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COLORADO
STATE HIGHWAY DEPARTMENT
PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. 152-B
STATE HIGHWAY NO. 4
LAKE COUNTY

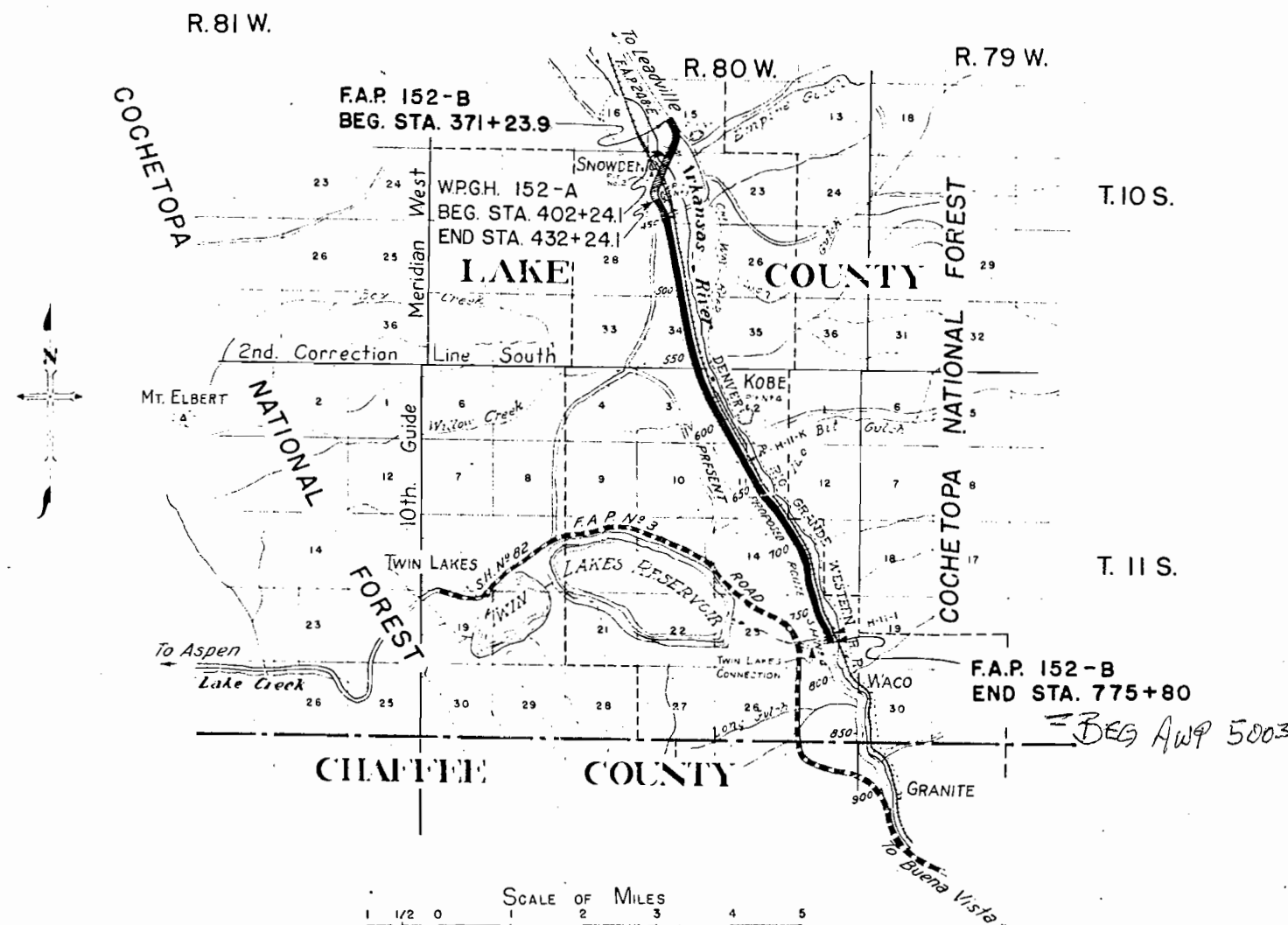
SCALES OF ORIGINAL TRACINGS
ON PLAN, 1 IN. = 100 FT.
ON PROFILE 1 IN. = 100 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
GROSS LENGTH OF PROJECT 40,505.5 FEET = 7.671 MI.
NET LENGTH OF PROJECT 37,505.5 FEET = 7.103 MI.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	152-B	1	

1 S.H. 82 - N. (S.H. 24)

CONVENTIONAL SIGNS

CENTER LINE OF SURVEY 650
RIGHT OF WAY LINES
TOWNSHIP OR RANGE LINES
SECTION LINES
ONE-QUARTER SECTION LINES
RAILROAD TRACKS
BARBED WIRE 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:

Ernest Montgomery Div. Engr. Colorado Springs
E. W. Oviatt Res. Engr. Buena Vista

RECOMMENDED FOR APPROVAL 9/25/36

APPROVED
Chad Hill
STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL
DIST. ENG. BUREAU PUBLIC ROADS
RECOMMENDED FOR APPROVAL
CHIEF ENG. BUREAU PUBLIC ROADS
APPROVED
DIRECTOR BUREAU PUBLIC ROADS

R. O. W. MARKERS

STATION	SIDE	No.
452+00	R	1
452+25	L	1
478+18	R	1
478+34	L	1
504+24	R	1
504+40	L	1
531+16	R	1
531+32	L	1
562+30	R	2
562+30	L	1
583+56	L	1
585+16	R	1
589+30	R	2
615+93	R	1
616+34	L	1
645+94	R	1
646+38	L	1
650+54	R	1
681+10	L	1
711+30	R	1
711+80	L	1
738+38	R	1
738+62	L	1
767+70	R	1
768+08	L	1
TOTAL		27

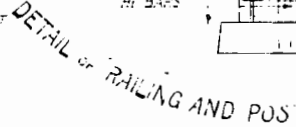
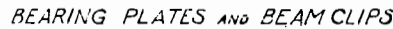
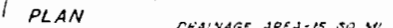
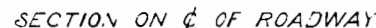
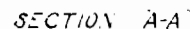
WIRE CABLE GUARD FENCE

STATION	LIN. FT.	
	LEFT SIDE	RIGHT SIDE
432+24 to 436+32	408	
432+24 to 435+65		360
632+03 to 632+69	66	
632+05 to 632+55		50
633+04 to 633+70		66
633+18 to 633+68	50	
654+88 to 661+68		690
657+00 to 662+39	536	
667+00 to 674+14	712	
709+49 to 715+01	552	
747+14 to 769+40	2226	
764+90 to 769+40		450
769+97 to 771+01	104	
769+97 to 770+63		66
TOTAL		6326

TABULATION OF STRUCTURES

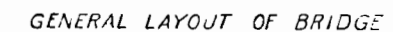
STATION	DESCRIPTION	REMOVE	EXCAVATION	STRUCTURAL EXCAVATION	CONCRETE	REINFORCING	CORRUGATED METAL CULVERT PIPE					MISCELLANEOUS
		STRUCT.	CU. YDS.	CU. YDS.	CU. YDS.	STEEL	10"	18"	24"	30"	42"	
311+24 to 378+00	Ditch change, Rt.		50									
372+76	C.M.P. Cross Culvert & Inlet & Outlet		25	15							64	
	Remove Culvert	1										
375+00	Road Approach Lt.			100								
387+00	C.M.P. Side Drain & Road Approach Lt.			100	2						26	
388+10	C.M.P. Cross Culvert & Ditch Change		40	5							64	
433+75	6'x3'x54' Conc. Box Culvert (Skew) & Inlet		25	80		53.1					60	
435+85	C.M.P. Side Drain & Road Approach Rt.			400	5							
439+65	Remove Timbers & Rubbish from Cellar & Backfill	1		50								
440+00 to 538+00	Intercepting Ditch Rt.		700									
445+00 to 450+00	Remove Cinders from Roadway & Backfill		300	300								
446+00	" Tim. Base of Water Tank & 3" Standpipe	1										
447+60	Remove Timbers & Fill Well	1		100								
451+00	C.M.P. Cross Culvert			5							66	
517+00	C.M.P. Side Drains & Road Approaches Rt. & Lt.			100	5						26	
518+65	Double C.M.P. Cross Culvert & Inlet		20	10							26	
	Remove Culvert	1										
521+95	" " & Backfill Ditch	1		100								
539+00	C.M.P. Side Drain & Road Approach Rt.			50	2						26	
548+45	C.M.P. Cross Culvert (45° Skew)			25							95	
	Remove Wood Bridge (6'x2'x14')	1										
551+70	" Culvert	1										
558+90	C.M.P. Side Drains & Road Approaches Rt. & Lt.			100	5						26	
561+60	C.M.P. Cross Culvert (45° Skew)			20							26	
	Remove Culvert	1										
562+30 to 563+60	C.M.P. Perforated Pipe & Rock Drain										70	
572+50	C.M.P. Cross Culvert			10								
584+50 to 586+00	6'x7'x46' Concrete Box Culvert		100	300		81.0					5364	
595+94	Ditch Change, Rt.			75	70							
626+76	C.M.P. Side Drains & Road Approaches, Rt. & Lt.			300		47.5					3918	
	6'x3'x46' Concrete Box Culvert										26	
632+65 to 633+08.33	Remove Abutments	1										
	Conc. I-Beam Bridge (65° skew) - Channel Improvmt.		300	(Quantities in Summary)								
	Remove Bridge Bents	1										
660+70	8'x8'x56' Concrete Box Culvert-Type 8-I (Skew)			100		118.8					10631	
	Remove Abutments	1										
665+00 to 685+00	Remove Cinders & Backfill		200	200								
734+90	" Culvert	1										
735+47	C.M.P. Cross Culvert & Inlet & Outlet		25	10							60	
769+42.67 to 769+95	Concrete I-Beam Bridge			(Quantities in Summary)								
775+80	Project Marker											
435+85	Cattle Guard (16 ft. Roadway)											
566+73 to 572+50	Ditch, Rt.		400									
	WORK TO BE DONE BY WESTERN UNION CO. FORCES											
667+00 to 765+00	Remove & Rebuild Western Union Pole Line											
	FORCE ACCOUNT											
563+50 to 573+00	Remove 9 Structures											
TOTALS		13	2185	1675	969	300.4	24135	70	269	194	304	112

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

Revised Directives As Constructed 4:8 38 RAD

SUMMARY OF QUANTITIES FOR ENTIRE BRIDGE

- 1000'S 20 G: G4s 40'S SHEETS AT 400' WET PLANTS.



