



COLORADO
Department of
Transportation

DOCUMENT SEPARATOR SHEET

REGION 5 – JUNE 2017 CONVERSION

To be placed at the beginning of each separator sheet.



r500001561

Description:

ROW Plans 11X17

Route # and Mile Points:

US 24

Originating Office:

ROW/Survey

File Name:

F.A.P. 54 AR_ROW(.PDF)

Box Location:

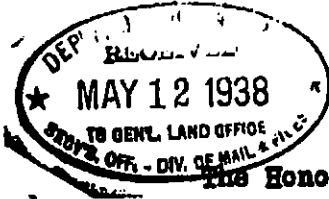
25 of 38

F. 4/5

DEPARTMENT OF AGRICULTURE
WASHINGTON



May 11, 1938.



The Honorable,

The Secretary of the Interior.

7
Dear Mr. Secretary:

The Colorado State Highway Department has made application for the appropriation of certain unappropriated public land for use as a right of way for Colorado Federal aid highway project No. 54-A. Enclosed is one linen tracing, and four blue prints thereof, showing the right of way desired. This tracing bears the local register's serial number 050747 and certificate to the effect that vacant public land is involved in this application. Denver

Pursuant to the provisions of Section 17 of the Federal Highway Act approved November 9, 1921 (42 Stat. 212), and acting upon representations made by the Colorado State Highway Department, I find that the above mentioned land is needed by the said State Highway Department as a right of way for Colorado Federal aid highway project No. 54-A. If the proposed appropriation of such right of way is not contrary to the public interests or inconsistent with the objects of your Department, I should be obliged if you would authorize the transfer of the same to the Colorado State Highway Department for the purpose specified.

If and when the transfer is approved it will be appreciated if you will have the necessary notations showing such approval made on the blue prints enclosed herewith and return them to the Bureau of Public Roads of this Department.

Sincerely,

Harry L. Brown

Acting Secretary

Enclosures



UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE
WASHINGTON

LAND OFFICE
DENVER, COLO.

AUG 22 1938

AUG 18 1938

74167

IN REPLY PLEASE REFER TO

127 Denver 050747 "T" AB

:
:
:

Transmitting
map with
instructions.

Register,

Denver, Colorado.

Sir:

On August 12, the Department approved the map filed by the Colorado State Highway Department in connection with its application of the above number for right of way for the construction of Colorado Federal Aid Highway Project No. 54-A, affecting land in your district.

There is transmitted herewith for the files of your office the duplicate map. Make appropriate notations on your record.

Very respectfully,

W. P. Thompson
Commissioner.

Enclosure.

Staff Right of Way - General

COLORADO



RESS ALL COMMUNICATIONS TO
RADO DEPARTMENT OF HIGHWAYS
4201 E. ARKANSAS AVE.

DEPARTMENT OF HIGHWAYS

DENVER 22, COLORADO

11/13/68

CHAS. E. SHUMATE
Chief Engineer

NOV 13 1968
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Mr. Everett K. Weeden
Supervisory Adjudicator
Bureau of Land Management
1509 Federal Building
Denver, Colorado 80202

Attention: Mrs. Todd

Dear Mr. Weeden:

We are enclosing a tabulation of the starting and completion dates of the projects which you noted in your letters of October 22, 1968 and November 7, 1968.

According to the phone conversation with Mr. Turban, this list will serve as satisfactory proof of construction for these old projects.

Very truly yours,

CHAS. E. SHUMATE
Chief Engineer

By J. P. McFall
J. P. McFall
Staff Right of Way Engineer

JPM:KWA:mc
Enclosure

cc: L. C. Bower
F. K. Merten

<u>GRANT NO.</u>	<u>OF GRANT</u>	<u>PROJECT NO.</u>	<u>PROJECT NAME</u>	<u>TION STARTED</u>	<u>TION COMPLETED</u>
D 050 867	10/18/38	FAP 68-E(1)	Salida - Poncha Springs	5/4/38	11/10/38
D 050 747	8/12/38	FAP 54 AR	Buena Vista - Fairplay	3/2/38	10/22/38
D 052 636	5/26/44	AI FA 103-I(1)	Ridgeway - Placerville	5/13/44	12/30/44
D 053 696	11/14/46	F 103(13)	Ridgeway - Westerly	6/25/46	8/29/47
D 053 741	6/29/50	F 292(8) F 001-2(3)	Dowd - Wolcott Road	4/18/49	10/29/49
D 053 825	2/4/47	F 258(12)	Montrose - Gunnison Rd.	7/22/46	7/12/47
D 053 854	9/29/47	F 171(2) F 299(10)	Delta - Grand Junction Rd.	6/19/46	12/5/47
D 3 916	9/22/47	S 98(1)	Crested Butte - Gunnison Rd.	9/5/46	9/8/47
D 053 926	9/11/47	S 369(4)	Parlin - Saguache	7/14/47	8/14/48
D 053 941	1/30/47	FAP 6-A(1)	Palisade - Grand Valley Rd.	12/10/46	10/29/47
D 054 071	8/20/47	FAP 113(10)	Salida - East	10/16/46	8/21/47
D 54 143	8/26/47	FLHP 24 F	Willow Creek Pass	8/20/47	7/14/48
D 054 207	8/19/47	FAS 97(1)	Toponas Road - McCoy	5/10/48	10/19/48
D 054 286	4/26/47	S 110(1)	Muddy Pass - Walden	7/29/47	7/26/48
D 054 416	5/28/47	S 2(2)	Garo - Fairplay	9/29/47	10/2/48
D 068	1/8/48	SP 49 64-505	Stinking Creek - Rangely Rd.	7/14/47	5/19/48
D 055 218	4/5/48	S 0125(2)	Sapinero - Hotchkiss	3/29/48	8/25/48
D 055 800	4/21/50	S 423(3)	Buena Vista - Independence Pass	8/4/47	8/17/48
D 055 834	4/21/50	F 21-1(1)	Sapinero - Gunnison Rd.	4/14/48	11/16/48
D 055 879	3/23/48	AESNFAP 81- GHIJ(2)	Clear Creek Rd.	6/25/48	7/26/49
D 055 962	6/17/48	"	Clear Creek Rd.	6/25/48	7/26/49



UNITED STATES
DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT
COLORADO STATE OFFICE
ROOM 14023 - FEDERAL BLDG.
1961 STOUT STREET
DENVER, COLORADO 80202

Proj. No. FAP 54 AR
Location: Buena Vista-
Fairplay

*Todd
RDS*

June 17, 1969

CERTIFIED MAIL

DECISION

Department of Highways
State of Colorado

RIGHT-OF-WAY

PROOF OF CONSTRUCTION ACCEPTED

FORMAL APPROVAL OF A RIGHT-OF-WAY FOR a highway
ON CERTAIN PUBLIC DOMAIN LANDS WAS PREVIOUSLY GRANTED
UNDER THE ABOVE SERIAL NUMBER.

PURSUANT TO THE PROVISIONS OF 43 CFR 2234.1-4(b) (FORMERLY 244.15),
CERTIFICATIONS AS TO COMPLETION OF CONSTRUCTION SIGNED BY BOTH
THE APPLICANT AND THE APPLICANT'S ENGINEER HAVE BEEN FILED. THE
CERTIFICATIONS SHOW THAT THE LOCATION OF THE ACTUAL CONSTRUCTION
CONFORMS TO THE LOCATION SHOWN ON THE MAP PREVIOUSLY APPROVED
BY THIS BUREAU.

FIELD REPRESENTATIVES OF THIS BUREAU HAVE REPORTED THAT THEIR
EXAMINATION SHOWS THAT ADEQUATE COMPLIANCE HAS BEEN MADE WITH
THE TERMS AND CONDITIONS OF THE DECISION GRANTING THE RIGHT-OF-WAY.
SINCE SATISFACTORY COMPLIANCE WITH EXISTING LAW AND REGULATIONS
HAS BEEN EFFECTED, PROOF OF CONSTRUCTION IS HEREBY ACCEPTED AND
THE RECORDS OF THE LAND OFFICE WILL BE NOTED ACCORDINGLY.

Robert D. Weedon
for EVERETT K. WEEDON
SUPERVISORY ADJUDICATOR
BRANCH OF LANDS

cc: Bureau of Public Roads

copy: DM, Canon City

1770

(S M)

JUN 19 1969

$N\frac{1}{2}NE\frac{1}{4}$ Sec. 22 T. 4 S. R. 78 W.
U.S. GOVT.

$NW\frac{1}{4}$ Sec. 2

U.S.

$NE\frac{1}{4}SW\frac{1}{4}$ Sec. 22 T. 4 S. R. 78 W.
U.S. GOVT.

$N\frac{1}{2}SW\frac{1}{4}$ Sec. 2
U.S.

Δ 46° 52' L
D 800
T 310
L 5858
R 764

Δ 45° 43' 30" R
D 3100
T 8052
L 15242
R 19102

SELECT MATERIAL PIT NO. 1

$S\frac{1}{2}SW\frac{1}{4}$ Sec. 2

U.S.

T. 4 S.

22

946.9170 Sec. Line 5

1207.82848

PC 688.948

PC 631.923

PT 791.62

PC 809.912

PT 921.315

N 68° 06' 30" E

STA. 51+48.22 BEGIN F.A.P. 54' AR

$N\frac{1}{2} NE\frac{1}{4}$ Sec. 22 T14S, R78W
U.S. GOVT.

$NW\frac{1}{4}$ Sec. 23 T14S
U.S. GOVT.

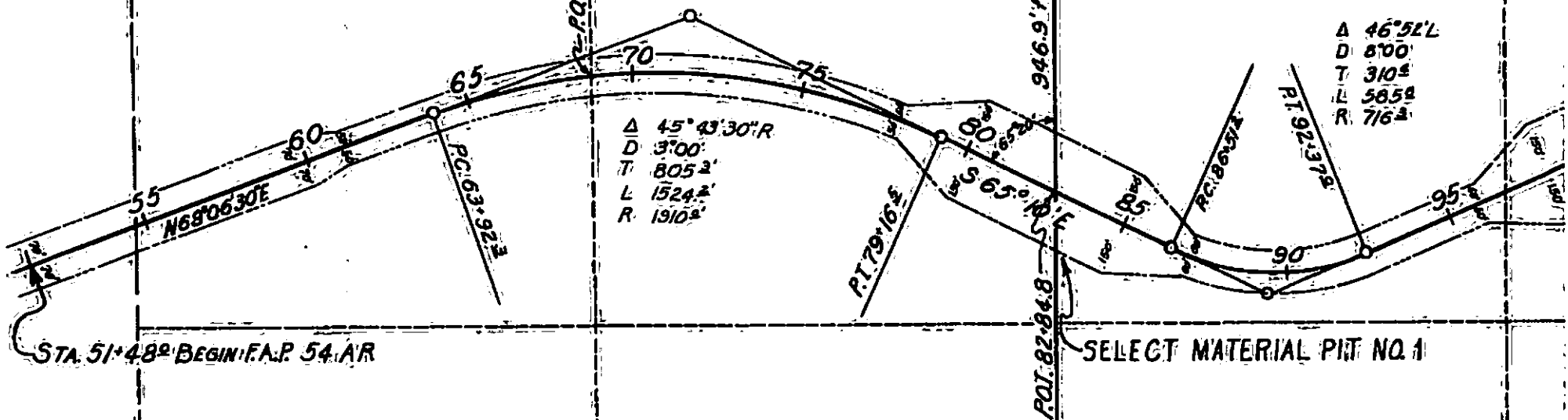
T.
14
S.
22

$NE\frac{1}{4} SW\frac{1}{4}$ Sec. 22 T14S, R78W
U.S. GOVT.

$N\frac{1}{2} SW\frac{1}{4}$ Sec. 23 T14S
U.S. GOVT.

A 46°52' L
D 8'00"
T 310'
L 58.58
R 716.3

A 45°43'30" R
D 3'00"
T 805.2'
L 1524.2'
R 1910.3'



$S\frac{1}{2} SW\frac{1}{4}$ Sec. 23 T14S
U.S. GOVT.

R. 78 W.

$N\frac{1}{2}N\frac{1}{4}$

$NW\frac{1}{4}$ Sec. 23 T14S, R78W

U.S. GOV'T.

$S\frac{1}{2}NE\frac{1}{4}$

23

T14S, R78W

GOV'T.

$N\frac{1}{2}SW\frac{1}{4}$ Sec. 23 T14S, R78W

U.S. GOV'T.

Δ 46°52' L
D 8'00
T 310±
L 385±
R 716±

Pt. 92.37±

Pt. 86.37±

Pt. 79.16±

946.9' to ¼ Sec. Line

P.O.T. 82.84.8

SELECT MATERIAL PIT NO. 1

$S\frac{1}{2}SW\frac{1}{4}$ Sec. 23 T14S, R78W

U.S. GOV'T.

$NW\frac{1}{4}SE\frac{1}{4}$ Sec. 23 T14S, R78W

U.S. GOV'T.

SELECT MATERIAL PIT NO. 2

120
115
110
105
100
95
90

R. 78 W.

N $\frac{1}{2}$ NE $\frac{1}{4}$ Sec. 23 T14S R78W

U.S. GOVT.

S $\frac{1}{2}$ NE $\frac{1}{4}$ Sec. 23 T14S R78W

U.S. GOVT.

NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 23 T14S R78W

U.S. GOVT.

SELECT MATERIAL PIT NO. 2

5°34'R
0°15'
114°
2226'
22920'

PC 119+72.5

2016.5' to Sec. 23

R714N98E

23

120

125

130

135

140

105

110

100

N167°58'E

4S R78W

VT

5 R78W

VT

5 R78W

VT

24 T. 14S., R. 78W.
S. GOV'T.

POINT 159.73.3
155
N 73° 32' E
SELECT MATERIAL PIT NO. 3
160
165
170
175
N 59° 37' E
P.C. 164.55.2
P.C. 165.77.6
P.C. 171.50.2
D 13° 55' L
D 2° 00' L
T 1349.1' L
L 695.8' L
R 2865.2' R

24

N

COLORADO STATE
FEDERAL AIRPORT
RIGHT OF WAY REQUIRED FOR
LAND IN SEC. 22, T. 14S., R. 78W.

I HEREBY CERTIFY
RECORDS OF THIS OFFICE
THE VACANT PUBLIC LANDS
AFFECTED BY THE PROPOSED
PROJECT.

DATED *Frances C.*
Mar, 28, 1938. *Acting*

24 T. 14S., R. 78W.
S. GOV'T.

AUG 12 1937

to the provisions of the act of Congress
approved March 9, 1921 (42 Stat.
1545) and approved, subject to
the conditions therein, but without
the usual condition as to the
survey by the authority of the
Bureau.

Oscar L. Chapman
Surveyor General

RIGHT OF WAY REQUIRED THROUGH U.S. GOV'T.
LAND IN SEC. 22, 23 & 24, T.14S, R.78W.

I HEREBY CERTIFY THAT ACCORDING TO THE RECORDS OF THIS OFFICE, THIS PLAT CORRECTLY SHOWS THE VACANT PUBLIC LAND IN SEC. 22, 23 & 24, T.14S., R.78W., AFFECTED BY THE PROPOSED RIGHT OF WAY FOR THIS PROJECT.

DATED Francis Reilly
Mar. 28, 1938. Acting REGISTER U. S. LAND OFFICE
 DENVER, COLORADO

REGISTER U.S. LAND OFFICE
DENVER, COLORADO

SCALE 1"=400'

