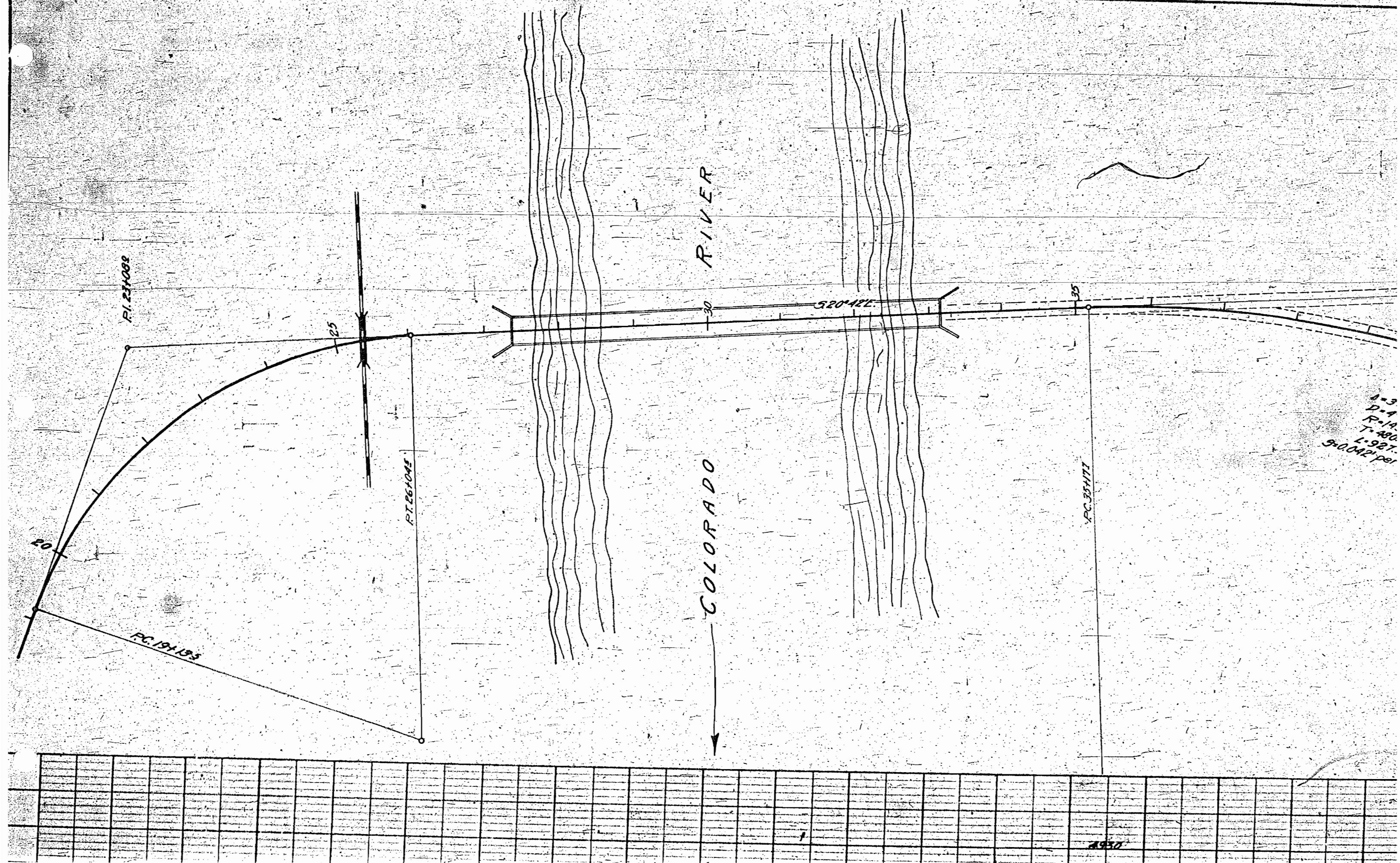
CONVENTIONAL SIGNS

- Center Line of Improvement
- Right of Way Line
- Fence
- Section Line
- 1/2 Section Line
- Railroad Track

SCALES
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 52,552.1 FEET = 9.953 MILES. (AS CONST. ~ 52,714.0 FT. = 9.983 MILES)
NET LENGTH OF PROJECT DO DO

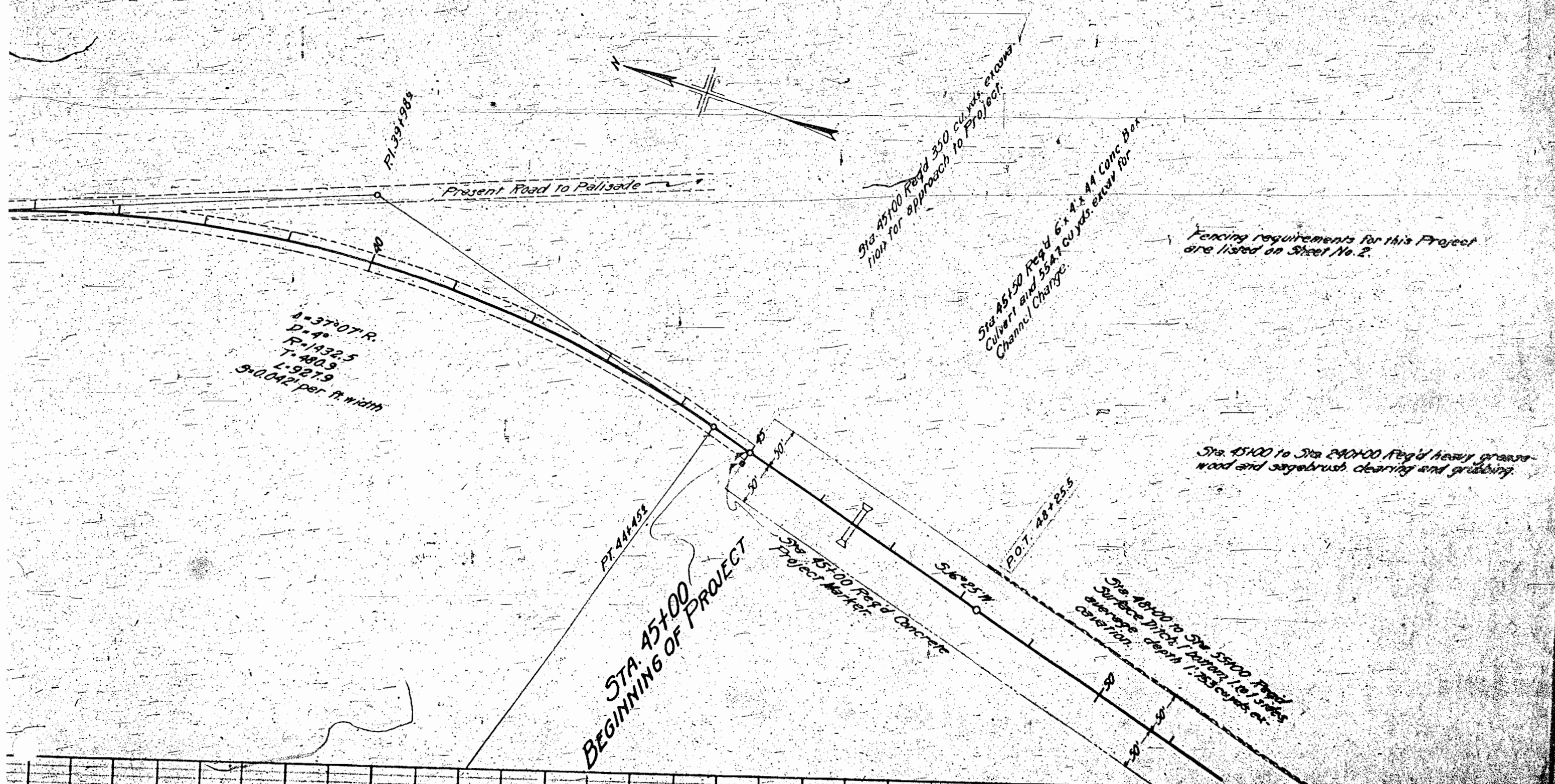


RECOMMENDED FOR APPROVAL
[Signature]
ASSISTANT ENGINEER
APPROVED
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STATE HIGHWAY ENGINEER
RECOMMENDED FOR APPROVAL
DIST. ENG. BUREAU PUBLIC ROADS
RECOMMENDED FOR APPROVAL



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SECTION	SHEET NO.
1	CALIF.	297-C	13	

Rev 6-8-32 A.M.D.



$L=37307.1$ R.
 $D=4^\circ$
 $R=1432.5$
 $T=480.9$
 $L=987.9$
 $S=0.042$ per ft width

STA. 45+00
 BEGINNING OF PROJECT

STA. 45+00 Reg'd 350 cu yds. excavation for approach to Project

STA. 45+00 Reg'd 6x4x14 Conc Box Culvert and 55.27 cu yds. excav for Channel Change

Fencing requirements for this Project are listed on Sheet No. 2.

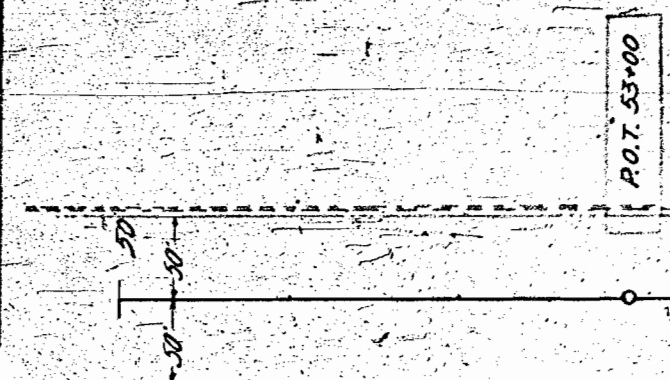
Sta. 45+00 to Sta. 290+00 Reg'd heavy grass, wood and sagebrush clearing and grubbing

Sta. 48+00 to Sta. 55+00 Reg'd surface ditch bottom 1 to 1 sides, average depth 1.25 cu yds. ex.

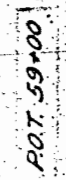
STA. 45+00 Reg'd Concrete Project Marker

P.O.T. 48+25.5

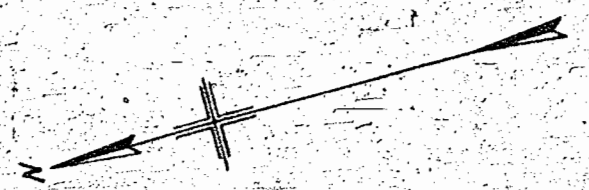
Sta. 48+25.5



Sta 53+80 to 54+18.84 C.M.P.
Cross Culvert on 25' skew, and
27 cu yds excavation for in-
let and outlet ditches



Sta 60+20 to 60+18.94 18' x 32'
C.M.P. Cross Culvert, Ehead walls,
and 2.1 cu yds excavation for
inlet and outlet ditches



Sa 16°-25' H

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	STATE PROJ. NO.	DATE
3	GA.	897-C	19	

REV. 6-8-32 R.W.D.

Sta 69+50 Reg'd 18"x40"
C.M.P. Cross Culvert.

P.O.T. 69+00

70

Road

Sta 71+73. F.I.N. fence

Sta 73+12 Reg'd 24"x36" C.M.P.
Cross Culvert, & 15 Cu. yds.
excavation for inlet & outlet
ditches.

75

Sta 78+72 Reg'd 18"x34"
C.M.P. Cross Culvert & 3.2 cu
yds. excavation for inlet & out
let ditches.

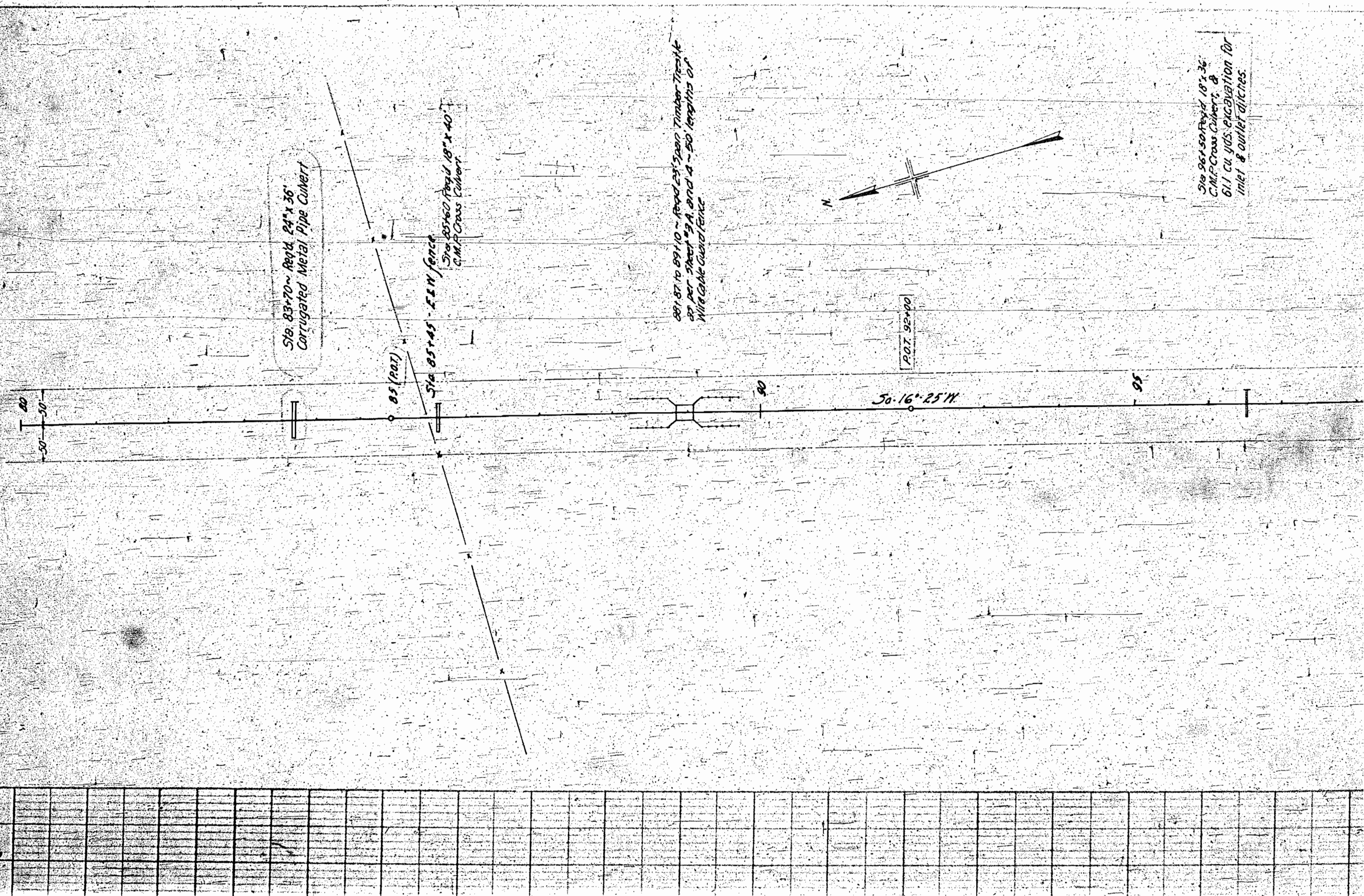
P.O.T. 78+00

Sta 78+85 Reg'd 18"x34"
C.M.P. Cross Culvert.

