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COLORADO

STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. 29-E (1)

STATE HIGHWAY NO. 8

PARK COUNTY

SCALES OF ORIGINAL TRACINGS

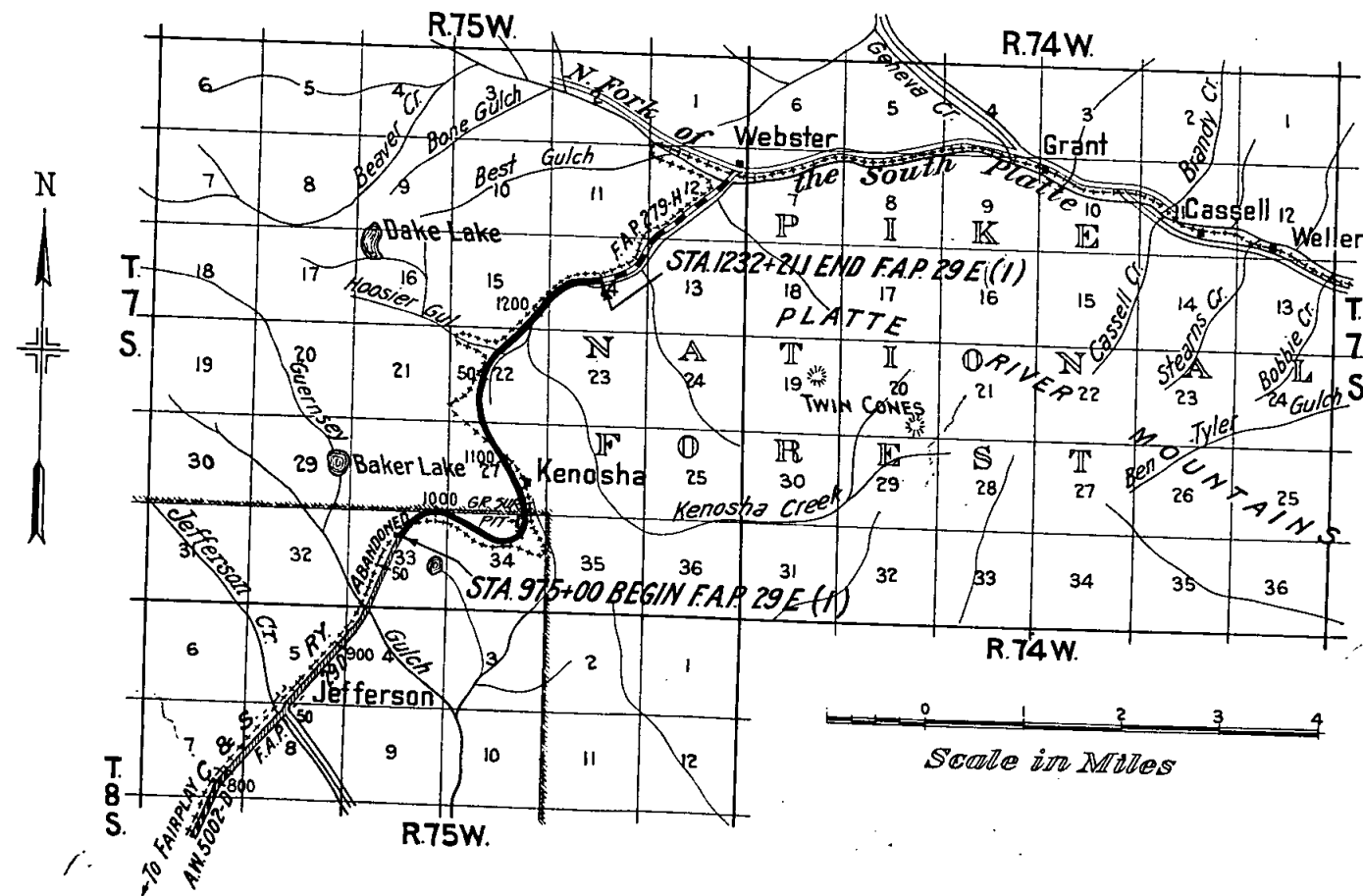
ON PLAN, 1 IN. = 100 FT.

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 } 25,795.4 FT. = 4.885 MI.

NET LENGTH OF PROJECT }



CONVENTIONAL SIGNS

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

NOTE: It is recommended that the bidders on this Project go over the plan details with one of the following field representatives of this Department.

W.A. Whitney, Division Engineer, located at Salida.

H.R. Evans, Resident Engineer, " " Shawnee

RECOMMENDED FOR APPROVAL

[Signature]
ASSISTANT ENGINEER

APPROVED

[Signature]
STATE HIGHWAY ENGINEER

RECOMMENDED OR APPROVAL

DIST. ENG. BUREAU PUBLIC ROADS

RECOMMENDED FOR APPROVAL

CHIEF ENG. BUREAU PUBLIC ROADS

APPROVED

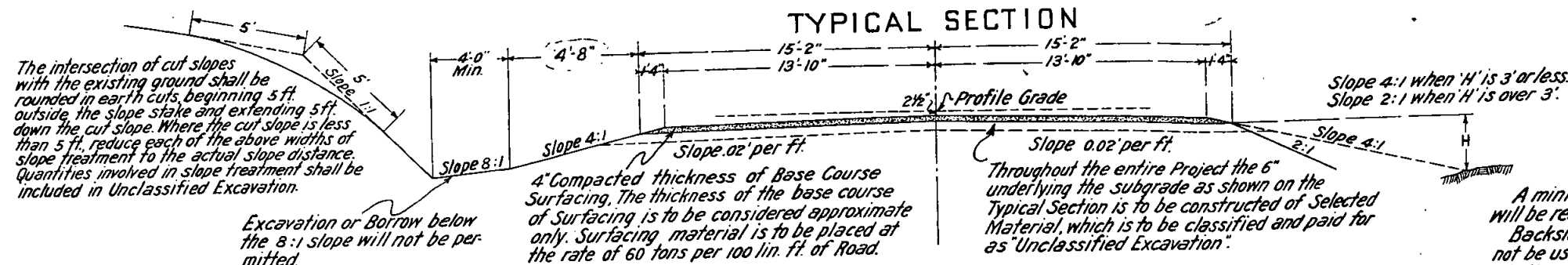
DIRECTOR BUREAU PUBLIC ROADS

FED. ROAD DIST. NO.	STATE	FED AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	29-E(1)	2	