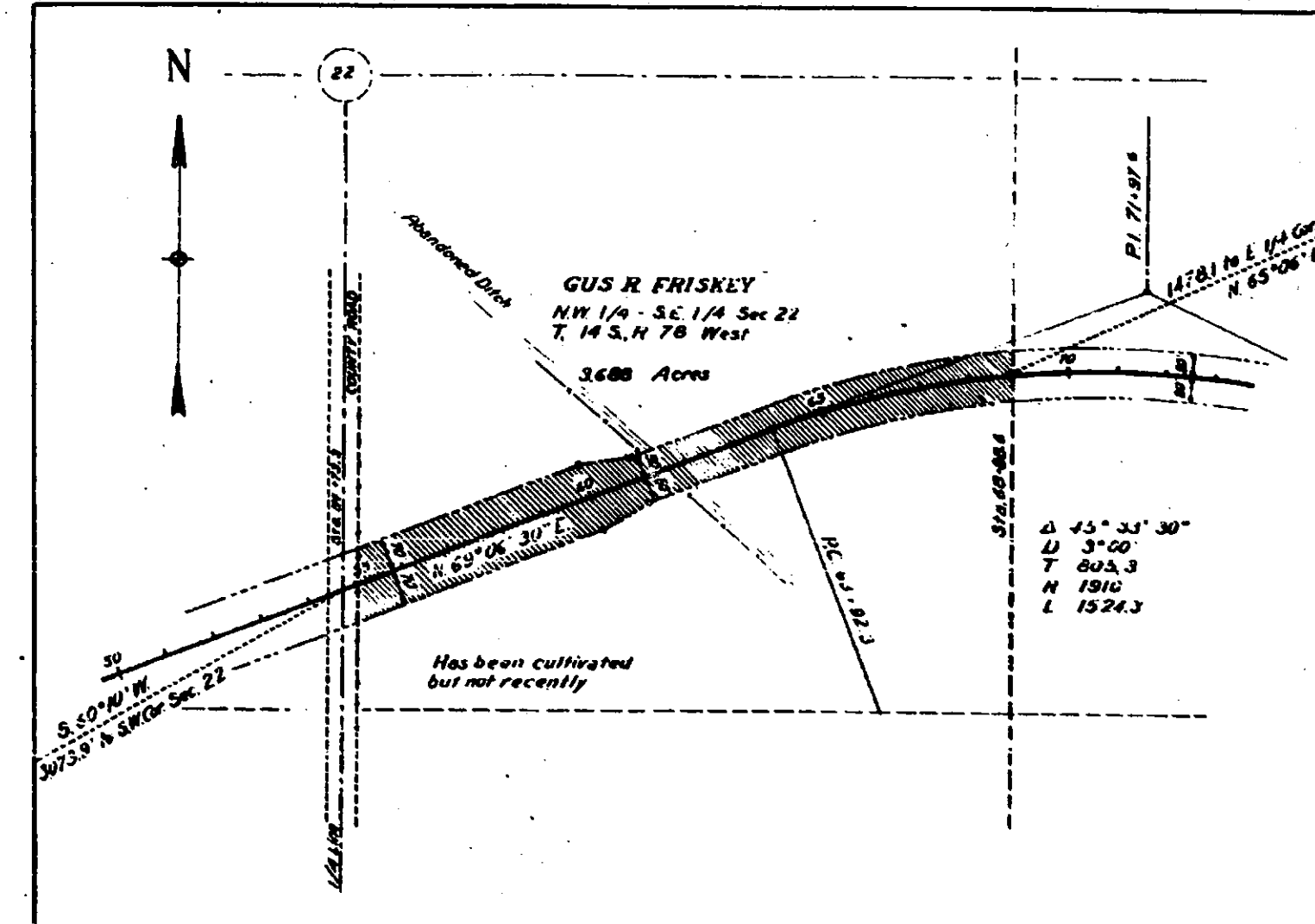
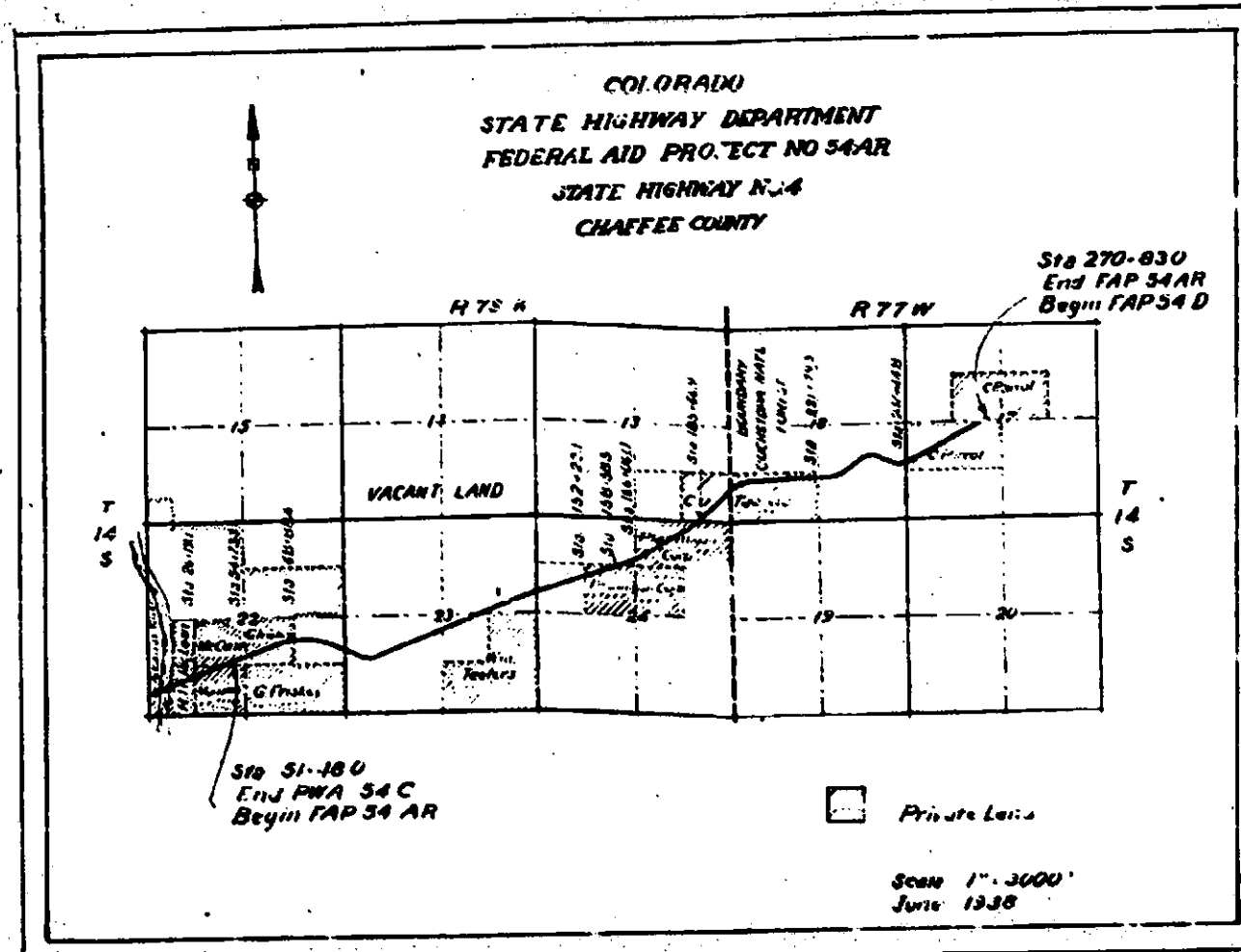
.24 T14S, R78W

S. GOV'T.

AUG 12 1936

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Osceola L. Chapman
JAN 19 1907
JH



FENCING REQUIREMENTS

STATION TO STATION	SIDE	REMOVE FENCE LIN. FT.	BUILD BARB WIRE FENCE LIN. FT.	BARB WIRE GATES NO.
51+00 - 54+20	LI.		322	
51+00 - 54+22	RI.		279	
54+00 - 54+20	X	148		
55+20 - 70+20	LI.		1518	
54+20 - 70+20	RI.		1536	
55+00 - 55+00	X	158		
61+30 - 71+15	LI.		782	
71+15 - 80+77	RI.		971	
78+31 - 80+00	LI.			
80+00 - 97+00	RI.		1915	
97+00 - 97+00	LI.			
97+00 - 98+07	LI.		63	
98+00 - 98+00	RI.		1903	
99+12 - 115+07	LI.		1635	
99+19 - 115+00	RI.		1621	
116+23 - 127+08	LI.		1737	
127+08 - 132+00	RI.		1712	
132+00 - 139+62	LI.		672	
139+62 - 139+62	RI.		667	
140+10 - 158+39	LI.		1945	
140+13 - 157+94	RI.		1834	
158+00 - 163+30	LI.		517	
158+15 - 163+30	RI.		365	
163+00 - 178+05	LI.		1465	
163+00 - 178+05	RI.		1469	
178+00 - 195+13	LI.		1700	
178+00 - 195+13	RI.		1728	
195+00 - 210+51	LI.		2060	
195+00 - 210+51	RI.		2046	
210+00 - 215+78	LI.		130	
210+00 - 215+78	RI.		75	
210+00 - 215+78	LI.		1644	
210+00 - 215+78	RI.		1603	
210+00 - 215+78	LI.		1723	
210+00 - 215+78	RI.		630	
210+00 - 215+78	LI.		3000	
210+00 - 215+78	RI.		3422	
TOTALS		581	44344	3

R.O.W. MARKERS

STATION	SIDE	NO.
54+50.3	R	1
55+01	L	1
60+00	LER	2
61+00	LER	2
78+00	LER	2
80+00	LER	2
82+15.9	L	1
83+53.7	R	1
85+00	LER	2
87+00	LER	2
96+00	LER	2
98+00	LER	2
100+00	LER	2
102+00	LER	2
110+00	R	1
110+38.1	L	1
113+00	LER	2
114+00	LER	2
118+66	L	1
122+10	R	1
138+36.5	R	1
139+00	L	1
140+50	LER	2
160+00	LER	2
164+00	LER	2
165+29	R	1
166+31	L	1
166+00	LER	2
168+66	L	1
168+52	R	1
197+00	R	1
198+00	L	1
204+50	R	1
208+00	R	1
209+50	L	1
211+00	L	1
215+00	L	1
216+50	R	1
221+85	R	1
221+90	L	1
223+00	L	1
223+50	R	1
224+00	L	1
225+00	R	1
226+50	R	1
231+50.00	LER	2
232+83.9	LER	2
246+20	R	1
246+65	L	1
248+28.5 AH	LER	2
250+00	LER	2
253+50	R	1
256+00	R	1
267+00	L	1
270+20	R	1
274+00	R	1
277+00	L	1
TOTAL		77

GRAVEL OR CRUSHED ROCK SURFACING PLAN

STATION TO STATION	APPROXIMATE QUANTITY REQUIRED TONS	OVERHAUL TON MILE	SOURCE
51+00 - 96+67	2738.1	Within F.H. Limit	Pit No. 1 located in the NW 1/4 Sec. 22, T.14S, R.10W, 1790' from Sta. 61+27
96+67 - 232+04.00	8587.35	11003.7	
230+82.9 AH - 248+20.00	1127.8	3074.4	
248+20.00 AH - 270+00	1392.8	4355.4	
Sub-Total Base Course	13850.63	18433.5	
Stockpile 100' Lt. Sta. 80+00	829.5	Within F.H. Limit	Subsequently placed on road by State Forces
150' Lt. Sta. 102+50	2010.7	297.1	
50' Ft. Sta. 156+00	974.3	1104.0	
50' Ft. Sta. 208+00	1680.3	3367.9	
50' Ft. Sta. 237+00	937.9	2523.1	
Road Approaches	941.05	0.6	
Sub-Total Top Course	6573.75	7279.7	
TOTALS	20424.4	25703.2	

Quantities as shown below included in Bridge Quantities
 Sta. 153+ - 18 tons and 33.3 ton miles
 Sta. 163+ - 18 tons and 33.3 ton miles
 Sta. 164+ - 18 tons and 33.3 ton miles
 Sta. 195+ - 18 tons and 33.3 ton miles

SELECTED MATERIAL

STATION TO STATION	APPROXIMATE QUANTITY REQUIRED CU. YD.	STA. YD.	YD. MI.	SOURCE
51+00 - 106+00				Widened cuts between Stas. 92+00 & 97+00. Perhaps 6 Overhaul involved included in roadway quantities
106+00 - 114+50	863	7362	12.8	Pit No. 2 located Lt. Sta. 98+
114+50 - 151+00	3665	35605	267.3	Pit No. 3 located Lt. Sta. 139+
151+00 - 171+00	2003	10164	11	Pit No. 4 located Lt. Sta. 163+
171+00 - 192+00	2085	10231	12.3	Pit No. 5 located Lt. Sta. 178+
192+00 - 201+50	1018	3157		Pit No. 6 located Lt. Sta. 195+
201+50 - 240+00	3985	30892	531.3	Pit No. 7 located Lt. Sta. 208+
240+00 - 270+83	2995	29124	522.2	Pit No. 8 located Lt. Sta. 277+
TOTALS	16614	126755	1369	

Quantities as shown below included in Bridge Quantities
 Sta. 153+ - 20 cu. yds. 120 sta. yd.
 Sta. 163+ - 20 cu. yds. 72 sta. yd.
 Sta. 164+ - 20 cu. yds. 18 sta. yd.
 Sta. 195+ - 20 cu. yds. 476 sta. yd.

GUARD FENCE

STATION TO STATION	SIDE	LIN. FT.	STATION TO STATION	SIDE	NO.
90+25 - 92+32.5	R	212.5	50+90	R	1
92+32.5 - 98+00	L	25	51+70	L	1
98+00 - 98+25.0	R	25	55+10	L	1
98+25.0 - 101+00.7	LER	425	62+05	L	1
101+00.7 - 108+87.5	R	237.5	64+70 - 69+70	L	11
108+87.5 - 108+87.5	L	0	70+33 - B. Appr.	REL	8
108+87.5 - 110+17.5	L	312.5	71+03	REL	8
110+17.5 - 115+17.5	R	87.5	71+65 - 78+75	L	14
115+17.5 - 117+05.5	L	100	78+75 - 85+00	L	13
117+05.5 - 121+55.5	R	550	78+50 - 89+00	R	20
121+55.5 - 121+87.5	L	400	91+97	L	1
121+87.5 - 131+37.5	R	262.5	96+95	R	1
131+37.5 - 135+12.5	L	312.5	101+37	L	3
135+12.5 - 135+12.5	R	0	101+80 - 100+10	R	6
135+12.5 - 139+70.7	L	308.2	117+30	L	1
139+70.7 - 140+01.4	REL	6.6	121+50 - 120+50	L	3
140+01.4 - 141+25	R	123.6	123+50 - 124+50	R	3
141+25 - 142+37.5	L	230.7	124+50 - 125+00	L	10
142+37.5 - 143+16.8	R	129.3	143+00 - 150+80	R	7
143+16.8 - 163+72.2	REL	606.6	149+40 - 150+90	L	5
163+72.2 - 164+87.5	L	115.3	152+10 - 154+00	R	10
164+87.5 - 164+87.5	R	0	152+60 - 154+60	L	3
164+87.5 - 167+87.5	R	173.3	157+00 - 159+10	R	8
167+87.5 - 171+62.5	L	387.5	157+50 - 160+50	L	7
171+62.5 - 178+15	R	690	165+07	R	1
178+15 - 178+15	L	0	168+12	R	1
178+15 - 178+49	REL	6.8	175+97 - 176+32	L	2
178+49 - 180+87.5	R	238.5	177+35 - 177+55	L	2
180+87.5 - 182+62.5	L	413.5	183+60 - 185+70	R	3
182+62.5 - 183+00	R	62.5	182+97	R	1
183+00 - 195+23	L	98	180+60 - 190+40	L	2
195+23 - 195+23	REL	0.60	192+60	L	1
195+23 - 195+23	R	218	192+15 - 202+05	R	14
195+23 - 197+57.5	L	180.5	198+51 - 201+85	L	12
197+57.5 - 201+87.5	R	487.5	203+10 - 204+50	R	5
201+87.5 - 212+12.5	L	162.5	203+75 - 204+35	L	3
212+12.5 - 217+12.5	R	362.5	207+50 - 207+80	R	3
217+12.5 - 222+50	L	137.5	208+05 - 208+65	L	3
222+50 - 226+25	R	275	216+35 - 217+15	R	2
226+25 - 231+81.5 AH	L	225	217+32 - 217+52	R	2
231+81.5 AH - 236+41.3 AH	R	725	219+75 - 220+35	L	3
236+41.3 AH - 241+25	R	282.5	224+10 - 226+55	L	8
241+25 - 241+12.5	L	0.125	230+17	R	1
241+12.5 - 245+50	R	282.5	232+32	L	1
245+50 - 256+100	L	300	236+35 - 236+69	L	2
256+100 - 258+12.5	R	512.5	238+60 - 238+80	R	2
258+12.5 - 258+12.5	L	0	241+45	R	1
258+12.5 - 263+12.5	R	512.5	242+42	R	1
263+12.5 - 268+02.5	L	350	243+20	L	1
268+02.5 - 268+02.5	L	0	245+50	L	1
268+02.5 - 268+02.5	R	0	245+60 - 245+80	R	2
268+02.5 - 268+02.5	L	0	249+60 - 251+10	R	6
268+02.5 - 268+02.5	R	0	252+60 - 252+72	R	2
268+02.5 - 268+02.5	L	0	256+52 - 256+72	L	8
268+02.5 - 268+02.5	R	0	262+35	L	1
268+02.5 - 268+02.5	L	0	264+52 - 264+72	L	2
268+02.5 - 268+02.5	R	0	268+82	L	1
TOTALS		12975	TOTALS		238

Quantities included in Bridge Quantities

COLORADO
STATE HIGHWAY DEPARTMENT
PLAN AND PROFILE OF
FEDERAL AID PROJECT NO. 54 AR
STATE HIGHWAY NO. 4
CHAFFEE COUNTY

FED ROAD DIST. NO	STATE	F.A. PROJ NO	SHEET NO.	TOTAL SHEETS
3	COLO.	54 AR	1	

Nov 12-9-37, 300000 Pit No 2 eliminated
Nov 26-38, 1 Index of Sheets

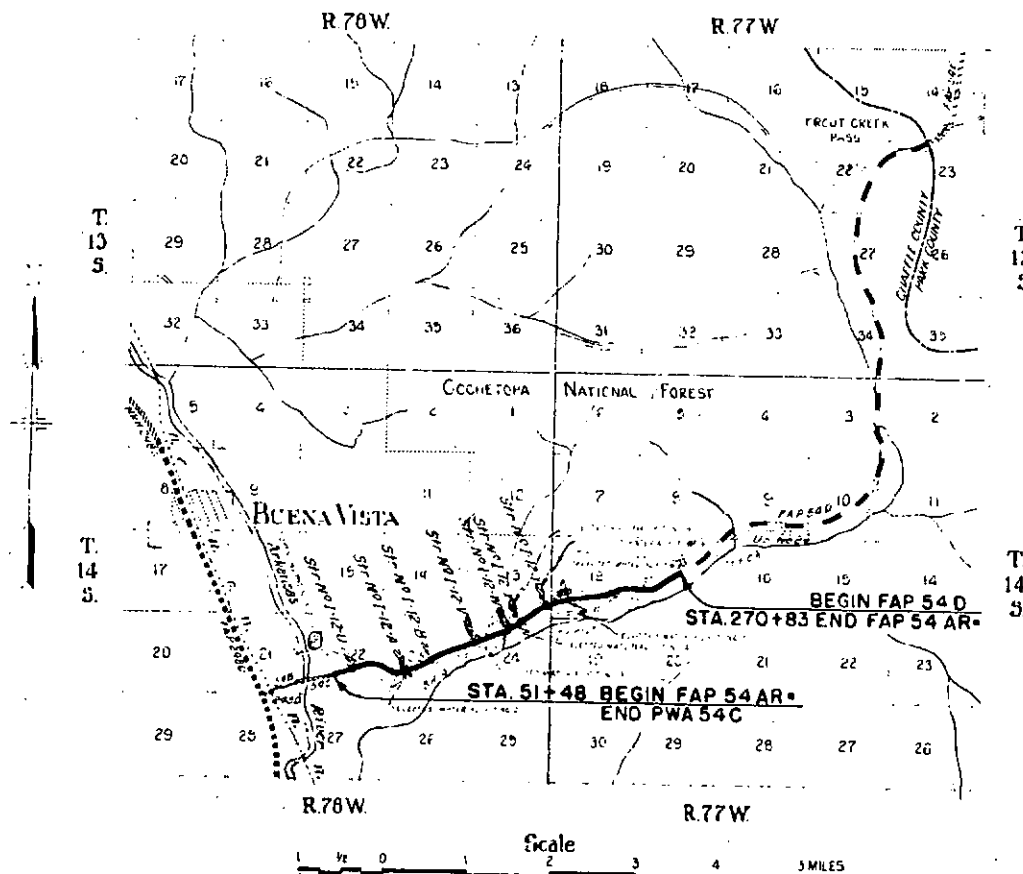
INDEX OF SHEETS

1. SKETCH MAP AND TITLE
2. TYPICAL SECTION AND SUMMARY OF APPROXIMATE QUANTITIES
3. FENCING REQUIREMENTS AND RIGHT OF WAY MARKERS
- 4 & 5. LIST OF STRUCTURES
6. DETAILS OF BRIDGE STA 70+
- 7 & 8. DETAILS OF BRIDGE STA 98+
10. DETAILS OF SPECIAL 6'x8' CONCRETE BOX CULVERT STA 106+
- 11 & 12. DETAILS OF BRIDGE STA 115+
- 15 & 16. DETAILS OF SPECIAL 8'x8' CONCRETE BOX CULVERT STA 133+
16. DETAILS OF SPECIAL TRIPLE CONCRETE BOX CULVERT STA 140+
17. DETAILS OF SPECIAL 6'x8' CONCRETE BOX CULVERT STA 158+
18. DETAILS OF SPECIAL TRIPLE CONCRETE BOX CULVERT STA 183+
19. DETAILS OF SPECIAL 4'x4' CONCRETE BOX CULVERT STA 173+
20. DETAILS OF TRIPLE CONCRETE BOX CULVERT 13' SPAN STA 177+
21. DETAILS OF TRIPLE CONCRETE BOX CULVERT 10' SPAN STA 155+
22. DETAILS OF SPECIAL DOUBLE 8'x12' CONCRETE BOX CULVERT STA 215+
- 23 & 24. DETAILS OF SPECIAL 8'x8' CONCRETE BOX CULVERT STA 231+
- 24 & 27. DETAILS OF SPECIAL CONCRETE CULVERT STA 240+
28. DETAILS OF SPECIAL 6'x6' CONCRETE BOX CULVERT STA 267+
29. CONCRETE BOX CULVERTS
30. CONCRETE BOX CULVERTS
31. STANDARD HEADWALLS FOR CORRUGATED METAL PIPE CULVERTS
32. STANDARD TIMBER GUARD POSTS
33. STANDARD SEMI-RIGID METAL PLATE GUARD FENCE
34. STANDARD FLEXIBLE METAL PLATE GUARD FENCE
35. STANDARD WIRE FENCES WITH STIFF POSTS AND MARKER POSTS
36. STANDARD STRUCTURE NUMBER LETTERING
37. STANDARD METHODS FOR SUPERELEVATION AND WIDENING OF CURVES
38. TYPICAL SIDE APPROACH ROADS/ROADWAY CONSTRUCTION TRAFFIC SIGNS
39. PLAN AND PROFILE
- 47 & 48. CROSS SECTIONS