Sta 79+75 Reg'd 18"x36"
C.M.P. Cross Culvert.

80

50' 50'

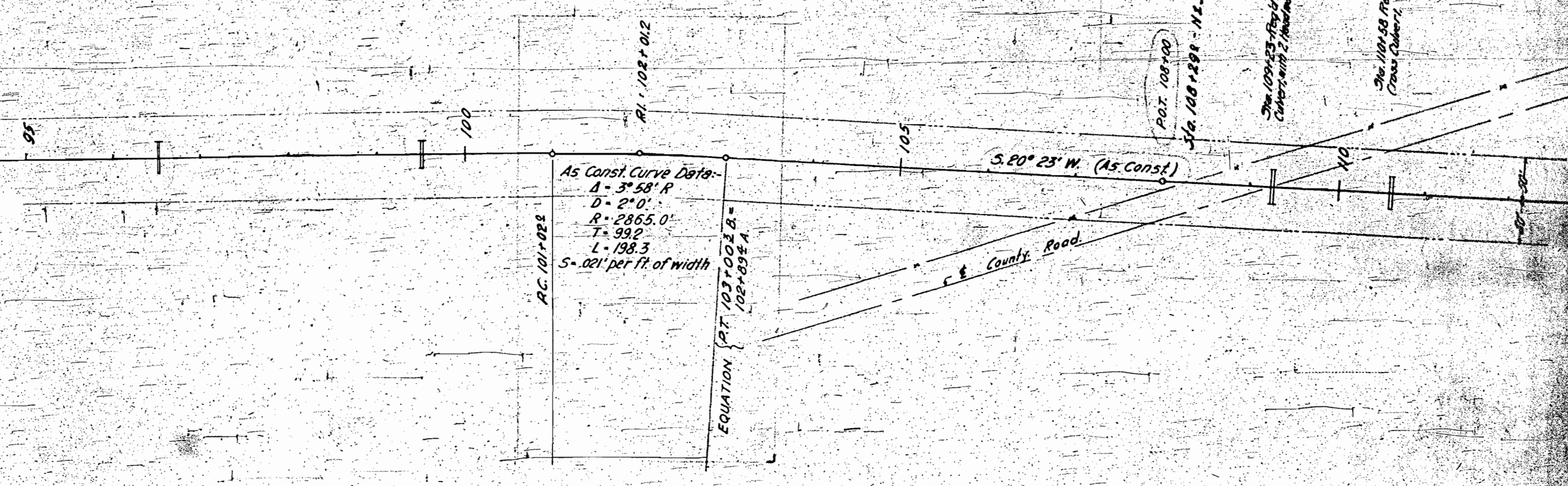


Sta. 96+50 Road 18' x 36'
C.M.P. Cross Culvert &
61.1 cu. yds. excavation for
inlet & outlet ditches.

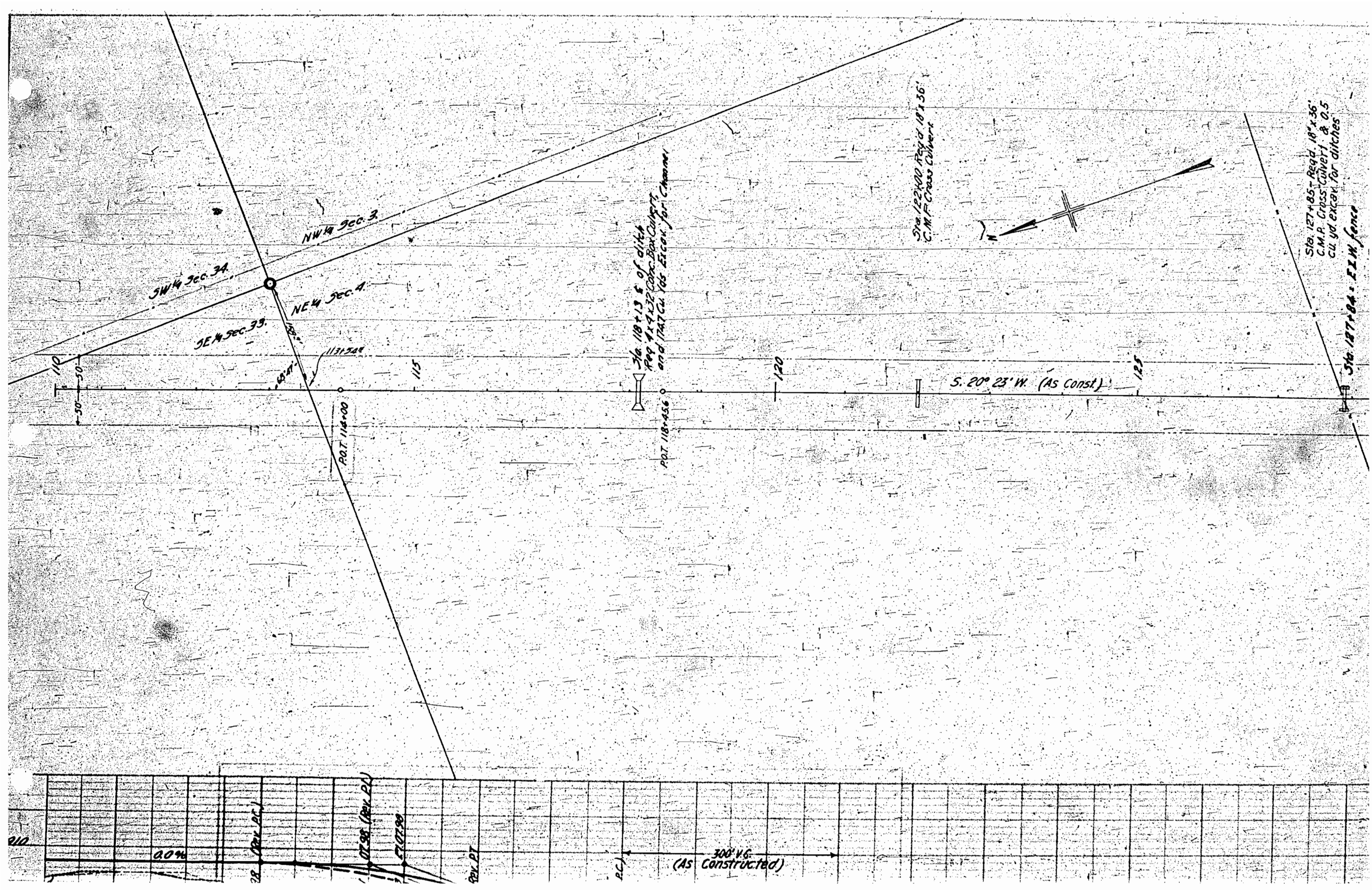
Sta. 99+50 Road 18' x 36' C.M.P.
Cross Culvert with 2 Headwalls

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
8	GA.	297-C	15	

REV. 6-18-37 R.E.L.
REV. 6-8-38 F.M.D.



102+89.4 Ahead
103+00.3 Back



Sta. 127+85 Reg'd. 18" x 36"
C.M.P. Cross Culvert & 0.5
cu. yd. excav. for ditches

Sta. 127+90 Reg'd. 18" x 36" C.M.P.
Cross Culvert

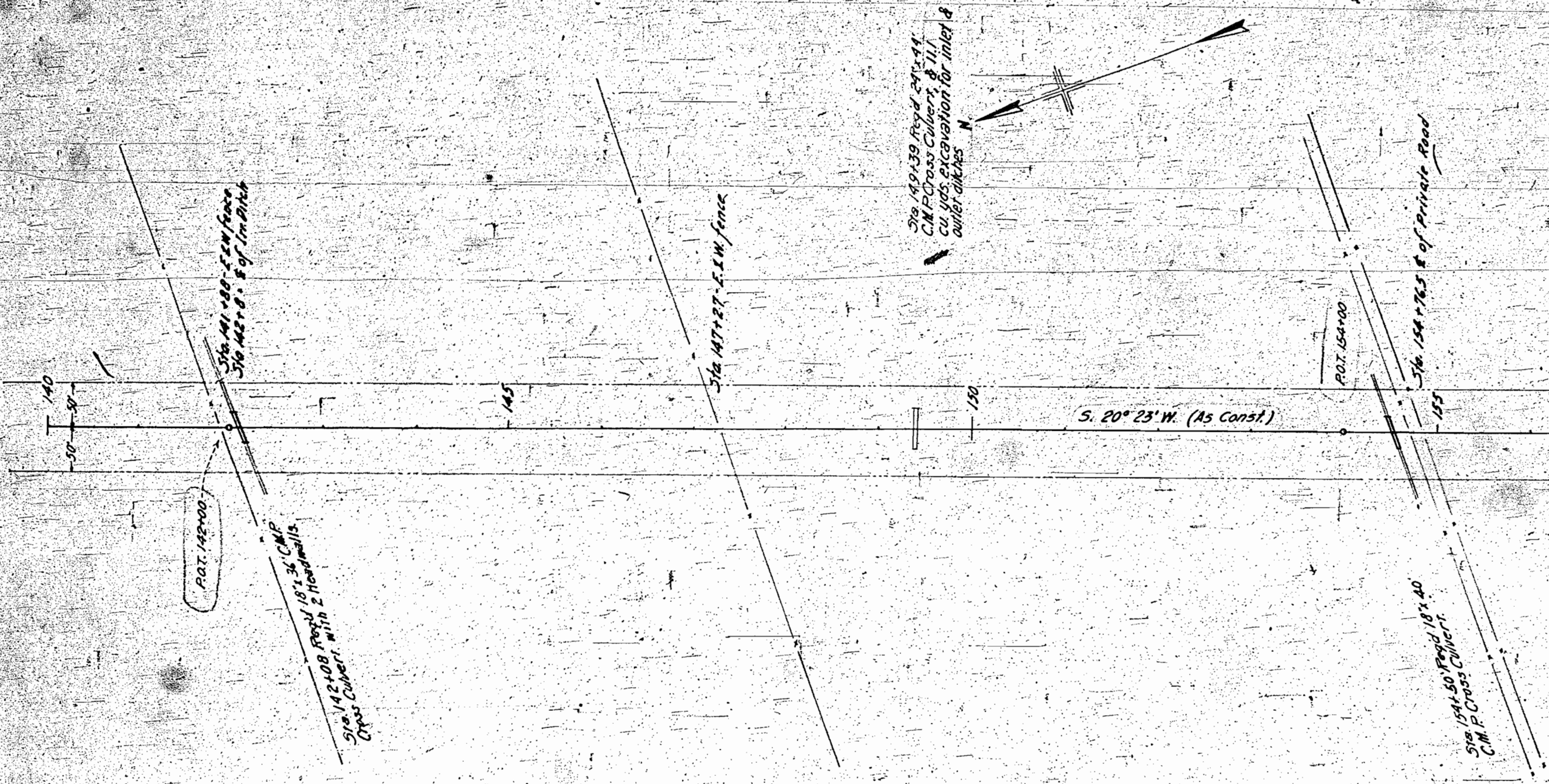
Sta. 127+84 - E.I.M. fence

Sta. 133+30 Reg'd. 18" x 34" C.M.P.
Cross Culvert & 1.7 cu. yds.
excavation for ditches

Sta. 134+66 - E Private Road
Sta. 134+81 - E.I.M. fence
Sta. 134+84 - 5th Ditch Reg.

Sta. 134+95 Reg'd. 18" x 34"
C.M.P. Cross Culvert with
2 Headwalls and 5.7 cu. yds.
excav. for inlet and out-
let ditches

POT 142+00



P.R. ROAD DIST. NO.	STATE	P.R. AID FUND NO.	SHEET NO.	TOTAL SHEETS
1	COLO.	2976	17	

REV. 6-8-32 P.H.D.