Rev. 1-17-38 - S.B.L. (Gd. Posts of Struct. for new std.)
 Rev. 7-2-38 - S.B.L. (R.O.W. Markers)
 Rev. 7-20-38 H.O.W. Move Tel. Line. Rev. 7-30-38 Slope H.O.W.

CUT SLOPE TREATMENT

TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES



- NOTE -
 A minimum side ditch width of 4 ft. will be used in cuts for the entire Project. Backslopes steeper than 1 to 1 shall not be used except between the following stations, where slopes shall not be steeper than the following:-
 Sta. 1162+ to 1166+ Backslope 3/4:1
 " 1206+ to 1208+ " 1/2:1
 " 1229+ to 1232+ " 3/4:1

SELECTED MATERIAL PLAN

Selected Material is to be placed over the entire Project at the rate of 70 Tons per 100 lin. ft. of Roadway. The material is estimated to be available from the Right of Way in the vicinity of pits listed. Estimated Yardage and Overhaul are shown below.

STATIONS	CU. YDS	STA-YD O.H.	YD-MI. O.H.	PIT LOCATION
975+00-1110+25	9395	87,950	4,808	STA. 1065-1085
1110+25-1161+00	3624	23,700	248	" 1144-1147
1161+00-1184+50	1646	4,775	2	" 1174-1181
1184+50-1232+21	3392	23,910	430	" 1189-1194
SUBGRADE BACKFILL 2 FT. THICK				
1104+00-1106+50	1790	19,690	483	STA. 1065-1085
1128+00-1129+00	370	4,070	7	" 1144-1147
1139+00-1141+00	1052	1,580	0	" " "
TOTALS	21,269	165,675	5978	

GENERAL NOTES

This Project is to be constructed in conformity with the Standard Specifications of the Colorado State Highway Department, adopted June 1, 1937.

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

All roadway Excavation required to construct this Project is to be obtained as indicated on the plans. Quantities involved beyond the limits of the ditch, as shown on Typical Section, either noted on Profile as "Borrow" or on "Tabulation 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, as shown, are subject to changes by the Engineer to fit Embankment requirements actually met in construction.

All barbed wire fence, including line posts, shall be placed approximately six (6) inches inside the boundary of the highway right of way as shown on the plans.

All pipe cross culverts are to be provided with one headwall on the inlet end, unless otherwise noted on the plans.

All poles encroaching on construction are to be removed by owners.

Except as otherwise noted on the plans, Overhaul will be paid for as measured along the center line of the Project.

All side approach roads to the Project shall be gravel surfaced with a 4" thickness of Gravel or Crushed Rock Surfacing extending approximately 30 feet from edge of Highway. Estimated tonnage of Surfacing material required in this operation is shown in "List of Structures."

During the construction of this Project, traffic will use the present traveled highway. At all places on the Project where construction encroaches on the present road, traffic must be adequately provided for by the Contractor, at his own expense.

FENCING REQUIREMENTS

STATIONS	SIDE	REMOVE B.W. FENCE	BUILD B.W. FENCE	B.W. GATES
975+00-976+10	R	120'		
979+00-982+35	X	360'		
1014+75-1020+30	X	820'		
975+00-1018+90	L		4380'	
975+00-1020+30	R		4520'	
986+60	L-R			2
TOTALS		1300	8900	2

WIRE CABLE GUARD FENCE

STATIONS	SIDE	LIN. FT.
1017+80-1021+88	L	408
1030+75-1036+27	R	552
1041+30-1054+66	R	1336
1057+77-1060+25	R	248
1079+40-1082+04	R	264
1165+20-1167+52	L	232
1194+10-1195+78	R	168
1016+08-1028+00	R	1192
TOTAL		4400

R.O.W. MARKERS

STATIONS	SIDE	No.
975+00	R & L	2
975+70	L	1
987+60	L	1
991+50	R	1
997+65	R	1
1001+30	L	1
1005+00	L	1
1005+40	R	1
1013+00	L	1
1014+00	L	1
1017+00	R	1
1018+00	R	1
1026+00	R	1
1027+00	R	1
1036+00	R & L	2
1048+00	R	1
1049+00	R	1
1055+00	R	1
1057+00	R	1
1060+38	L	1
1065+15	R & L	2
1093+80	R	1
1094+80	L	1
1102+40	L	1
1104+15	R	1
1126+10	R & L	2
1142+50	L	1
1143+50	L	1
1152+90	L	1
1153+50	R	1
1162+00	L	1
1163+00	L	1
1179+00	R	1
1180+00	R	1
1181+00	L	1
1182+00	L	1
1186+70	L	1
1187+00	R	1
1188+00	R	1
1188+35	R	1
1208+20	R	1
1210+15	L	1
1214+50	R	1
1215+50	R	1
1222+00	L	1
1227+60 Ah.	R	1
1232+21.1	R & L	2
1050+00	L	1
1051+03.6	R & L	2
1040+00 & 1041+00	L	2
TOTAL		57

GRAVEL SURFACING PLAN

Gravel Surfacing for the Roadway and approaches is to be obtained from the vicinity of Stas. 1055 to 1061 on the Right of Way as shown on the Title Sheet. The estimated quantities are as follows:-
 15,520 Tons of Gravel Surfacing.
 9,130 Ton-Mi. of Overhaul of Surfacing.