M-III-A
M-III-A

M-103-D
M-104-D
M-102-E
M-19-A
M-21-B
M-22-A
M-27-A
M-10-A
M-1-B
M-2-B

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 } 22,098.0 FT. = 4.195 MILES
 NET LENGTH OF PROJECT }



CONVENTIONAL SIGNS

CENTER LINE OF SURVEY
SECTION LINES
ONE QUARTER SECTION LINES
RIGHT OF WAY LINES
FENCES
GUARD FENCE
TELEPHONE POLES

NOTE
Bidders on this project ~~went over~~ the plan details
with one of the following field representatives of this department.
Mr. W. A. Whitney, Division Engineer, Salida, Colo.
Mr. Edward Oviatt, Resident Engineer, Buena Vista, Colo.

RECOMMENDED FOR APPROVAL 14-22-37
J. E. Lee
 ASSISTANT ENGINEER

APPROVED
Chris D. Vail
STATE HIGHWAY ENGINEER
RECOMMENDED FOR APPROVAL

DIST. ENG. BUREAU PUBLIC ROADS
RECOMMENDED FOR APPROVAL

CHIEF ENG. BUREAU PUBLIC ROADS
APPROVED

DIRECTOR BUREAU PUBLIC ROADS

Note: All pole lines encroaching on construction were moved by owners. Fencing requirements, gates, and ROW markers are tabulated on Sheet No. 3. Guard Post & Metal Plate Guard Fence requirements tabulated on Sheet No. 3.

Sta 51.94 - Reg'd 4' x 3' x 38' Concr Box Culvert & Cu Yds Uncl Excav for Cutler Channel.

Sta 51.43 - Reg'd 1' Project Marker

Sta 55.70 to 61.12 - Reg'd intercepting ditch Lt.

Sta 62.00 to 70.35 - Reg'd intercepting ditch Lt.

Sta 75+90 - Reg'd 30' x 112' C.M.P. cross culvert (Skew 44°) & Uncl Excav for inlet & 20 cu yds Loose Rock Rip rap for Outlet. Rev. as Constructed - 5-6-39 - KLR.

Sta 71.20 to 76.22 - Reg'd intercepting ditch Lt. Sta 79.00 - Reg'd cu yds Embank for Road approaches Rt & Lt & 18' x 46' C.M.P. Side drain LT (Road approaches served as detour crossing for present road during construction).

Sta 70+33 to 71+03.5 - Reg'd 3 spans @ 23'-0" treated timber pile bridge & cu yds Uncl Excav for Channel Improvement (For details see Sheet No. 6).

(QUANTITIES IN SUMMARY)

Δ 45°43'30" R
D 3°20'
T 805.3'
L 13244'
R 19104'

Sta 73+67 - Reg'd 30' x 86' C.M.P. cross culvert (Sk. 57°) & Uncl Excav for inlet & outlet channels.

Sta 78+00 to 78+00 - Reg'd 37 cu yds Loose Rock Rip rap in Side Ditch.

Sta 54+29 - Reg'd Cu Yds Embankment for Road Approaches Rt & Lt.

Sta 51+96 - Reg'd 24' x 54' C.M.P. Cross Culvert & Ditches (Sk 72°)

Sta 55+00 - Reg'd 2' x 50' C.M.P. cross culvert (Skew 76°) & Cu Yds Uncl Excav for Ditches.

Sta 54+35 - Reg'd 24' x 46' C.M.P. Cross Culvert (Sk 80°) & Inlet Channel.

STRUCTURE NOTES FOR BRIDGE STA. 70+33 TO STA. 71+03.5 STRUCTURE NO. I-12-U

Present Structure:

Span
Clear roadway
Clear waterway
Type of Superstructure
Type of Substructure
Requirements as to removal

Stream Data:

Drainage area in Sq. Miles - 1 1/2
Velocity during high water - high
Elevation of
Max. high water - 722.5 Low water
Normal stage - Dry Streambed
Drift - Sand
Scour - Some

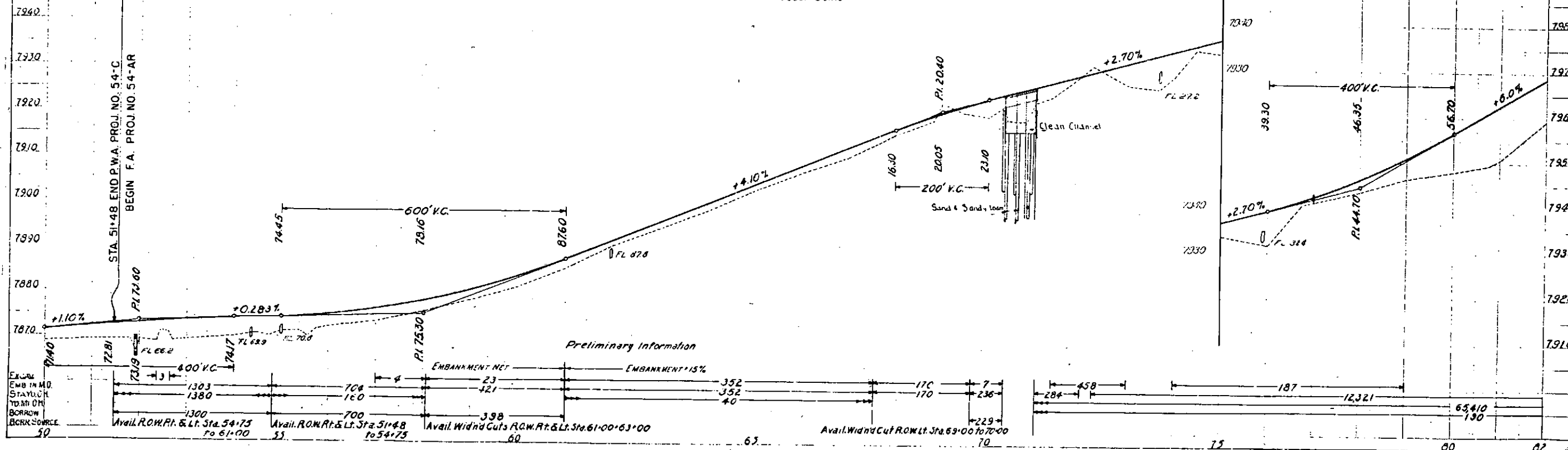
Proposed Structure:

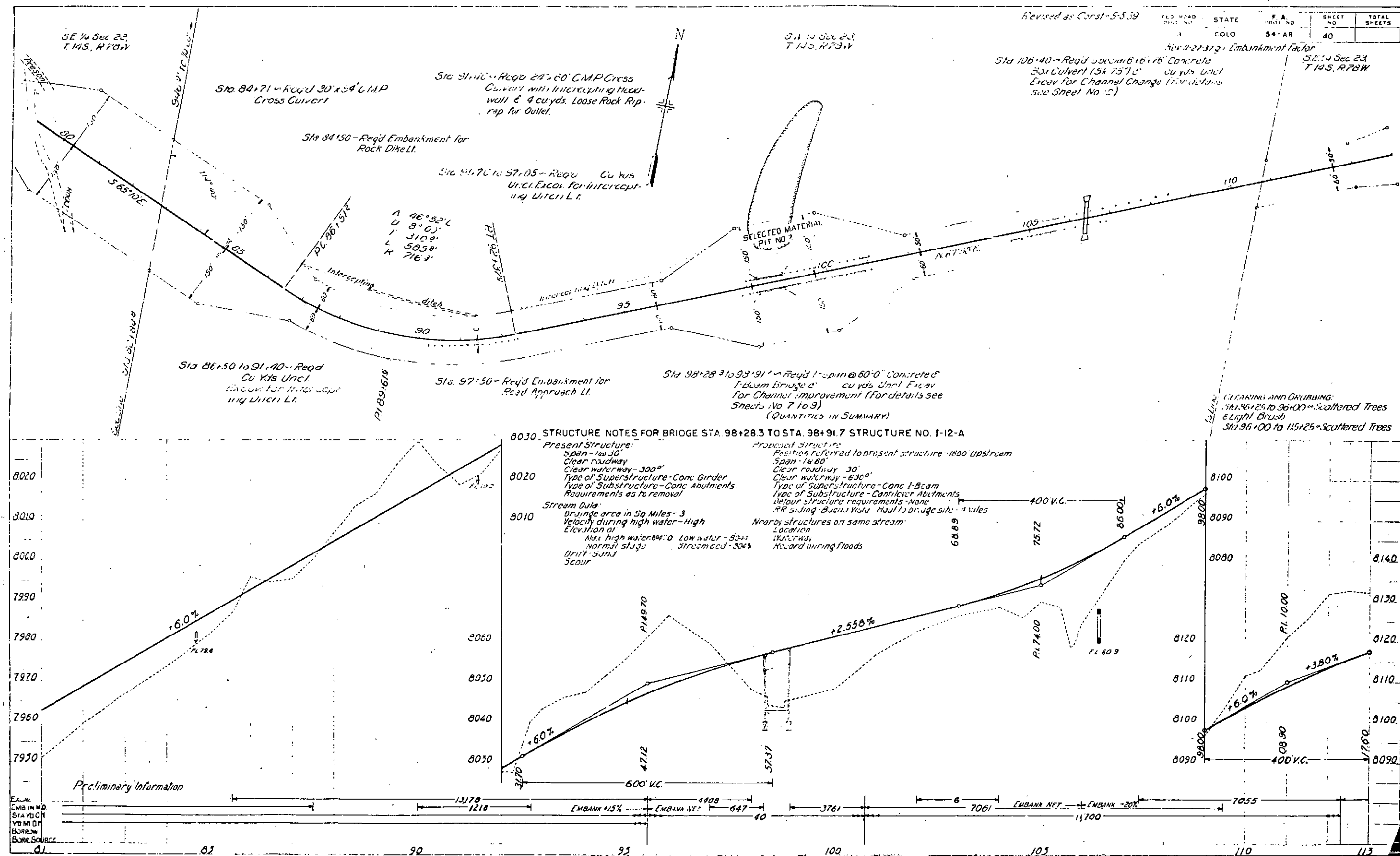
Position referred to present structure
Span - 3 @ 23'
Clear roadway - 29'-0"
Clear waterway - 35'-0"
Type of Superstructure - treated timber Bridge
Type of Substructure - treated Piles
Detour Structure requirements - None
RR siding - Bucna Vista Haul to bridge site - 3 Miles

Nearby structures on same stream:

Location
Waterway
Record during floods
7116'

Sta 80+40 - Reg'd Remove 24' x 30' C.M.P. RT





NE 1/4 Sec 23
T.14S. R.73W

Sta 115+20 to 116+03.4 - Reqd. 1-span 80'-0" Steel
Truss Bridge (For details see Sheets No 11 to 14a) & channel improvement.
(QUANTITIES IN SUMMARY)

Sta 120+20 - Reqd. 30" x 88" C.M.P. Cross Culvert
(54.64')

Rev 1-26-38 g/l Length of inlet wingwalls
on CBC Sta 133+00.3 Bridge Sta 115+
Revised as Const. 5-8-39 - KLR

Sta 133+10 - Reqd. special 30" x 88" Concrete
Box Culvert & cu yds Undr Excav
for ditches (For details see Sheet No 15 & 15a)

Sta 134+71 - Reqd. 24" x 60" C.M.P.
Cross Culvert

FED. ROAD DIST. NO.	STATE	F. A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	94-AR	41	

Rev 11-27-37 g/l Embankment Factor
N.W. 1/4 Sec 24
T.14S. R.73W

Sta 143+00 to 147+15 - Reqd.
Cu yds Undr Excav for
Intercepting Ditch Lt.

Sta 139+70 to 140+01.5 - Reqd.
special 30" x 88" Triple
Concrete Box Culvert (For
details see Sheet No 16)
& cu yds Undr Excav
for channel improvement
(QUANTITIES IN SUMMARY)

STRUCTURE NOTES FOR BRIDGE STA. 115+20 TO 116+03.4 STRUCTURE NO. I-12-B

Present Structure
Span - 80'-0"
Clear roadway
Clear waterway
Type of Superstructure - Conc Girder
Type of Substructure - Conc Abutls
Requirements as removal

Proposed Structure
Position referred to present structure - 300' downstream
Span - 80'-0"
Clear roadway - 30'-0"
Clear waterway - 176'-0"
Type of Superstructure - Steel Truss T83A
Type of Substructure - Counterforted Abutments
Detour structure requirements - None
RR siding - Buena Vista Haul to bridge site - 4 miles

Stream Data
Drainage area in Sq. Miles - 10
Velocity during high water
Elevation of:
Max. high water - 86.3 Low water
Normal stage
Drift - some
Scour - light

Nearby structures on same stream.
Location
Waterway
Record during floods

Sta 134+71 - Reqd. 24" x 60" C.M.P.
Cross Culvert & cu yds
Undr. Excav for inlet ditch.

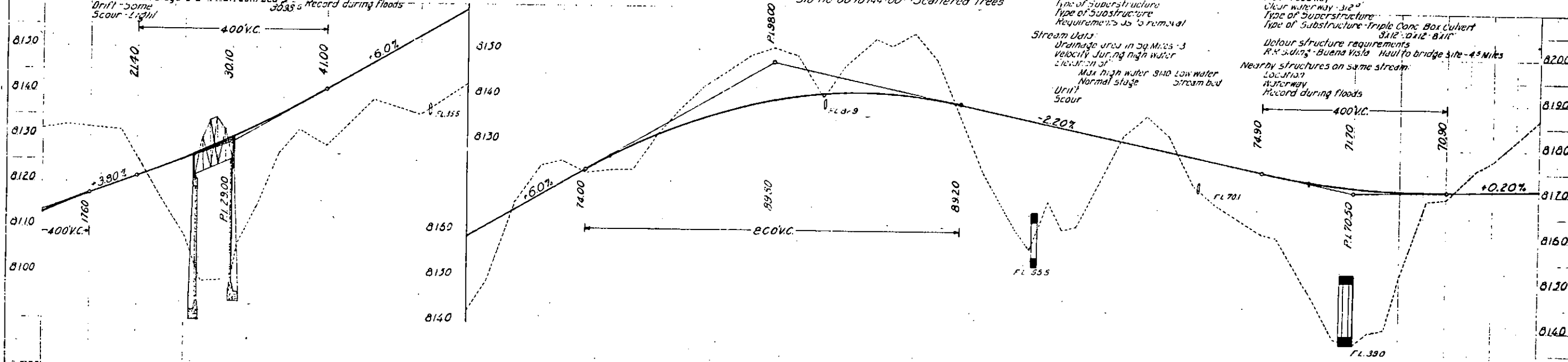
STRUCTURE NOTES FOR TRIPLE CONC. BOX CULVERT STA. 139+70.65 TO 140+01.35 STRUCTURE NO. I-12-V

Present Structure
Span
Clear roadway
Clear waterway
Type of Superstructure
Type of Substructure
Requirements as removal

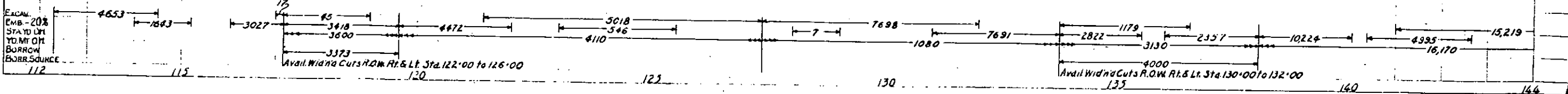
Proposed Structure
Position referred to present structure
Span
Clear roadway
Clear waterway
Type of Superstructure - Triple Conc. Box Culvert
Type of Substructure - 3x12' x 12' x 8'11"
Detour structure requirements
RR siding - Buena Vista Haul to bridge site - 4.5 miles

Stream Data
Drainage area in Sq. Miles - 3
Velocity during high water
Elevation of:
Max. high water - 84.0 Low water
Normal stage
Drift - some
Scour