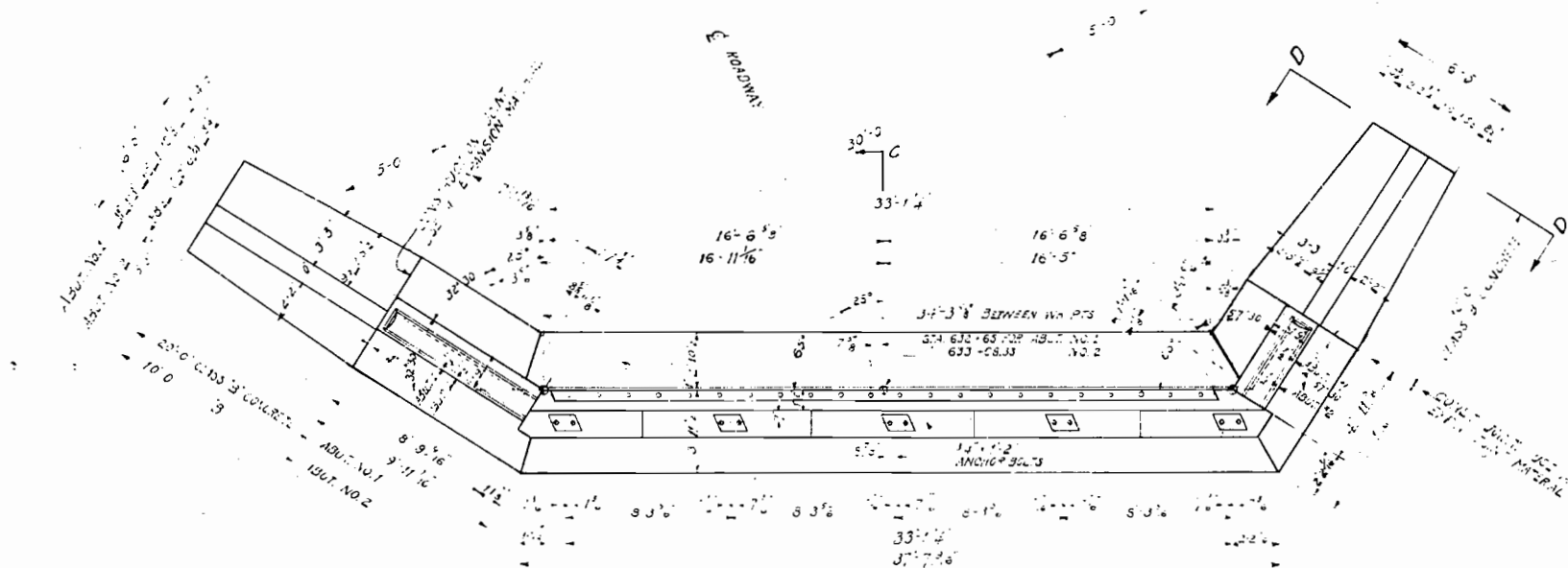
CAMBER DIAGRAM

ER DIAGRAM _____ GENERAL NOTES _____

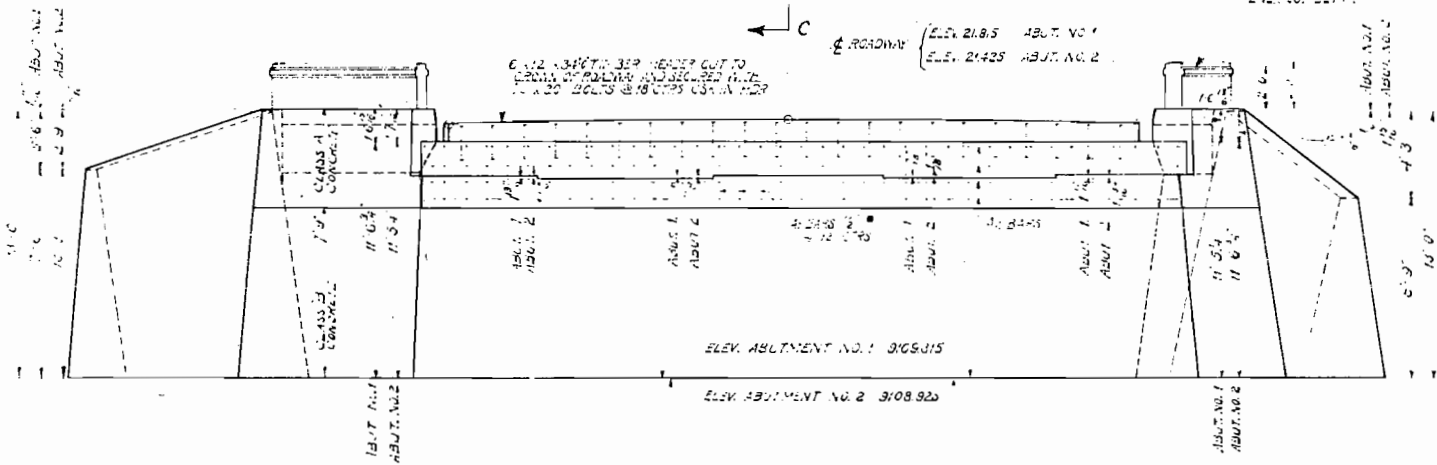
REFERENCE DRAWING For Abutment Details
and Bar Lists, see sheet H-5

STRUCTURE NO. *H-11-K*

FED. ROAD DIST. NO.	STATE	F.A.P.	SHEET NO.	TOTAL SHEETS
3	COLO.	152-B	5	



PLAN OF ABUTMENTS



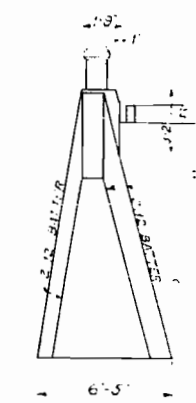
ELEVATION OF ABUTMENTS-NO.1 OR NO.2

BAR LIST FOR SUPERSTRUCTURE

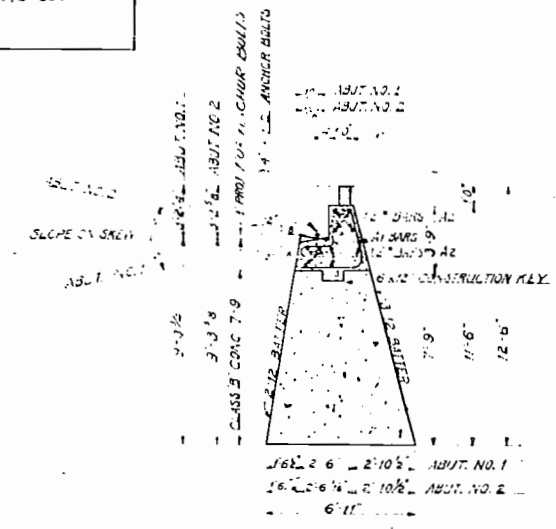
MARK	SIZE	NO. REQ'D	LENGTH	BENDING DIAGRAM
E1	5/8"	124	37'-9"	
E2	5/8"	30	37'-0"	
D1	5/8"	88	22'-3"	
H1	1/2"	56	6'-6"	
H3	1/2"	16	16'-0"	
H4	1/2"	20	3'-9"	
SUMMARY 7,500 LBS. 5/8" BAR STEEL @ 104.5' PER FT. = 8080 LBS. 695 1/2" @ 0.85' = 591 + 1% OVERRUN TOTAL = 8,660 LBS.				

BAR LIST FOR ONE ABUTMENT (2 REQ'D)

MARK	SIZE	NO. REQ'D	LENGTH	BENDING DIAGRAM
A1	1/2"	3	11'-2"	
A2	1/2"	10	36'-0"	
H5	1/2"	10	4'-4"	
H2	1/2"	18	8'-6"	
H6	1/2"	10	8'-0"	
SUMMARY 1,350 LBS. 1/2" BAR STEEL @ 0.85' PER FT. = 1147 LBS. + 1% OVERRUN TOTAL = 1275 LBS.				



SECTION D-D
OPPOSITE WING SIMILAR



SECTION C-C

Max. Ice Pressure = 4800' ft

LOADING DATA.

LIVE LOAD A.A.S.H.O. 1915 CLASS A, H-15

DEAD LOAD ASSUMES 14 LBS. PER SQ. FT.

ADDITIONAL WEARING SURFACE WHICH INCLUDES THE 1/4" CONCRETE MINIMUM WEARING SURFACE SHOWN.

COLORADO

STATE HIGHWAY DEPARTMENT

140 FT. I-BEAM AND CONCRETE SPAN

ABUTMENTS NO. 1 AND 2

Across Sta. 632+65 to Sta. 633+08.33

Near KOBE, COLO. Sec. 11 T. 11-S. R. 80-W

DESIGNED BY G.C.D.

MADE BY G.C.D.

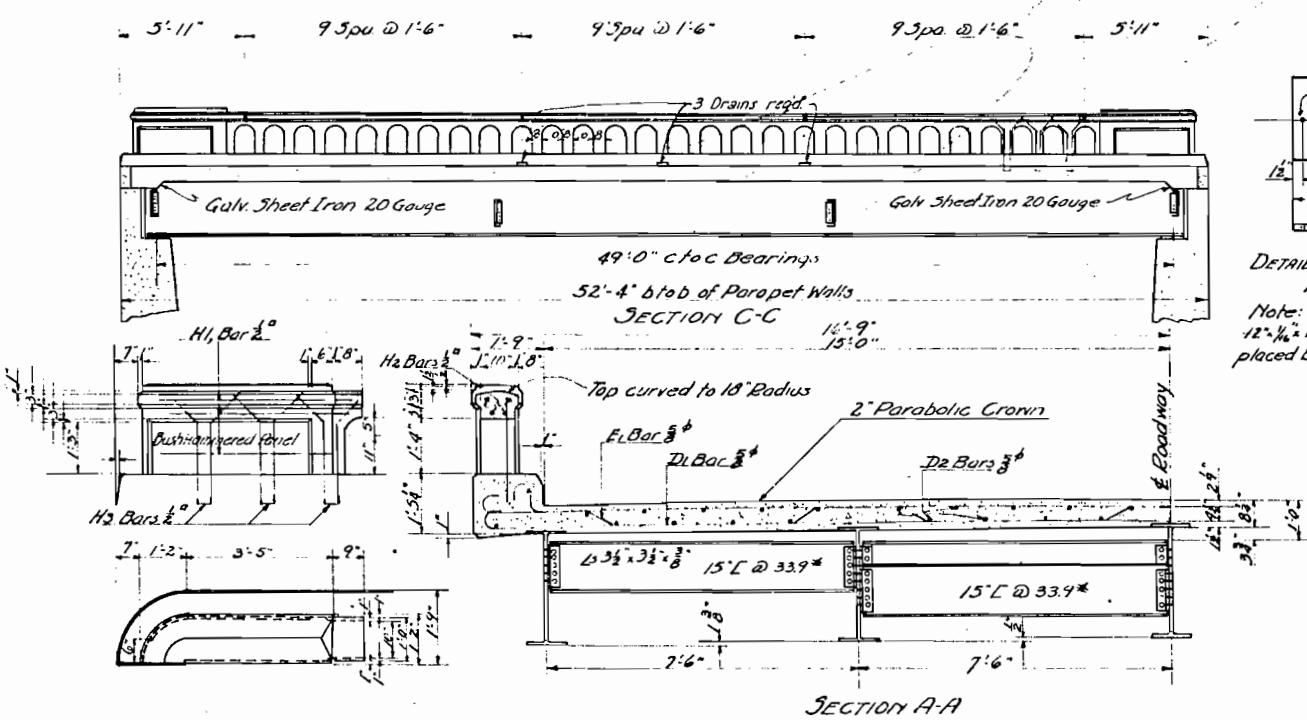
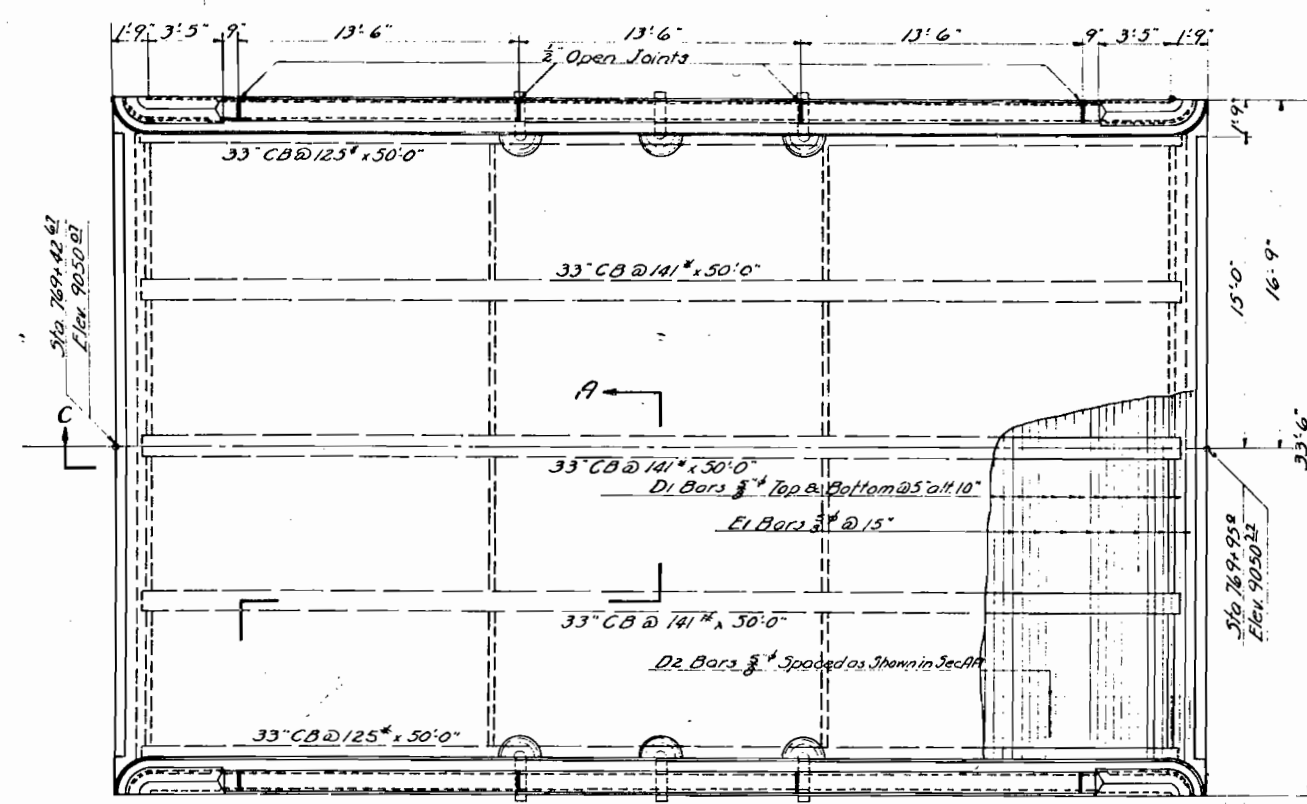
CHECKED BY E.D.W.