Sta. 154+76.5 E of Private Road

155

Sta. 154+50 Req'd 18x40 C.M.P. Cross Culvert

Sta. 159+75 Req'd 18x34 C.M.P. Cross Culvert with 2 Headwalls

160

Sta. 163+30 - F&W fence

165 P.O.T. 165+00

Sta. 163+55 - Req'd 18x36 C.M.P. Cross Culvert with 2 Headwalls & 4-6 Culverts for ditches

Sta. 167+32 Req'd 18x40 C.M.P. Cross Culvert

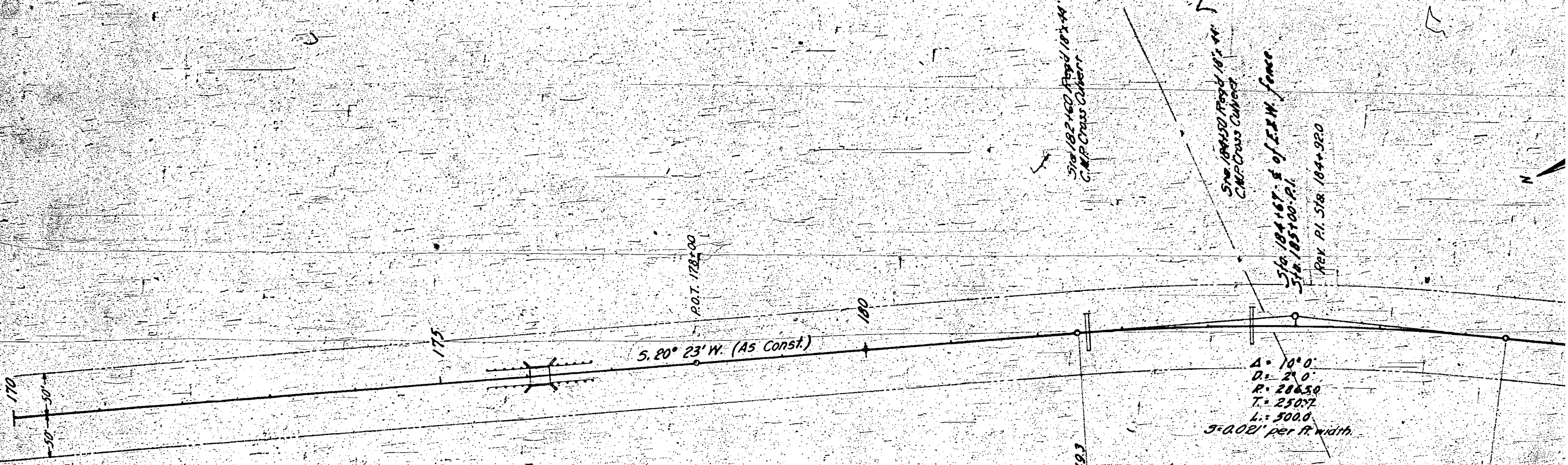
170

170+54

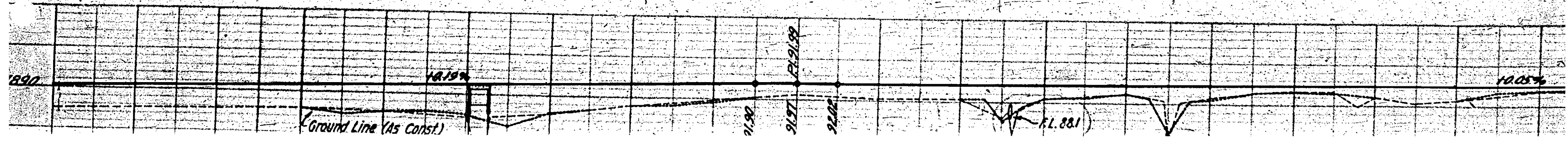
Sta. 170+50 - Req'd 18x34 C.M.P. Cross Culvert with 2 Headwalls

175

50' 50'



Sta 176+03.10 Sta 176+26 Road 23' Timber bridge as per Sheet No. 3 and 200' of wire cable guard fence (30' from each wing). Also required 53.8 cu. yds. excavation for channel change.



PRO. ROAD DIST. NO.	STATE	PRO. AND PROJ. NOS.	SHEET NO.	TOTAL SHEETS
1	COLO.	297C	13	

REV. 6-8-32 R.H.D.

Sta. 185+00 to P.I.
Rev. P.I. Sta. 184+920

10° 0'
2° 0'
286.50
250.7
500.0
er ft width

118-
17' R
5.0'
1.4
5

Rev. P.T. 187+401
P.T. 187+493

P.O.T. 490+56

S. 30° 20' W.
(As Const.)

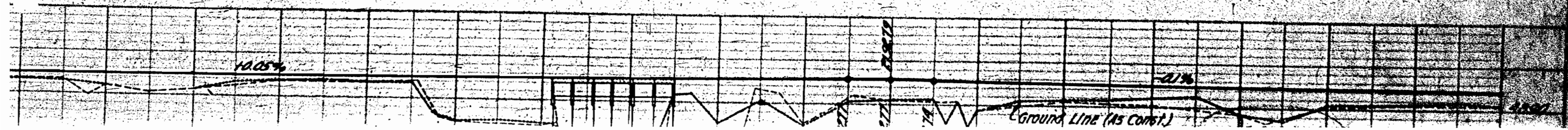
Sta. 192+10 to Sta. 193+50 Road 140 timber bridge as per Sheet No. 9, and 200' of wire cattle guard fence 150' from each wing! Also road 3327 sq. yds. plain rock slope paving 1" thick.

Sta. 200+00 Road 18 x 36 C.M.P. Cross Culvert

Sta. 200+30 Road 18 x 44 C.M.P. Cross Culvert

P.O.T. 201+00

Sta. 200+70 - E. of E. and W. Private Road
Sta. 200+82 - E. of E.H. fence.



NOTE:

Stas. 213 to 234 ~ Borrow 15 to be taken from Left side of roadway to form channel, leaving a 25' berm between roadway fill and borrow pit.

Sta. 209+40 Reg'd 18' x 34'
C.M. PC Cross Culvert & 0.8
Cu. yd. EXCAV for ditches

Sta. 211+00-PI
REV. PI. Sta. 211+00.8

Sta. 216+00 11.5' fence

Sta. 30°-20' W. (As Const.)
201
50
50
205

PC-207+48.2
REV. PC-207+46.1

A = 14°-0'
D = 2°
R = 2865.0
T = 351.8
L = 700.
3-0.021' per ft width.

As Const. Curve Data:-
A = 14° 07' R.
D = 2°
R = 2865.0
T = 354.8
L = 705.8

REV. PT. 214+51.8
PT. 214+48.2

PRELIMINARY DATA

Und. Channel
EMB. 7.5%
Borrow
Overhaul

872 885 13 134 379 245

m. Left side of
m. between

FEED ROAD DIST. IN.	STATE	FEED NO. FEED IN.	FEED NO.	FEED NO.
1	CALIF.	297-C	19	

Rev. 6-15-29, E. E. L.
Rev. 6-8-32 A.M.D.

Sec 9, T9S, R97W

Sec 8, T9S, R97W

Sta. 216+88 N.E.S. fence

Sta. 227+11 N.E.S. fence

Sa 44°-27'W. (As Const.)

