

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F.A.P. 113-E AND FL.H.P. NO. 2-C	1	

2.03

COLORADO STATE HIGHWAY DEPARTMENT PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. 113-E & FEDERAL LANDS HIGHWAY PROJECT NO. 2-C STATE HIGHWAY NO. 6 FREMONT COUNTY

INDEX OF SHEETS

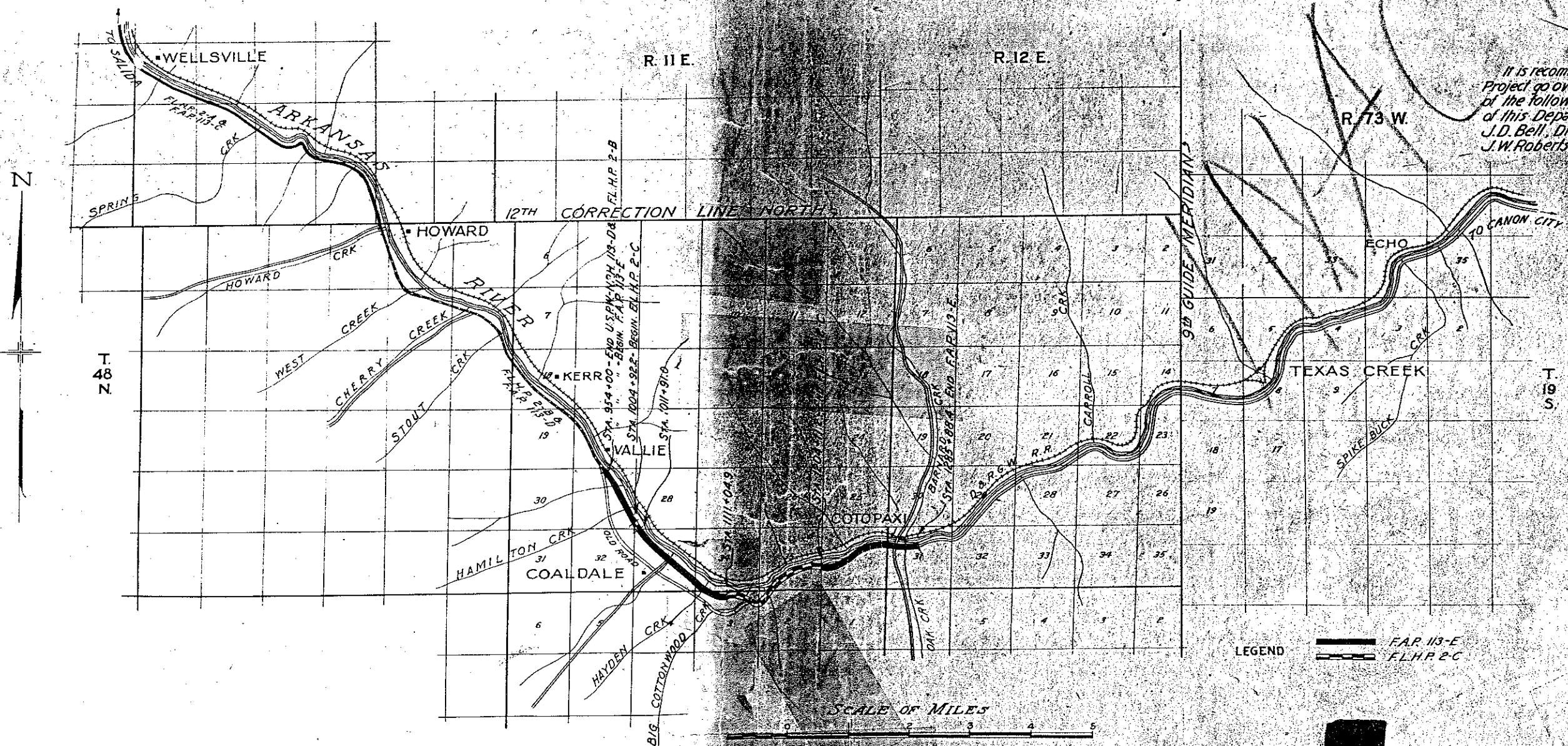
1. TITLE SHEET
2. TYPICAL CROSS-SECTION & SUMMARY OF QUANTITIES
3. LIST OF STRUCTURES
- 4-6. DETAILS OF BRIDGE, STA. 1043+
- 7-8. " " " " 1054+
- 9-11. " " " " 1096+
- 12-14. " " " " 1126+
- 15-17. " " " " 1206+
- 18-20. " " " " 1274+
21. CONCRETE BOX CULVERT M-103-D
22. " " " " M-104-D
23. DOUBLE CONCRETE BOX CULVERT M-110-B
24. STANDARD HEADWALLS FOR C.M.P. CULVERTS M-102-E
25. " WIRE CABLE GUARD FENCE M-20-G
26. " WIRE FENCE & MARKER POSTS M-24-FX
27. " STRUCTURE NUMBER LETTERING M-10-A
28. " METHODS FOR SUPERELEVATION & WIDENING M-1-A
29. TYPICAL APPROACH ROADS & TRAFFIC SIGNS M-2-B
- 30-40. PLAN & PROFILE
- 41-161. CROSS-SECTIONS

CONVENTIONAL SIGNS

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

SCALES OF ORIGINAL TRACINGS:

ON PLAN	1" = 100 FT.
ON PROFILE	1" = 10 FT. VERTICAL
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD	
GROSS LENGTH OF PROJECT	33210.4 FT. = 6.289 MI.
NET LENGTH OF PROJECT	23197.0 FT. = 4.393 MI.
	10013.4 FT. = 1.896 MI.
	F.A.P. 113-E
	FL.H.P. 2-C



NOTE
It is recommended that bidders on this project go over the plan details with one of the following field representatives of this Department:
J.D. Bell, Division Eng. Pueblo, Colo.
J.W. Robertson, Res. Eng. Salida.

LEGEND
F.A.P. 113-E
FL.H.P. 2-C

RECOMMENDED FOR APPROVAL
APPROVED
12/28/35
CHAS. D. HALL
STATE ENGINEER
RECOMMENDED FOR APPROVAL
APPROVED
DIRECTOR BUREAU OF PUBLIC WORKS

LIST OF STRUCTURES

LOCATION	DESCRIPTION	REMOVE STRUCT		EXCAVATION		STRUCTURAL EXCAVATION		CONCRETE		REINF. STEEL		CORRUGATED METAL CULVERT PIPE		MISC.
		NO.	UNCL.	CU. YDS.	EMB.	CU. YDS.	CU. YDS.	CIA	CIB	LBS	LBS	12" LIN. FT.	18" LIN. FT.	
957+70 962+67 970+00 970+00-972+80	6' x 7' x 32' Conc. Box Culvert, Channel Cross Culvert, Channel (Skew 60°) Ditch Change Side Drain and Approaches Cross Culvert		100 20 150			155 15 5	681			4310				
980+061-980+33.2 984+00 992+00	Dble 10' x 8' x 38' C.B.C. Chan. (Type 10-A Skew 60°) Cross Culvert, Ditches		(See Summary for Quantities) 100 100	50		5						26	46	
997+50 1001+40 1003+76 1008+48 1013+00	6' x 7' x 34' Conc. Box Culvert, Channel Cross Culvert, Channel 10' x 8' x 38' C.B.C. Chan. (Type 10-A Skew 70°) Cross Culvert, Ditches		50 500 30 200			15 400 15	699			4461		44	48	
1020+00 1022+00 1025+75 1027+50	6' x 7' x 34' Conc. Box Culvert, Channel Cross Culvert 4' x 3' x 34' Conc. Box Culvert Remove Hog Pen		200			15 120 5	699			4461		60	44	
1029+30 1037+10 1037+76 1040+00 1043+23.2-1043+58.2	Cross Culvert (Skew 45°) 6' x 7' x 34' Conc. Box Culvert, Channel Cross Culvert Bridge Cross Culvert		(See Summary for Quantities) 200			15 120 5	699			4461		60	44	
1045+70 1049+40 1054+101-1054+43.2 1054+70 1055+80	Cross Culvert Bridge Approaches, Left & Right Cross Culvert, Intersecting Ditch		(See Summary for Quantities) 100			5						46	46	
1057+30 1066+32 1069+29 1079+40 1080+53	" " (Skew 70°) " " " " " " Bridge		(See Summary for Quantities) 100			15 15 10 10						44	44	
1084+00 1096+461-1097+08.2 1103+90	Cross Culvert Cross Culvert Bridge		(See Summary for Quantities) 100			25 10						54	46	
1126+72.2-1127+35.2 1132+10 1138+09 1142+64 1151+00 1155+25	Bridge Remove C.M.P. Culvert " " Cross Culvert " "		(See Summary for Quantities) 100			5						64		
1164+95 1170+48 1180+05 1194+85	" " Remove C.M.P. Culvert " " Cross Culvert " " Bridge, Channel		(See Summary for Quantities) 200			10						52	52	
1206+68.2-1207+31.2 1216+75-1220+80	Ditch Change (Rock Embank.) Remove C.M.P. Culvert, Cross Culvert		(See Summary for Quantities) 200			5						42		
1237+00 1245+10 1249+94 1253+00 1256+50 1261+24 1268+35	" " " " " " Ditch change Cross Culvert Remove Barr from R.O.W. (FORCE ACCOUNT) " " C.M.P. Culvert Cross Culvert		(Quantities in Cross Sections) 5			5						56		
1270+60 1271+70 1272+65 1274+33-1275+16.2 1275+90 1278+00 1283+40	Move Gas Pumps off R.O.W. (FORCE ACCOUNT) Ice House " " Remove C.M.P. Culvert Bridge, Remove old Bridge Remove C.M.P. Culvert " " " "		(See Summary for Quantities) 5			5						54		
1048+00 1052+60	Cross Culvert " "		10 10									46 44		
TOTAL - FAR 113-E " - FLHP 2-C		9 7	1950 200	5250		1460 400	3070 153.8	41.45 8.85	20148 12835			752436 206.68	228	
GRAND TOTAL		16	2150	5250		1860	460.8	50.30	32983			752436 206.68	228	