DATE: FEB. 25, 1936

APPROVED BY P.D. Bailey

BRIDGE ENGINEER

REFERENCE DRAWING For Details of Superstructure, General Layout and Summary of Quantities, see sheet No. 4

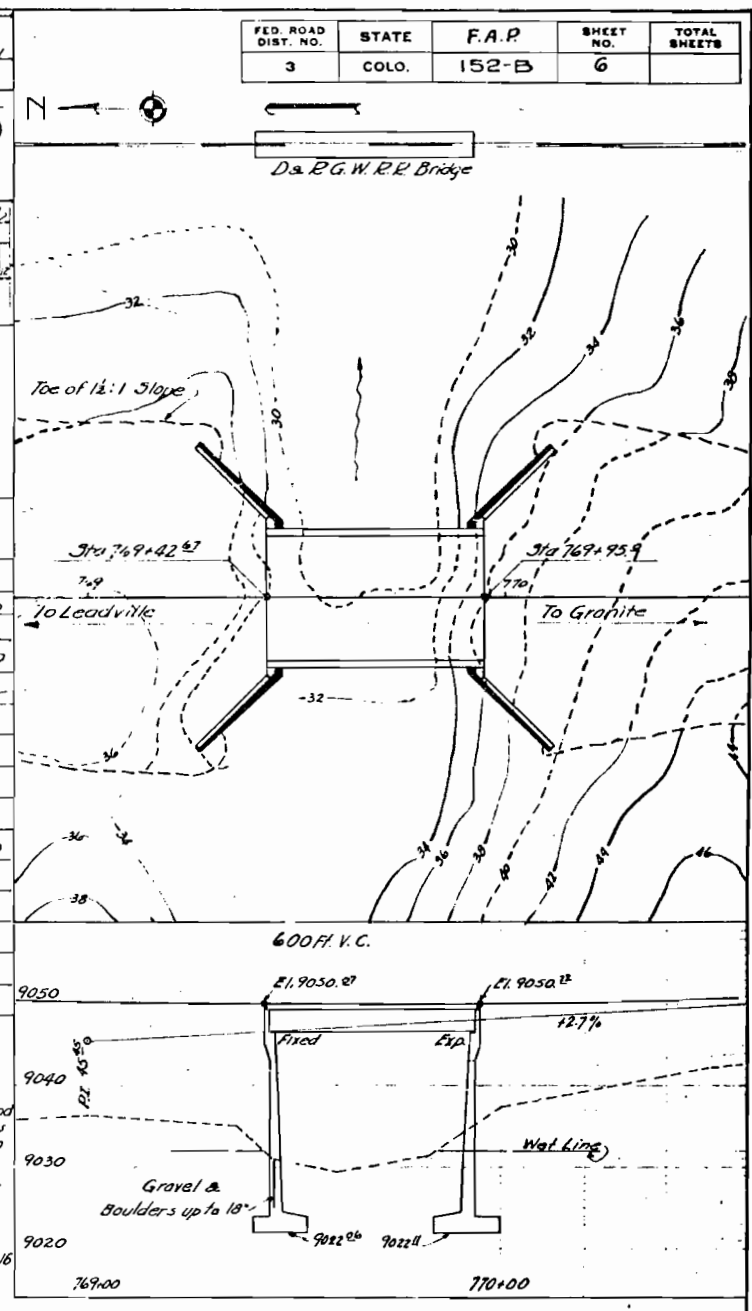
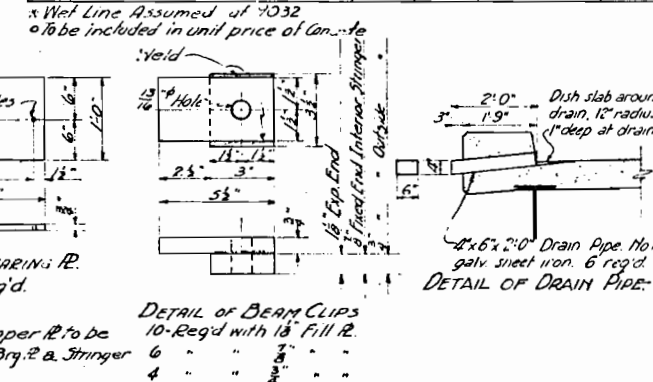


BAR LIST FOR SUPERSTRUCTURE

PK	TYPE	SIZE	NO.	LENGTH	1	m	r	t	BENDING DIAGRAM
D1	VIII	3/8"	164	34'-3"	32.7		2 1/2	2'	TYPE VIII
E1	IX	3/8"	41	34'-8"			2 1/2	2'	
D2	II	3/8"	80	26'-10"	Straight				
H1	II	1/2"	20	4'-6"					TYPE IX
H2	II	1/2"	24	13'-0"					
H3	X	1/2"	66	6'-4"					
Summary									
				9253 Lin Ft	3/8"	1.043		9651*	
				820	1/2"	0.85		697*	
				11%				102*	
				Total				10450*	

SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	SUP. STRE.	SUB. STRE.	TOTALS
46a	Class A Concrete	Cu. Yd.	55	454	509
47	Reinforcing Steel (Inc 1 1/2%)	lb	10450	46600	57050
48	Structural Steel (Inc 1 1/2%)	lb	35500		35500
14c	Structural Exc. Wet Rock	Cu. Yds		10	10
14d	" " Wet Corn.	"		930	930
14b	" " Dry "	"		130	130
89x	Drain Pipe 4" x 2'0"	Each	6		6
42a	Untreated Bridge Timber	M.B.M.		0.360	0.360
80c	Sheet Copper (Brq. R.) 12" x 1/2" x 1/2"	lb		36	36
	Expansion Joint Mat 1/2" x 12"	Lin Ft.		50.2	50.2
	" " " 1/2" (10" x 2")	Lin Ft.		50.5	50.5
	Gal. Sheet Iron 20 Gauge	lb	140		140



LOADING DATA.
LIVE LOAD A.A.S.H.O. 1939 CLASS A (H-16)
DEAD LOAD ASSUMES 16 LBS. PER SQ. FT.
ADDITIONAL WEARING SURFACE WHICH INCLUDES THE 1/4 IN. CONCRETE MONOLITHIC WEARING SURFACE SHOWN.

REFERENCE DRAWINGS
FOR DETAILS OF ABUTMENT SEE SHEET 1197.
GENERAL NOTES SEE SHEET No. 4.
MAX. TCC PRESSURE 3700 #/sq.

COLORADO
STATE HIGHWAY DEPARTMENT
GENERAL LAYOUT AND SUMMARY
Across TWIN LAKES CREEK
Sta. 769+42.67 TO 769+95.0
Nearby ALCON GRABITE Sec. 24 T. 11 S. R. 30 W.

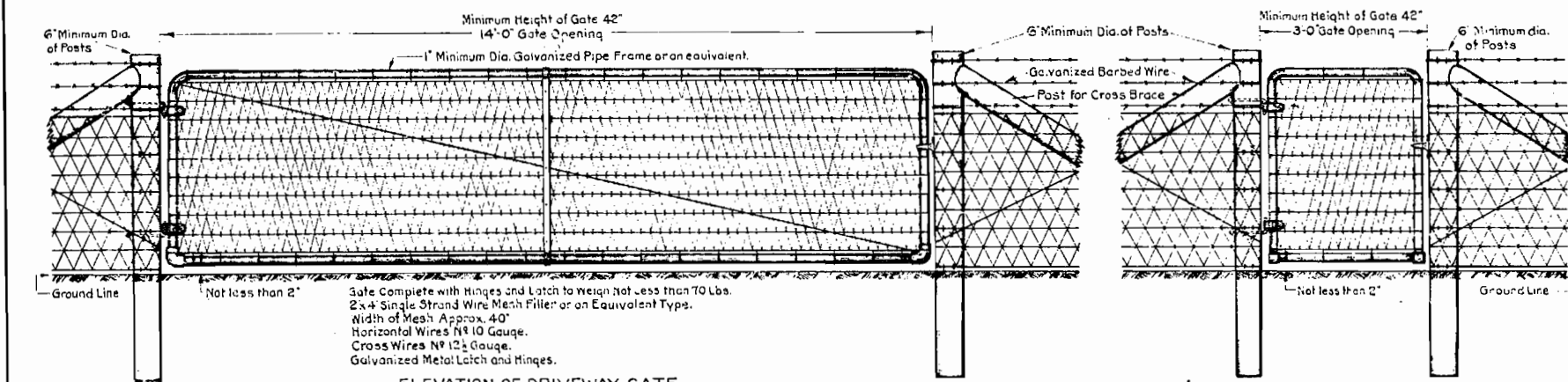
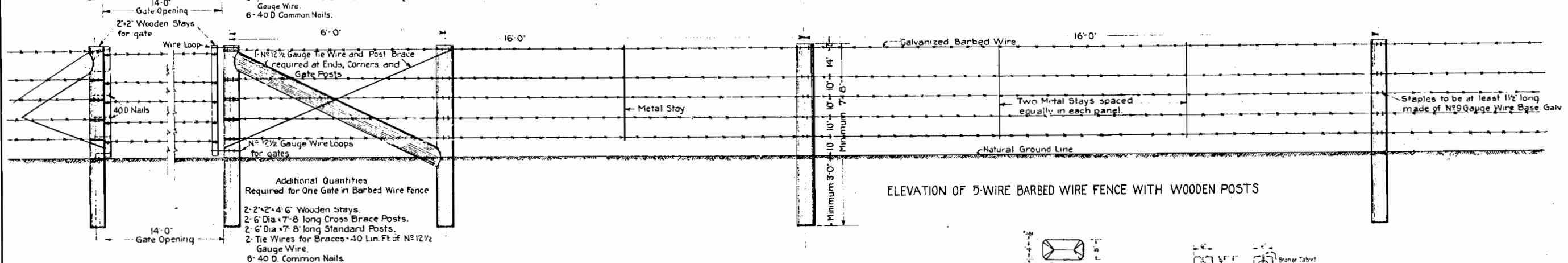
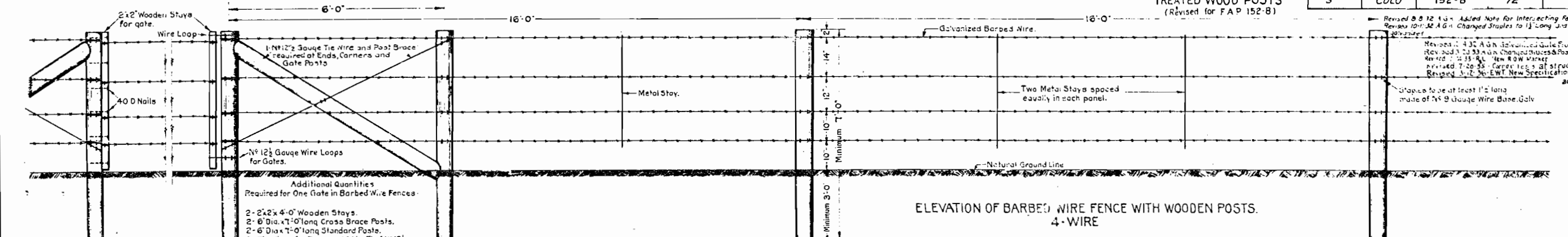
Designed by L.D.N.
Made by A.D.N.
Check Design A.D.N.
Check Detail A.D.N.