TIMBER GUARD POSTS

STATIONS	SIDE	SPACING	No.
975+00-999+25	L	25' C-C	98
1028+25-1030+50	R	" "	10
1036+55-1041+05	R	" "	19
1040+15	L	Str.	1
1044+00	L	" "	1
1052+50-1054+50	L	25' C-C	9
1060+50-1070+00	R	" "	39
1062+00	L	Str.	1
1067+00	L	" "	1
1071+50-1075+50	R	25' C-C	17
1073+35	L	Str.	1
1078+15-1079+15	R	25' C-C	5
1082+00	L	Str.	1
1082+29-1088+79	R	25' C-C	27
1093+00	L	Str.	1
1100+50-1106+00	R	25' C-C	23
1105+00	L	Str.	1
1116+75-1132+25	L	25' C-C	63
1141+00-1144+50	R	" "	15
1141+00-1153+50 B.	L	" "	51
1154+00 Ah.	L	Str.	1
1162+00	R	" "	1
1162+70-1164+95	L	25' C-C	10
1167+75-1174+00	L	" "	26
1171+00-1174+00	R	" "	13
1181+50-1187+50	R	" "	25
1182+50-1185+50	L	" "	13
1189+60-1193+85	R	" "	18
1196+13-1198+13	R	" "	9
1197+75	L	Str.	1
1206+50	L	" "	1
1208+00-1213+00	R	25' C-C	21
1209+41	L	Str.	1
1215+75-1224+75	L	25' C-C	37
1218+50-1227+31	R	" "	39
TOTAL			600

APPROXIMATE SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	ROADWAY	TOTAL
10a	Clearing & Grubbing entire Proj.	Lump Sum	.	.
11b	Removal of 23 structures	Lin. Ft.	1300	1300
12a	Removing Fence	" "	1800	1800
12b	Removing Snow fence	" "	251,000	251,000
13c	Unclassified Excavation	CU. Yd.	120	120
14a	Dry Rock Excavation (Struct.)	" "	350	350
14b	" Common "	" "	40	40
14c	Wet Rock "	" "	120	120
14d	" Common "	" "	673,000	673,000
18a	Station Yard Overhaul	Sta. Yd.	13,000	13,000
18b	Yard Mile Overhaul	Yd. Mi.	15,520	15,520
26a	Gravel or Crushed Rock Surfacing	Ton	9,130	9,130
26c	Overhaul of Surfacing	Ton-Mi.	15,520	15,520
46a	Class "A" Concrete	CU. Yd.	195	195
46b	Class "B" Concrete	" "	49	49
47	Reinforcing Steel	Lbs	18,300	18,300
53b	18" Corr. Metal Pipe Culvert	Lin. Ft.	102	102
53c	24" " " " " "	" "	1410	1410
53d	30" " " " " "	" "	222	222
53e	36" " " " " "	" "	106	106
74	Wire Cable Guard fence	Lin. Ft.	4400	4400
74x	Timber Guard Posts	Each	600	600
76c	Barbed wire fence, (Metal Posts)	Lin. Ft.	8900	8900
76g	Barbed wire gates	Each	2	2
81a	Project Markers	" "	1	1
81b	Right of Way Markers	" "	57	57
	Obliterating old Road (State Forces)	Lump Sum	.	.
77	Picket Snow Fence	Lin. Ft.	2600	2600
	Relocating Pole Line (Telephone Co. Forces)	Lump Sum	.	.
FORCE ACCOUNT ITEMS- Not Receiving Fed. Aid				
	Remove & reset Monument	Lump Sum	.	.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	29-E (1)	11	

S.E. 4 SEC. 28

Sta. 975+00 - 978+30
Reqd - 568 cu. yds. Und. Excav.
to remove muck & 589 cu. yds.
for backfilling.

Sta. 975+00
Reqd - Project Marker

Sta. 986+61
Reqd - 27 cu. yds. Embank.
for Road Appr. Rt.

Sta. 986+65
Reqd - 116 cu. yds. Emb for
Road appr. Lt. & 18" x 52"
C.M.P. cul. side drain. Lt.

Δ 46°30' R.
D. 4°00'
T. 615.5
L. 1162.5
R. 1432.5

Sta. 975+50
Reqd - 24' x 64' C.M.P. culvert.
Type 'A' headwall.

Sta. 976+40
Remove Wood Box Culv't.

Sta. 981+53
Reqd - 24' x 120' C.M.P. culvert,
64° skew, Type 'A' hdwls.

Sta. 981+30
Reqd - 2, 15' x 14' C.M.P. Under-
drains, Lt.

Sta. 980+14 - 982+50
Remove 250 lin. ft. snow fence.

Sta. 987+23
Reqd - 18' x 42' C.M.P. culv't.
47° sk. 2-Type 'A' headwalls.

N.E. 4 SEC. 33. T. 7 S. R. 75 W.

NOTES
All pole lines encroaching on
construction are to be moved by
Owner.
Fencing requirements, gates,
wire cable guard fence, timber guard
posts and right of way markers for
the project are tabulated on Sheet
No. 2.
Surfacing Quantities and Selected
Material Quantities on Sheet 2.
Muck Excav. and Selected Material
Backfill Quantities on Sheet 3.
Intercepting Ditch Quant. on Sheet 3.