* Structural Excavation is estimated to be 50% Rock & 50% Common, each of which is estimated to be 75% Dry and 25% Wet.

GATES

LOCATION	SIDE	BARB. WIRE	DRIVE WALK
959+00	L	1	1
" "	R	1	1
972+00	L	1	1
1001+00	R	1	1
1019+00	R & L	2	2
1025+00	" "	2	2
1036+00	L	1	1
1041+00	R	1	1
" "	L	1	1
1049+00	L	1	1
1056+80	L	1	1
" "	R	1	1
1057+00	L	1	1
" "	R	1	1
1069+00	L	1	1
1092+00	R	1	1
1097+75	R	1	1
1255+80	L	1	1
1257+50	L	1	1
1026+50	L	1	1
TOTAL - FAR 113-E " - FLHP 2-C		9 18	9 18
GRAND TOTAL		9	18

GUARD FENCE

LOCATION	LEFT	RIGHT
1042+54.5-1043+20.5	66	66
1043+58.8-1044+24.8	66	66
1053+41.5-1054+07.5	66	66
1054+45.8-1055+11.8	66	66
1093+78.5-1096+42.5	66	66
1097+10.8-1097+76.8	66	66
1102+00-1104+48	66	248
1102+00-1125+36.8	2344	
1126+03.5-1126+69.5	66	66
1127+37.8-1128+03.8	66	66
1132+00-1137+92.9	600	
1146+50-1158+58	808	
1160+50-1168+58	808	
1172+70-1175+98	328	
1178+40-1183+44	504	
1193+66-1205+80	1208	
1205+99.8-1208+65.8	66	66
1207+34.1-1208+00.1	66	66
1208+20-1221+24	1304	
1273+64.5-1274+30.5	66	66
1275+18.8-1275+84.8	66	66
TOTAL - FAR 113-E " - FLHP 2-C	3037 6059	908 132
GRAND TOTAL	10136	

FENCING REQUIREMENTS

LOCATION	SIDE	REMOVE GALVANIZED FENCE	REMOVE GALVANIZED FENCE	LOCATION	SIDE	REMOVE GALVANIZED FENCE	REMOVE GALVANIZED FENCE
955+90	X	170		1097+08-1104+50	R		755
955+25-1005+15	L		4948	"	L		742
956+50-981+50	R		2472				
982+60	X	120					
981+76	X	140					
981+50-1005+15	R		2351				
988+75-990+20	L	330					
998+90	X	120					
1012+00-1029+25	R & L		3980				
1029+25-1043+23	R		1370				
1059+25-1049+23	L		1370				
1043+56-1053+90	R		1040				
1043+56-1054+10	L						
1056+00-1027+50	R & L	265					
1029+25	X	150					
1037+00-1040+00	R & L	470					
1049+20	X	110					
1050+50-1054+00	R & L	470					
1055+05	X	130					
1054+75-1096+45	R		4120				
1055+25-1096+45	L		4064				
1056+80	X	120					
1067+25	X	100					
1074+00-1080+35	R & L	680					
1087+20-1090+00	X	100					
1093+70	X	130					
1097+00	X	130					
1221+00-1227+80	L	685	710				
1240+00-1258+40	R & L	1950					
1240+00-1258+40	L		1830				
1261+55-1268+95	R	775	760				
1277+80-1285+60	R	860	760				
TOTAL FAR-113-E " FLHP-2-C						8185	7988
GRAND TOTAL						8185	7988

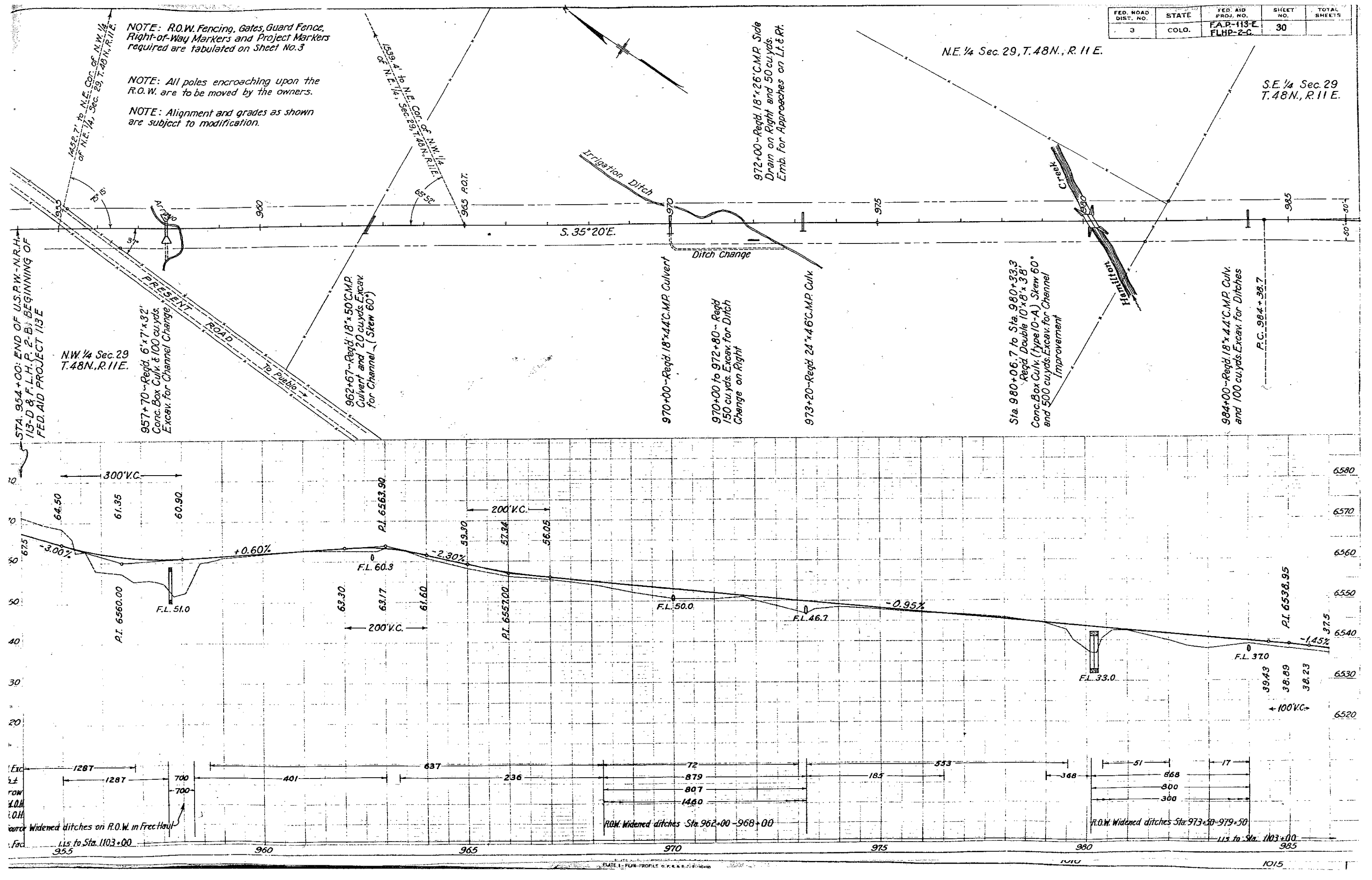
PROJECT MARKERS
LOCATION
954+00
1004+92.2
1011+91
1111+04.9
1204+11.2
1285+88.4
TOTAL - FAR 113-E
" - FLHP 2-C
GRAND TOTAL