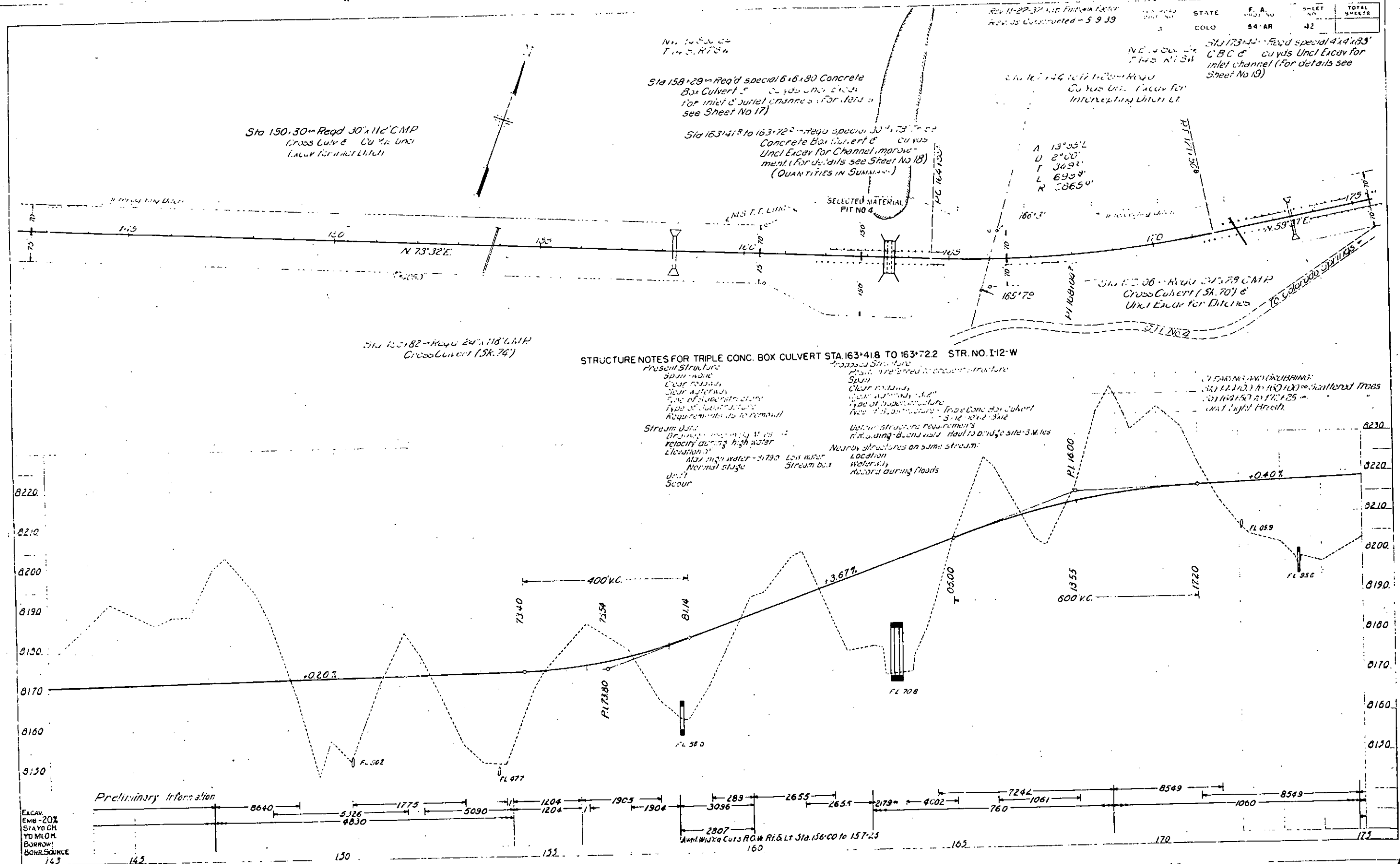
Nearby structures on same stream.
Location
Waterway
Record during floods



Preliminary Information

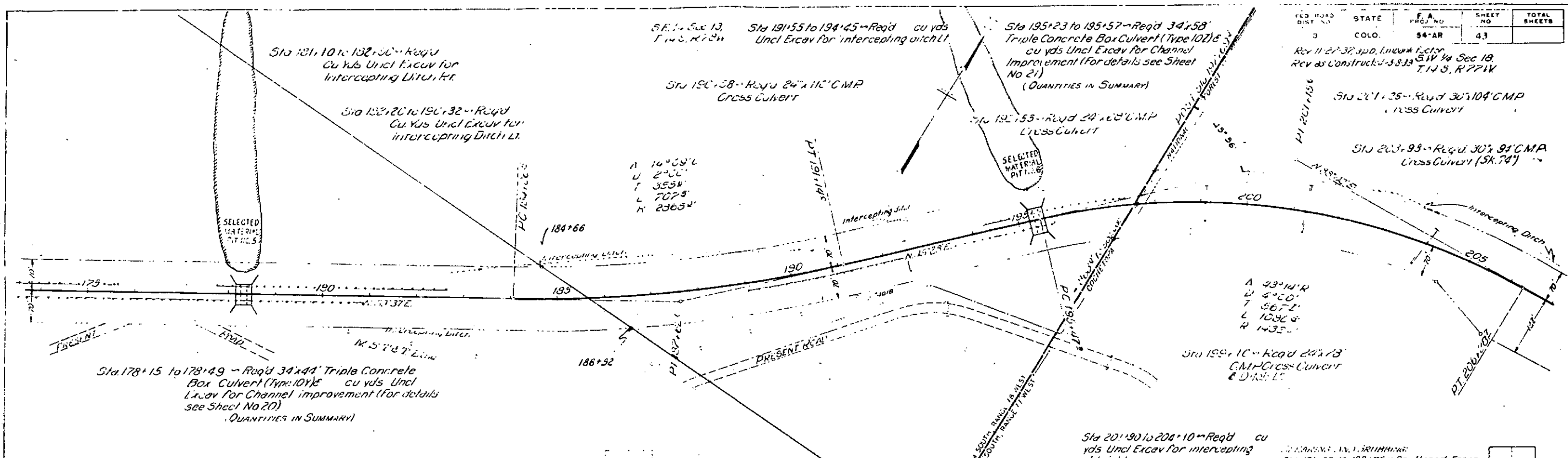


REV. 11-27-37, 11-27-38, 11-27-39	STATE	F. A.	SHEET	TOTAL
REV. 35 Constructed - 5 9 39	COLO.	54-AR	42	SHEETS



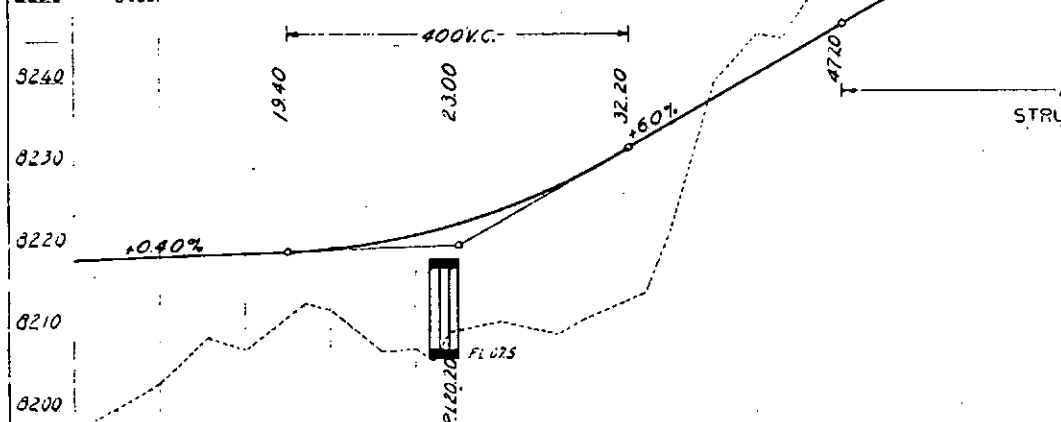
FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	54-AR	43	

Rev. 11-27-32, app. L. H. W. R. Sec. 18.
Rev. as Constructed 5.8.33 S.W. 1/4 Sec. 18.
T. 14 S., R. 77 W.



STRUCTURE NOTES FOR TRIPLE CONC. BOX CULVERT STA. 178+15 TO 178+49 STR. NO. I-12-X NE 1/4 Sec 24 T. 14 S., R. 78 W

Present Structure	Proposed Structure
Span: None	Position referred to present structure
Clear roadway	Span
Clear waterway	Clear roadway
Type of Superstructure	Clear waterway - 300'
Type of Substructure	Type of Superstructure - Fill
Requirements as to removal	Type of Substructure - Std. M III-A
Stream Data	Detour structure requirements
Drainage area in Sq. Miles - 3	RR siding - Buena Vista - Haul to bridge site - 5 Miles
Velocity during high water	Nearby structures on same stream:
Elevation of	Location
Max. high water - 8212.0	Waterway
Normal stage	Stream bed Record during floods
Drift	8206'
Scour	



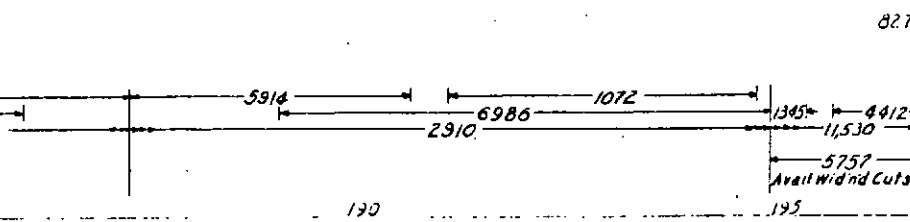
Preliminary Information

EXCAV. EMB - 20%	93
STAYD. ON	4655
YOUNG. ON	3540
BORROW	4562

Avail. Width Cuts R.O.W. R.L. & Lt. Sta. 170+00 to 171+00

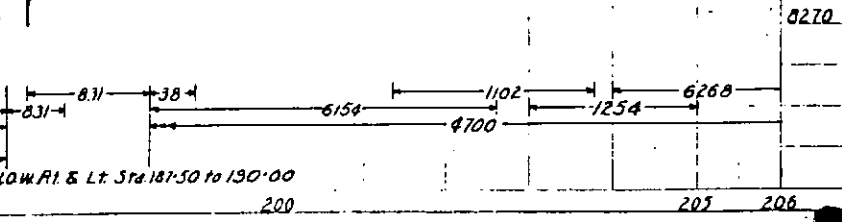
STRUCTURE NOTES FOR TRIPLE CONC. BOX CULVERT STA. 195+23 TO 195+57 STRUCTURE NO. I-12-Y

Present Structure	Proposed Structure
Span	Position referred to present structure
Clear roadway	Span
Clear waterway	Clear roadway
Type of Superstructure	Clear waterway - 300'
Type of Substructure	Type of Superstructure - Triple 10' x 10' Conc. Box Culvert
Requirements as to removal	Type of Substructure - Std. M III-A
Stream Data	Detour structure requirements
Drainage area in Sq. Miles - 6	RR siding - Buena Vista - Haul to bridge site - 5.5 Miles
Velocity during high water	Nearby structures on same stream:
Elevation of	Location
Max. high water - Low water	Waterway
Normal stage - Dry Stream bed - 8252	Record during floods
Drift	
Scour	



STRUCTURE NOTES FOR TRIPLE CONC. BOX CULVERT STA. 201+25 TO 201+57 STRUCTURE NO. I-12-Z

Present Structure	Proposed Structure
Span	Position referred to present structure
Clear roadway	Span
Clear waterway	Clear roadway
Type of Superstructure	Clear waterway - 300'
Type of Substructure	Type of Superstructure - Triple 10' x 10' Conc. Box Culvert
Requirements as to removal	Type of Substructure - Std. M III-A
Stream Data	Detour structure requirements
Drainage area in Sq. Miles - 6	RR siding - Buena Vista - Haul to bridge site - 5.5 Miles
Velocity during high water	Nearby structures on same stream:
Elevation of	Location
Max. high water - Low water	Waterway
Normal stage - Dry Stream bed - 8252	Record during floods
Drift	
Scour	

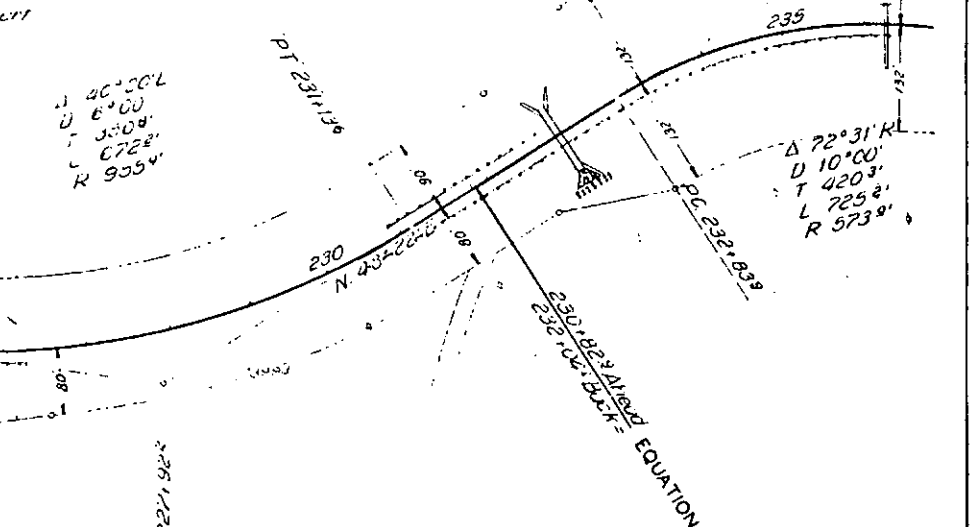


Preliminary Information

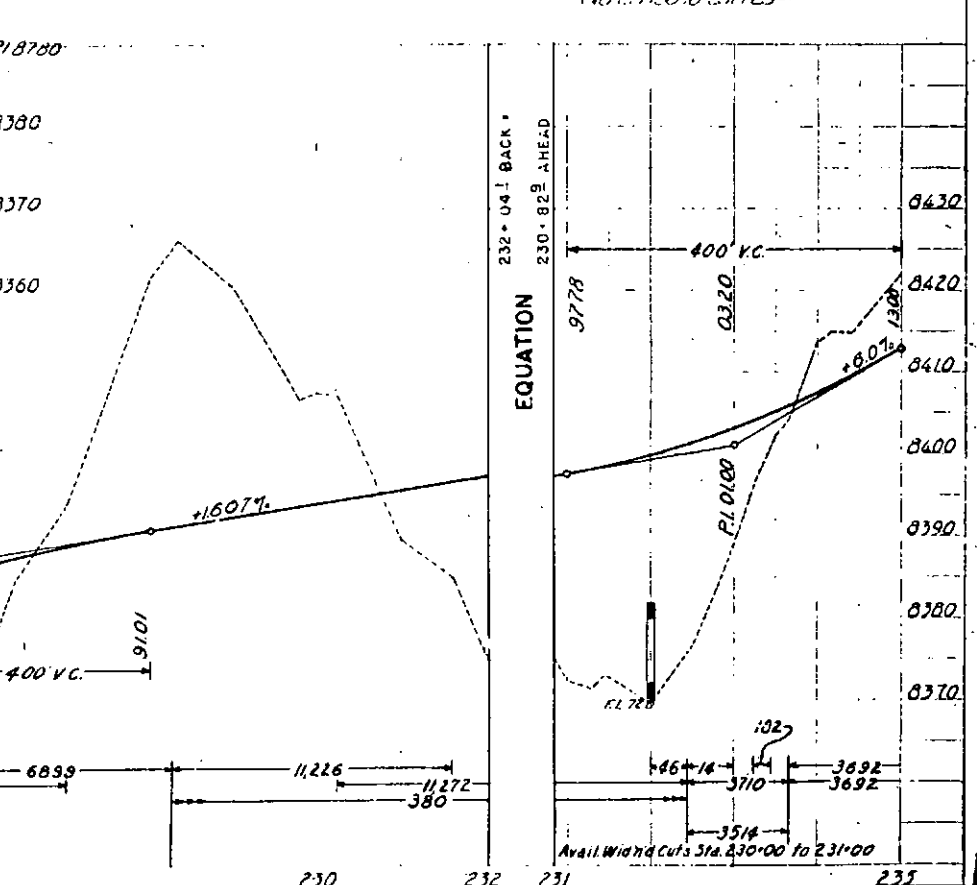
EXCAV. EMB - 20%	93
STAYD. ON	4655
YOUNG. ON	3540
BORROW	4562

Avail. Width Cuts R.O.W. R.L. & Lt. Sta. 187+50 to 190+00

Rev 12-3-37 Q1 Binder
 Material PIT eliminated
 Rev 1-26-38 Q1 Length of inlet
 winged 5 on C.B.C. Sta 231+30
 Revised as Constructed - 5-10-39
 Sta 232+00 - Reg'd special 8'x18' C.B.C. with Grouted PI 232+02R
 Rubble Sloped Ditch Pav (24' Th) rock filled Bulkhead
 (Det Sh No 23 & 15a) cu yds Uncl Excav for inlet
 Rev 11-27-37, spec. End Factor
 Sta 224+23 - Reg'd 24" x 16" C.M.P. ditch also reg'd rem 36" x 30" C.M.P. R.