Approved by R.D. Bousley
Bridge Engineer
Date: March 22, 1936

STANDARD M-24-F TREATED WOOD POSTS (Revised for FAP 152-8)

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	SHEET No.	TOTAL SHEETS
3	COLO.	152-B	12	

Revised 8-9-12 A.G. Added Note for Intersecting Fences
Revised 10-1-32 A.G. Changed Staples to 1 1/2" Long and to be
added
Revised 4-30-33 A.G. Galvanized Gate Frames.
Revised 5-20-33 A.G. Changed Staples & Post-ends
Revised 7-25-33 A.G. New R.O.W. Marker
Revised 7-25-35 - Corner legs of structure
Revised 3-12-36 E.W.T. New Specifications: 5-Wire
added

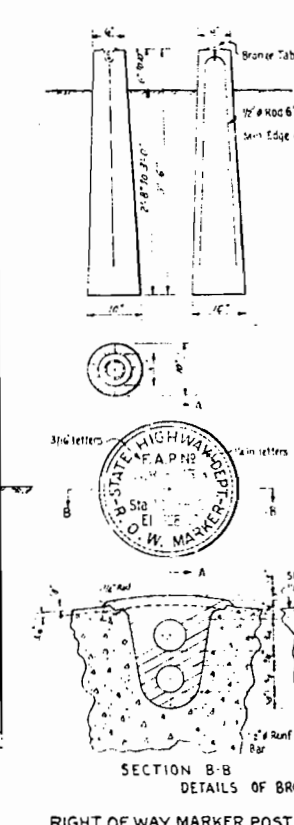
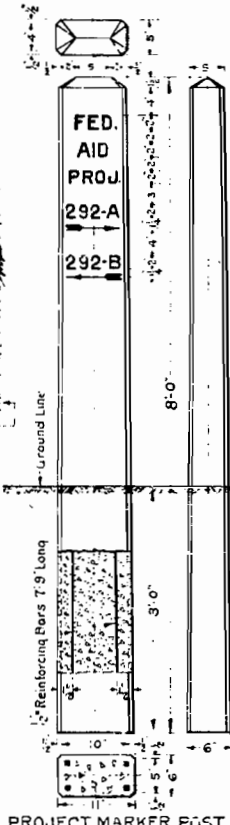
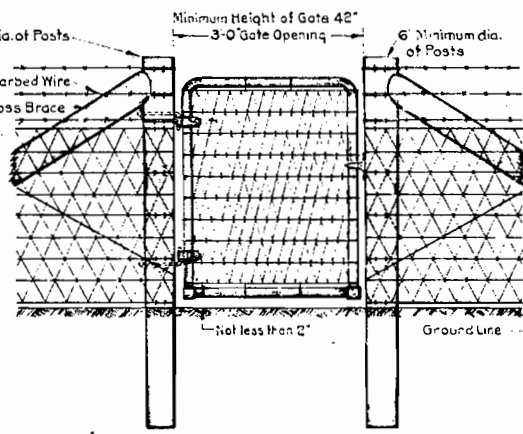


GENERAL NOTES FOR WIRE FENCES.

All work shall be done in accordance with the Standard Specifications of the Colorado State Highway Department, Adopted Aug. 1, 1935.
Barbed Wire shall be of Standard Make, not lighter than No. 12 1/2 Gauge, Galvanized and with Two Point Barbs spaced not more than 5" apart.
Wire Mesh must be galvanized and not lighter than shown and noted on this plan.
Wire Mesh used in Driveway Gates shall be painted with an approved waterproof asphalt or mineral paint.
Staples shall be at least 1 1/2" long, made of No. 9 Gauge Wire Base Galv. 8 staples reqd. per post for parallel wire fence and 4 Staples per post for Combination Wire Fence.
All Wooden Posts shall be made from seasoned, straight, sound, lodgepole or Yellow Pine, peeled, and tops sawed off square before pressure treatment as provided in the Specifications.

Four Corner Posts (with Brace and supplemental Posts) and four Endposts shall be used of each Structure over 4' x 4' in size, and fence turned in and ended at Wings.

Cross Braces, Brace Posts and Tie Wires are to be used at all places where intersecting fences are encountered.



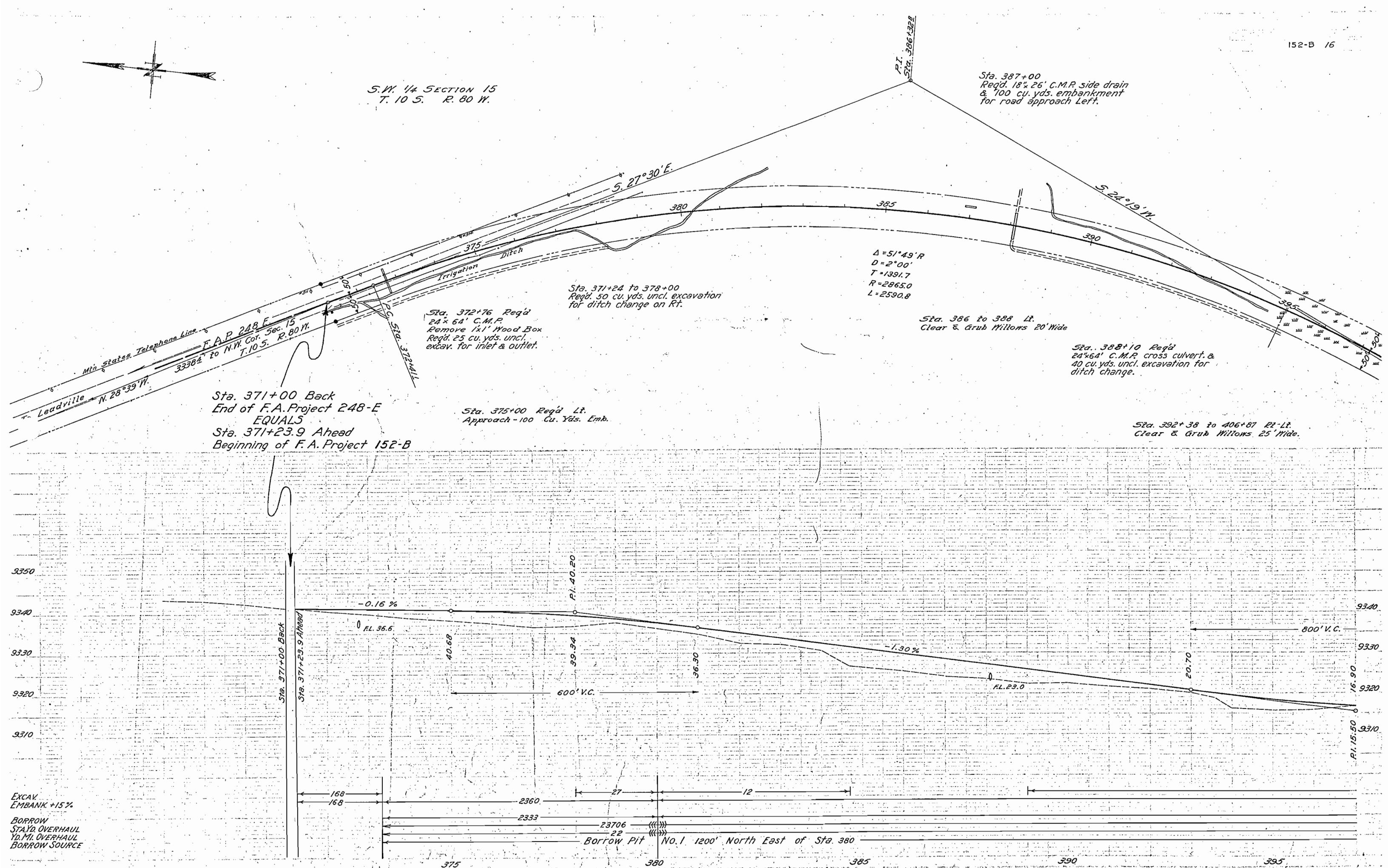
NOTES FOR PROJECT MARKER POSTS.
All Letters and Numbers shall be 2" High, in Upright Block, Painted or Stenciled on the Concrete with a good quality of Black Paint. See item No. 11 - "Second Field Coat - Dark".
Numbers and arrows shall show the proper numbers and directions of the projects, such way, from where the post is placed.
Post is to be set with sign facing the road at the end of the project. Five feet beyond edge of shoulder in such a position that the sign will properly indicate the projects to which it refers.
All work shall be done in accordance with Standard Specifications of the Colorado State Highway Department, adopted on Aug. 1, 1935.
Posts shall be made of Class "A" Concrete except use white Portland Cement.
All exposed surfaces shall be rubbed free of form marks.

NOTES FOR R.O.W. MARKER POSTS.
All work shall be done in accordance with Standard Specifications of the Colorado State Highway Department, adopted on Aug. 1, 1935.
All exposed surfaces of the Bronze Tablet are to be ground to a smooth surface.
All letters are to be depressed a minimum of 1/16 inch.
Information on the Bronze Tablet indicated by pin lines is to be stamped in the field by the engineering party after post is placed. All letters & figures to be used Posts shall be made of Class "A" Concrete.
The upper 12 inches of marker shall be rubbed free of form marks, and the top surface of marker must be constructed to drain thoroughly.

**COLORADO
STATE HIGHWAY DEPARTMENT
STANDARD
WIRE FENCES
AND
MARKER POSTS**

Designed by AGK Approved by P. D. Butler
Made by AGK Bridge Engineer
Checked by GHO Date: Feb. 1, 1932.