R.O.W. MARKERS
LOCATION
955+25
956+55
981+48
982+05
1004+00
1005+90
1011+65
1012+18
1045+00
1048+30
1049+78
1066+00
1079+63
1080+44
1096+70
1097+27
1105+50
1110+73
1111+17
1127+00
1129+50
1131+50
1141+75
1142+42
1148+00
1150+00
1153+95
1154+78
1155+52.8
1162+00
1176+40
1177+28
1180+00
1181+50
1203+86
1204+36
1225+00
1227+60
1227+84
1229+00
1229+40
1233+00
1259+27
1259+56
1262+50
1264+00
1268+96
1273+00
1285+58
1286+18
TOTAL - FAR 113-E
" - FLHP 2-C
GRAND TOTAL

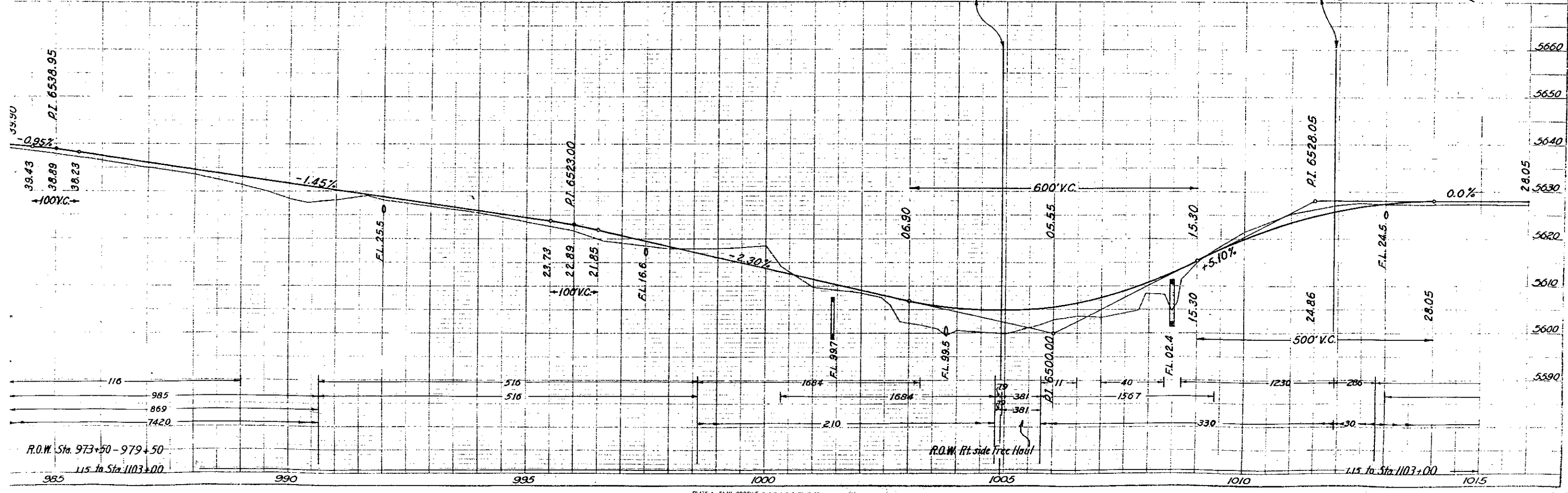
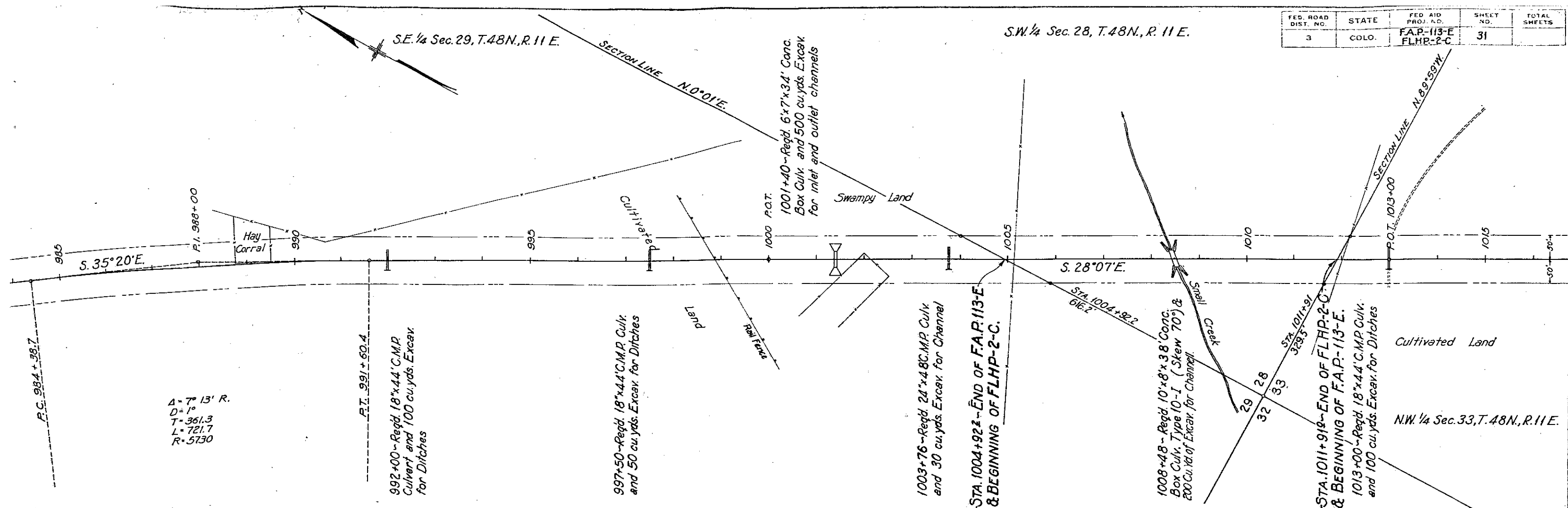
Revised 1/3/36 - J.W.S.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	6	3	3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F.A.P.-113-E FLHP-2-C	30	



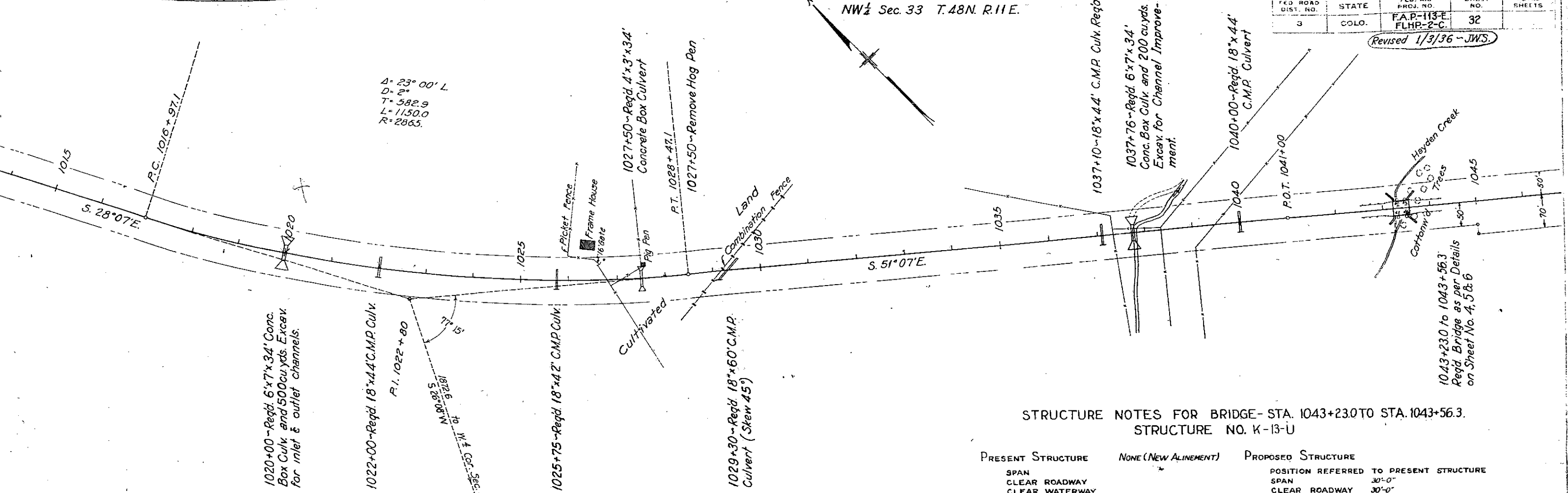
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	FAP-113-E FLHP-2-C	31	



NW 1/4 Sec. 33 T.48N. R.11E.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F.A.P.-113-E FLHP-2-C	32	
Revised 1/3/36-J.W.S.				