220

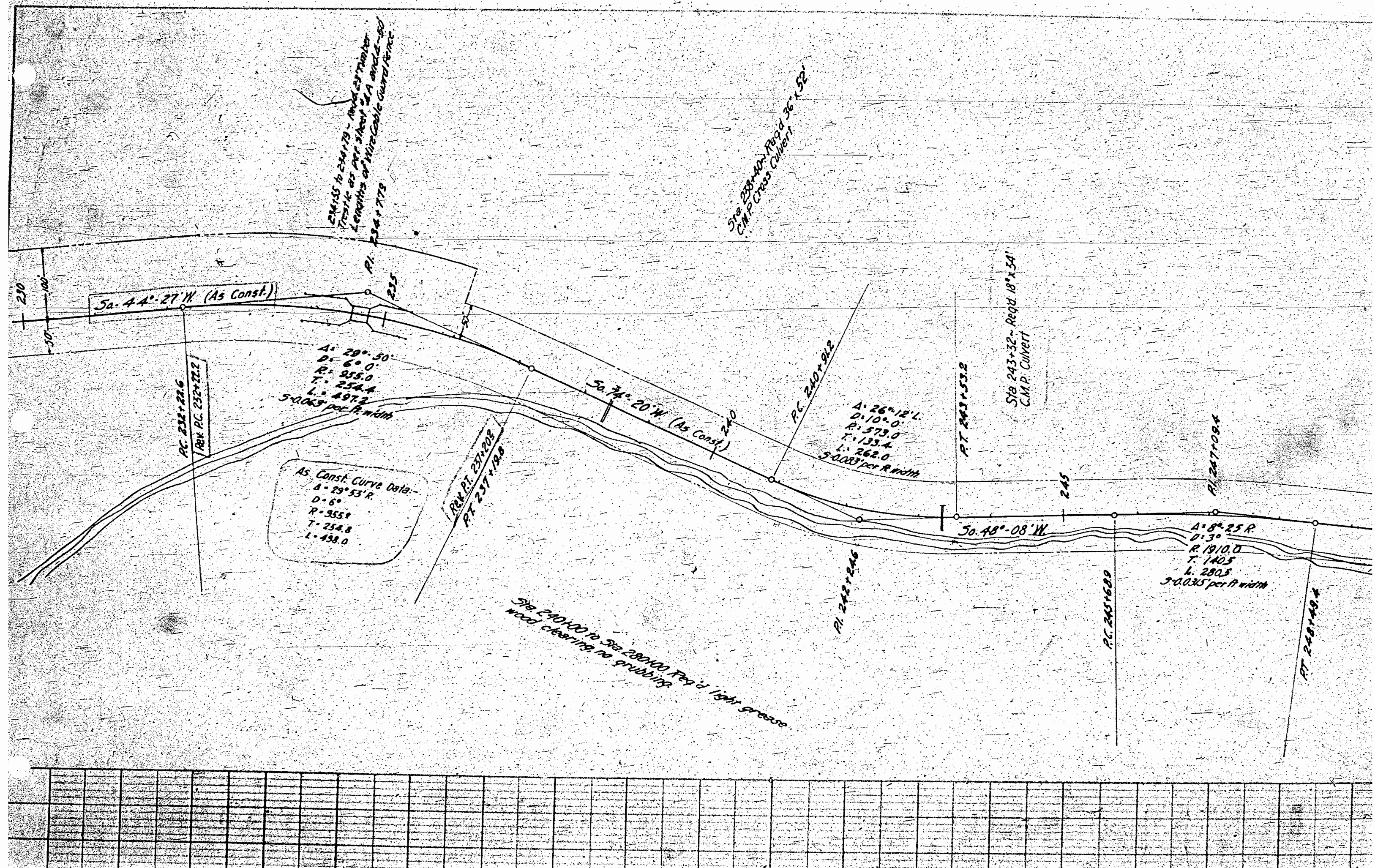
225

230

24'00

P.C. 232+82.6
Rev. P.C. 232+82.2

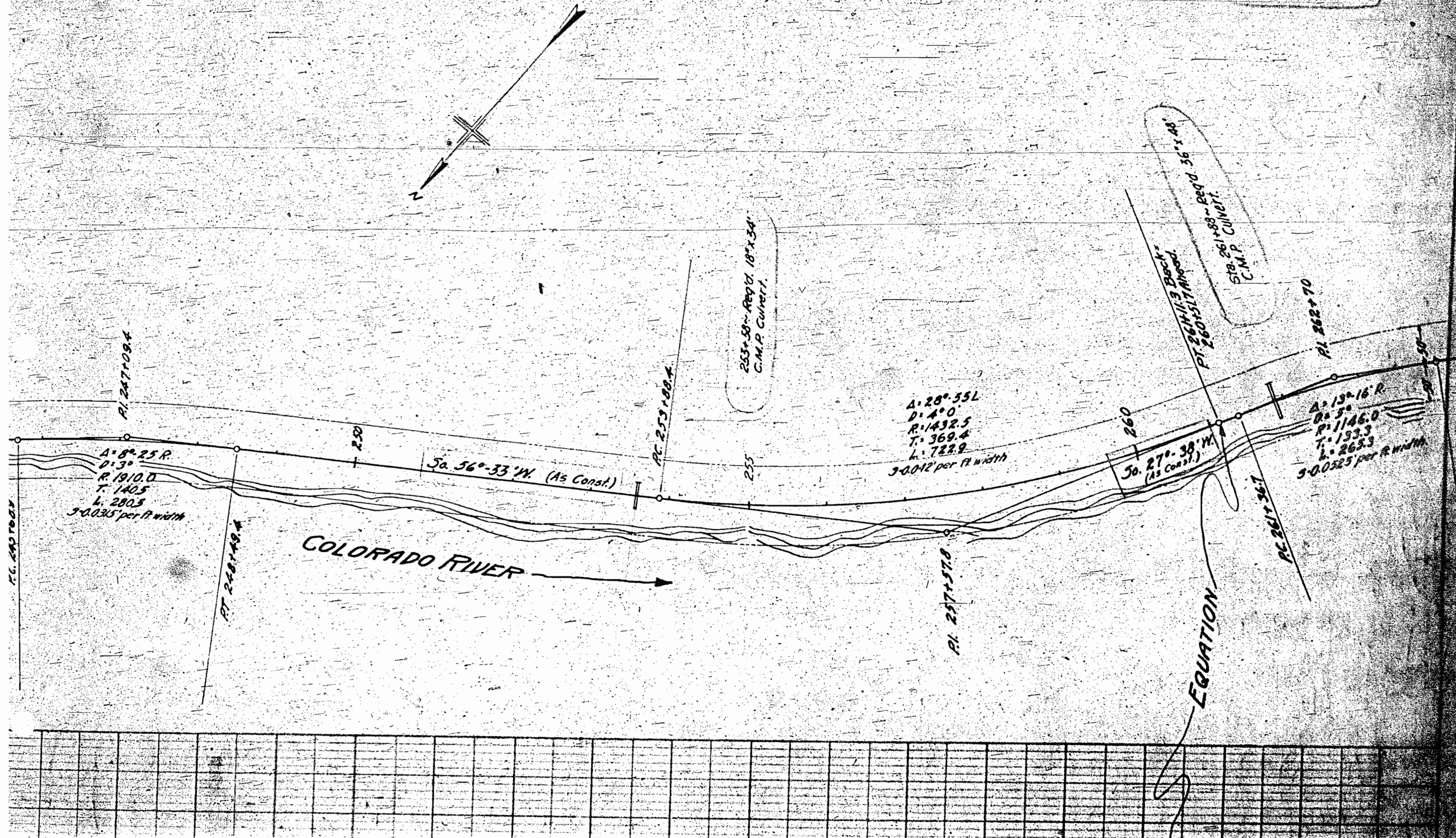
5398
5398

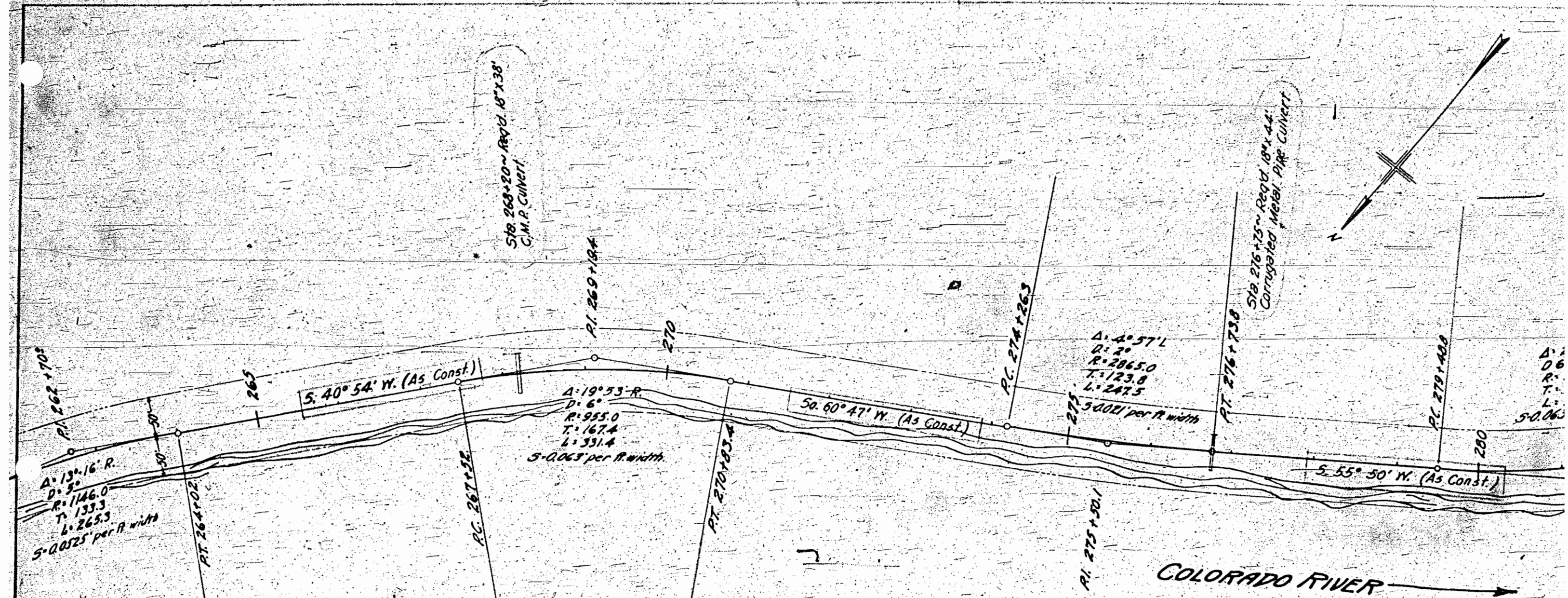


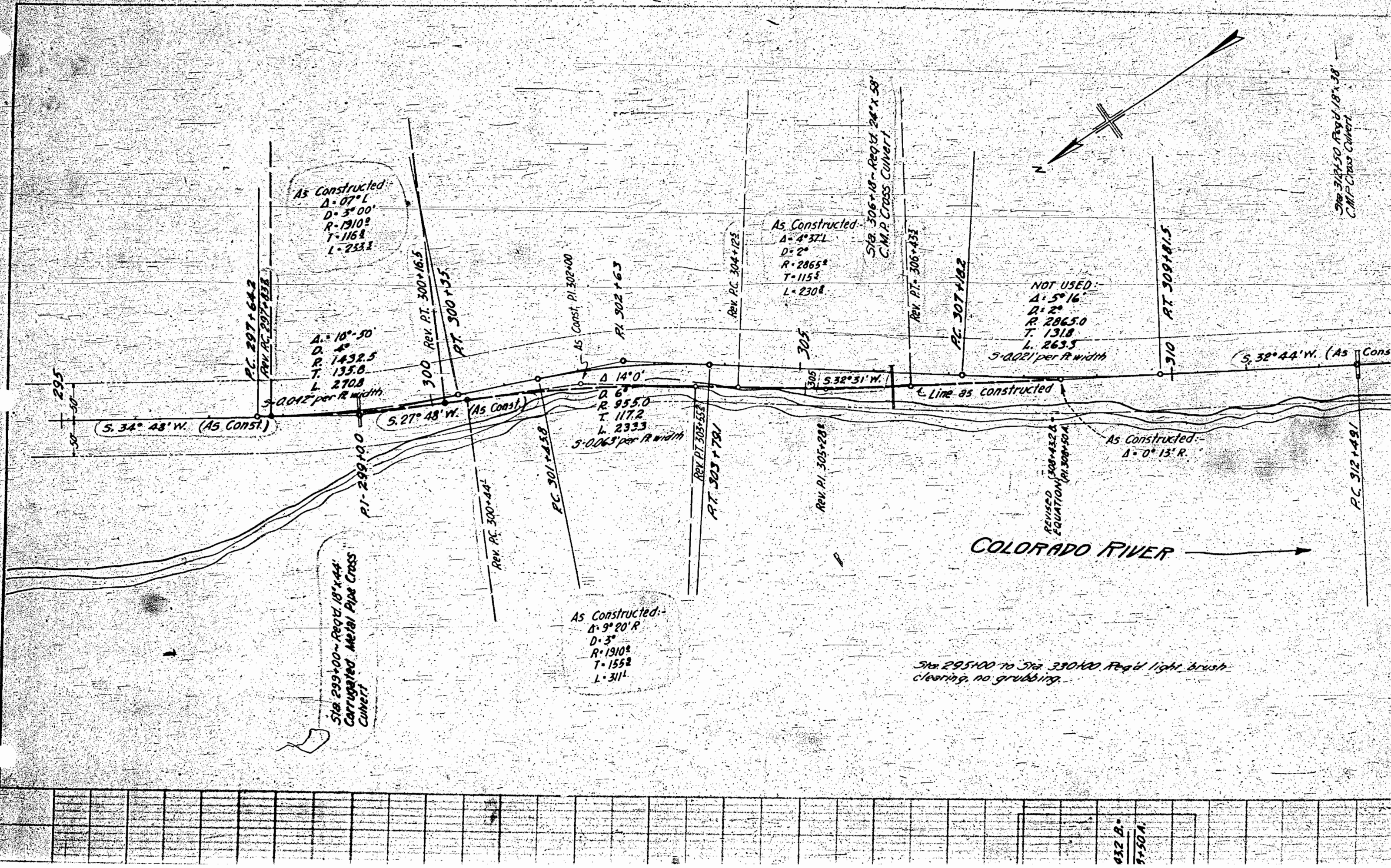
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SECTION NO.	TOTAL LENGTH
0	COLO.	297C	20	

Rev. 6-15-29 P.M.D.

Rev. 6-8-32 P.M.D.







As Constructed:-
 $\Delta = 07^\circ 00'$
 $D = 3^\circ 00'$
 $R = 1910.9$
 $T = 116.8$
 $L = 253.3$

$\Delta = 10^\circ 50'$
 $D = 4^\circ$
 $R = 1432.5$
 $T = 135.8$
 $L = 270.8$
3-0.012' per ft width

As Constructed:-
 $\Delta = 4^\circ 37' L$
 $D = 2^\circ$
 $R = 2865.8$
 $T = 115.5$
 $L = 230.8$

NOT USED:-
 $\Delta = 5^\circ 16'$
 $D = 2^\circ$
 $R = 2865.0$
 $T = 131.8$
 $L = 263.3$
3-0.021' per ft width

As Constructed:-
 $\Delta = 9^\circ 20' R$
 $D = 3^\circ$
 $R = 1910.9$
 $T = 155.8$
 $L = 311.1$

Sta 295+00 to Sta 330+00. Reg'd light brush clearing, no grubbing.

Sta 312+50 Reg'd 18"x38" C.M.P. Cross Culvert

Sta 299+00 ~ Reg'd 18"x44" Corrugated Metal Pipe Cross Culvert

Sta 306+18 ~ Reg'd 24"x38" C.M.P. Cross Culvert

REVISED EQUATION
Sta 308+43.2 ~ Sta 309+50.4

As Constructed:-
 $\Delta = 0^\circ 13' R$

RT 309+81.5

PC 312+49.1

S. 32° 44' W. (As Const)

Line as constructed

REV. PI. 305+28.8

REV. PT. 303+79.1

As Const. PI. 302+00

PI 302+63

REV. PC 304+12.5

REV. PT. 306+43.3

PC 307+18.2

REV. PC 300+44

PC 301+45.8

300 Rev. PT. 300+16.5

RT 300+35

PC 297+64.2

REV. PC 297+83.8

S. 34° 48' W. (As Const.)

S. 27° 48' W. (As Const.)

$\Delta = 14^\circ 0'$
 $D = 6^\circ$
 $R = 955.0$
 $T = 117.2$
 $L = 233.3$
3-0.063' per ft width

S. 32° 31' W.

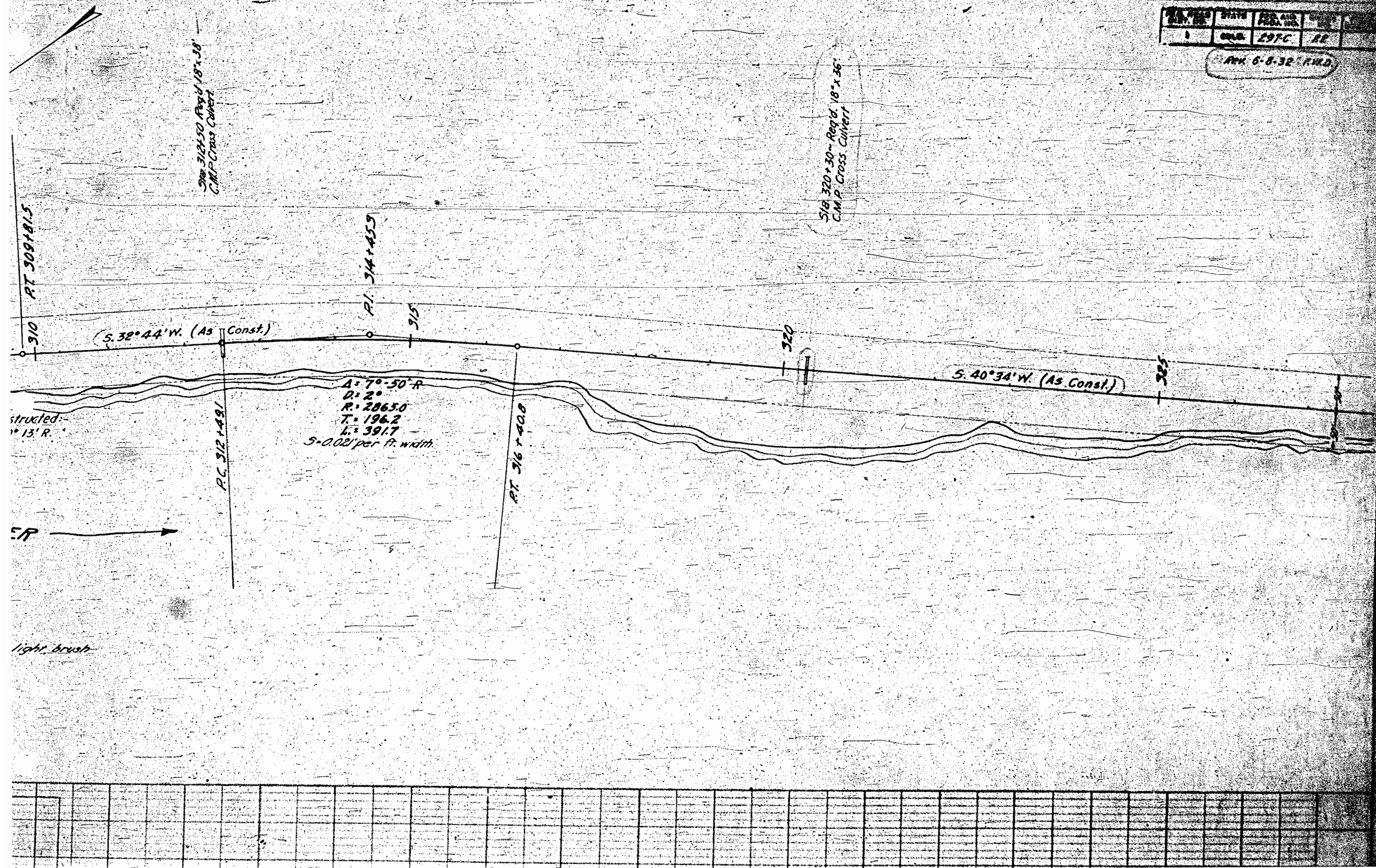
As Constructed:-
 $\Delta = 0^\circ 13' R$