ORIGINAL BY	DATE
EW.T.	3-11-36
CHECKED BY	DATE
WANDYKE BY EW.T.	3-12-36
CHECKED BY	



FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F.A.R. 152-B	17	

3	COLO.	F.A.P. 152-B	17
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Sta. 397+00 to 402+24.1
 Remove and burn ties on old
 Colo. Midland R.O.W.
 Sta. 404+ to 406+
 Remove beaver dams.
 Payment for removing and burning
 old RR ties on old Colorado Midland
 R.O.W. and for removing beaver dams,
 shall be included in the lump sum
 bid for clearing and grubbing the
 entire project.

P.T. 398+31.9

ARKANSAS RIVER

LAKE

S 24° 19' W

Sta. 417+24.1 & D.R.G.W. Main Line.

P.C. 418+24.0

Passing Track
 Main Line
 D.R.G.W.
 Colo. Midland R.O.W.

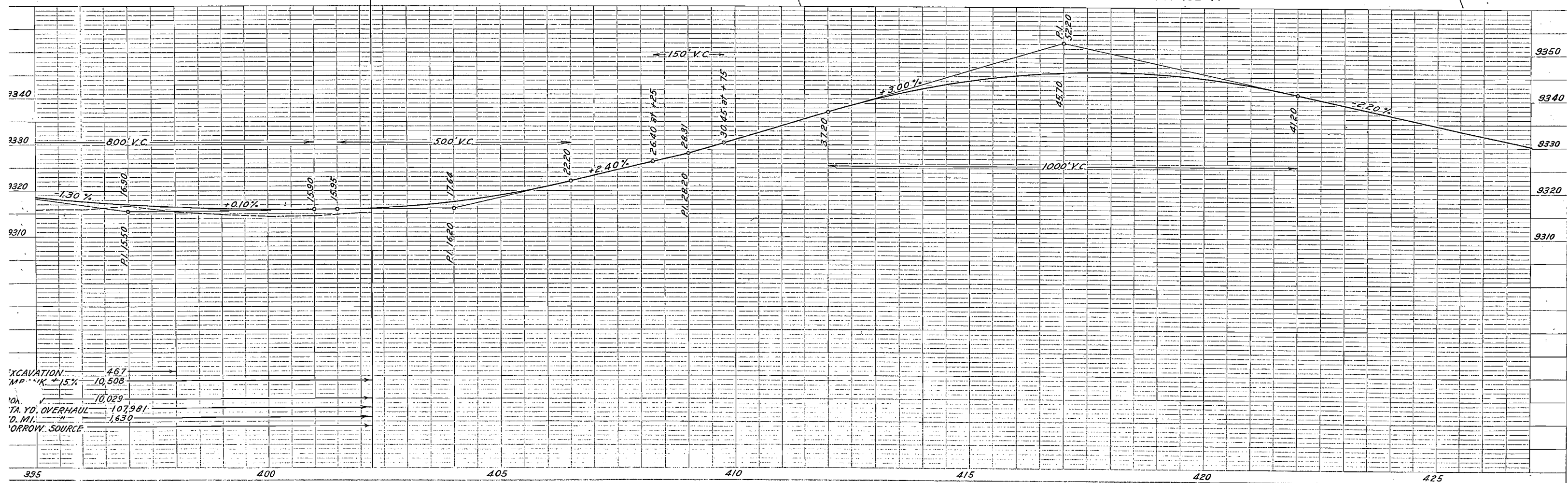
Δ 53° 54' L
 D 3° 00'
 T 971.1'
 L 1796.7'
 R 1910.0'

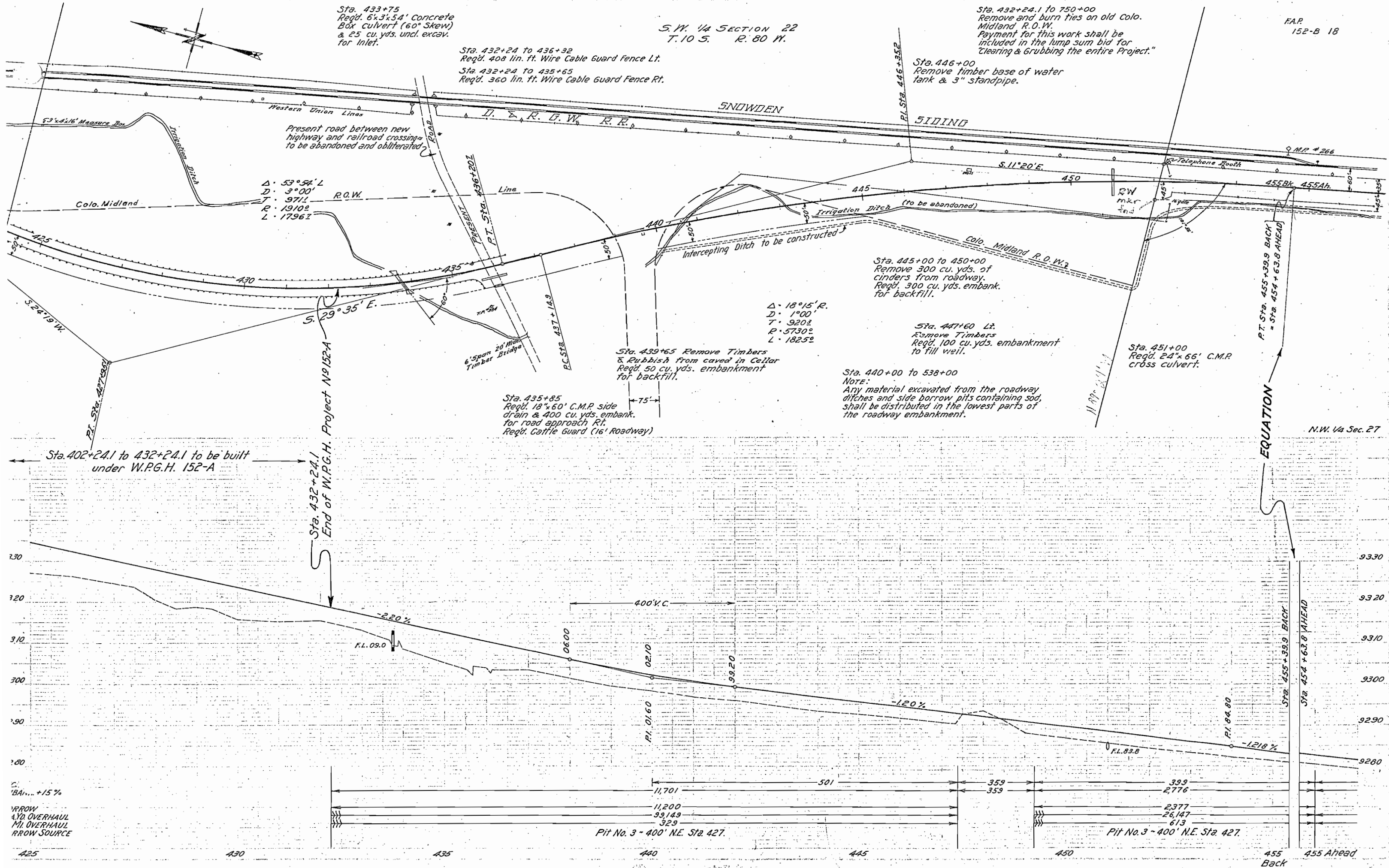
Colo. Midland R.O.W.

S 69° 08' W
 409+18.3

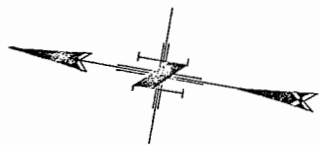
S 69° 01' W
 424+04.9

Sta. 402+24.1 to 432+24.1 to be built under W.P.G.H. 152-A



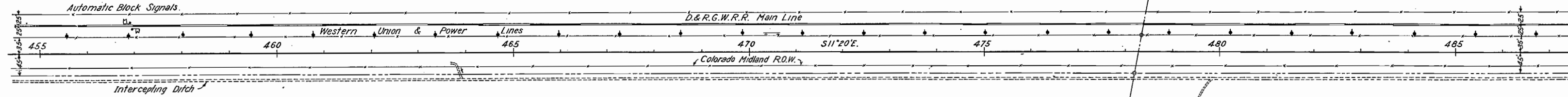


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	152-B	19	



N.W. 1/4 Section 27 T.10S. R.80W.

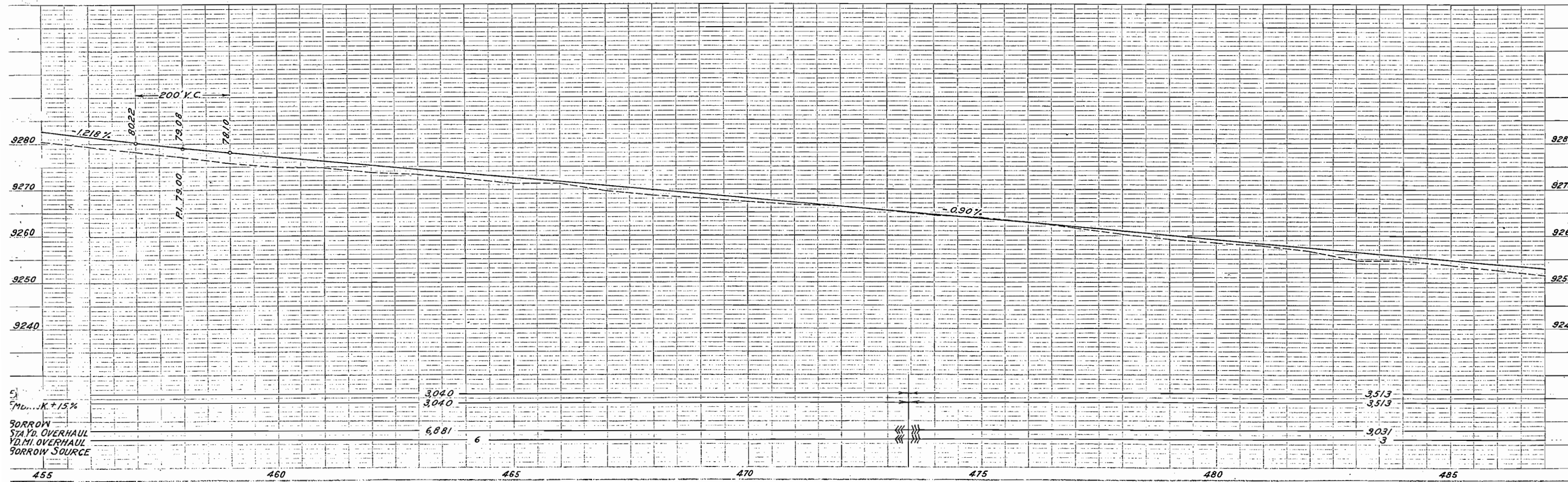
SW 1/4 Section 27

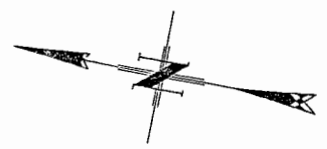


Sta. 463+
Combine borrow pit ditch
with intercepting ditch.

Sta. 465+50 to 537+00
Clear & grub willows 35' wide.

Sta. 440+00 to 538+00
Reqd. 700 cu. yds. uncl. excavation
for intercepting ditch.
Excavated material shall be used
for building a continuous dike on
the East side of the ditch.