$\Delta = 23^\circ 00' L$
 $D = 2'$
 $T = 582.9$
 $L = 1150.0$
 $R = 2865$

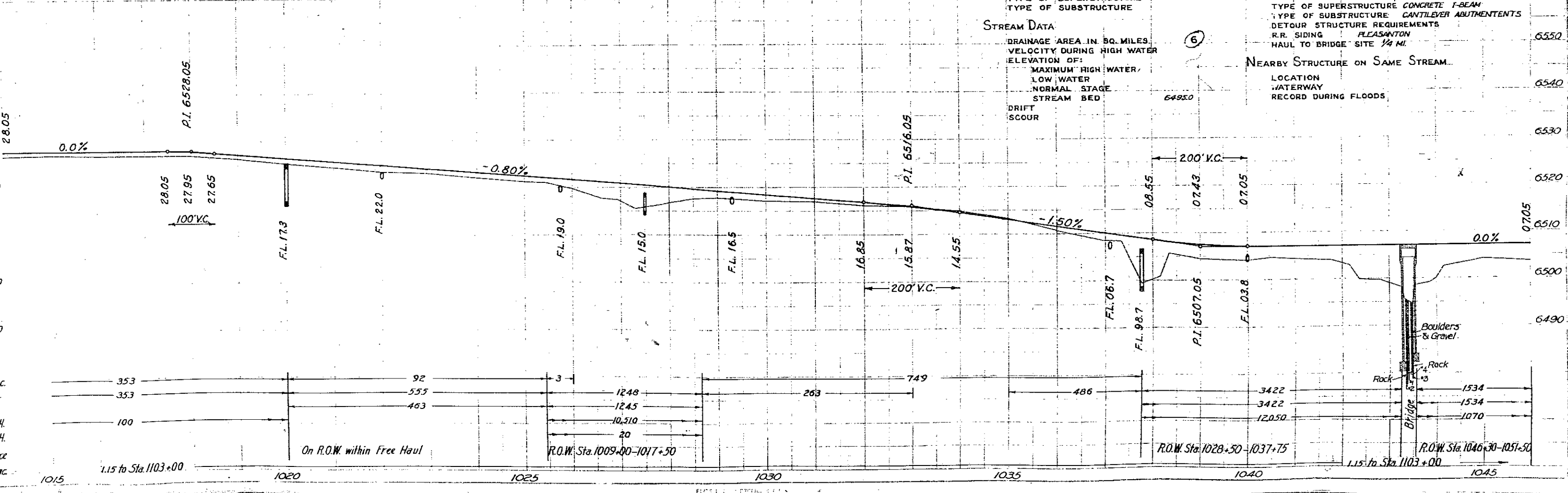


STRUCTURE NOTES FOR BRIDGE- STA. 1043+23.0 TO STA. 1043+56.3.
STRUCTURE NO. K-13-U

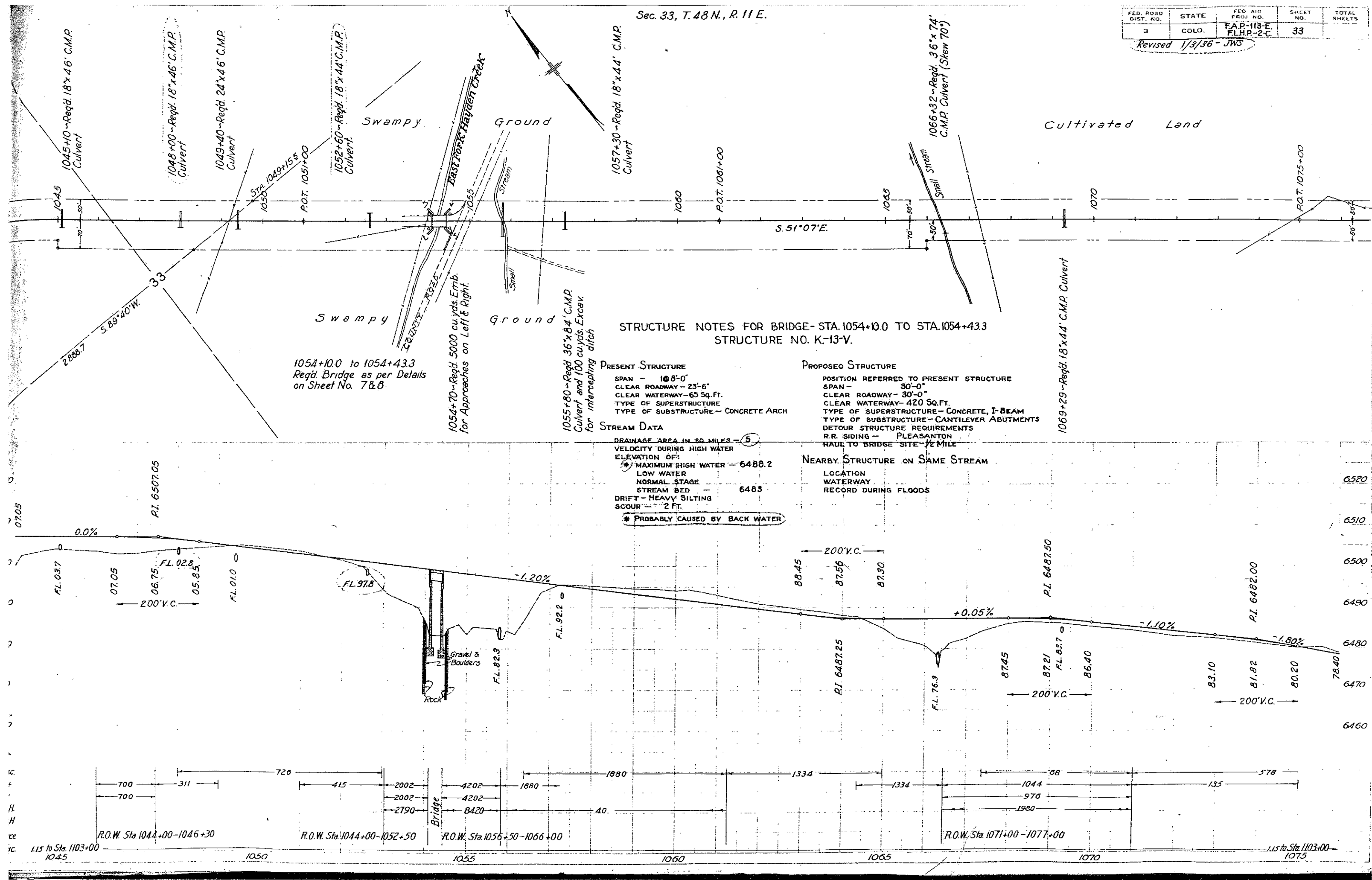
PRESENT STRUCTURE	NONE (NEW ALIGNMENT)	PROPOSED STRUCTURE
SPAN		POSITION REFERRED TO PRESENT STRUCTURE
CLEAR ROADWAY		SPAN 30'-0"
CLEAR WATERWAY		CLEAR ROADWAY 30'-0"
TYPE OF SUPERSTRUCTURE		CLEAR WATERWAY 270 Sq. Ft.
TYPE OF SUBSTRUCTURE		TYPE OF SUPERSTRUCTURE CONCRETE T-BEAM
		TYPE OF SUBSTRUCTURE CANTILEVER ABUTMENTS
		DETOUR STRUCTURE REQUIREMENTS
		R.R. SIDING PLEASANTON
		HAUL TO BRIDGE SITE 1/4 MI.
		NEARBY STRUCTURE ON SAME STREAM.
		LOCATION
		WATERWAY
		RECORD DURING FLOODS