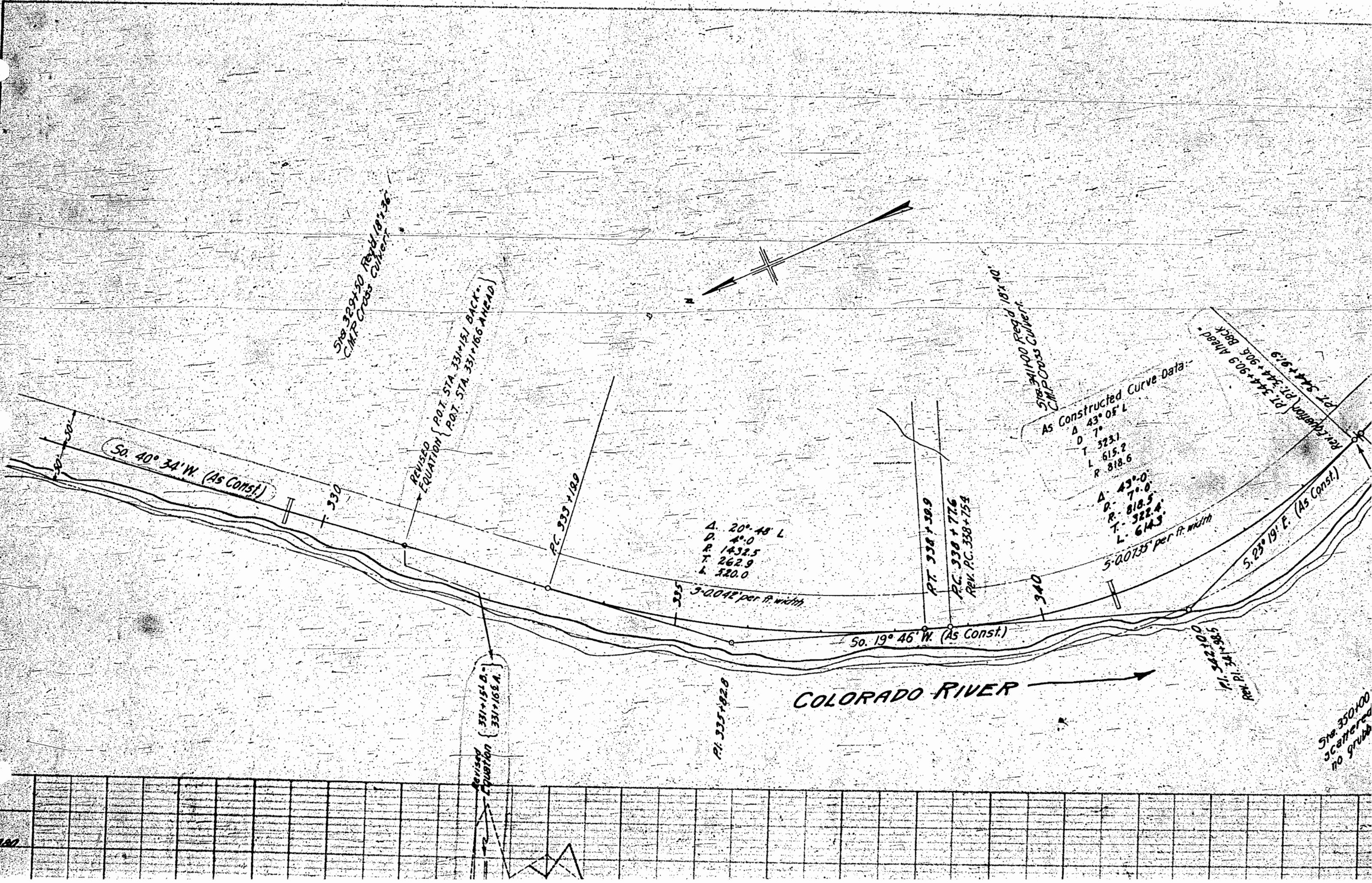
COLORADO RIVER

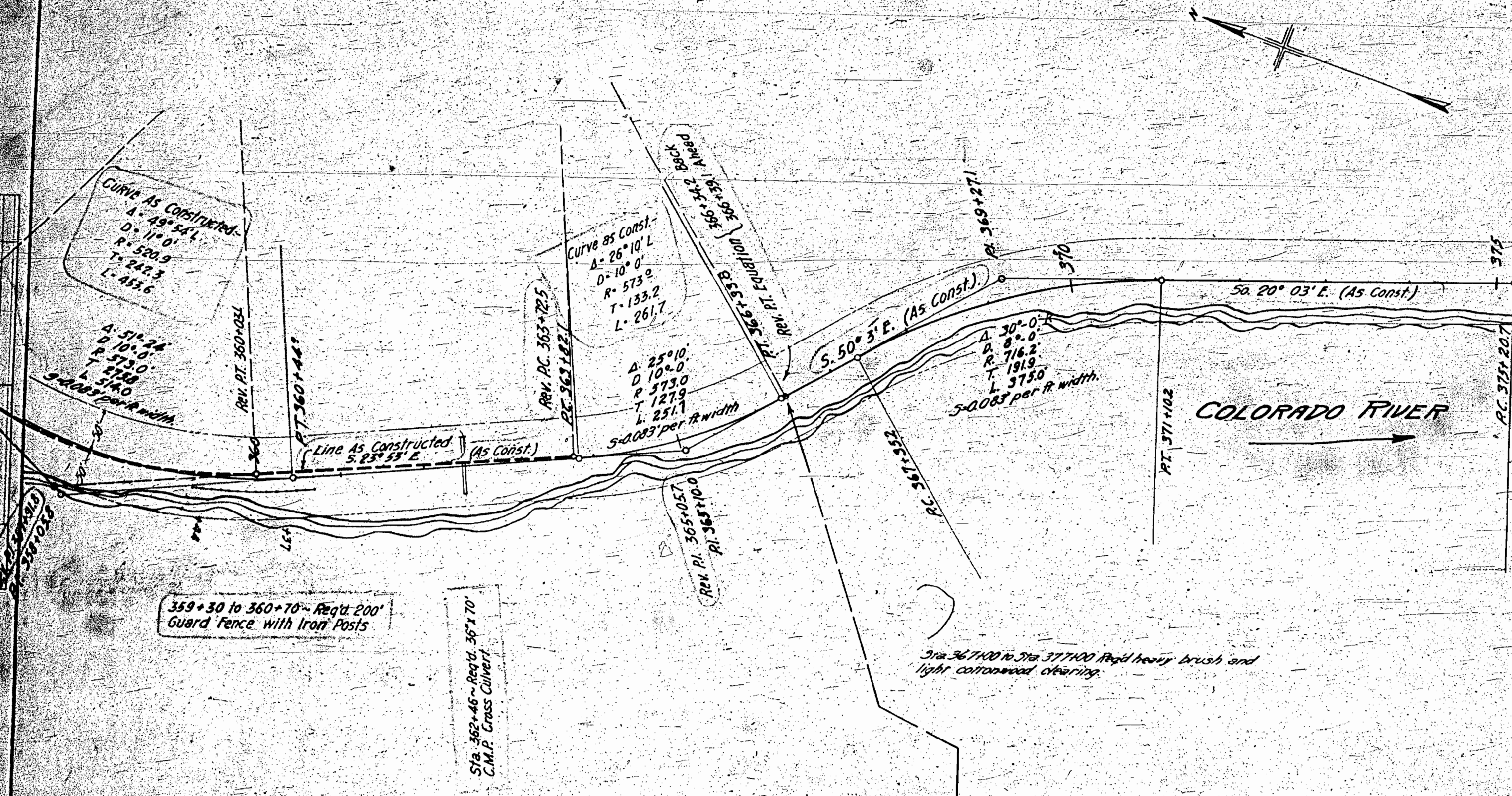
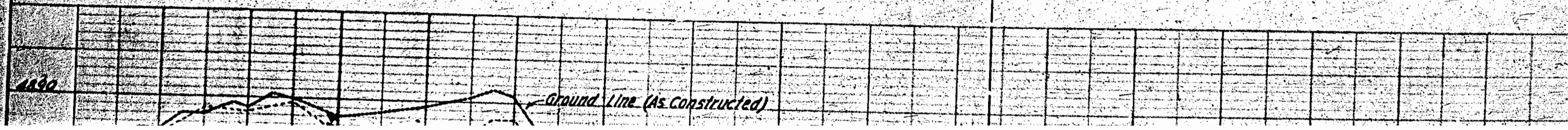
432 B.
9+50 A.

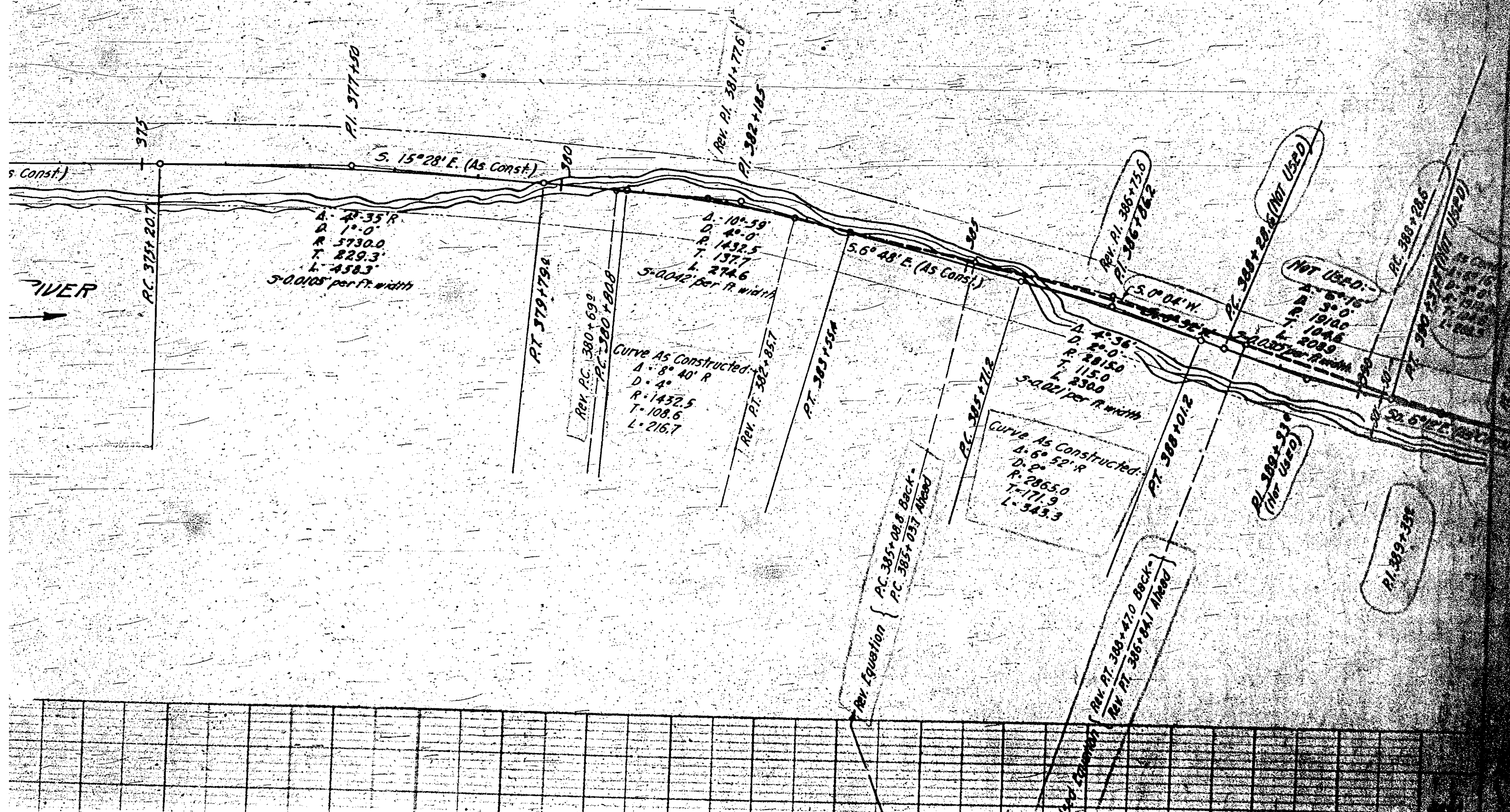
NO.	DATE	BY	CHKD.	APP.
1	6-8-32	29FC	RE	

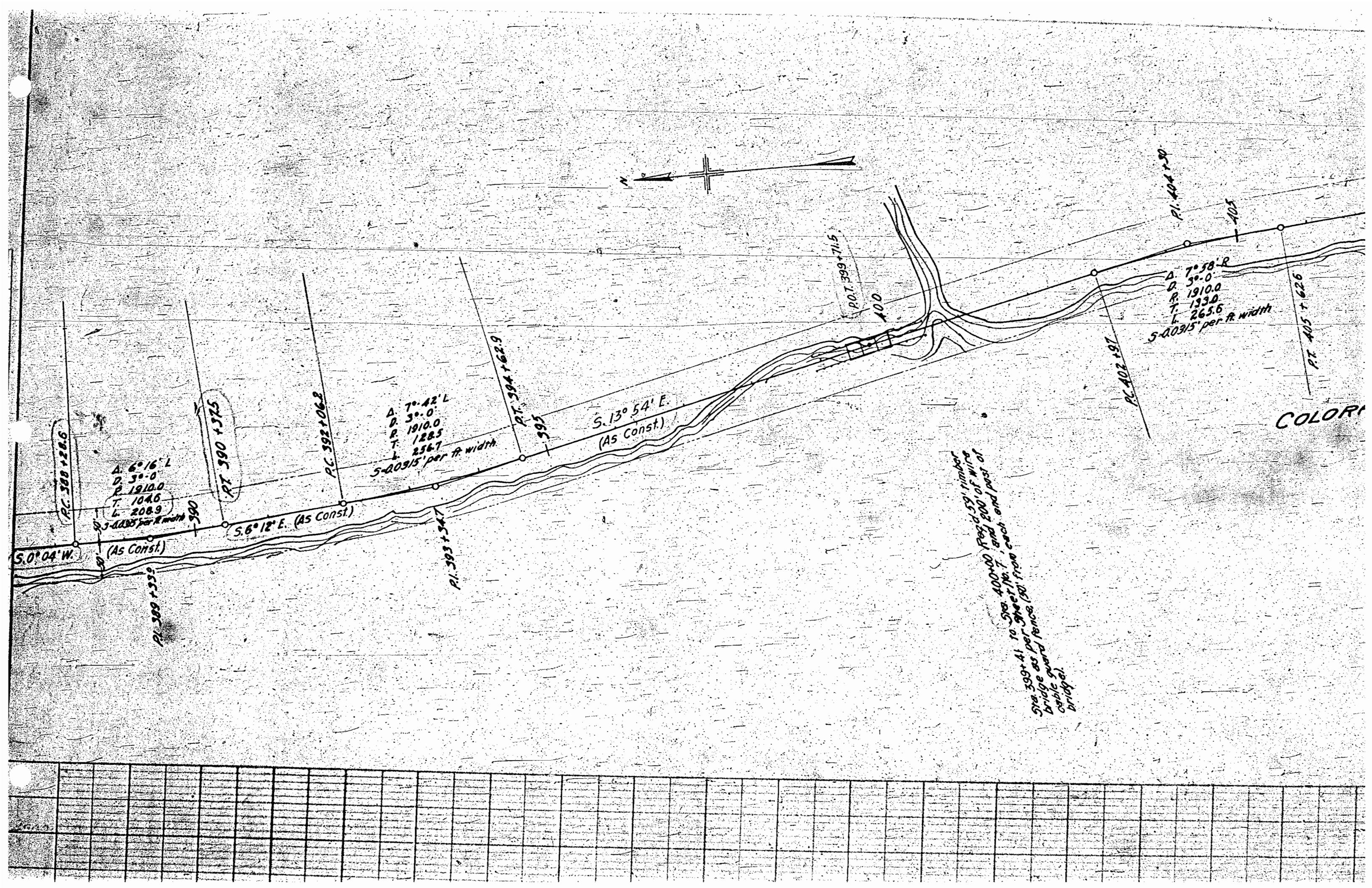
REV. 6-8-32 R.M.D.