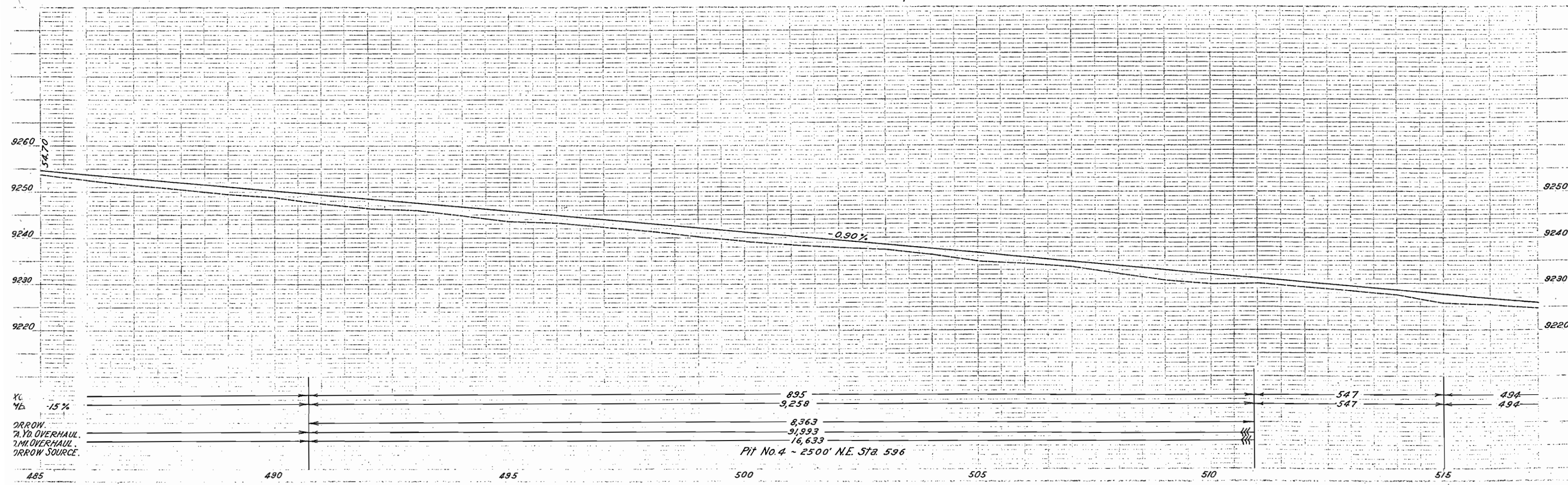
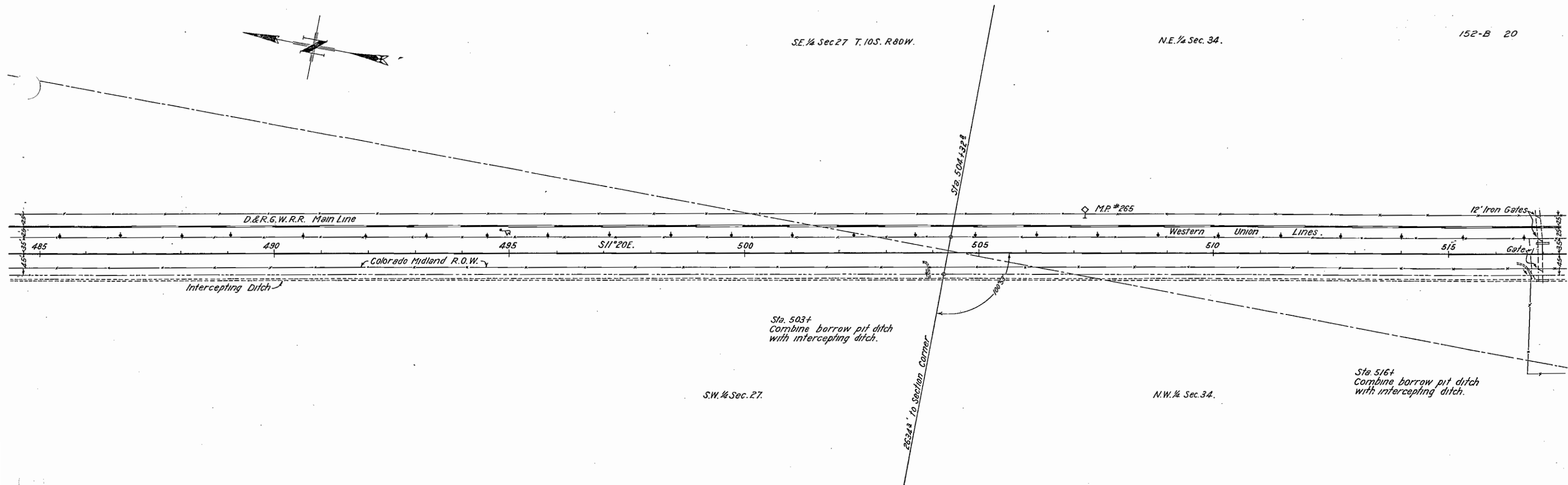




SE 1/4 Sec 27 T. 10S. R. 80W.

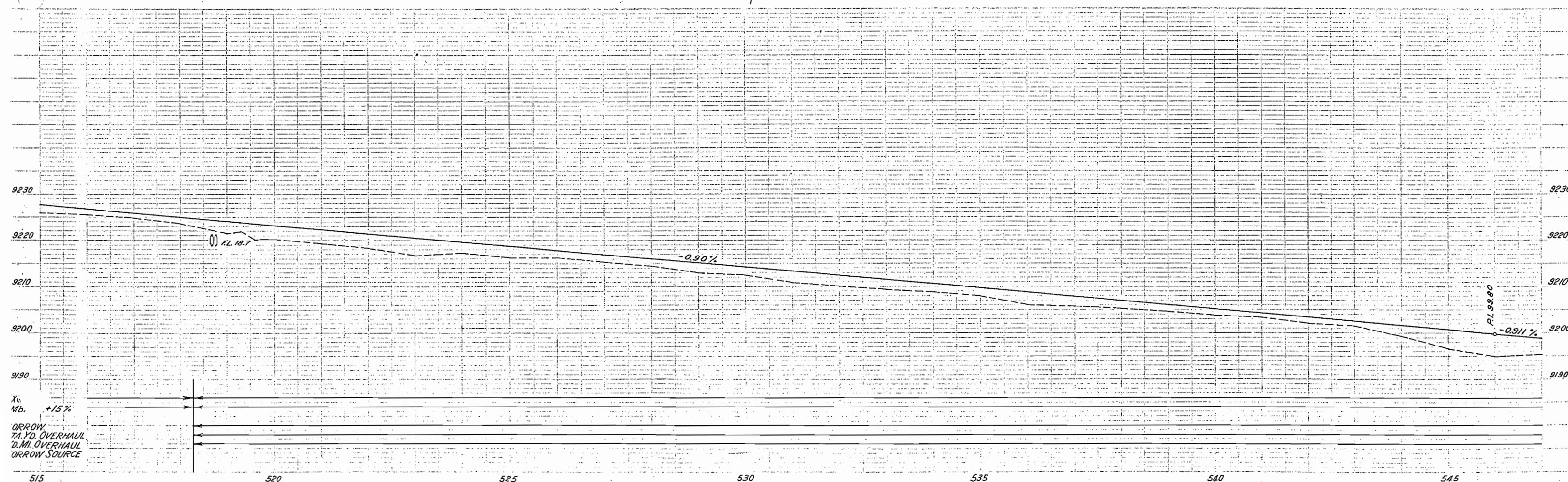
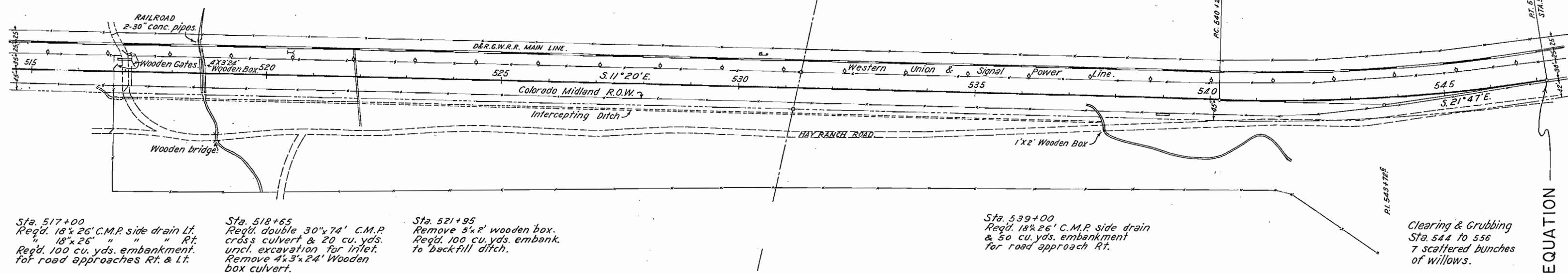
N.E. 1/4 Sec. 34.

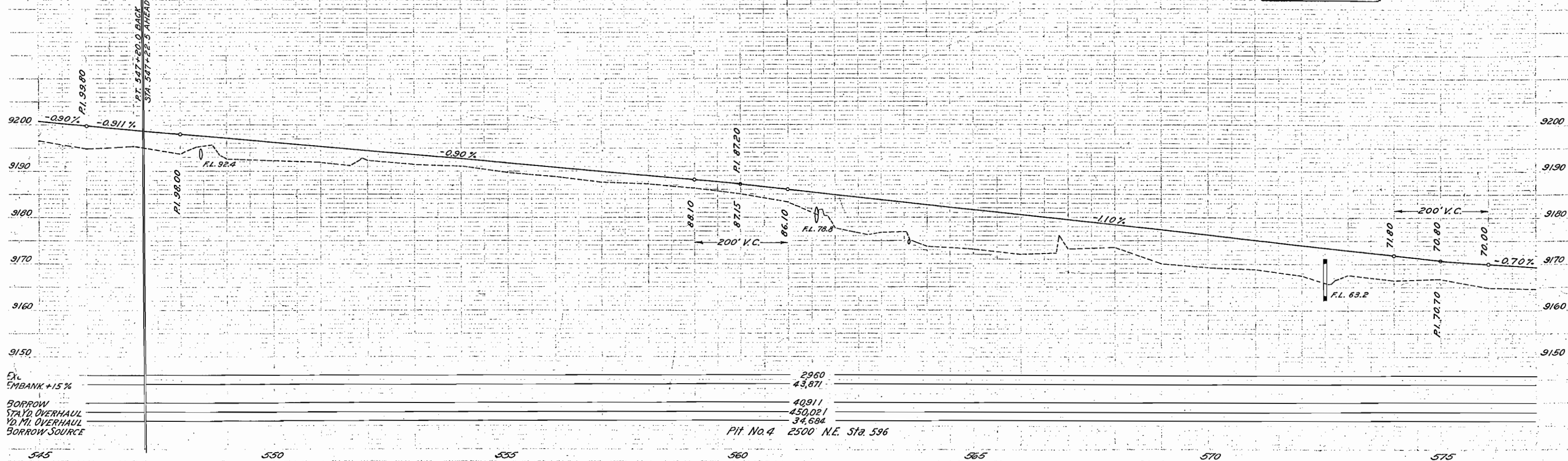
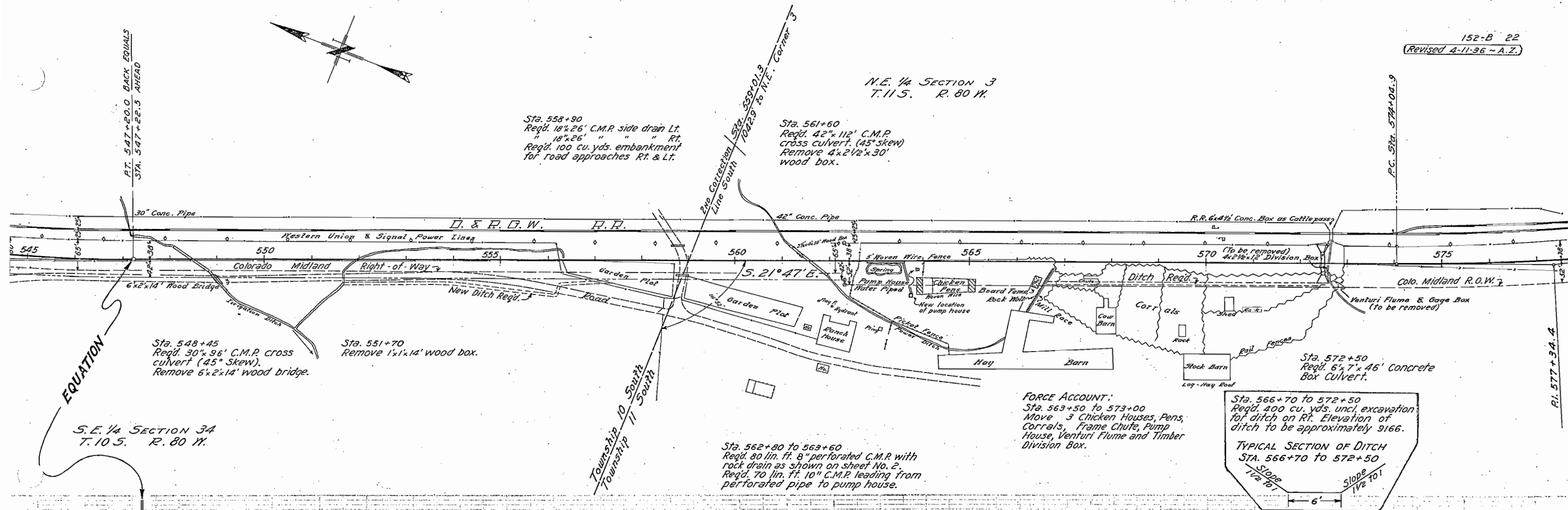
152-B 20



N.E. 1/4 Sec. 34.
T. 10 S. R. 80 W.