STREAM DATA
DRAINAGE AREA IN SQ. MILES
VELOCITY DURING HIGH WATER
ELEVATION OF:
MAXIMUM HIGH WATER
LOW WATER
NORMAL STAGE
STREAM BED
DRIFT
SCOUR

6550
6540
6530
6520
6510
6500
6490

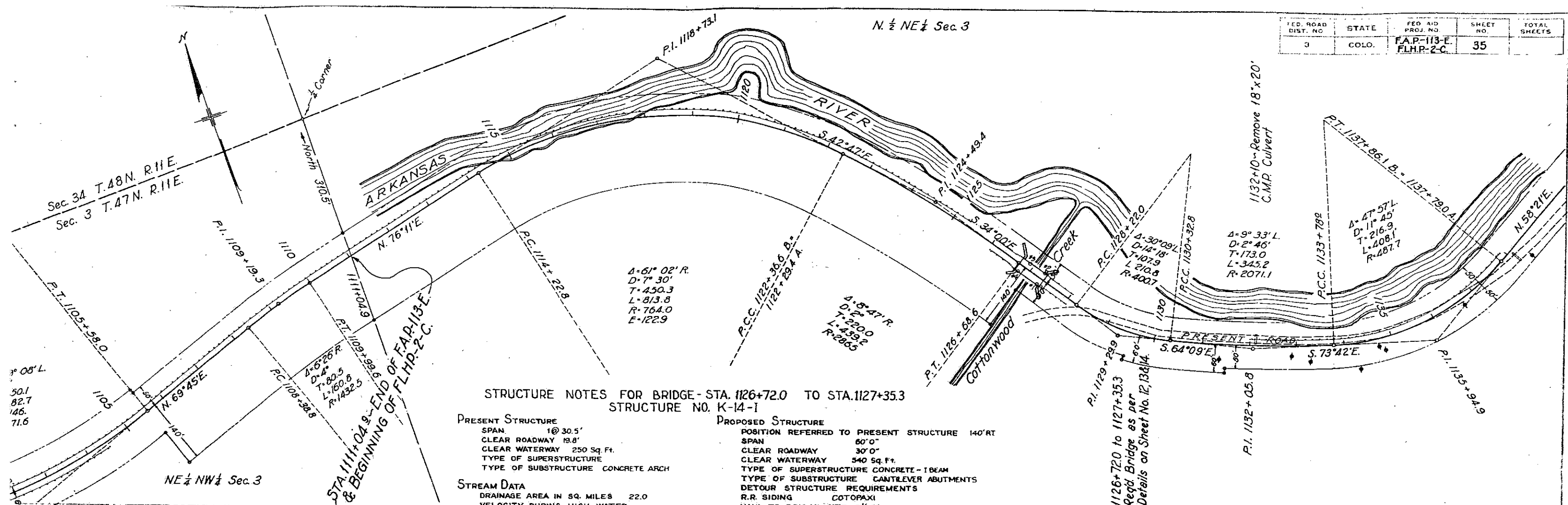


Revised 1/3/36 - JWS



N. 1/2 NE 1/4 Sec 3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	FAP-113-E FLHP-2-C	35	



STRUCTURE NOTES FOR BRIDGE - STA. 1126+72.0 TO STA. 1127+35.3
STRUCTURE NO. K-14-I

PRESENT STRUCTURE	PROPOSED STRUCTURE
SPAN 1@30.5'	POSITION REFERRED TO PRESENT STRUCTURE 140' RT
CLEAR ROADWAY 19.8'	SPAN 60' 0"
CLEAR WATERWAY 250 Sq. Ft.	CLEAR ROADWAY 30' 0"
TYPE OF SUPERSTRUCTURE	CLEAR WATERWAY 540 Sq. Ft.
TYPE OF SUBSTRUCTURE CONCRETE ARCH	TYPE OF SUPERSTRUCTURE CONCRETE-TIE BEAM
	TYPE OF SUBSTRUCTURE CANTILEVER ABUTMENTS
	DETOUR STRUCTURE REQUIREMENTS
	R.R. SIDING COTOPAXI
	HAUL TO BRIDGE SITE 2 1/2 MI.

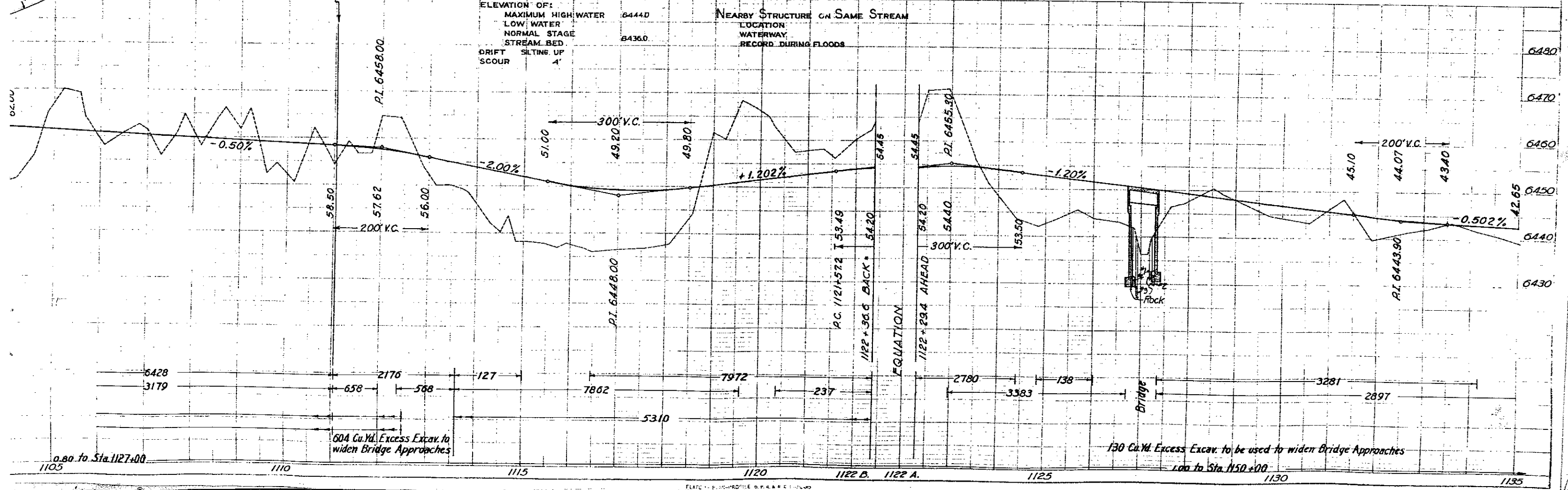
1126+72.0 to 1127+35.3
Reqd. Bridge as per
Details on Sheet No. 12, 13 & 14