Note: The alignment and grades shown herein
are subject to adjustment during construction,
after approval by the Denver Office of the
Department.

PROPERTY OWNERS
B. H. Porth

STA 975+00 END FAP 29-D
BEGINNING FAP 29-E (1)

Und. Exc.
Embk.
Bottom
Sta. 974+70
Y.M. OH.
Porth & Sons

NOTE BOOK
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NO.

NOTE BOOK
SURVEYED
PLOTTER
NOTE BOOK
GRADE CHECKED
NO.
STRUCTURE NOTING CHECKED
NO.

S.E. 4 SEC. 28

Sta. 987+75-991+45
Req'd - 23 cu yds. Uncl. Excav. for
Intercepting Ditch, Lt.

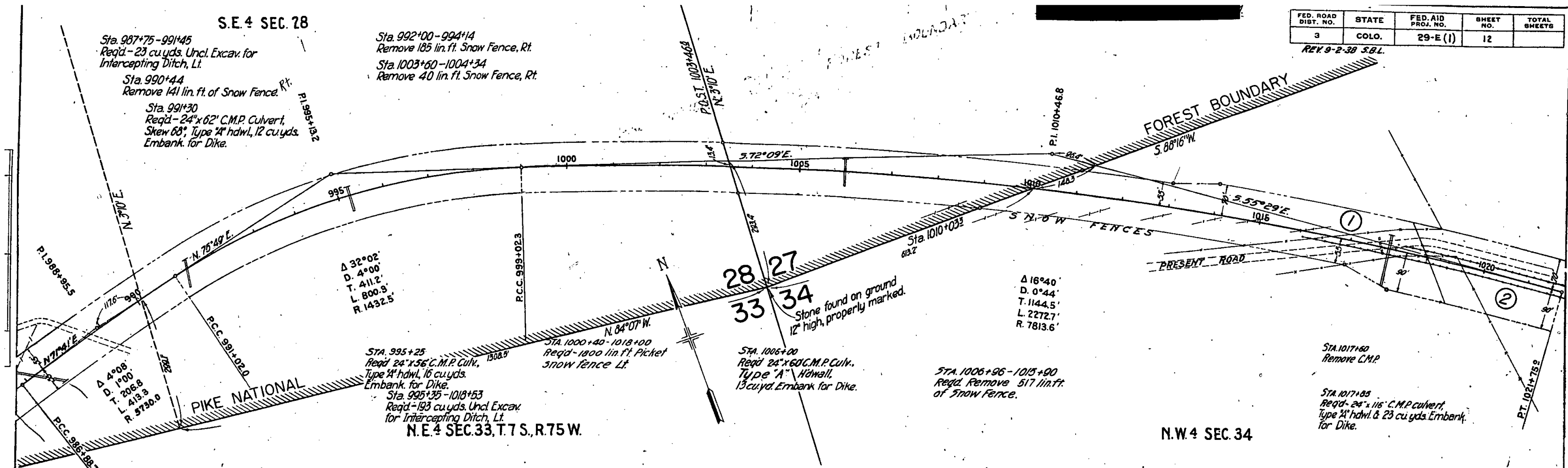
Sta. 990+44
Remove 141 lin. ft. of Snow Fence, Rt.

Sta. 991+30
Req'd - 24"x62" C.M.P. Culvert,
Skew 68°, Type 14" hdl., 12 cu yds.
Embank. for Dike.

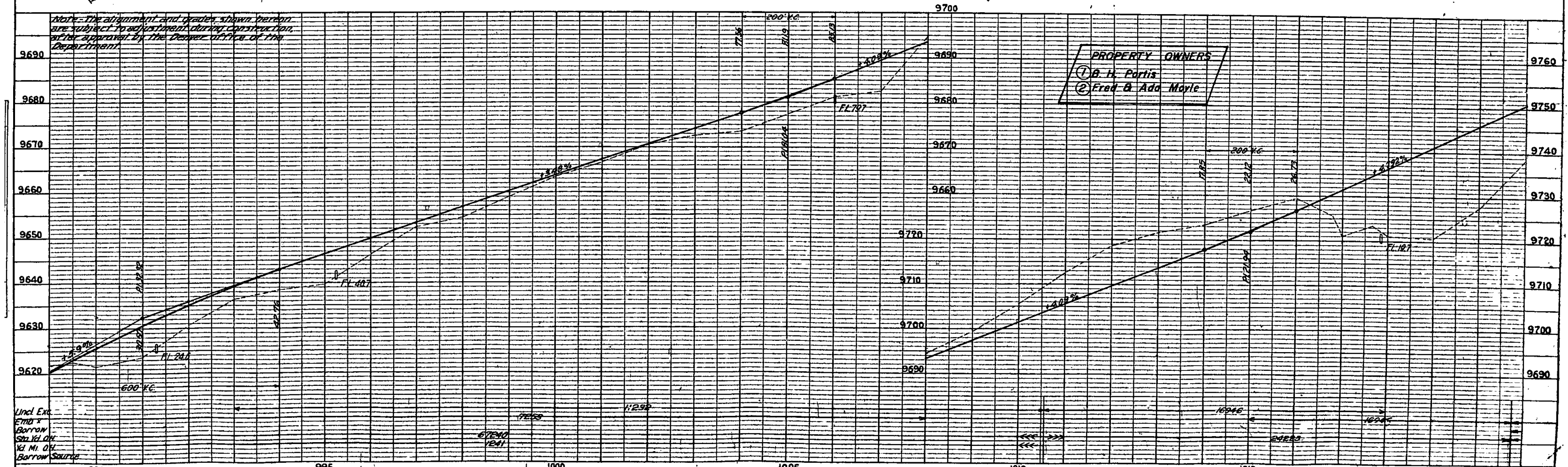
Sta. 992+00-994+14
Remove 185 lin. ft. Snow Fence, Rt.
Sta. 1003+60-1004+34
Remove 40 lin. ft. Snow Fence, Rt.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	29-E (1)	12	

REV. 9-2-38 S.B.L.