Sta 205+50 to 208+00 - Reg'd Cu Yds Uncl Excav for Intercepting Ditch Lt
 Sta 208+65 to 211+40 - Reg'd Cu Yds Uncl Excav for Intercepting Ditch Lt
 Sta 215+90 - Reg'd special double 8'x12'x10' C.B.C. Box Culv (SK 70) & cu yds Uncl Excav for outlet channel (For details see Sheet No 22)
 Sta 219+95 - Reg'd 24" x 18" C.M.P. Cross Culvert
 Sta 221+73 - Reg'd 30" x 16" C.M.P. Cross Culvert (SK 62)
 Sta 225+79 - Reg'd 24" x 16" C.M.P. Cross Culvert (SK 51)
 Sta 228+00 - Reg'd 36" x 64" C.M.P. Cross Culvert (SK 60)
 Sta 230+82.3 AHEAD EQUATION
 CLEANING AND GRUBBING Sta 206+00 to 215+50 - Scattered Trees
 (Det Sh No 23 & 15a)



Excav. Emb-20% STA VOL. H. YOMLOH BORROW BORR SOURCE
 Preliminary Information
 Avail. Width Cuts R.O.W. R.R. & L.T. Sta 217+50 to 219+00
 Avail. Width Cuts Sta 230+00 to 231+00

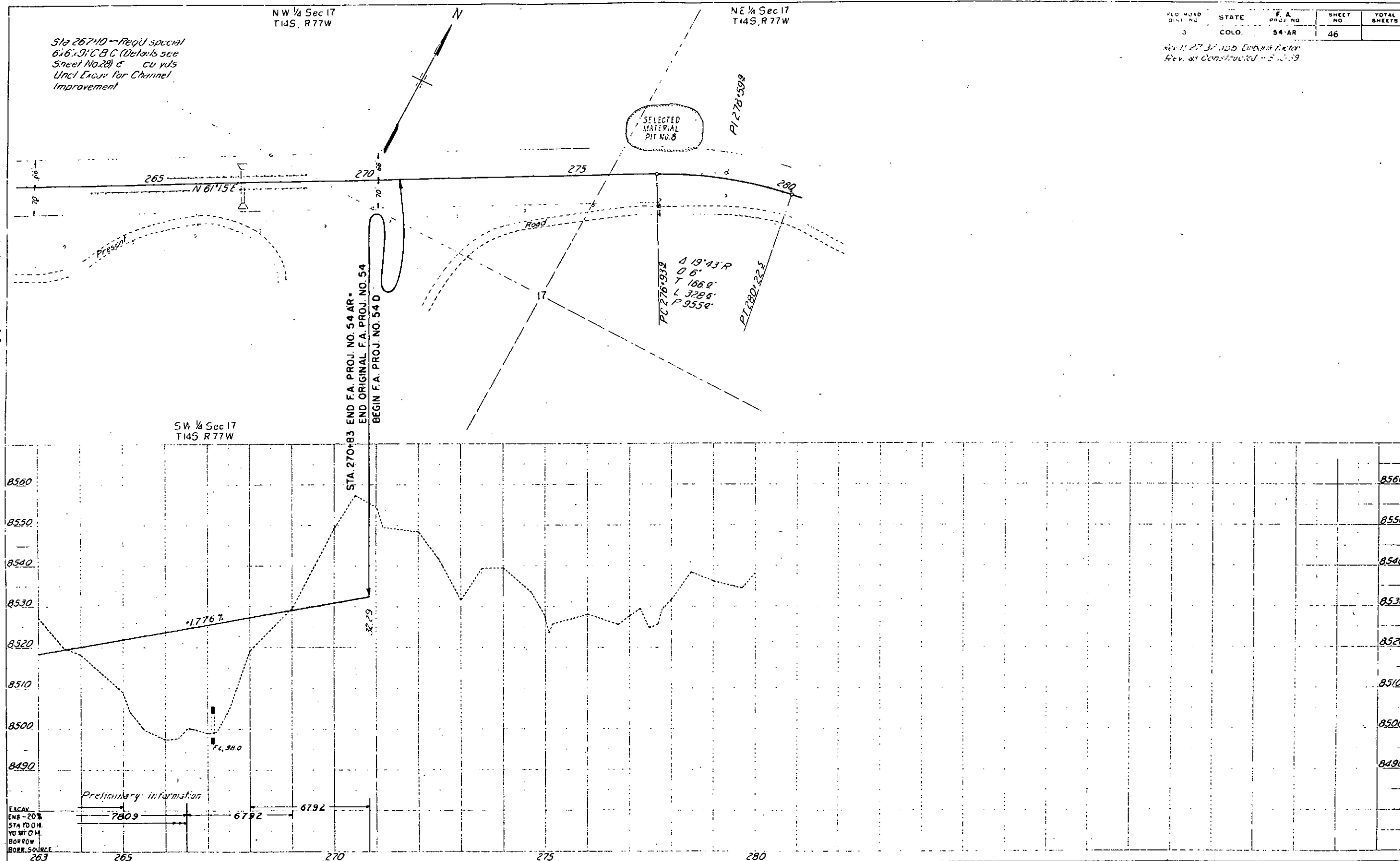
Sta 267+10 - Reqd special
6x6x36" C.C. (Details see
Sheet No. 28) & cu yds
Uncl Excut for Channel
Improvement

NW 1/4 Sec 17
T14S, R77W

NE 1/4 Sec 17
T14S, R77W

FILE NO.	STATE	F. A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	54-AR	46	

Rev. 11-27-37 JDD E.D. H. R. R.
Rev. 11-27-37 JDD E.D. H. R. R.



P.W.A. PROJ.	SHEET NO.	TOTAL SHEETS
NO. 54C	1	1

COLORADO STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED

P.W.A. DOCKET COLO. 804-D
PROJECT NO. 54-C
STATE HIGHWAY NO. 4
CHAFFEE COUNTY

INDEX OF SHEETS

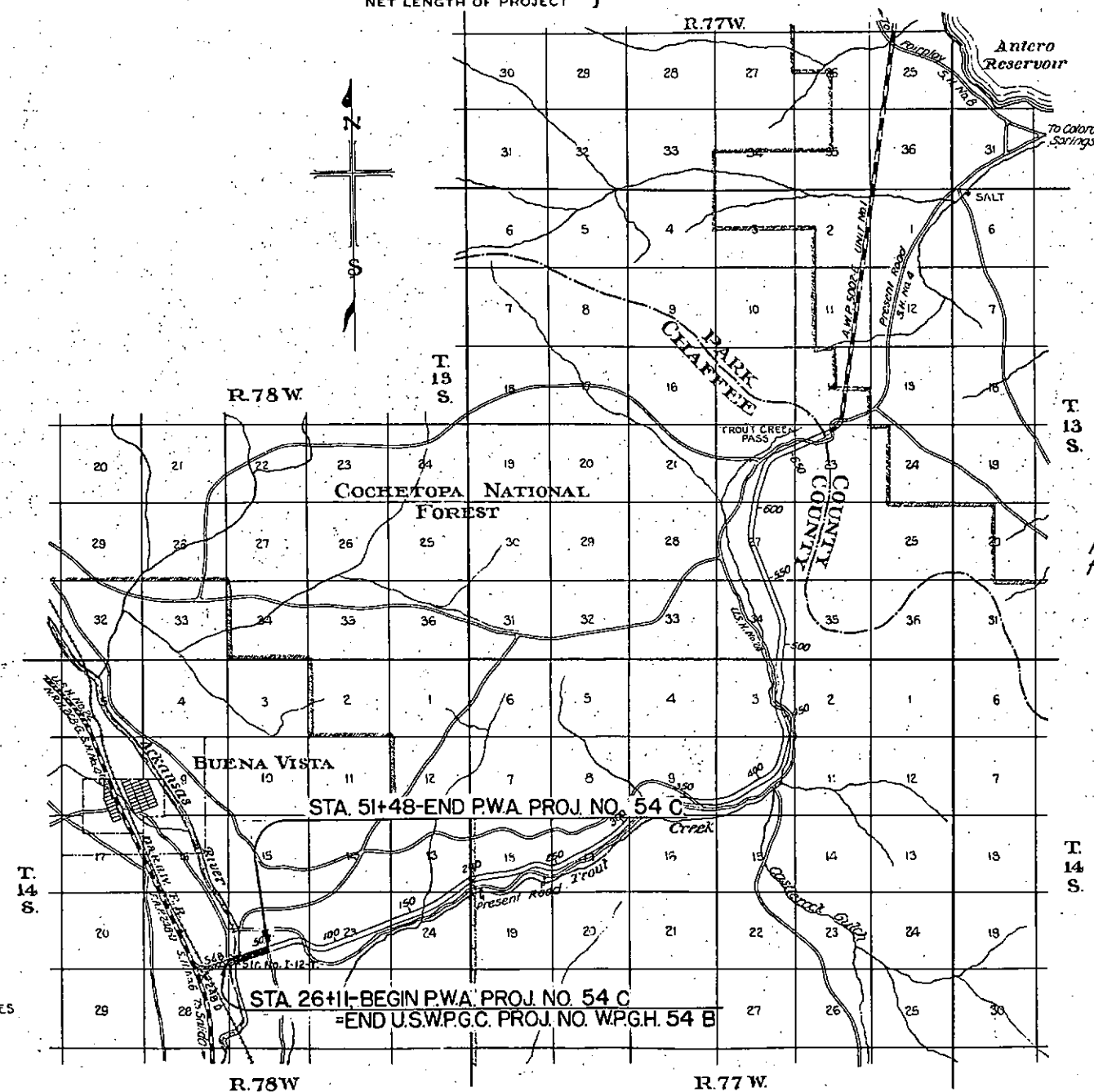
1. SKETCH MAP AND TITLE
2. TYPICAL SECTIONS
3. LIST OF STRUCTURES & SUMMARY OF APPROXIMATE QUANTITIES
11. DETAILS OF BRIDGE, STA. 39+
12. STANDARD NAME PLATE
13. STANDARD HEADWALLS FOR C.M.P. CULVERTS.
14. STANDARD SEMI RIGID METAL PLATE GUARD FENCE
15. STANDARD FLEXIBLE METAL PLATE GUARD FENCE
16. STANDARD WIRE FENCES WITH STEEL POSTS & MARKER POSTS
17. STANDARD STRUCTURE NUMBER LETTERING
18. TYPICAL SIDE APPROACH ROADS/ROADWAY CONSTRUCTION TRAFFIC SIGNS
19. PLAN AND PROFILE
20. CROSS SECTIONS.

M 6 D
M 102 E
M 21 A
M 22 A
M 27 A
M 10 A
M 2 BX

CONVENTIONAL SIGNS

CENTER LINE OF SURVEY ———— 35
RIGHT OF WAY LINE ————
SECTION LINE ————
ONE QUARTER SECTION LINE ————
FENCE ————
POLE LINES ————

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 } 2537.0 FEET = 0.480 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 the department.
Mr. Ernest Montgomery, Division Engineer, Colorado Springs
Mr. Ed. W. Oviatt, Resident Engineer, Buena Vista.

Scale
1 1/2 2 3 4 5 MILES

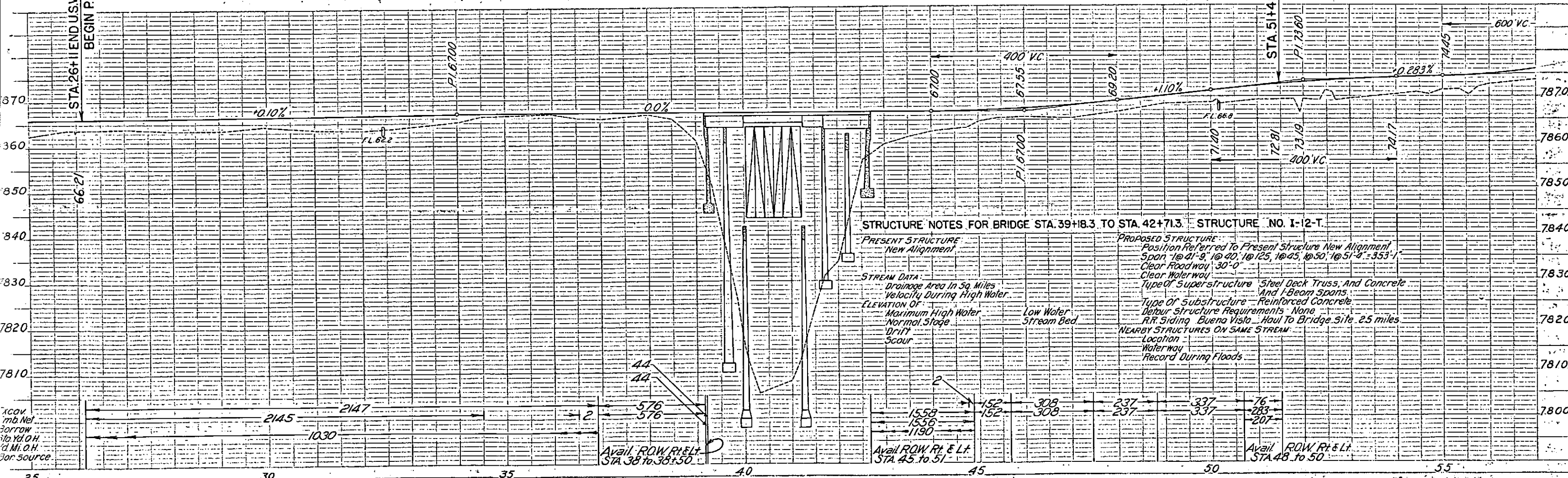
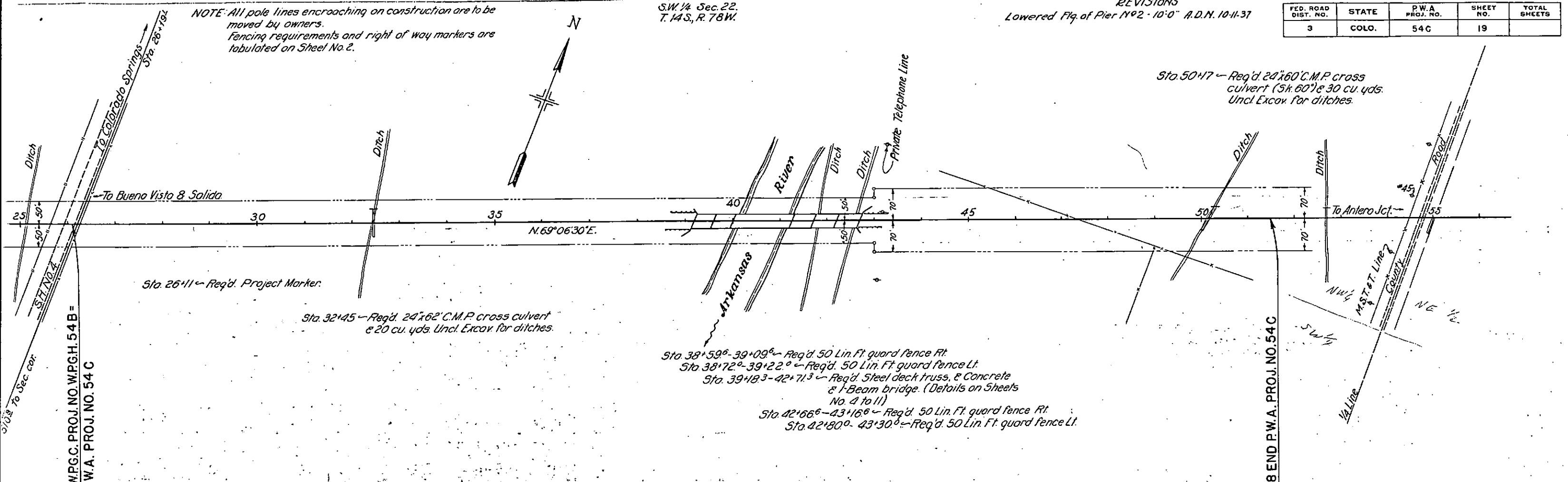
RECOMMENDED FOR APPROVAL 6/8/37
William J. McLaughlin
ASSISTANT ENGINEER
APPROVED
Chas. D. Fair
STATE HIGHWAY ENGINEER
RECOMMENDED FOR APPROVAL
DIST. ENG. BUREAU PUBLIC ROADS
RECOMMENDED FOR APPROVAL
CHIEF ENG. BUREAU PUBLIC ROADS
APPROVED
DIRECTOR BUREAU PUBLIC ROADS

NOTE: All pole lines encroaching on construction are to be moved by owners. Fencing requirements and right of way markers are tabulated on Sheet No. 2.

S.W. 1/4 Sec. 22.
T. 14S, R. 78W.

REVISIONS
Lowered Flg of Pier N92-10-0" A.D.N. 10-11-37

FED. ROAD DIST. NO.	STATE	P.W.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	54C	19	



COLORADO STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED COMBINED U.S.W.P. GRADE CROSSING PROJECT NO. W.P.G.H. 248 D AND U.S.W.P. GRADE CROSSING PROJECT NO. W.P.G.H. 54 B STATE HIGHWAY NO. 4 CHAFFEE COUNTY

INDEX OF SHEETS

W.P.G.H. 248 D

1. SKETCH MAP AND TITLE
2. TYPICAL SECTION AND SUMMARY OF QUANTITIES
3. LIST OF STRUCTURES
9. STANDARD HEADWALLS FOR C.M.P. CULVERTS
11. STANDARD SEMI RIGID METAL PLATE GUARD FENCE
12. STANDARD FLEXIBLE METAL PLATE GUARD FENCE
13. STANDARD WIRE FENCES WITH STEEL POSTS & MARKER POSTS
15. STANDARD METHODS FOR SUPERELEVATION & WIDENING OF CURVES
16. TYPICAL SIDE APPROACH ROADS/ROADWAY CONSTRUCTION TRAFFIC SIGNS
17. PLAN AND PROFILE
- 9-27. CROSS SECTIONS

M 102 E
M 21 A
M 22 A
M 27 A
M 1 B
M 2 B

W.P.G.H. 54 B

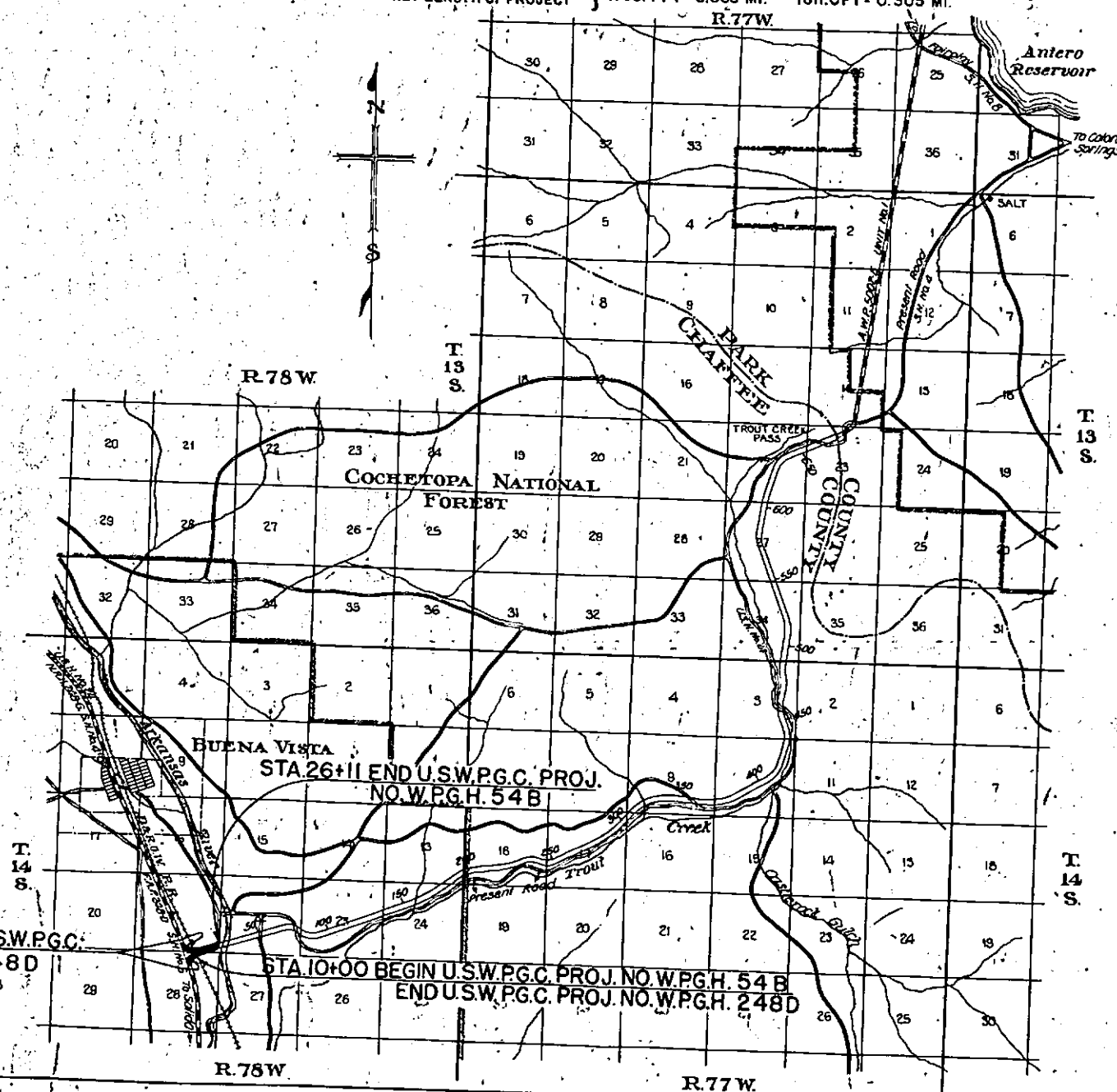
1. SKETCH MAP AND TITLE
2. TYPICAL SECTION AND SUMMARY OF QUANTITIES
3. LIST OF STRUCTURES
- 4-6. DETAILS OF RAILROAD OVERPASS STA. 11+
7. DETAILS OF DIVISION BOX STA. 11+
8. STANDARD NAME PLATE
9. STANDARD HEADWALLS FOR C.M.P. CULVERTS
10. STANDARD TIMBER GUARD POSTS
11. STANDARD SEMI RIGID METAL PLATE GUARD FENCE
12. STANDARD FLEXIBLE METAL PLATE GUARD FENCE
13. STANDARD WIRE FENCES WITH STEEL POSTS & MARKER POSTS
14. STANDARD STRUCTURE NUMBER LETTERING
15. STANDARD METHODS FOR SUPERELEVATION & WIDENING OF CURVES
16. TYPICAL SIDE APPROACH ROADS/ROADWAY CONSTRUCTION TRAFFIC SIGNS
18. PLAN AND PROFILE
34. CROSS SECTIONS

M 6 C
M 102 E
M 19 A
M 21 A
M 22 A
M 27 A
M 10 A
M 1 B
M 2 B

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 } W.P.G.H. 248 D W.P.G.H. 54 B
NET LENGTH OF PROJECT } 1760.4 FT. = 0.333 MI. 1611.0 FT. = 0.305 MI.