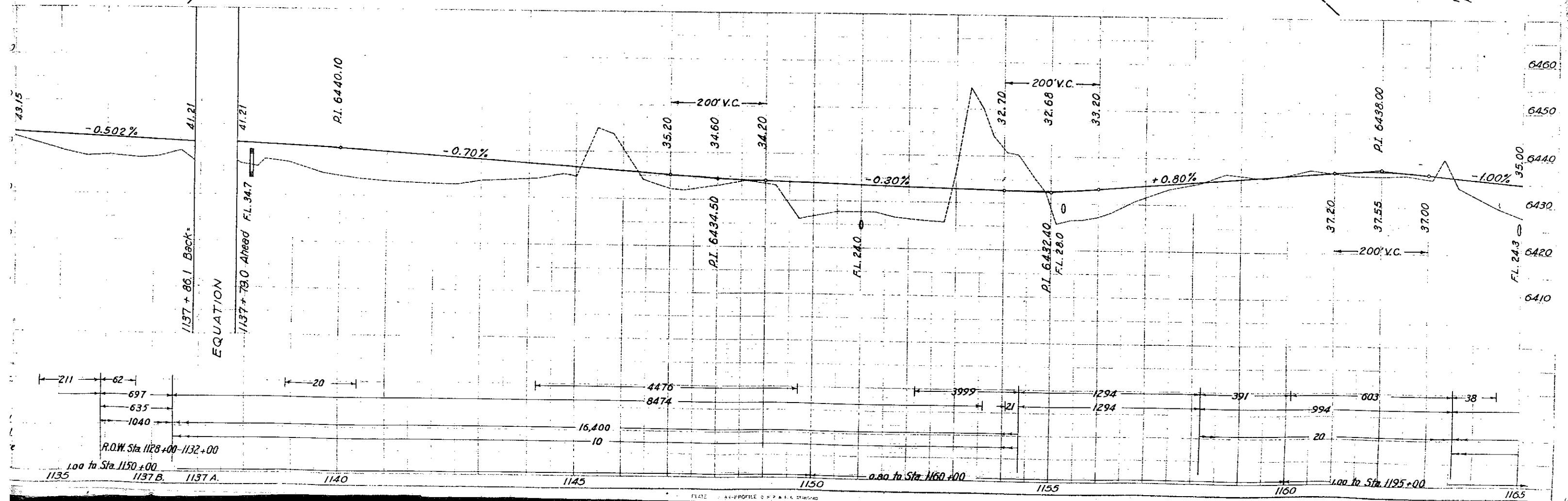
STREAM DATA

DRAINAGE AREA IN SQ. MILES	22.0
VELOCITY DURING HIGH WATER	
ELEVATION OF:	
MAXIMUM HIGH WATER	6444.0
LOW WATER	
NORMAL STAGE	6436.0
STREAM BED	
DRIFT SILTING UP	
SCOUR	4'

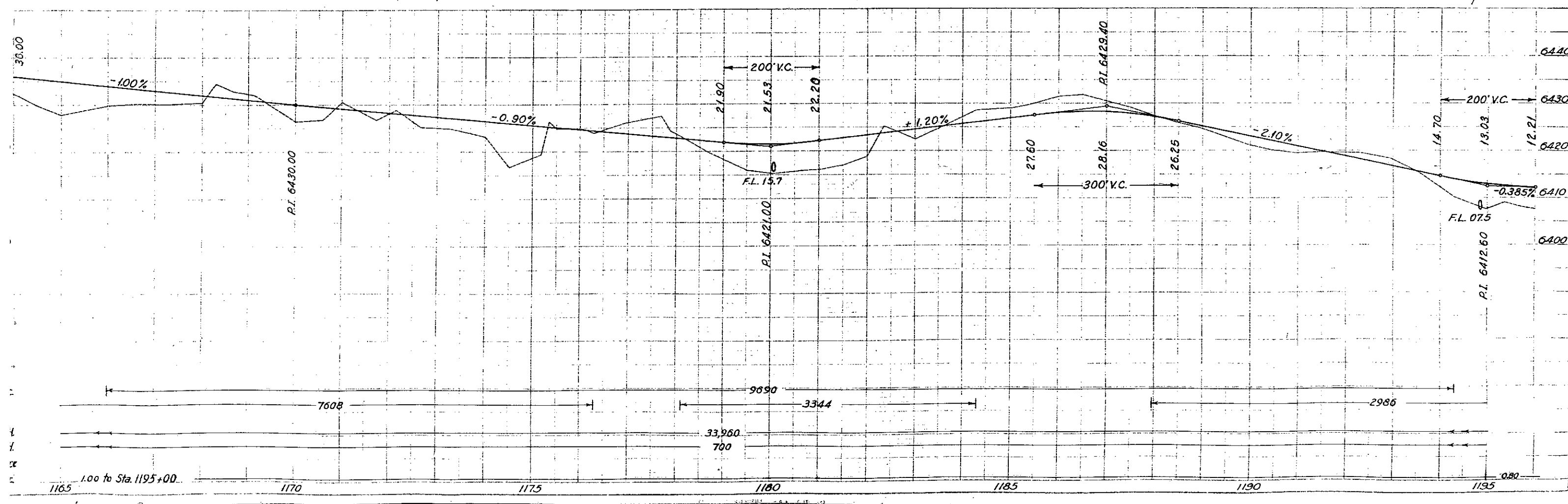
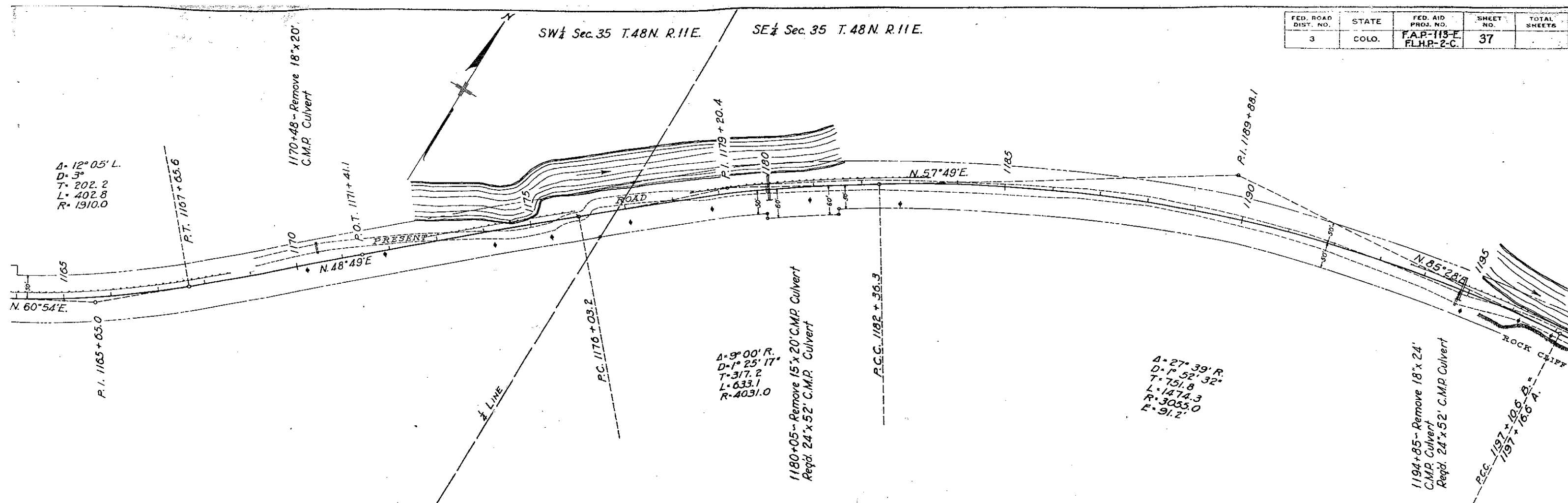
NEARBY STRUCTURE ON SAME STREAM

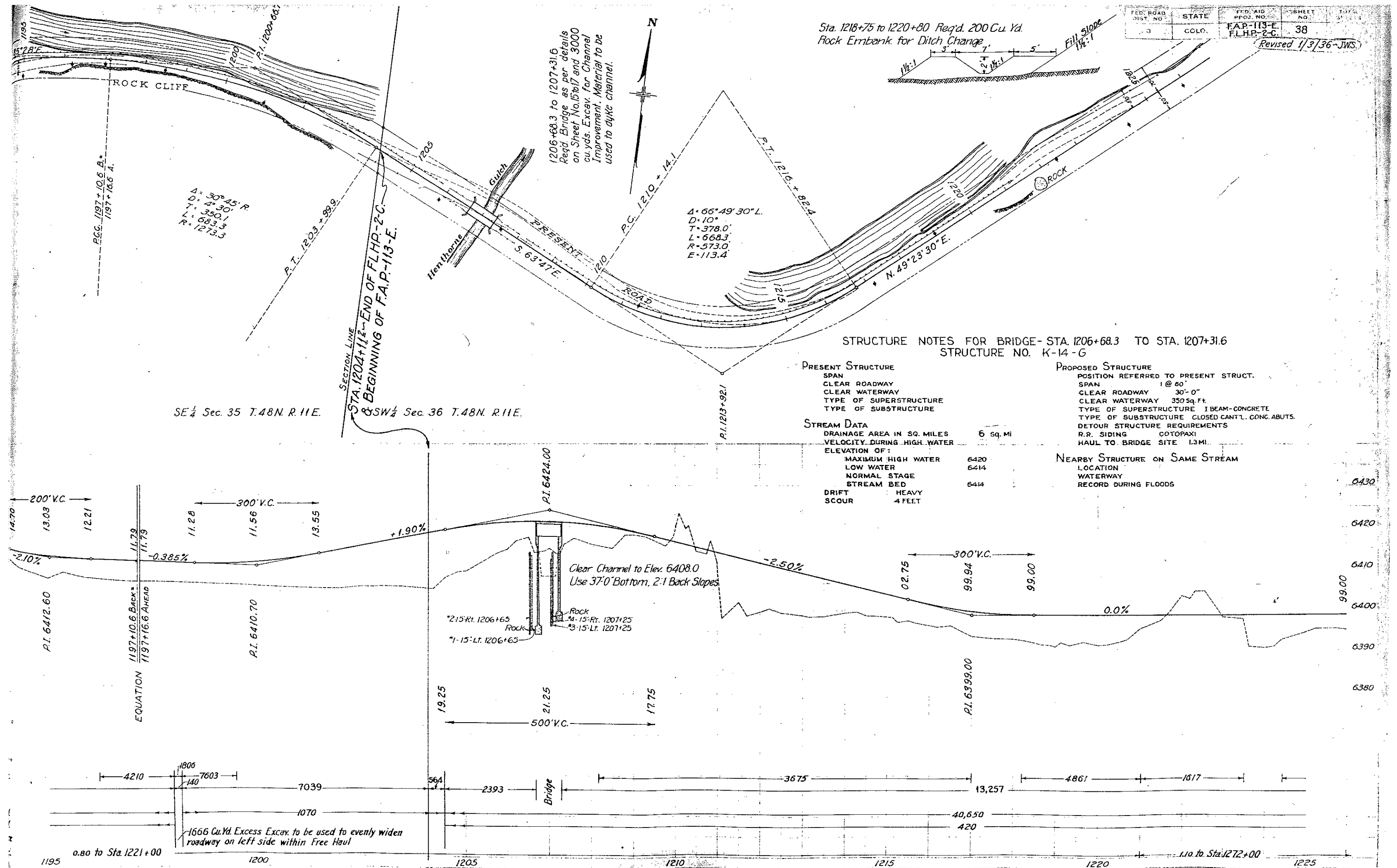
LOCATION	
WATERWAY	
RECORD DURING FLOODS	