S.E. 1/4 Sec. 34.

 Δ 10° 27' L.
 D 1° 30'
 T 348.3'
 L 696.2'
 R 3820°




N.W. 1/4 SECTION 2
T.11 S. R. 80 W.

S.W. 1/4 SECTION 2
T.11 S. R. 80 W.

Borrow Pit No. 4, East of
Arkansas River in N.E. 1/4
S.W. 1/4 Sec. 2, T.11 S., R. 80 W.

KOBE SIDING

$\Delta = 6^{\circ}35' L$
 $D = 1^{\circ}00'$
 $T = 3295'$
 $R = 57302'$
 $L = 6582'$

PI. Sta. 580+63.2 Back.
Sta. 580+66.8 Ahead

2303.3' to NE COR.

D. & R. G. W. R. R.

Western Union & Signal Power Lines

Road on D. & R. G. W. R. O. W.

Loading Platform

Sec. House

Bunk No.

Tool No.

S 21°47' E

S 28°22' E

Colo. Midland R.O.W.

Colo. Midland R.O.W.

Road

4x1x14' Wood Bridge

Entrance fence to be
built as shown.

Irrigation Ditch

Sta. 584+21.8

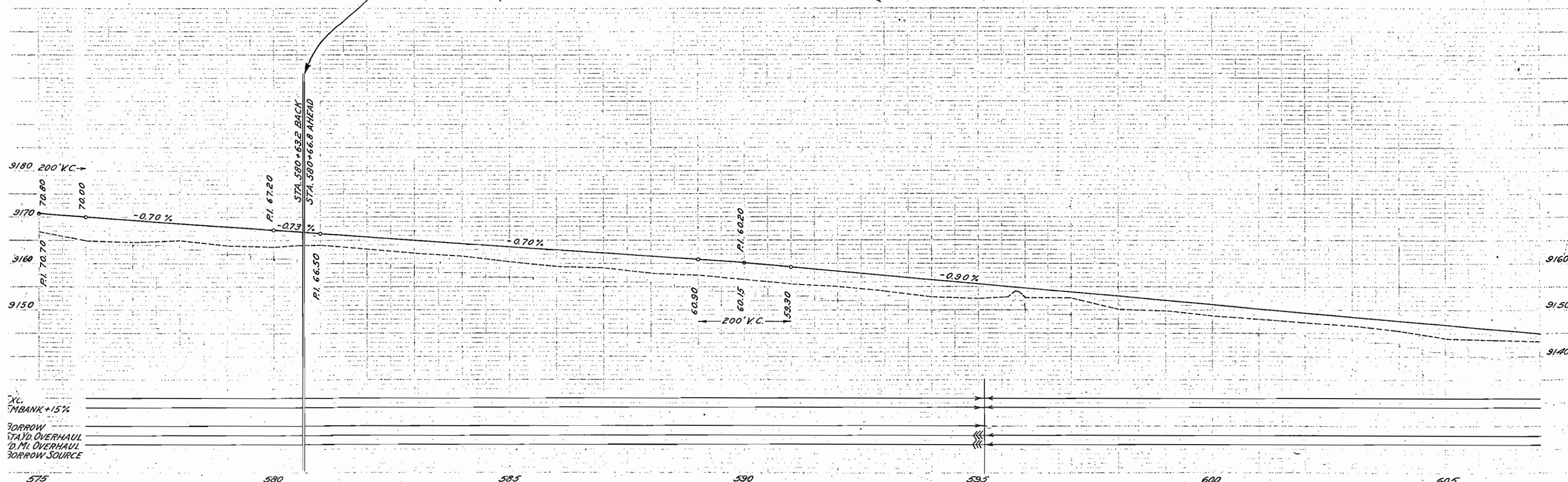
Sta. 584+50 to 586+00
Req'd. 100 cu. yds. uncl.
excavation for ditch change.

Sta. 595+84 Req'd
2-18x26' C.M.P. Side Drains &
75 Cu. Yds. Embankment for
Approaches Rt. & Lt.

NE. 1/4 SECTION 3
T.11 S. R. 80 W.

EQUATION

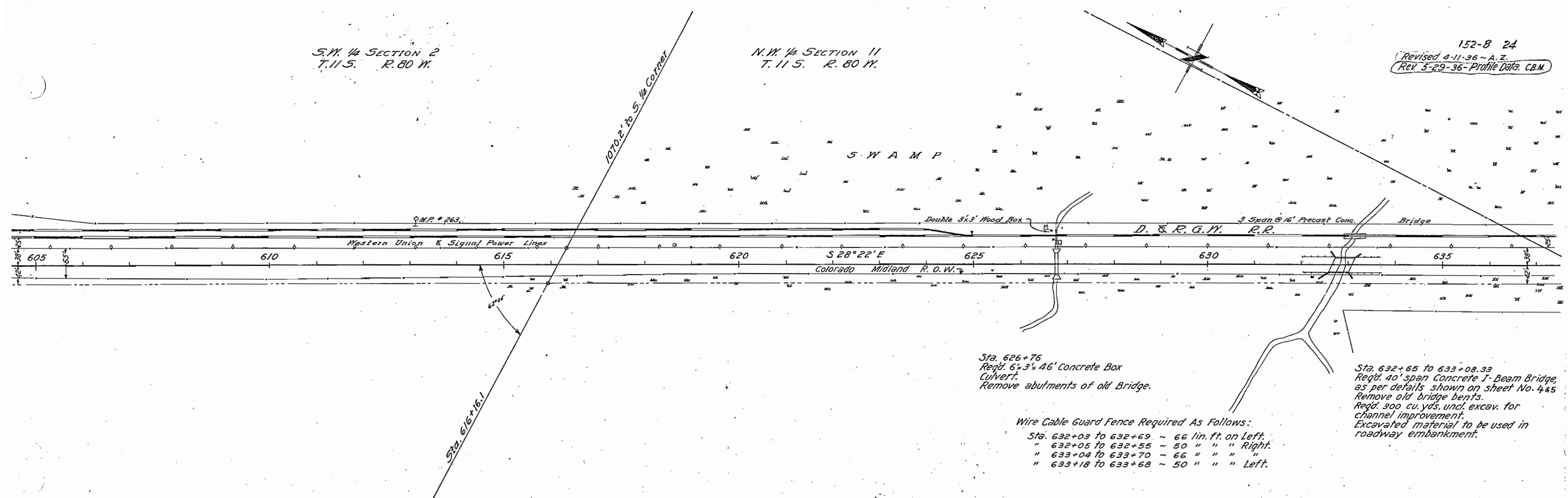
PI. Sta. 577+34.4



S.W. 1/4 SECTION 2
T.11S. R.80 W.

N.W. 1/4 SECTION 11
T.11S. R.80 W.

152-B 24
Revised 4-11-36 - A.Z.
Rev. 5-29-36 - Profile Data. C.B.M.



Sta. 626+76
Reg'd. 6'x3'x46' Concrete Box
Culvert.
Remove abutments of old Bridge.

Wire Cable Guard Fence Required As Follows:
Sta. 632+03 to 632+69 ~ 66 lin. ft. on Left.
" 632+05 to 632+55 ~ 50 " " " Right.
" 633+04 to 633+70 ~ 66 " " " "
" 633+18 to 633+68 ~ 50 " " " Left.

Sta. 632+65 to 633+08.33
Reg'd. 40' span Concrete I-Beam Bridge,
as per details shown on sheet No. 445
Remove old bridge bents.
Reg'd. 300 cu. yds. uncl. excav. for
channel improvement.
Excavated material to be used in
roadway embankment.

STRUCTURE NOTES FOR BRIDGE, STA. 632+65 TO 633+08.33

STRUCTURE NO H-11-K

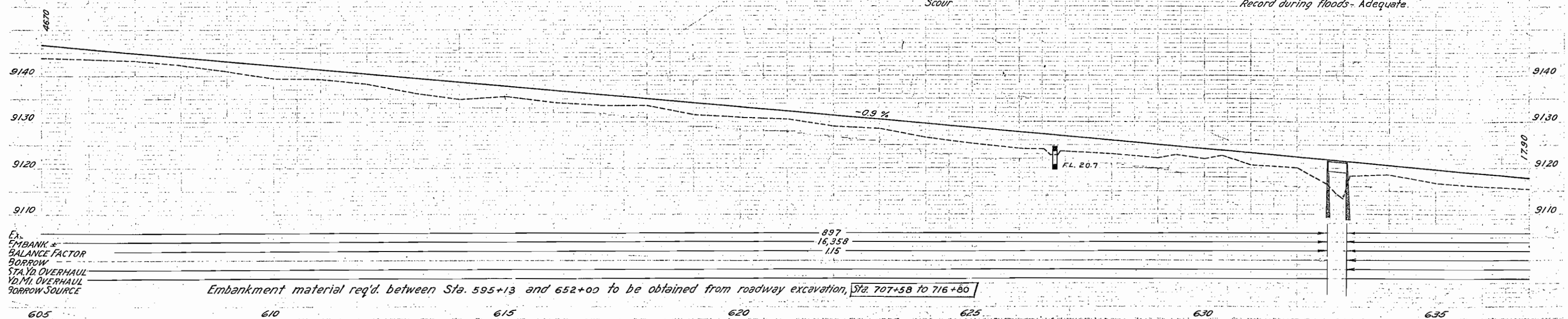
PRESENT STRUCTURE:
Span
Clear Roadway
Clear Waterway
Type of Superstructure
Type of Substructure
Requirements as to removal

STREAM DATA:
Drainage area in Sq. Miles 15.
Velocity during high water
Elevation of:
Maximum high water
Normal Stage
Drift
Scour

Low water
Stream bed 9114.

PROPOSED STRUCTURE:
Position referred to present structure
Span - 40'
Clear roadway - 30'
Clear waterway - 150'
Type of Superstructure - Concrete I Beam
Type of Substructure - Gravity Abutments
Detour Structure requirements
R.R. siding (Kobe) Haul to bridge site 3/4 Mi.