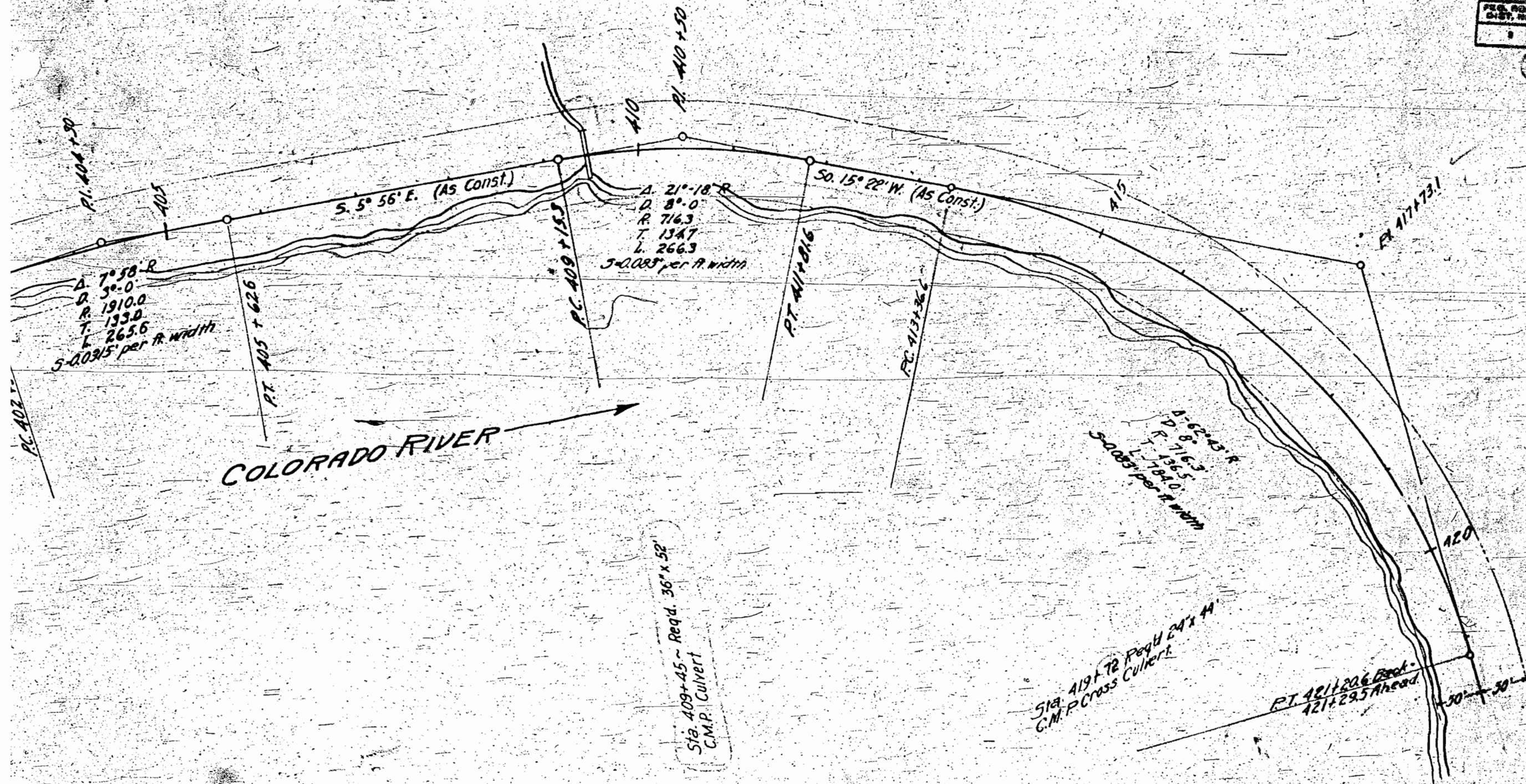


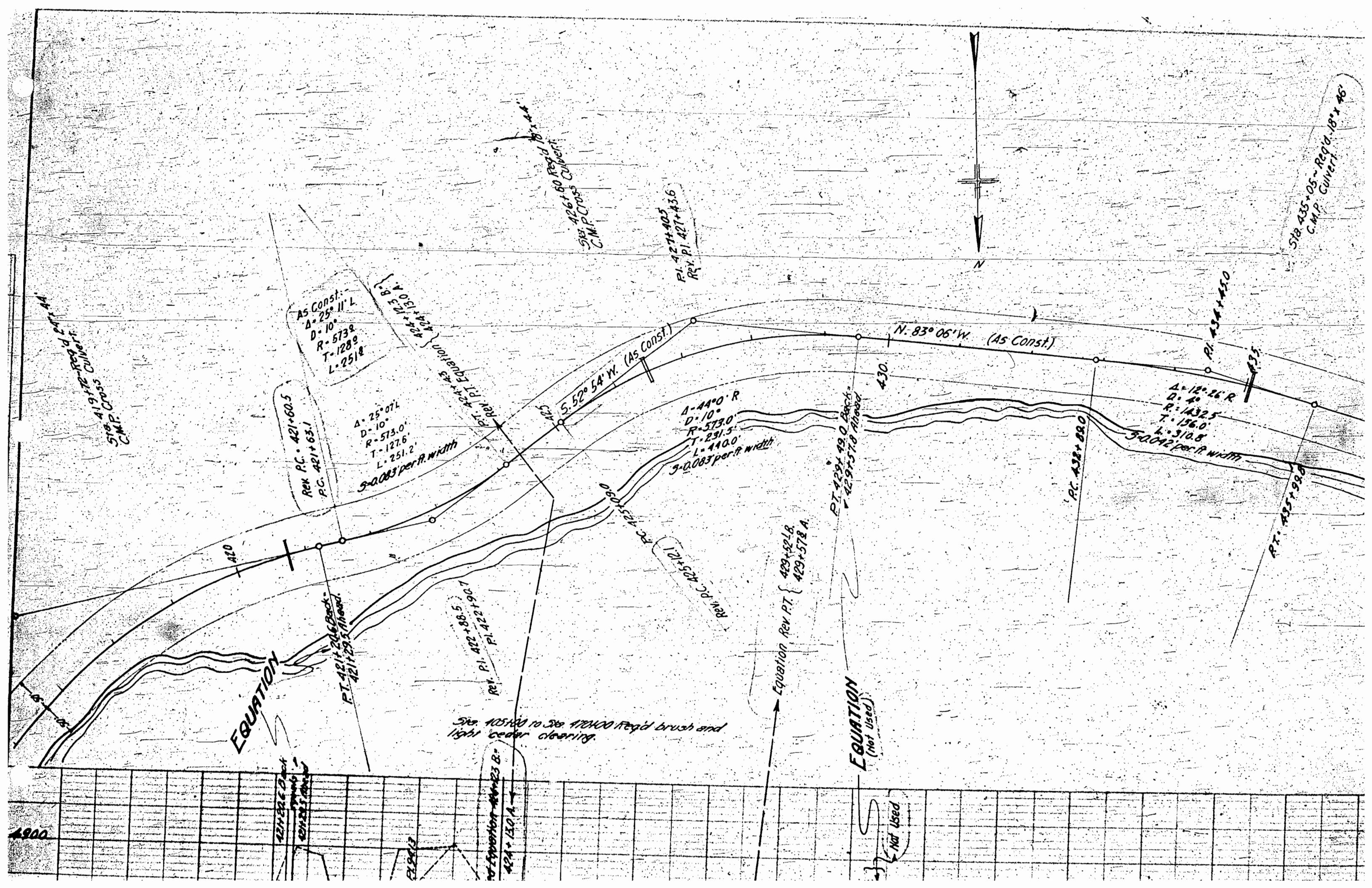




FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	COLO.	297-C	25	25

REV. 5-8-32 R.M.D.





Sta. 419+70 Reg'd 18' x 44' C.M.P. Cross Culvert

AS Const.
 $\Delta = 25^\circ 11' L$
 $D = 10'$
 $R = 573.8$
 $T = 128.9$
 $L = 251.2$

Rev. P.C. 421+60.5
P.C. 421+63.1

$\Delta = 25^\circ 07' L$
 $D = 10'$
 $R = 573.0$
 $T = 127.6$
 $L = 251.2$
3-0.083 per ft. width

Sta. 426+60 Reg'd 18' x 44' C.M.P. Cross Culvert

P.I. 427+403
Rev. P.I. 427+436

$\Delta = 44^\circ 0' R$
 $D = 10'$
 $R = 573.0$
 $T = 231.5$
 $L = 440.0$
3-0.083 per ft. width

P.T. 429+49.0 Back-sight 429+57.8 Ahead

N. $83^\circ 06' W$ (As Const.)

P.C. 432+89.0

$\Delta = 12^\circ 26' R$
 $D = 10'$
 $R = 1432.5$
 $T = 156.0$
 $L = 310.8$
3-0.042 per ft. width

P.I. 434+45.0

P.T. 435+99.0

Sta. 435+05 Reg'd 18' x 46' C.M.P. Culvert

EQUATION

Sta. 425+00 to Sta. 426+00 Reg'd brush and light cedar clearing

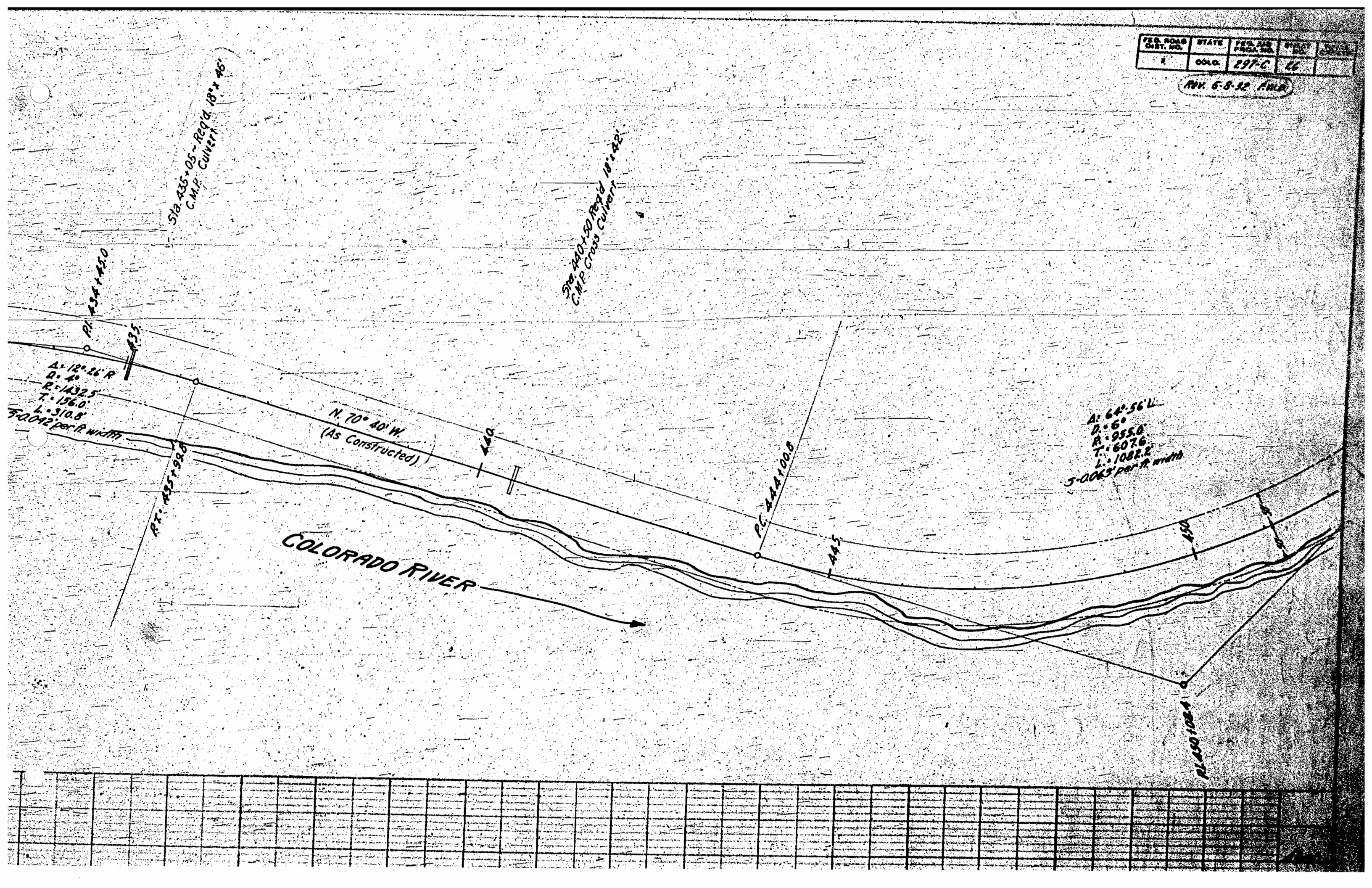
Equation Rev. P.T. { 429+42.8, 429+57.8 A

EQUATION (Not Used)

Not Used

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	COLOR.	297-C	26	

APR. 6-8-32 (M.L.R.)