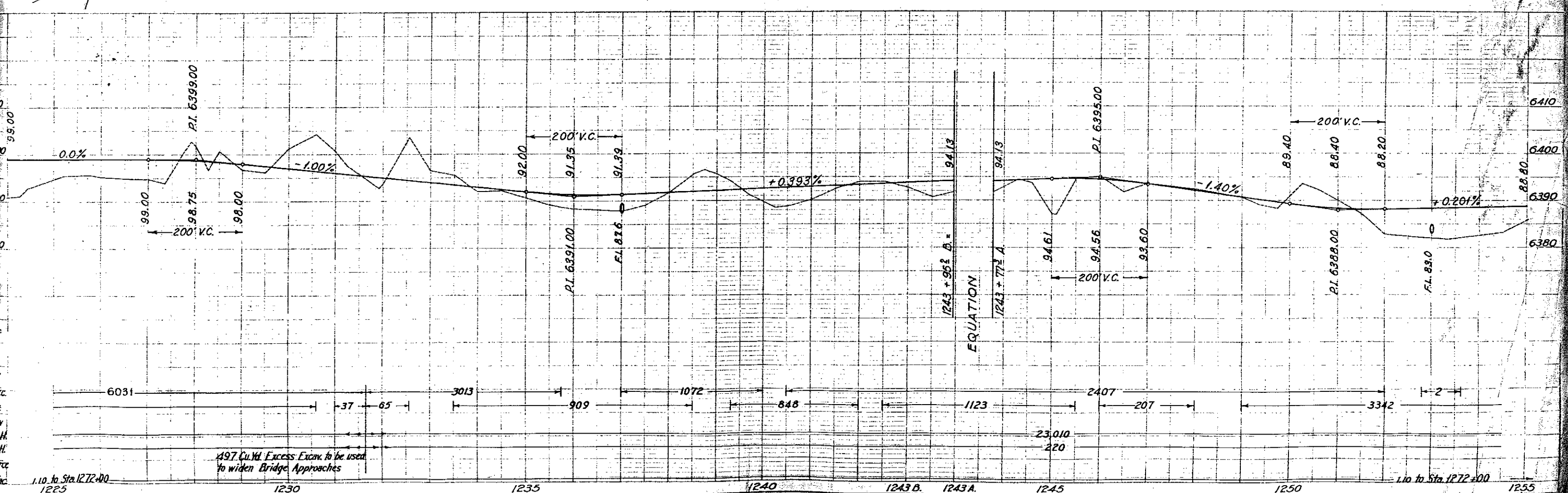
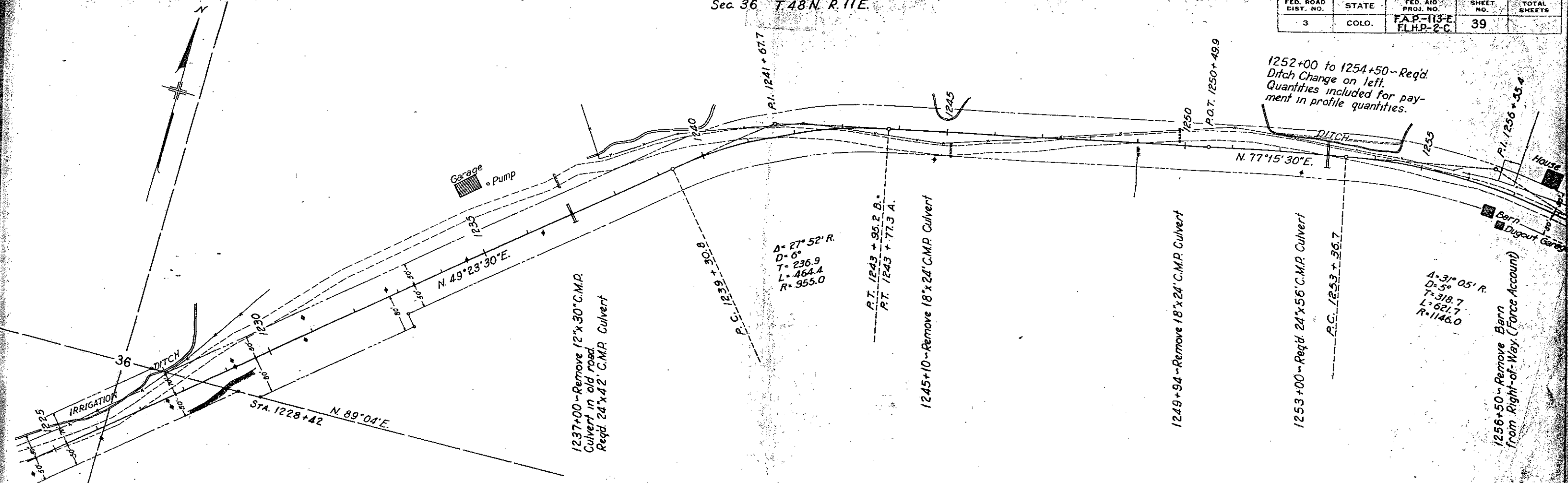