Note: The alignment and grades shown herein
are subject to adjustment during construction,
after approval by the Denver Office of the
Department.



Uncl. Exc.
Embank.
Borrow
Sta. 1014+00
1/4 Mi. SW
Borrow Source

NW 4 SEC. 34
T.7 S. R.75 W.

NE 4 SEC. 34
T.7 S. R.75 W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	29-E (1)	13	

Rev. 1-17-38 - F.B.L. (5th Guard Posts)

STA. 1023+50-
Remove C.M.P. Culv. Lt.

STA. 1025+00-
Req'd. 24"x106' C.M.P. Culv.
Type 'A' headwall,
16 Cu. Yds. Embank. for Dike.

STA. 1034+00-
Req'd. 24"x80' C.M.P. Culv.
Type 'A' headwall,
11 Cu. Yds. Embank. for Dike.

STA. 1025+00 - 1033+00
Req'd. 800 lin. ft. Picket
snow fence Lt.

STA. 1041+15
Req'd. 24"x60' C.M.P. Culv.
Type 'A' Headwall and 9 Cu.
Yds. Embank. for Dike.
Remove C.M.P. Culvert.

Sta. 1044+00
Remove C.M.P. Culvert.

STA. 1043+50
Req'd. 24"x54' C.M.P. Culv.
Type 'A' Headwall, &
13 Cu. Yds. Embank. for
Dike.

STATE HISTORICAL
SOCIETY MONUMENT

1055

ROAD



STA. 1038+50-
Remove C.M.P. Culv.

Δ 30°24' L
D 4°
T 389.2'
L 760.0'
R 1432.5'

Δ 30°21' L
D 5°
T 310.8'
L 607.0'
R 1146.0'

Δ 3°30' L
D 1°15' L
T 3500.0'
R 5750.0'

PI 1043+28.1

EQUATION

STA. 1026+80
Remove C.M.P. Culv. Rt.

Sta. 1028+28 ~ 1038+32
155 Cu. Yds. Uncl. Excav.
for Intercepting Ditch Lt.