Sta. 435+05 ~ Reg'd 18' x 46'
C.M.P. Culvert

Sta. 440+30 Reg'd 18' x 42'
C.M.P. Cross Culvert

A: 64° 56' L
D: 6°
R: 955.0
T: 607.6
L: 1082.2
3.0063' per ft width

COLORADO RIVER

N. 70° 40' W.
(As Constructed)

P.C. 444+00.0

P.T. 435+99.8

A: 12° 26' R
D: 4°
R: 1432.5
T: 156.0
L: 510.8
3.0042' per ft width

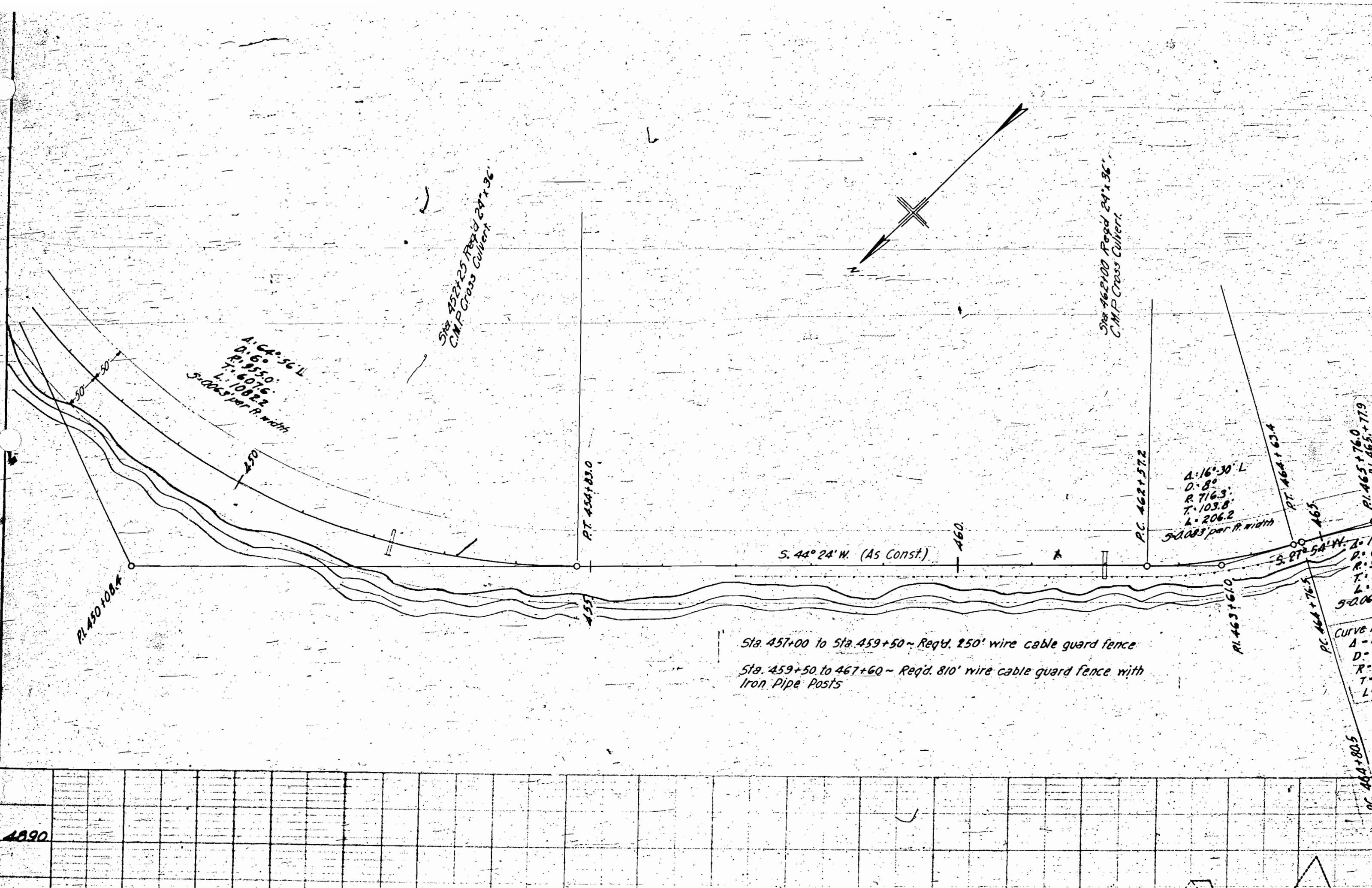
P.L. 434+43.0

P.L. 450+08.4

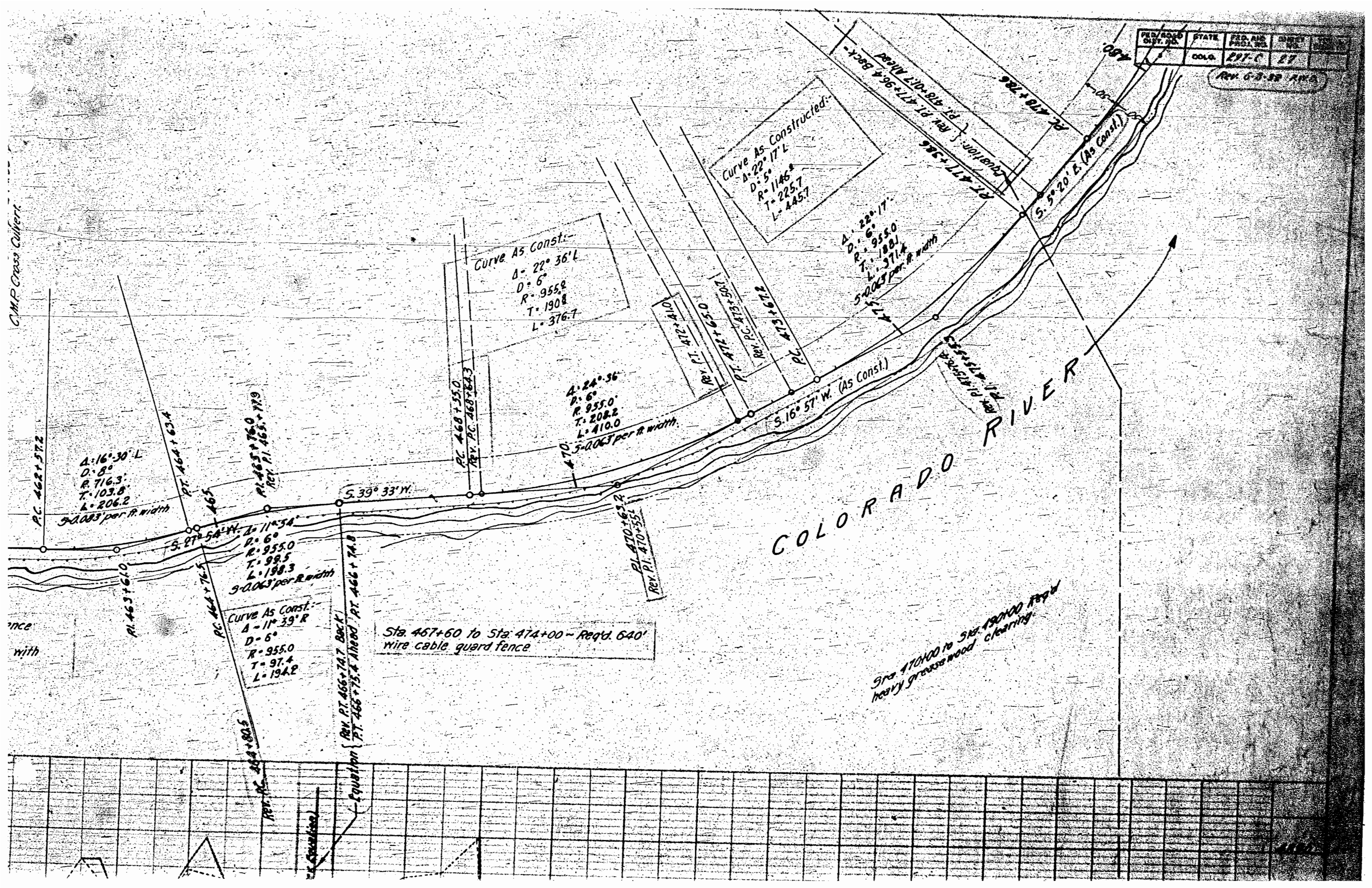
440

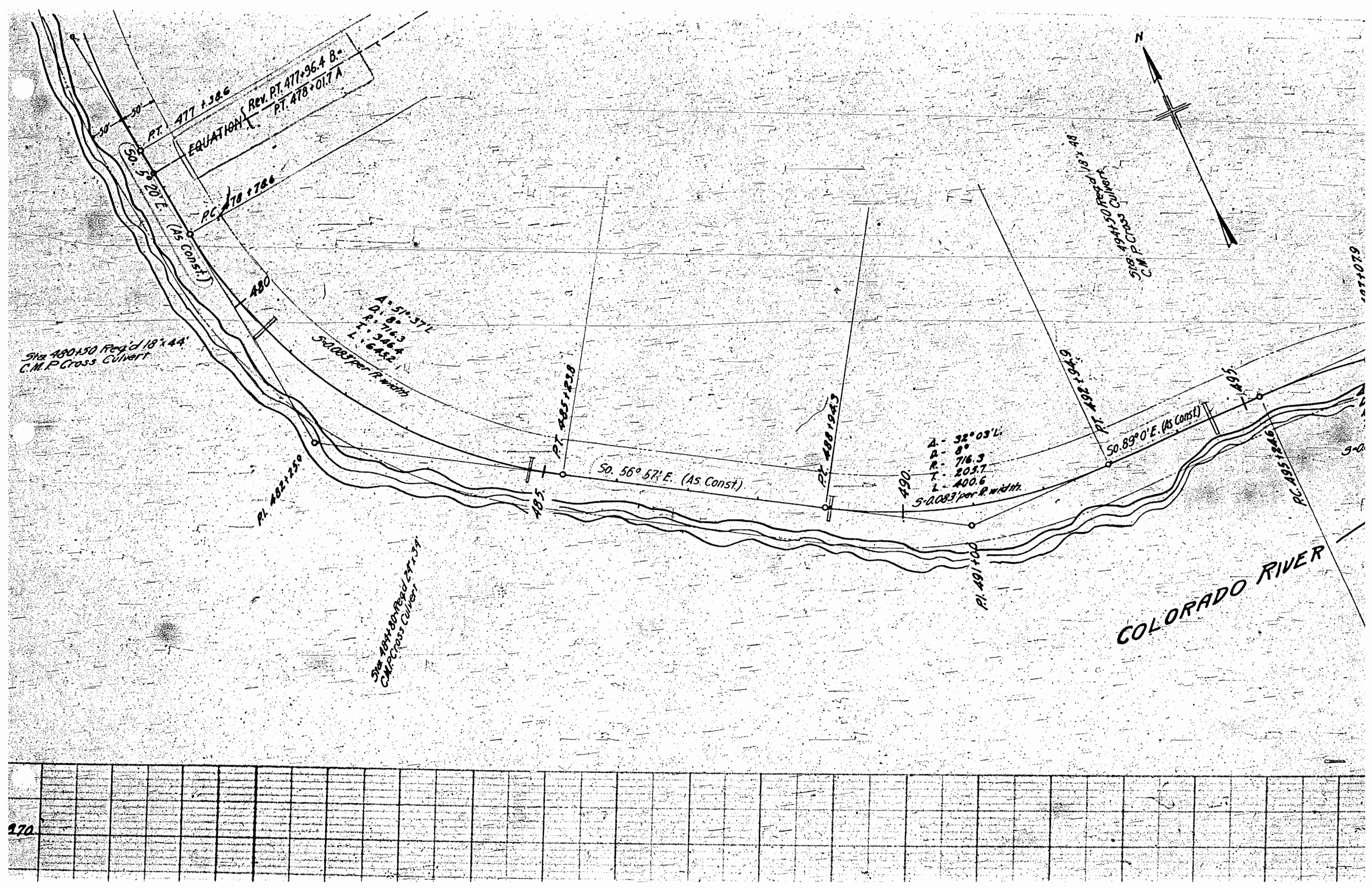
445

450



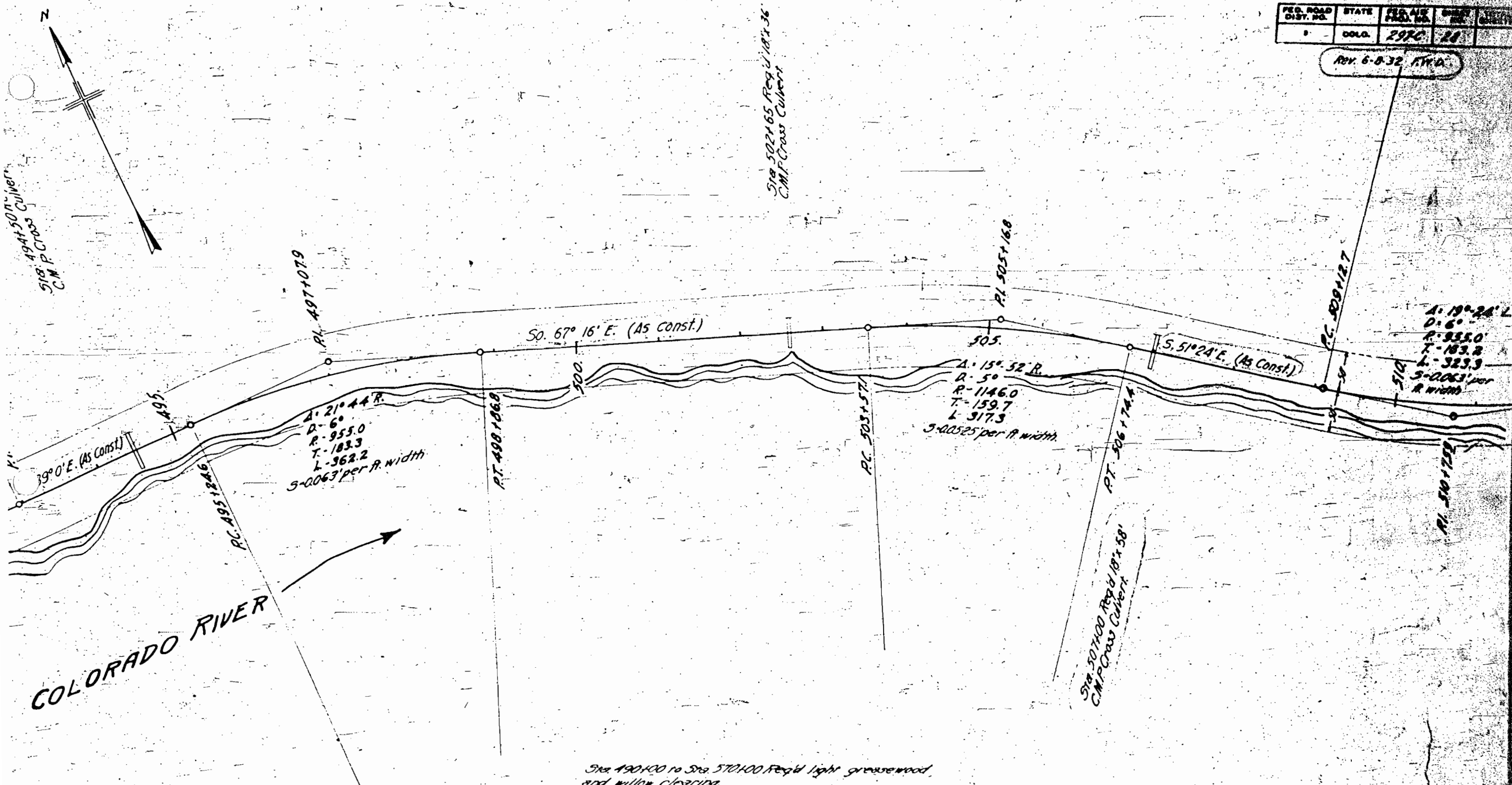
C.M.P. Cross Culvert.





FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	COLOR.	2970	24	