CONVENTIONAL SIGNS

CENTER LINE OF SURVEY _____ 10
SECTION LINE _____
ONE QUARTER SECTION LINE _____
RIGHT OF WAY LINE _____
FENCE _____
RAILROAD _____
POLE LINE _____
PRESENT ROAD _____



NOTE

It is recommended that bidders on this project go over the plan details with one of the following field representatives of the department.

Mr. Ernest Montgomery, Division Engineer, Colorado Springs
Mr. Ed. W. Oviatt, Resident Engineer, Buena Vista.

RECOMMENDED FOR APPROVAL
J. E. Maloney, Jr., Division Engineer
ASSISTANT ENGINEER

APPROVED
Chas. D. Vail, State Highway Engineer

RECOMMENDED FOR APPROVAL

DIST. ENG. BUREAU PUBLIC ROADS
RECOMMENDED FOR APPROVAL

CHIEF ENG. BUREAU PUBLIC ROADS
APPROVED

DIRECTOR BUREAU PUBLIC ROADS

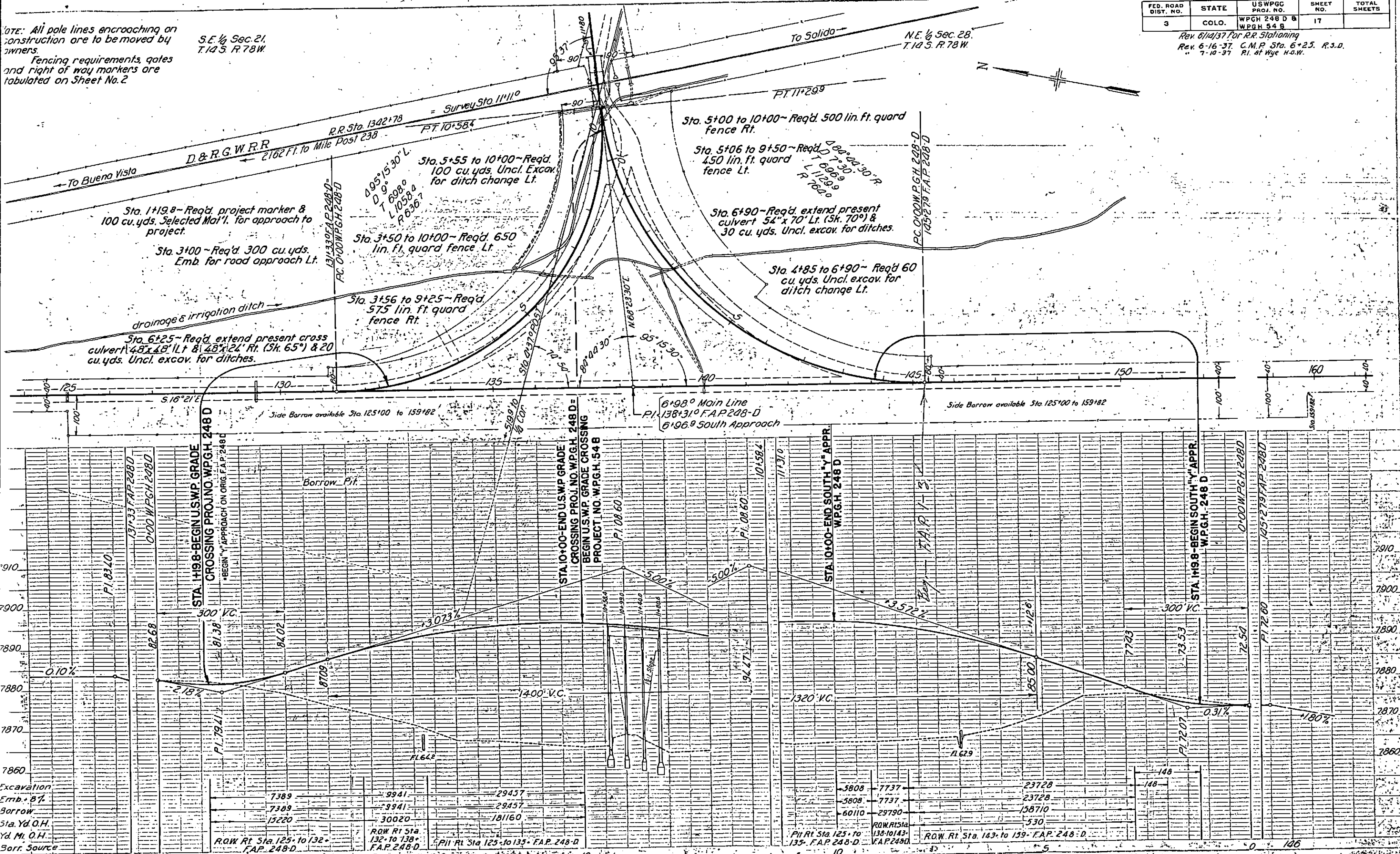
Scale
0 1 2 3 4 5 MILES
STA. 1+9.8 BEGIN U.S.W.P.G.C. PROJ. NO. W.P.G.H. 248 D
STA. 10+00 BEGIN U.S.W.P.G.C. PROJ. NO. W.P.G.H. 54 B
END U.S.W.P.G.C. PROJ. NO. W.P.G.H. 248 D

S.E. 1/4 Sec. 21.
T.14S. R.78W.

Fencing requirements, gates and right of way markers are tabulated on Sheet No. 2

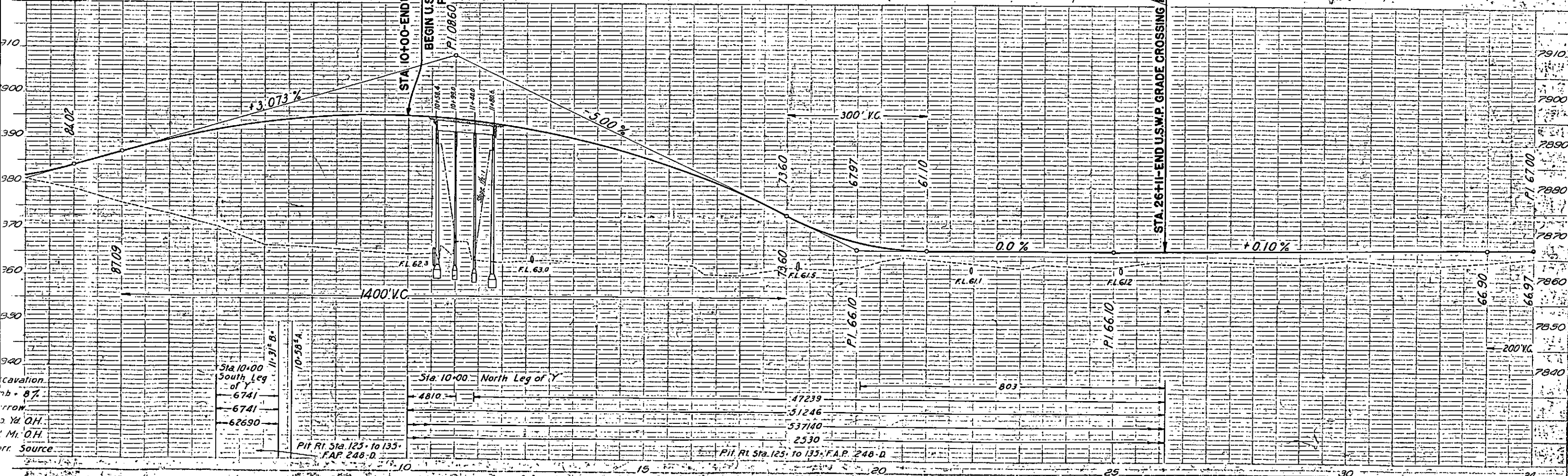
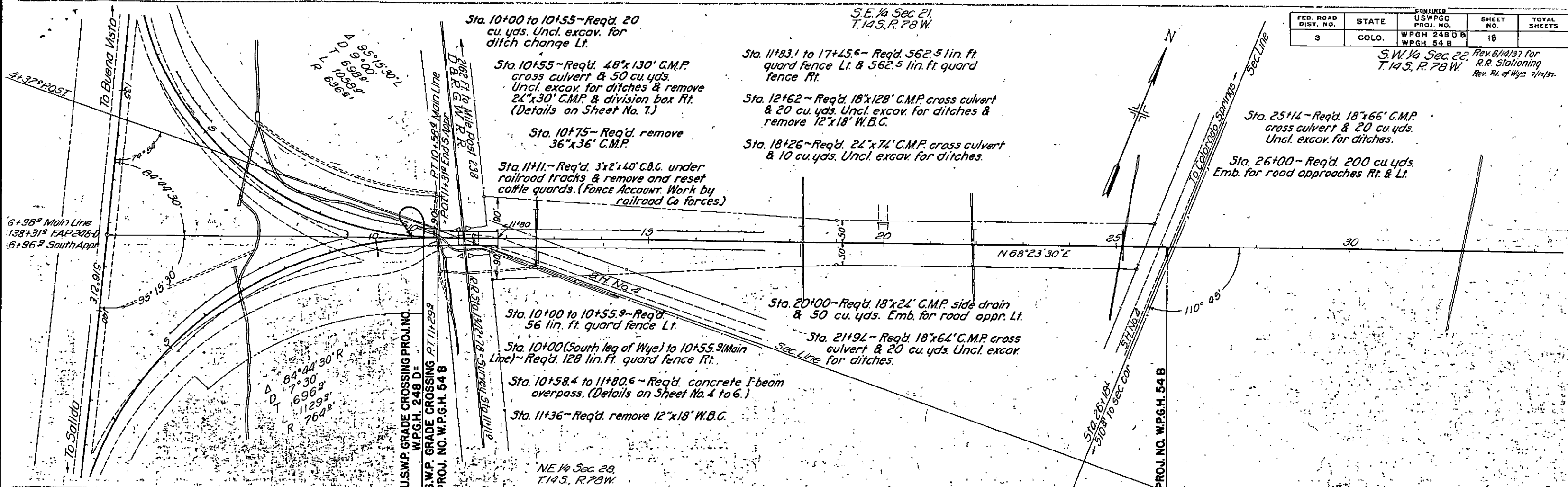
COMBINED				
FED. ROAD DIST. NO.	STATE	USWPGC PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	WPGH 248 D & WPGH 54 B	17	

Rev. 6/14/37 for R.R. Stationing
Rev. 6-16-37. C.M.P. Sta. 6+25. R.J.D.
" 7-10-37 P.I. at Wye H.O.W.



FED. ROAD DIST. NO.	STATE	COMBINED USWPGC PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	WPGH 248 D B WPGH 54 B	18	

S.W. 1/4 Sec. 22, T.14S, R.78W.
Rev. 6/14/37 for R.R. Stationing
Rev. P.I. of Wye 7/10/37.



MICROFILMED

INDEX OF SHEETS

- SHEET No. 1. SKETCH MAP AND TITLE
2. TYPICAL SECTION AND SUMMARY OF APPROXIMATE QUANTITIES
3. FENCING REQUIREMENTS AND RIGHT OF WAY MARKERS
4 & 5. LIST OF STRUCTURES
6. DETAILS OF BRIDGE STA. 70+
7 to 9. DETAILS OF BRIDGE STA. 98+
10. DETAILS OF SPECIAL 6'x6' CONCRETE BOX CULVERT STA. 106+
11 to 14. DETAILS OF BRIDGE STA. 115+
15 & 15a. DETAILS OF SPECIAL 8'x8' CONCRETE BOX CULVERT STA. 133+
16. DETAILS OF SPECIAL TRIPLE CONCRETE BOX CULVERT STA. 140+
17. DETAILS OF SPECIAL 6'x6' CONCRETE BOX CULVERT STA. 158+
18. DETAILS OF SPECIAL TRIPLE CONCRETE BOX CULVERT STA. 163+
19. DETAILS OF SPECIAL 4'x4' CONCRETE BOX CULVERT STA. 173+
20. DETAILS OF TRIPLE CONCRETE BOX CULVERT 10' SPAN STA. 177+
21. DETAILS OF TRIPLE CONCRETE BOX CULVERT 10' SPAN STA. 195+
22. DETAILS OF SPECIAL DOUBLE 8'x12' CONCRETE BOX CULVERT STA. 215+
23 & 15a. DETAILS OF SPECIAL 8'x8' CONCRETE BOX CULVERT STA. 231+
24 to 27. DETAILS OF SPECIAL CONCRETE CULVERT STA. 240+
28. DETAILS OF SPECIAL 6'x6' CONCRETE BOX CULVERT STA. 267+
29. CONCRETE BOX CULVERTS
30. CONCRETE BOX CULVERTS
31. STANDARD HEADWALLS FOR CORRUGATED METAL PIPE CULVERTS
32. STANDARD TIMBER GUARD POSTS
33. STANDARD SEMI-RIGID METAL PLATE GUARD FENCE
34. STANDARD FLEXIBLE METAL PLATE GUARD FENCE
35. STANDARD WIRE FENCES WITH STEEL POSTS AND MARKER POSTS
36. STANDARD STRUCTURE NUMBER LETTERING
37. STANDARD METHODS FOR SUPERELEVATION AND WIDENING OF CURVES
38. TYPICAL SIDE APPROACH ROADS/ ROADWAY CONSTRUCTION TRAFFIC SIGNS
39 to 46. PLAN AND PROFILE
47 to 48. GROSS SECTIONS

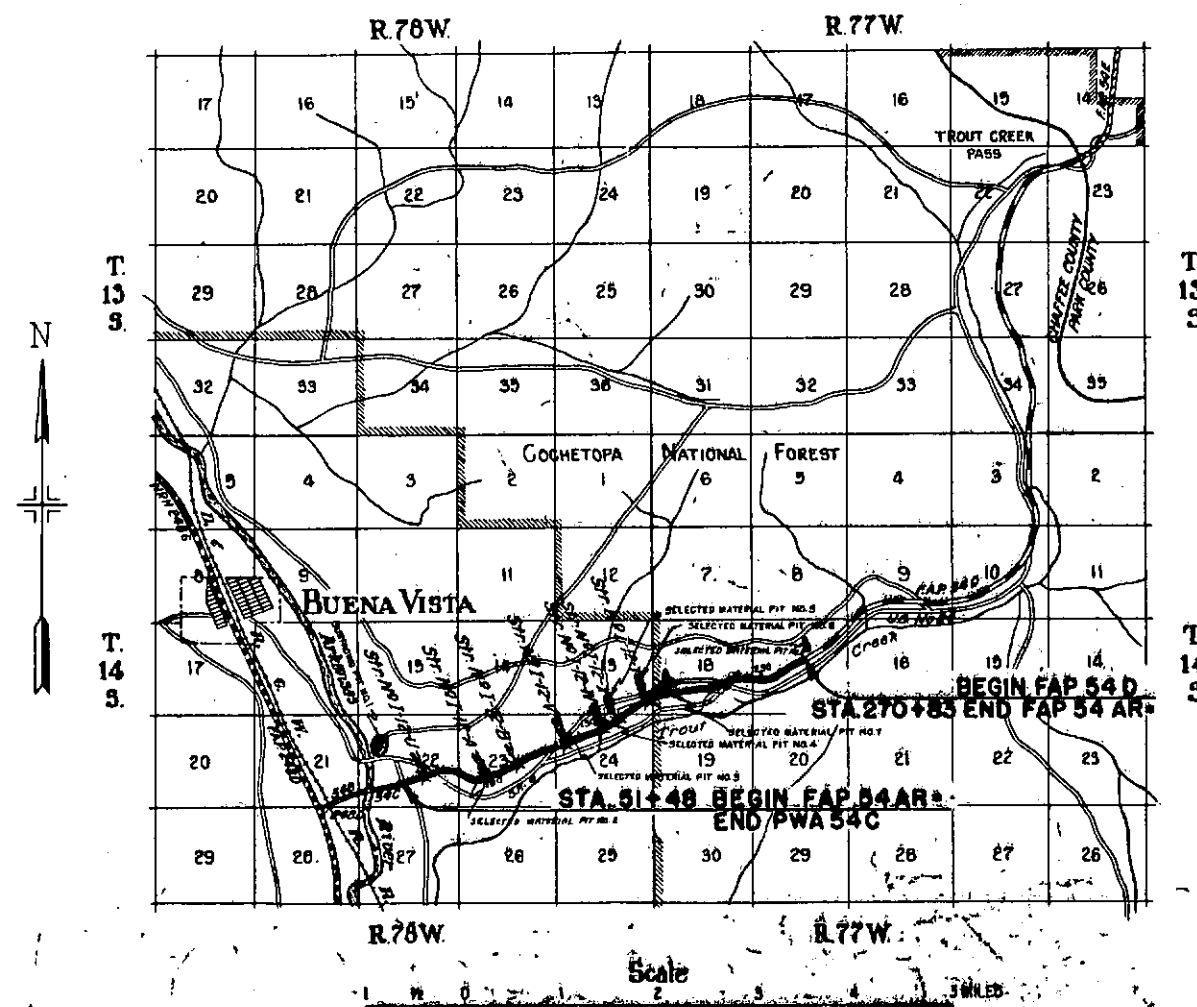
M-III-A
M-III-A

M-103-D
M-104-D
M-102-E
M-19-A
M-21-B
M-22-A
M-27-A
M-10-A
M-1-B
M-2-B

COLORADO STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. 54 AR STATE HIGHWAY NO. 4 CHAFFEE COUNTY

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 } 22,098.0 FT. = 4.185 MILES
NET LENGTH OF PROJECT }



Rev. 12-11-37 Whitney, Div. Engr.
Rev. as Constructed 4-28-39

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLD.	54 AR	1	

Rev. 12-9-37 g.l. Surfacing Pl. No. 2 eliminated.
Rev. 1-26-36 g.l. Index of Sheets.