PI 1032+39.1

S.85°48'E. AD.
S.80°53'E. BK.
BEARING EQUATION

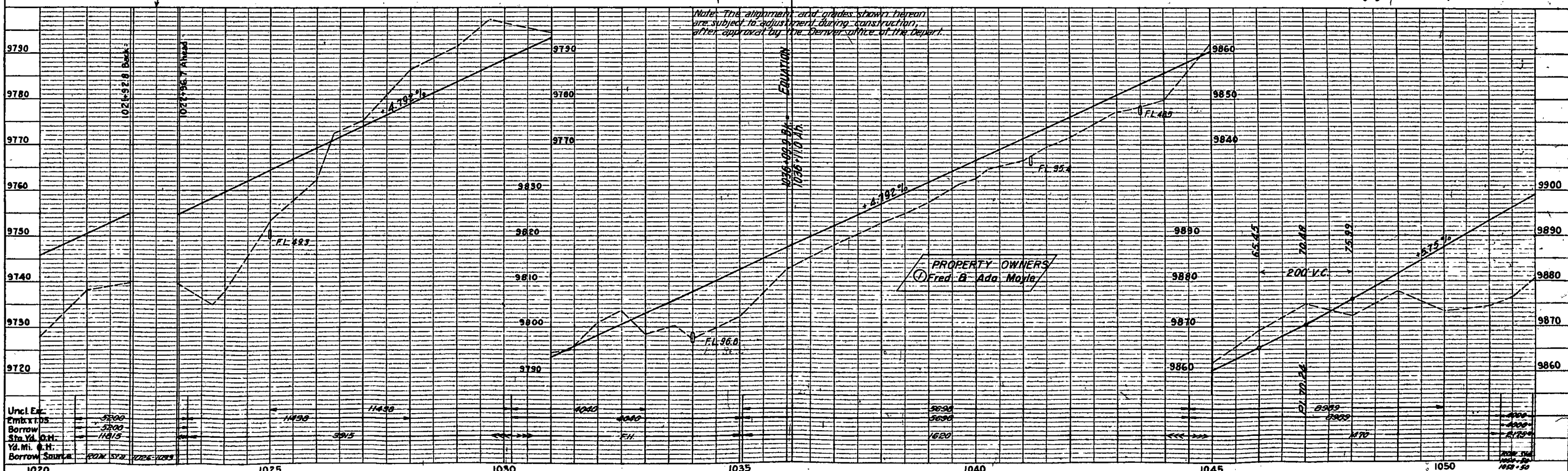
PI 1044+57.4

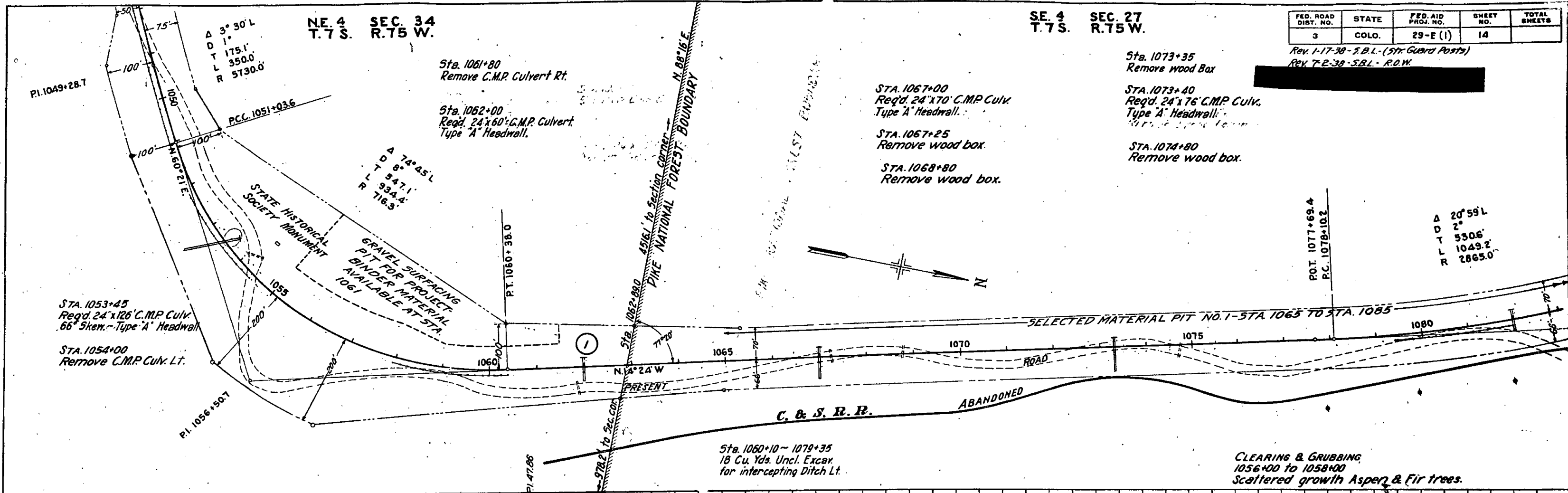
CLEARING & GRUBBING -
Sta. 1023 to 1024+50-
Heavy growth of Aspens.

Note: The alignment and grades shown hereon
are subject to adjustment during construction,
after approval by the Chief Office of the District.

EQUATION

PROPERTY OWNERS
① Fred & Ada Moyle

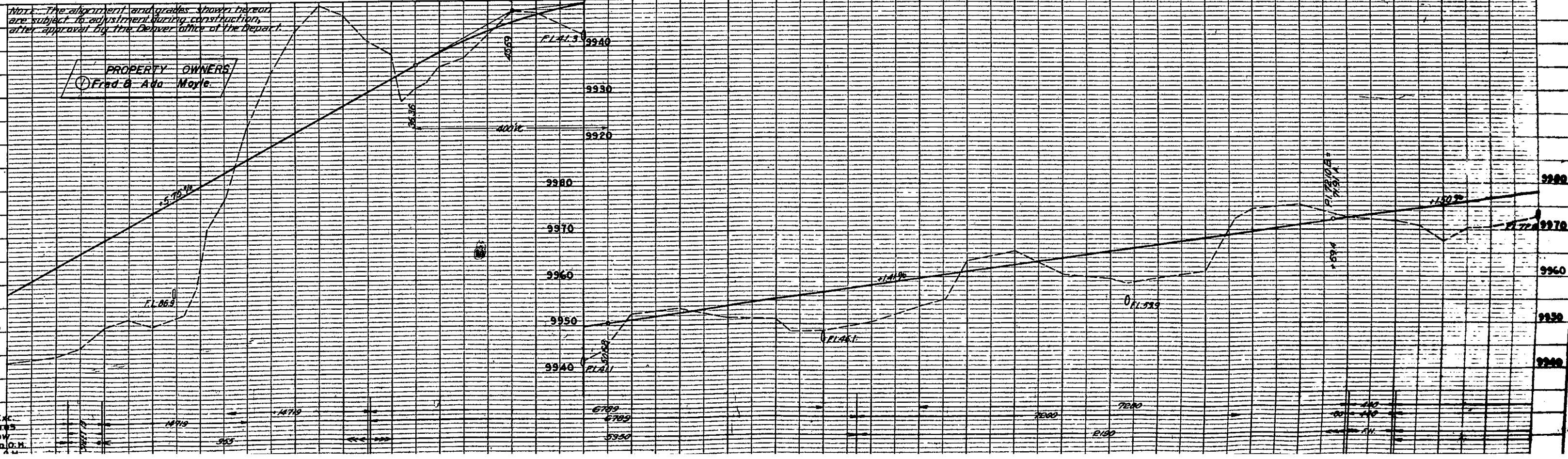




SE. 4 SEC. 27
T. 7 S. R. 75 W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	29-E (1)	14	

Rev. 1-17-38 - S.B.L. (Str. Guard Posts)
Rev. 7-2-38 - S.B.L. - R.O.W.



Note: The alignment and grades shown hereon are subject to adjustment during construction, after approval by the Denver office of the Department.

PROPERTY OWNERS
Fred & Ada Moyle

CLEARING & GRUBBING
1056+00 to 1058+00
Scattered growth Aspen & Fir trees.

S.E. 4 SEC. 27, T.7 S., R.75 W.

NW. 4 SEC. 27

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	29-E (1)	15	

Rev. 1-17-38 - 5, B.L. (57' Guard Posts)

Sta. 1083+55 ~ 1086+46
Remove 350 lin. ft.
snow fence.

Sta. 1082+00 ~ 1085+75
801 Cu. Yds. Uncl. Excav. to remove
Muck and 858 Cu. Yds. for
backfilling.