REV. 6-8-32 N.Y.C.



COLORADO RIVER

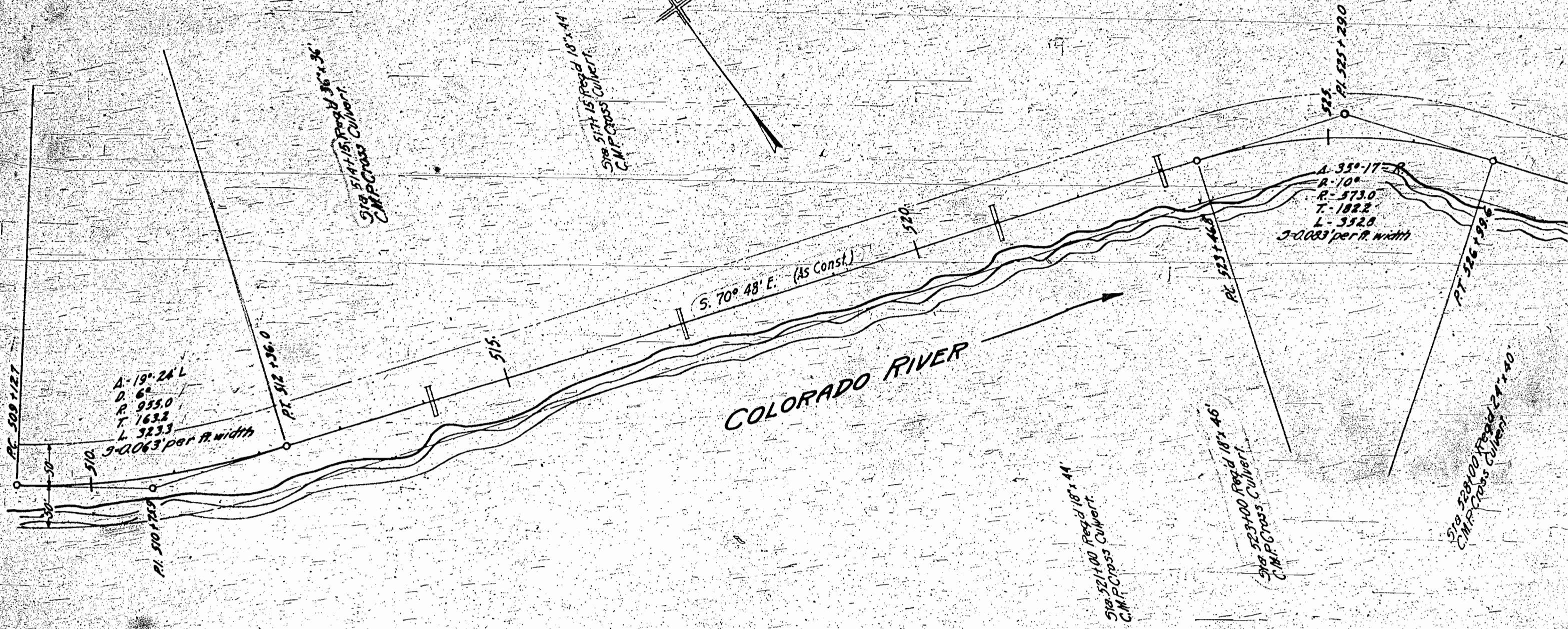
Sta 490+00 to Sta 510+00 Right Right grasswood polewood and willow clearing.

Sta 494+50 18' x 36' C.M.P. Cross Culvert

Sta 502+65 18' x 36' C.M.P. Cross Culvert

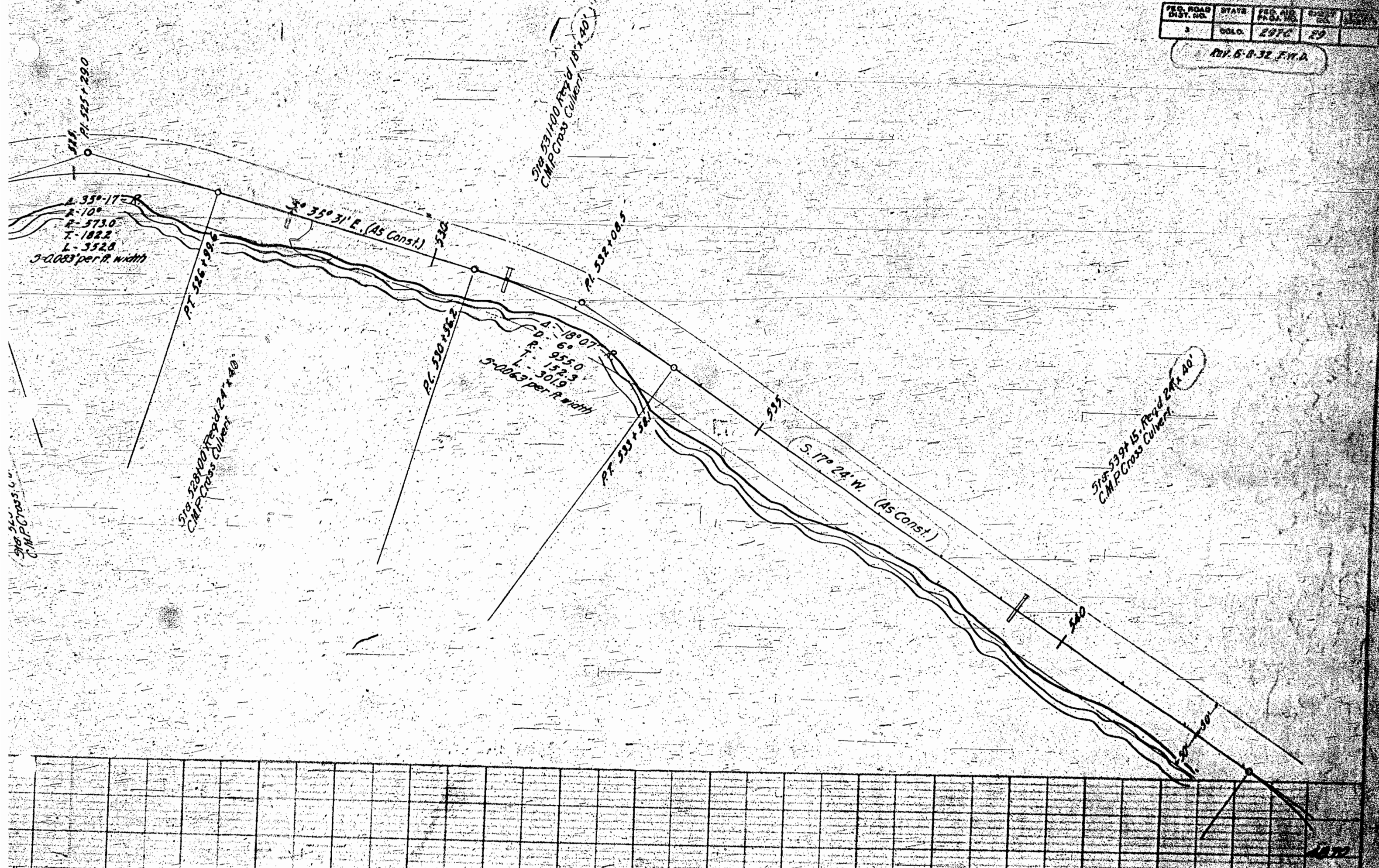
Sta 502+65 18' x 36' C.M.P. Cross Culvert

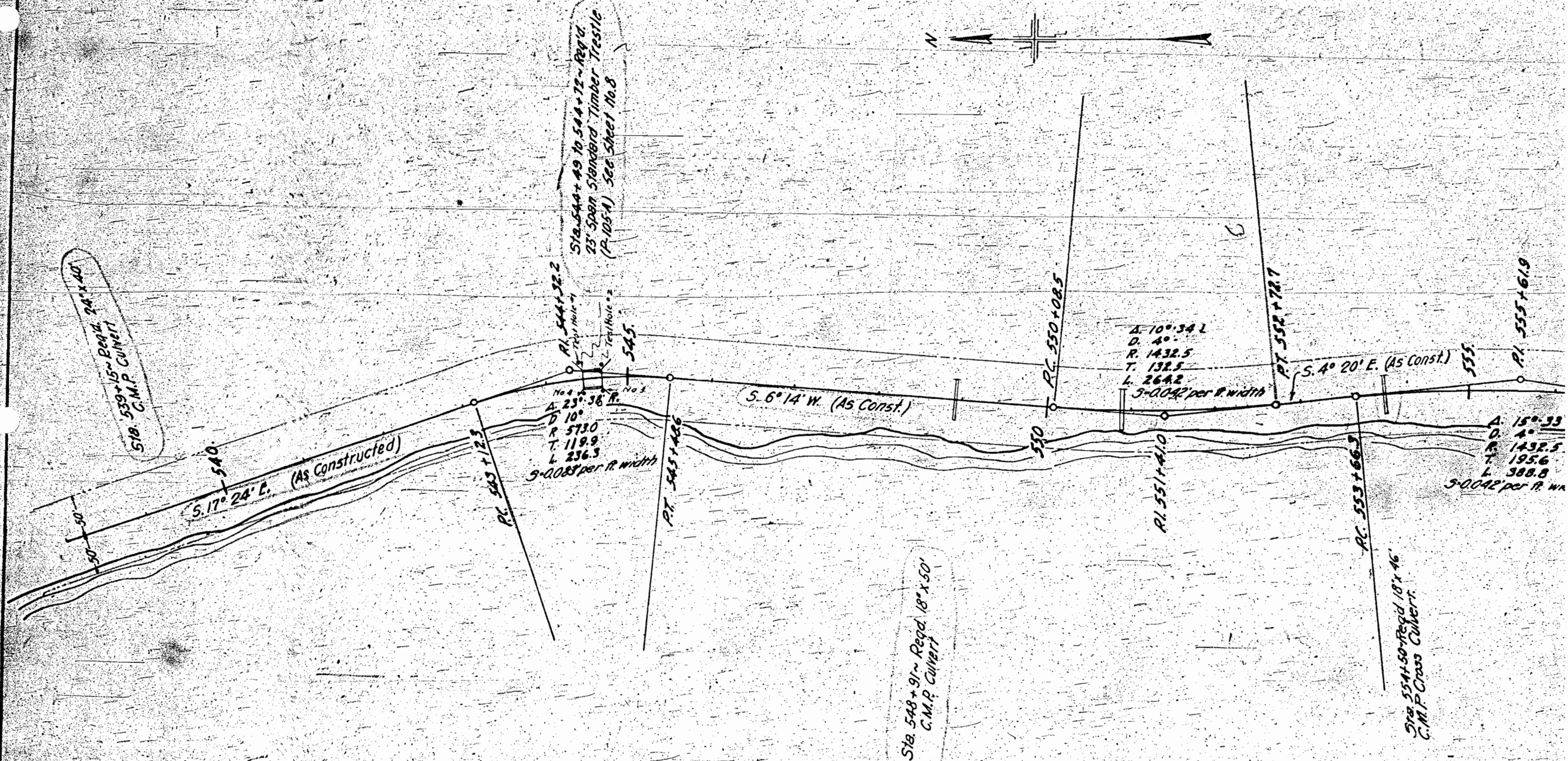
PI 510+75.9



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FED. AID DIST. NO.	DATE
3	COLO.	297C	29	

REV. 5-8-32 F.H.A.





FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2	COLO.	297C	30	

Revised Sept. 5, 1930 by RMA
Rev. 6-8-32. RWD.