CONVENTIONAL SIGNS

CENTER LINE OF SURVEY
SECTION LINES
ONE QUARTER SECTION LINES
RIGHT OF WAY LINES
FENCES
GUARD FENCE
TELEPHONE POLES

NOTE
Bidders on this project must over the plan details with one of the following field representatives of this department.
Mr. W. A. Whitney, Division Engineer, Salida, Colo.
Mr. Edward Oviatt, Resident Engineer, Buena Vista, Colo.

RECOMMENDED FOR APPROVAL 11-22-37
ASSISTANT ENGINEER
APPROVED
STATE HIGHWAY ENGINEER
RECOMMENDED FOR APPROVAL
DIST. ENG. BUREAU PUBLIC ROADS
RECOMMENDED FOR APPROVAL
CHIEF ENG. BUREAU PUBLIC ROADS
APPROVED
DIRECTOR BUREAU PUBLIC ROADS

Note: All pole lines encroaching on construction were moved by owners.
Fencing requirements, gates, and R.O.W. markers are tabulated on Sheet No. 3
Guard Post & Metal Plate Guard Fence requirements tabulated on Sheet No. 3

FED. ROAD DIST. NO.	STATE	F. A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	54-AR	39	

Sta 51+94 - Req'd 4'x3'x38' Concr. Box Culvert & Cu. Yds. Und. Excav for Outlet Channel.
Sta 51+48 - Req'd 1-Project Marker.

Sta 55+70 to 61+12 - Req'd intercepting ditch Lt.

Sta 62+00 to 70+35 - Req'd intercepting ditch Lt.

Sta 75+90 - Req'd 30'x112' C.M.P. Cross Culvert (Skew 44°) & Uncl. Excav for Inlet & 20 cu. yds. Loose Rock Rip-rap for Outlet
Rev. 11-27-37 g.l. Embankment Factor Rev. as Constructed - 5-6-59 - KLR

Sta 71+20 to 76+22 - Req'd intercepting ditch Lt.
Sta 79+00 - Req'd cu. yds. Embank. for Road approaches Rt. & Lt. & 18'x46' C.M.P. Side drain Lt. (Road approaches served as detour crossing for present road during construction)

Sta 70+33 to 71+03.5 - Req'd 3 spans @ 23'-0" treated timber pile bridge & cu. yds. Und. Excav for Channel Improvement. (For details see Sheet No. 6)

(QUANTITIES IN SUMMARY)

Δ 45°43'30" R
D 3°00'
T 805.9'
L 13248'
R 19108'

Sta 73+67 - Req'd 30'x86' C.M.P. cross culvert (Sk. 57°) & Uncl. Excav for inlet & outlet channels.

Sta 78+00 to 78+00 - Req'd 37 cu. yds. Loose Rock Rip-rap in Side Ditch.

Sta 54+79 - Req'd Cu. Yds. Embank. for Road Approaches Rt. & Lt.

Sta 61+96 - Req'd 24'x54' C.M.P. Cross Culvert & Ditches (Sk. 72°)

Sta 55+00 - Req'd 24'x50' C.M.P. Cross Culvert (Skew 70°) & Cu. Yds. Und. Excav for Ditches.

Sta 54+35 - Req'd 24'x46' C.M.P. Cross Culvert (Skew 80°) & Inlet Channel

STRUCTURE NOTES FOR BRIDGE STA. 70+33 TO STA. 71+03.5 STRUCTURE NO. I-12-U

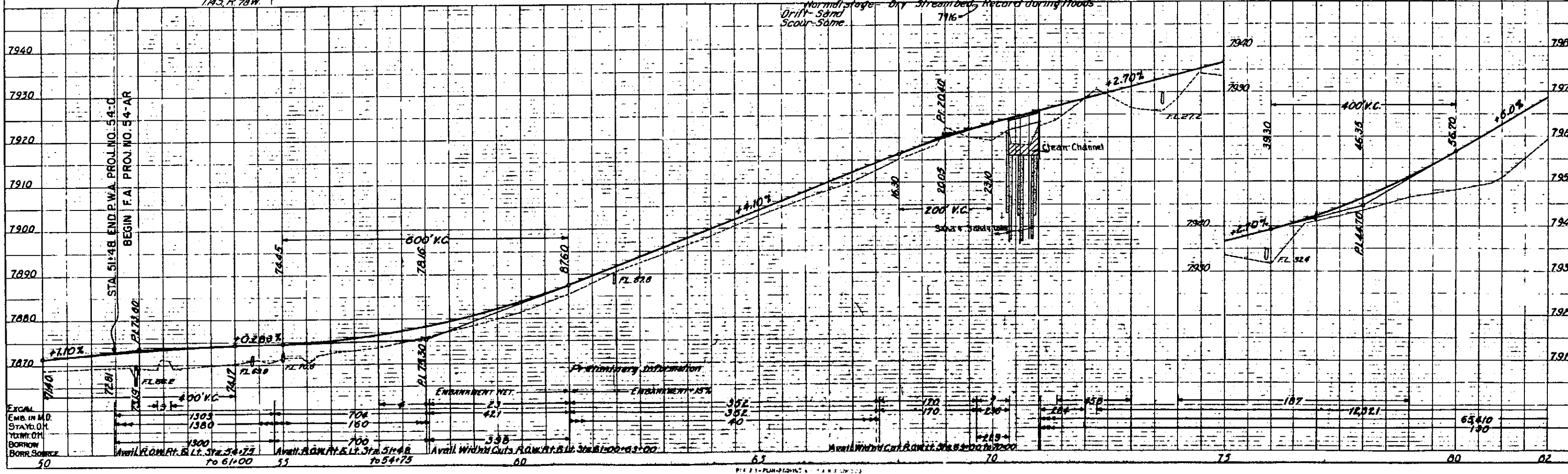
Present Structure:
Span
Clear roadway
Clear waterway
Type of Superstructure
Type of Substructure
Requirements as to removal

Proposed Structure:
Position referred to present structure
Span - 3 @ 23'
Clear roadway - 29'-0"
Clear waterway - 55'-0"
Type of Superstructure - Treated Timber Bridge
Type of Substructure - Treated Piles
Detour Structure requirements - None
R.R. siding - Buena Vista Haul to bridge site - 3 Miles

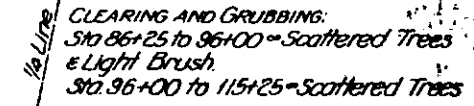
Stream Data:
Drainage area in Sq. Miles - 14
Velocity during high water - High
Elevation of:
Max. high water - 782.5
Low water
Normal stage - Dry
Drift - Sand
Scour - Same

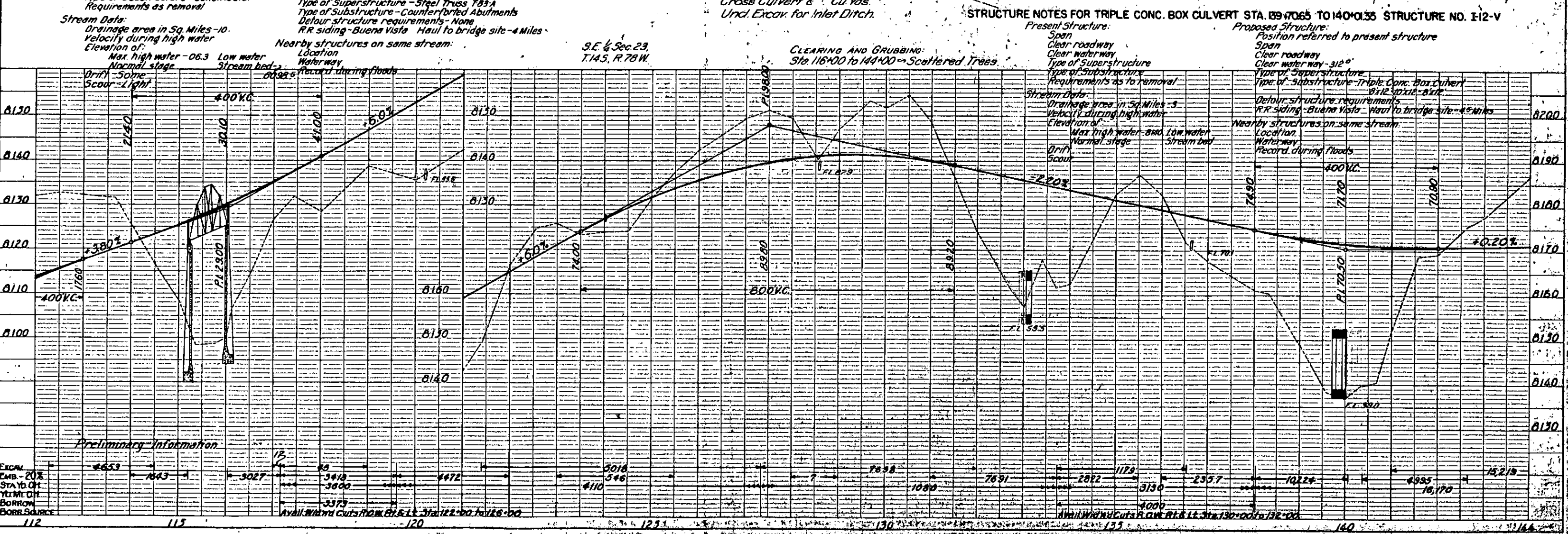
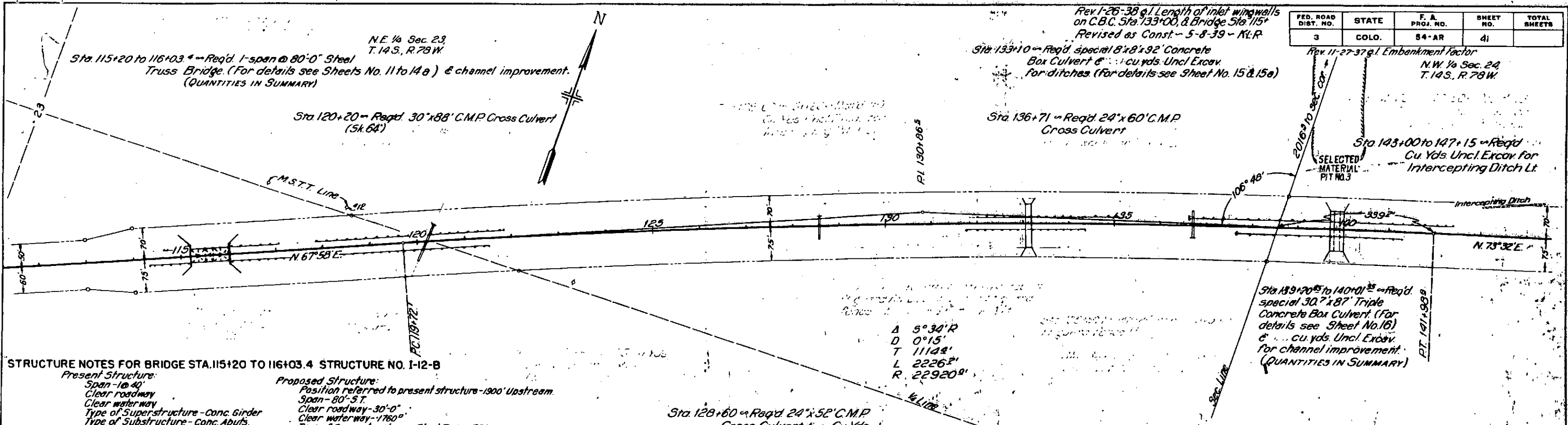
Nearby structures on same stream:
Location
Waterway
Record during floods

Sta 80+40 - Req'd Remove 24'x30' C.M.P. Rt.



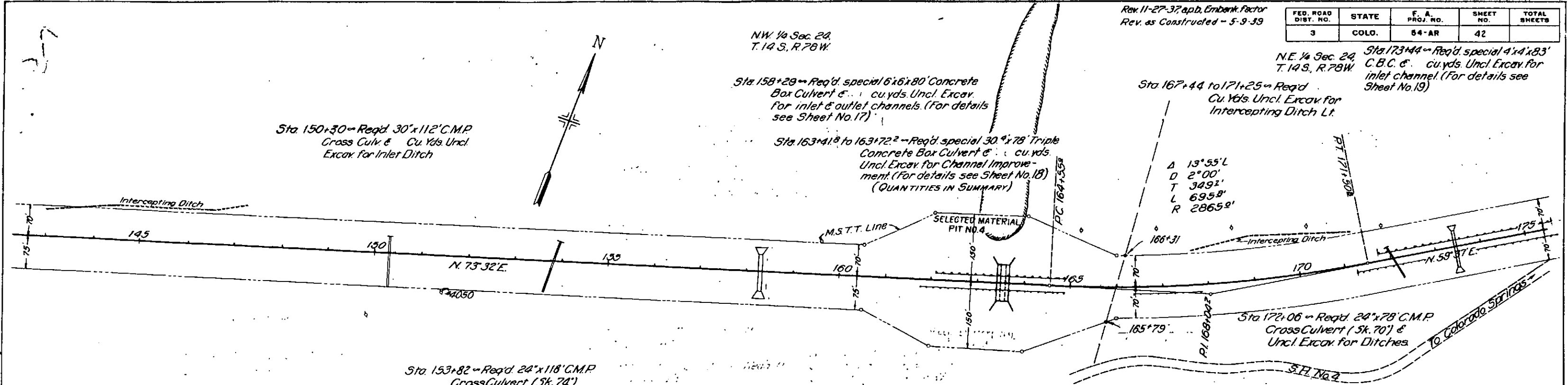
EXCAL
EMB. IN M.D.
STAYD. ON
YD. M. ON
BORR. SOURCE





Rev. 11-27-37, apb, Embank. Factor
Rev. as Constructed - 5-9-39

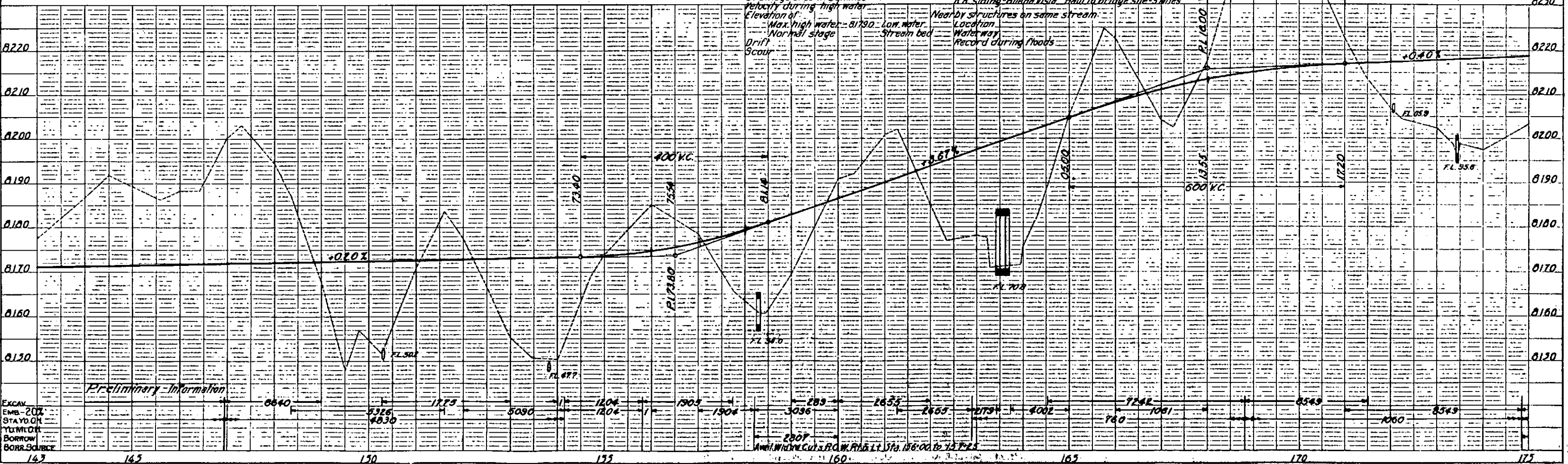
FED. ROAD DIST. NO.	STATE	F. A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	64-AR	42	



STRUCTURE NOTES FOR TRIPLE CONC. BOX CULVERT STA. 163+41.8 TO 163+72.2 STR. NO. 112-W

- Present Structure:
- Span - None
 - Clear roadway
 - Clear waterway
 - Type of Superstructure
 - Type of Substructure
 - Requirements as to removal
- Proposed Structure:
- Position referred to present structure
 - Span
 - Clear roadway
 - Clear waterway - 312'
 - Type of Superstructure
 - Type of Substructure - Triple Conc. Box Culvert, 8'x12'x12'-8'x12'
- Stream Data:
- Drainage area in Sq. Miles - 4
 - Velocity during high water
 - Elevation of:
 - Max. high water - 8179.0
 - Low water
 - Normal stage
 - Stream bed
 - Drift
 - Scour
- Defour structure requirements:
- R.R. siding - Buana Vista
 - Haul to bridge site - 5 miles
 - Nearby structures on same stream
 - Location
 - Waterway
 - Record during floods