$\Delta = 20^{\circ} 59' L$
 $D = 2^{\circ} 00'$
 $T = 530.6$
 $L = 1049.2$
 $R = 2863.0$

Sta. 1087+25 ~ 1089+50
459 Cu. Yds. Uncl. Excav. to
Remove Muck and 490 Cu. Yds.
for backfilling.

Sta. 1093+00
Req'd - 24' x 46' C.M.P.
culv. Type 'A' Headwall.

Sta. 1092+70
21 Cu. Yds. Embank. for
Road Approach Lt.

Sta. 1105+00
Req'd - 24' x 58' C.M.P.
culv. Type 'A' headwall.

Sta. 1103+00 ~ 1110+25 - Req'd 2945 cu. yds. uncl. Exc.
to remove subgrade below natural ground
and 3173 cu. yds. select material for backfilling

Sta. 1090+00
7 Cu. Yds. Embank. for
Road Appr. Rt.

Sta. 1079+35 ~ 1097+58
82 Cu. Yds. Uncl. Excav. for
Intercepting Ditch Lt.

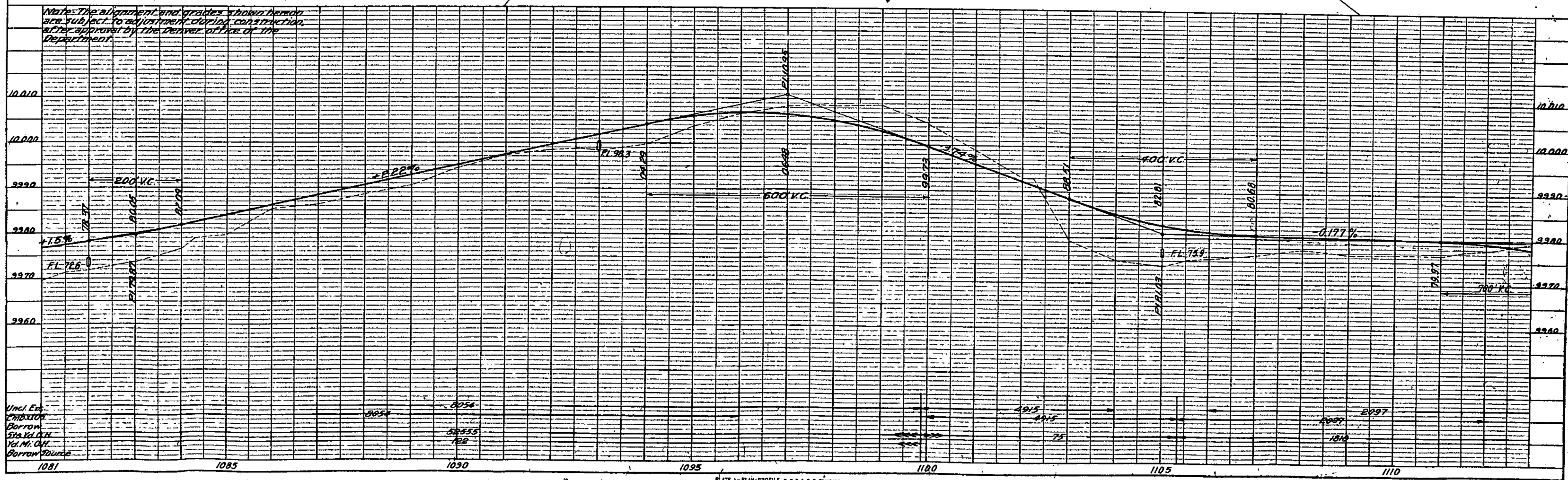
Sta. 1082+00
Req'd - 24' x 58' C.M.P.
culv. Type 'A' Hdwall.

ABANDONED
COLO. & SOUTHERN RY.

CLEARING & GRUBBING
Sta. 1096+00 ~ 1103+00 - Dense Pine & Aspen

KENOSHA

Note: The alignment and grades shown hereon
are subject to adjustment during construction,
after approval by the Denver Office of the
Department.