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F.A.P.-113-E FLHP-2-C	37	



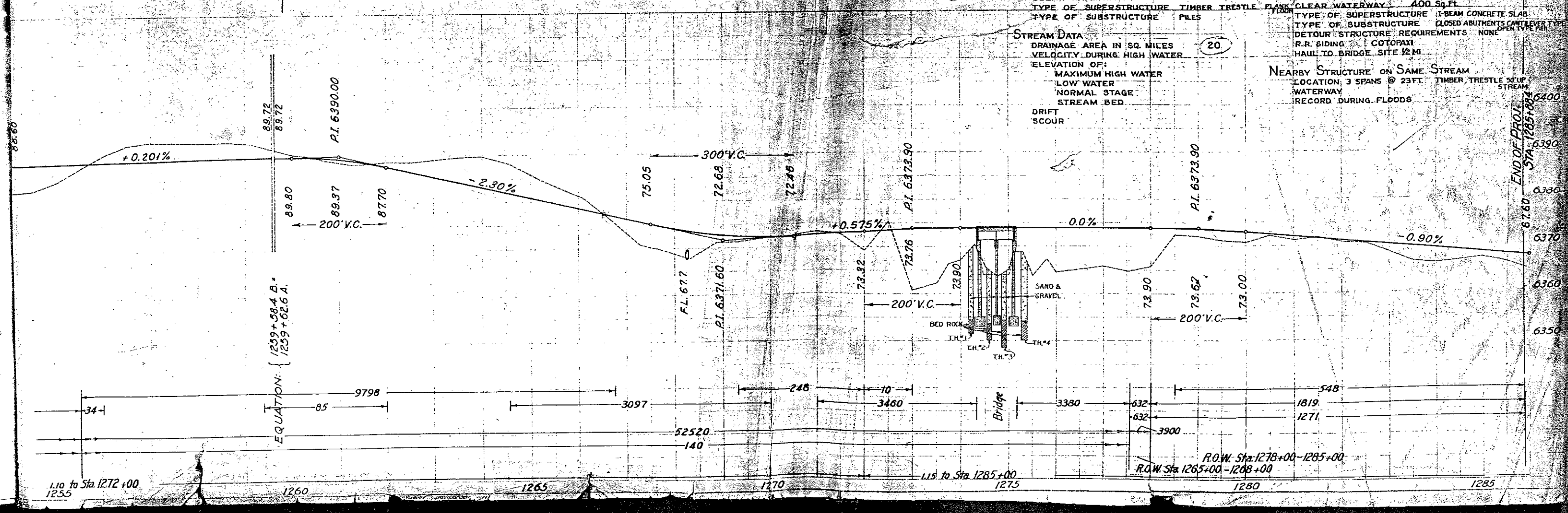
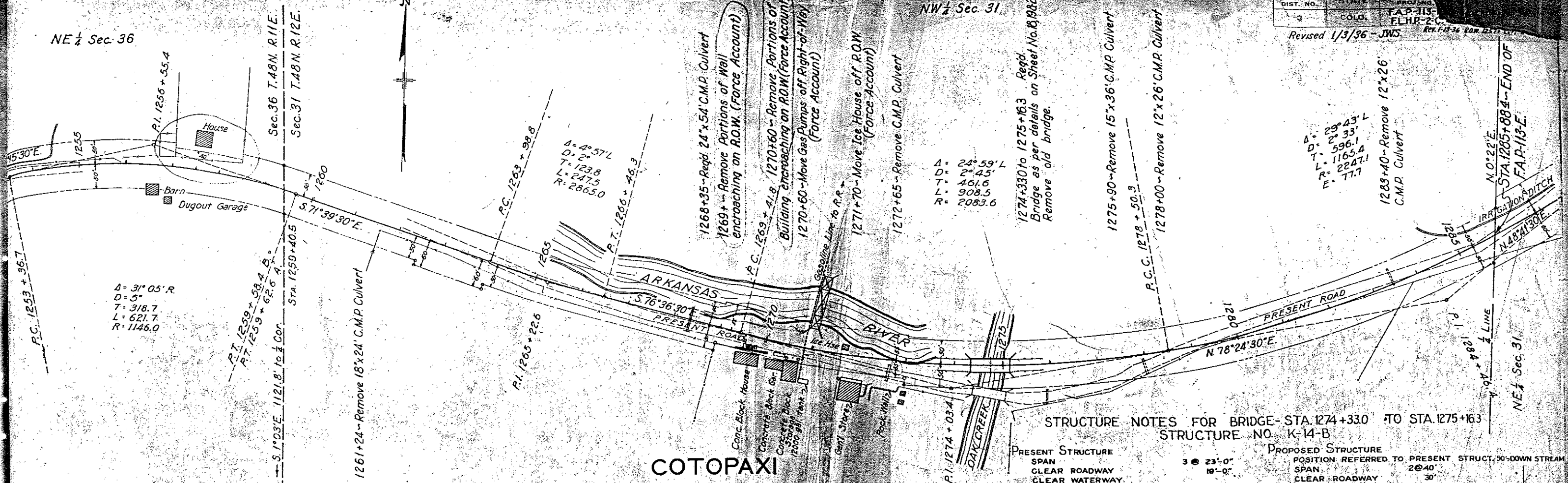


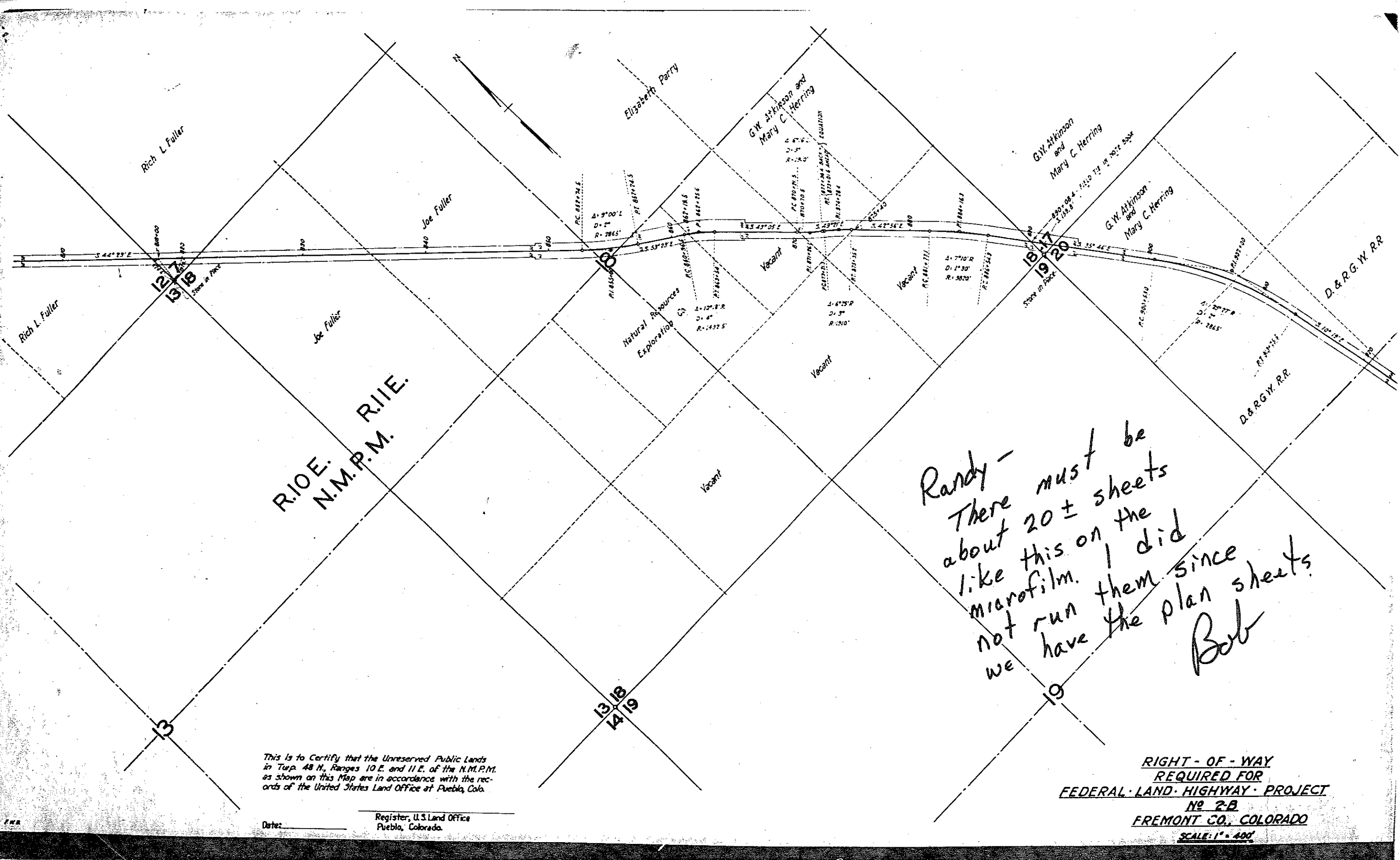
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F.A.P.-113-E F.L.H.P.-2-C	39	



NE 1/4 Sec. 36

Sec. 36 T.48N. R.11E.
Sec. 31 T.48N. R.12E.





R.10E. R.11E.
N.M.P.M.

This is to Certify that the Unreserved Public Lands in Twp. 48 N., Ranges 10 E. and 11 E. of the N.M.P.M. as shown on this Map are in accordance with the records of the United States Land Office at Pueblo, Colo.

Date: _____

Register, U.S. Land Office
Pueblo, Colorado.

Randy -
There must be
about 20 ± sheets
like this on the
microfilm. I did
not run them since
we have the plan sheets.
Bob

**RIGHT - OF - WAY
REQUIRED FOR
FEDERAL LAND HIGHWAY PROJECT
No. 2-B
FREMONT CO., COLORADO
SCALE: 1" = 400'**