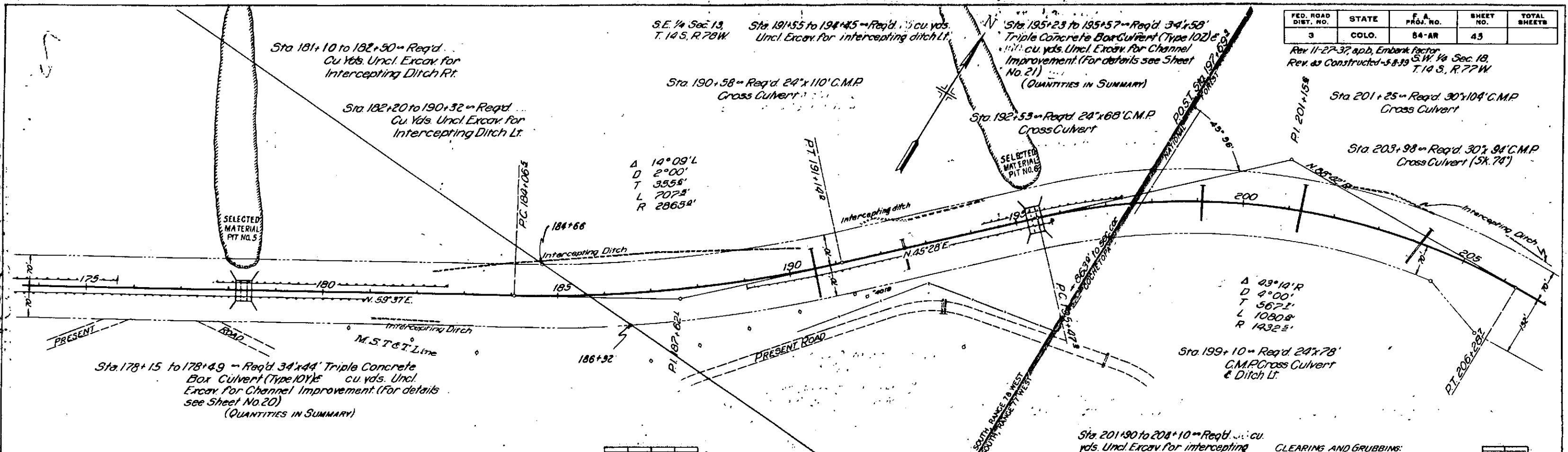
CLEARING AND GRUBBING:
Sta. 144+00 to 160+00 - Scattered Trees
Sta. 164+50 to 172+25 - and Light Brush.



EXCAV.
EMB-20X
STAYDOWN
YUMTOM
BORROW
BORR SOURCE

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	54-AR	43	

Rev 11-27-37, appb, Embank factor
Rev. as Constructed-5-8-39 S.W. 1/4 Sec. 18, T.14 S., R.77 W



STRUCTURE NOTES FOR TRIPLE CONC. BOX CULVERT STA.178+15 TO 178+49 STR.NO.I-12-X N.E. 1/4 Sec.24, T.14 S., R.78 W.

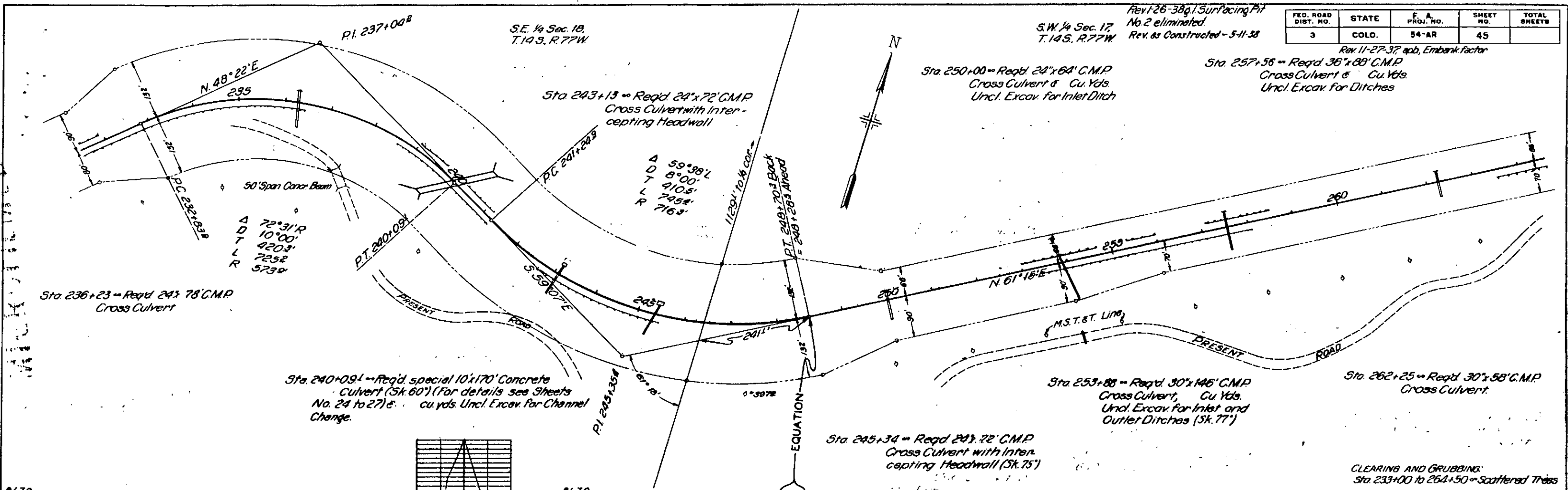
Station	Present Structure	Proposed Structure
8200	Span: None	Position referred to present structure
8270	Clear roadway	Span
	Clear waterway	Clear roadway
	Type of Substructure	Clear waterway - 500'
	Requirements as to removal	Type of Superstructure - Fill
8260	Stream Data	Type of Substructure - STD. M. III-A
	Drainage area in Sq. Miles - 3	Detour structure requirements
	Velocity during high water	R.R. siding - Buena Vista - Haul to bridge site - 5 Miles
	Elevation of	Nearby structures on same stream
	Max. high water - 82120 - Low water	Location
	Normal stage	Waterway
8230	Drift	Streambed record during floods
	Scour	8206'
8240		400' K.C.
		2300
8230		3220
8220		4220
8210		6700
8200		6700

STRUCTURE NOTES FOR TRIPLE CONC. BOX CULVERT STA.195+23 TO 195+57 STRUCTURE NO. I-12-Y

Station	Present Structure	Proposed Structure
8270	Span	Position referred to present structure
	Clear roadway	Span
	Clear waterway	Clear roadway
	Type of Substructure	Clear waterway - 500'
	Requirements as to removal	Type of Superstructure - Triple 10'20' Conc. Box Culvert
8260	Stream Data	Type of Substructure
	Drainage area in Sq. Miles - 8	Detour structure requirements
	Velocity during high water	R.R. siding - Buena Vista - Haul to bridge site - 5.5 Miles
	Elevation of	Nearby structures on same stream
	Max. high water - Low water	Location
	Normal stage	Waterway
8230	Drift	Streambed record during floods
	Scour	8252'
8220		8252'
8210		8252'
8200		8252'

Sta 199+10 - Req'd 24'x78' C.M.P. Cross Culvert & Ditch Lt.
Sta 201+90 to 204+10 - Req'd 34'x44' Triple Concrete Box Culvert (Type 102) 6'x10' cu. yds. Uncl. Excav. for Channel Improvement (For details see Sheet No. 21)
Sta 201+25 - Req'd 30'x104' C.M.P. Cross Culvert
Sta 203+98 - Req'd 30'x94' C.M.P. Cross Culvert (5K. 74')
CLEARING AND GRUBBING:
Sta. 181+50 to 193+25 - Scattered Trees
Sta. 196+50 to 206+00 -

STRUCTURE NOTES CHECKED



Rev. 1-26-38 g. 1 Surfacing Pit
No. 2 eliminated
Rev. as Constructed - 5-11-38

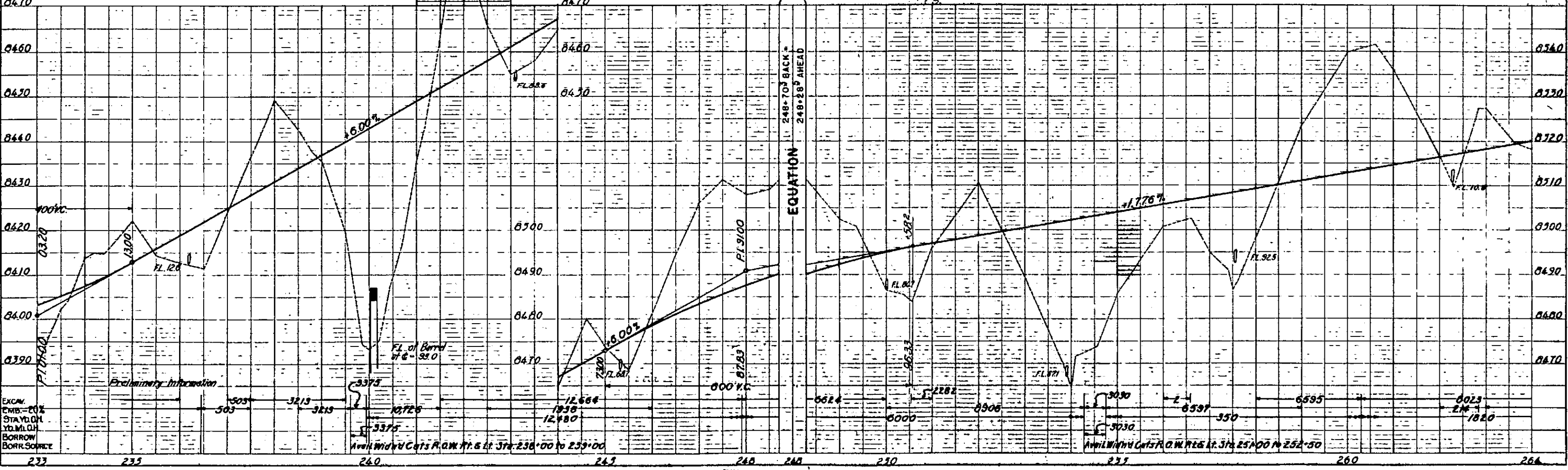
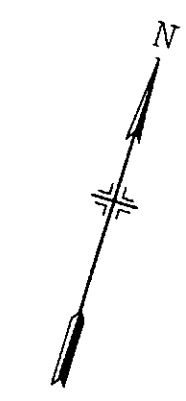
FED. ROAD DIST. NO.	STATE	F. A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	54-AR	45	

Rev. 11-27-37, app, Embank Factor

Sta. 257+56 = Req'd. 36" x 88" C.M.P.
Cross Culvert & Cu. Yds.
Uncl. Excav. for Ditches

S.W. 1/4 Sec. 17,
T. 14 S. R. 77 W.

S.E. 1/4 Sec. 18,
T. 14 S. R. 77 W.

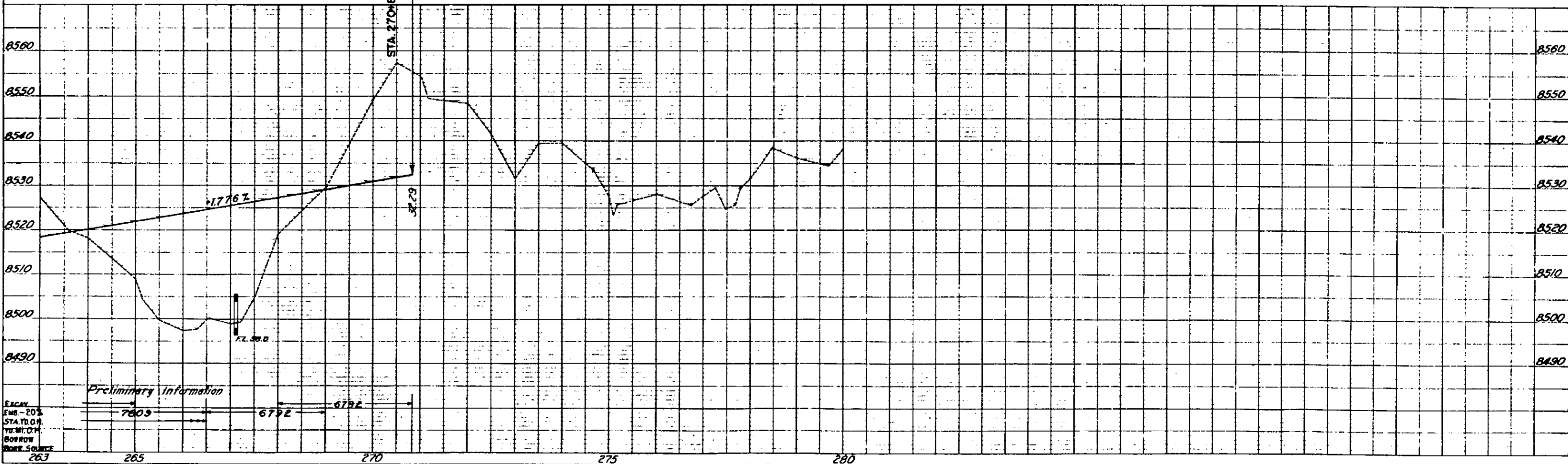


EXCAV. EMB.-20%
STAYDOWN
Y.M.O.H.
BORROW SOURCE

N.E ¼ Sec.17
T.14S., R.77W.

FED. ROAD DIST. NO.	STATE	F. A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	54-AR	46	

S.W 1/4 Sec. 17
T.14S. R.77W.



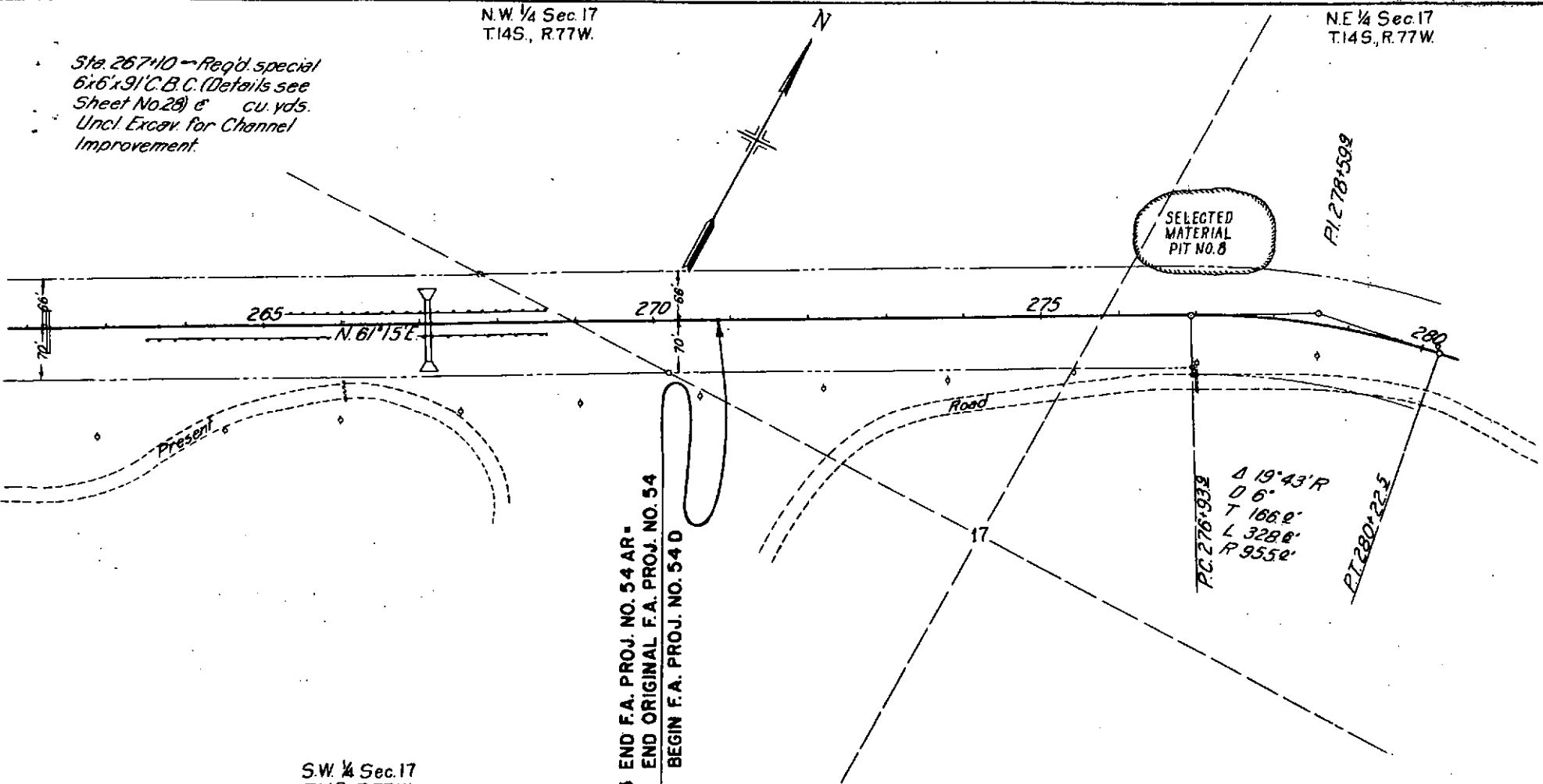
N.W. 1/4 Sec. 17
T.14S., R.77W.

N.E. 1/4 Sec. 17
T.14S., R.77W.

FED. ROAD DIST. NO.	STATE	F. A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	54-AR	46	

Rev. 11-27-37 ap.b. Embank. Factor
Rev. as Constructed - 5-12-39

Sta. 267+10 - Reg'd. special
6x6x91' C.B.C. (Details see
Sheet No. 28) 6' cu. yds.
Uncl. Excar. for Channel
Improvement.



S.W. 1/4 Sec. 17
T.14S. R.77W.

STA. 270+83 END F.A. PROJ. NO. 54 AR -
END ORIGINAL F.A. PROJ. NO. 54
BEGIN F.A. PROJ. NO. 54 D

Δ 19°43' R
D 6'
T 188.2'
L 328.8'
P 955.0'

PI 280+22.5