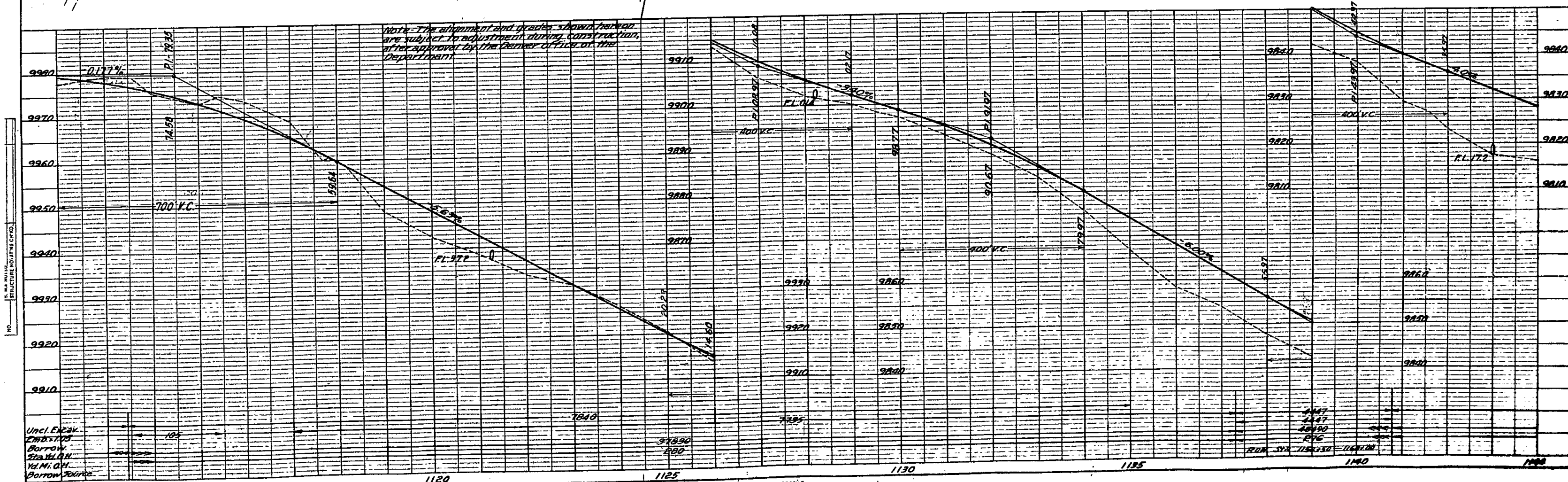
S.W.4 SEC. 22

Sta. 1114+00 ~ 1114+85
48 Cu. Yds. Uncl. Excav. to
Remove Muck and 53 Cu. Yds.
for backfilling.

Sta. 1118+90 ~ 1123+00
878 Cu. Yds. Uncl. Excav. to
Remove Muck and 964 Cu. Yds.
for backfilling.

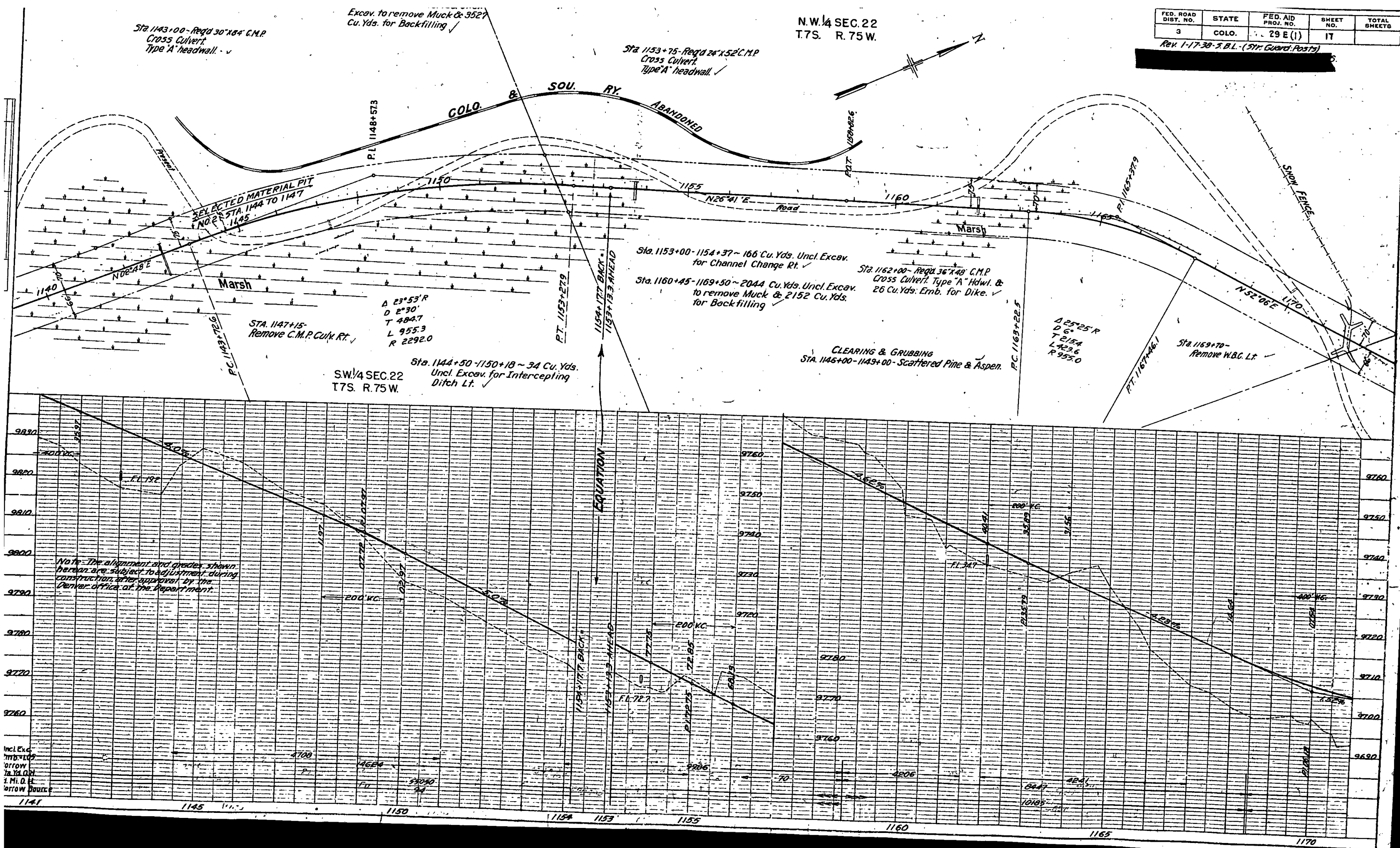
Sta. 1110+64-1114+44
17 Cu. Yds. Uncl. Excav. for
Intercepting Ditch Lt.

STA. 1138+15~1144+23-Reqd. 3056 cu.yds uncl. exc.
to remove subgrade 2ft. below natural
ground and 3350 Cu. Yds. for backfilling.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	29 E (1)	17	

Rev. 1-17-38 - S.B.L. (577 Guard Posts)



N.W.4 SEC.22

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	29-E.(1)	18	

Rev. 1-17-38-5 B.L. (5th Guard Post)