Nearby structures on same stream:
Location 633+15 - 63' Lt. D. & R.G.W. R.R. Br. No. 262 A
Waterway 135' - Clearance center span 6'-0"
Record during floods - Adequate.

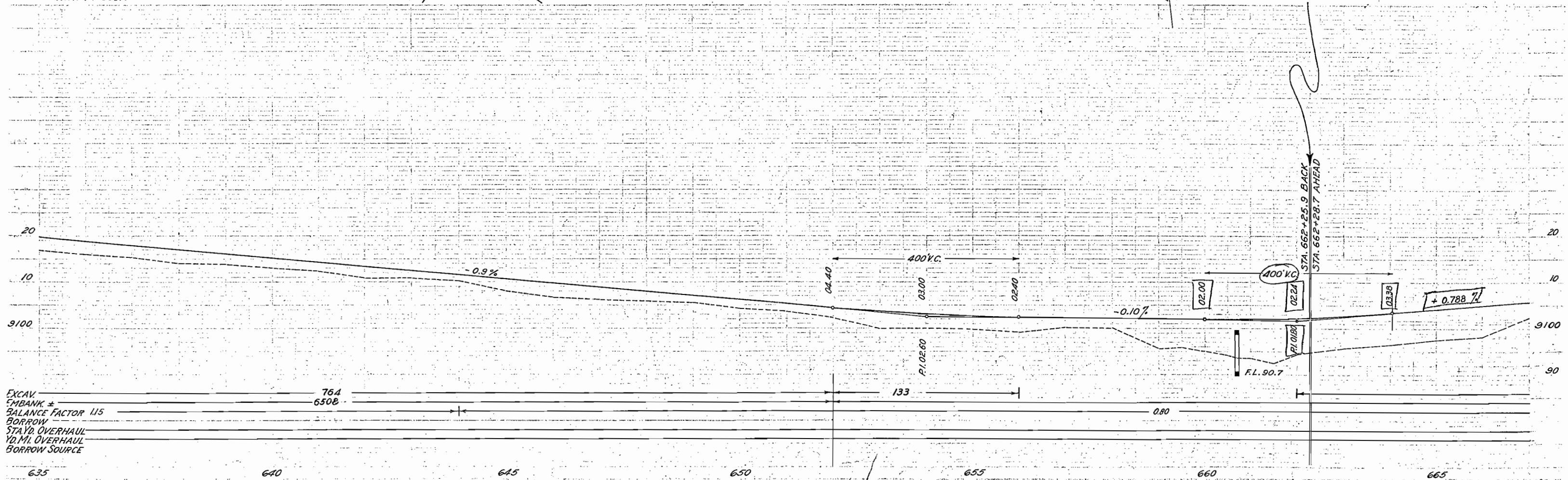
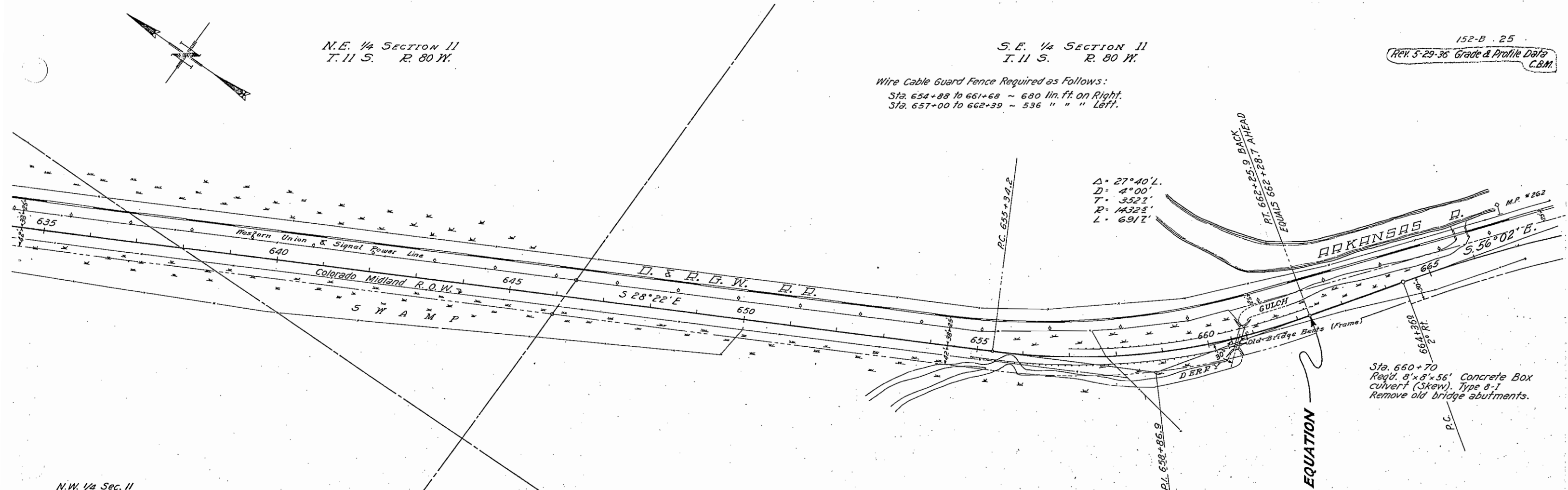


N.E. 1/4 SECTION 11
T. 11 S. R. 80 W.

S.E. 1/4 SECTION 11
T. 11 S. R. 80 W.

152-B . 25
REV. 5-29-36 Grade & Profile Data
C.B.M.

Wire Cable Guard Fence Required as Follows:
Sta. 654+88 to 661+68 ~ 680 lin. ft. on Right.
Sta. 657+00 to 662+39 ~ 536 " " " Left.



S.E. 1/4 SECTION 11
T. 11 S. R. 80 W.

Sta. 667+00 to 674+14
Reqd. 7 1/2 lin. ft. Wire Cable
Guard Fence on Left.

N.W. 1/4 SECTION 13
T. 11 S. R. 80 W.

N.E. 1/4 SECTION 14
T. 11 S. R. 80 W.

$\Delta = 24^\circ 22' R.$
 $D = 2^\circ 00'$
 $T = 6186'$
 $L = 12183'$
 $R = 28650'$

P.T. 676+54.3 Back =
676+65.7 Ahead

LOWER END OF HAYDEN RANCH?
Sta. 680+96.4
2500' to 1/4 Sec. Corner

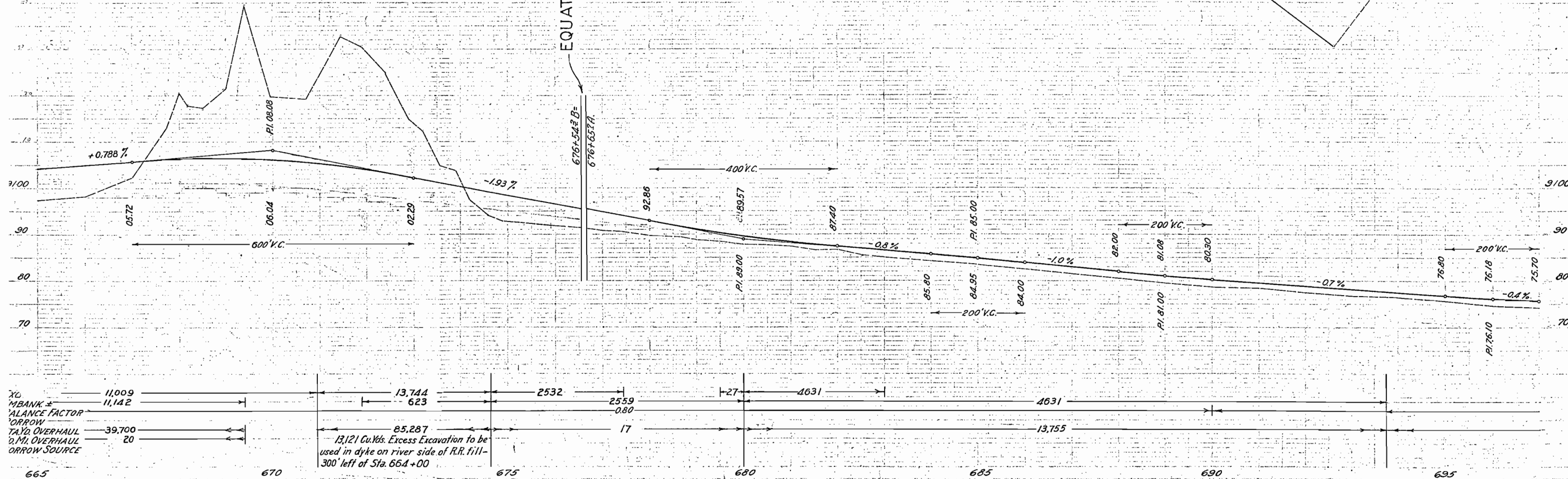
Sta. 665+00 to 685+00
Reqd. 200 cu. yds. uncl. excav.
to remove cinders.
Reqd. 200 cu. yds. embankment
for backfill.

Sta. 667 to 765+00 Western Union
Pole Line to be removed and replaced.
Materials to be furnished and work to
be done by Western Union Telegraph Co.

Line projected from Sta. 664+36.0
to Sta. 676+54.3 Back.

EQUATION

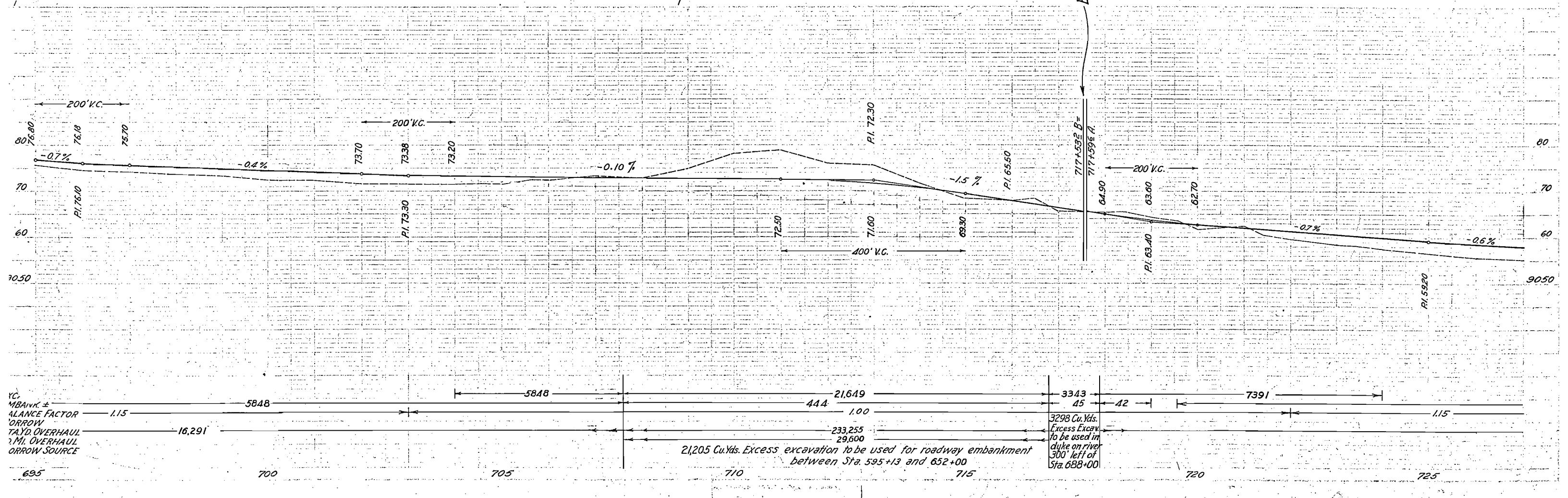
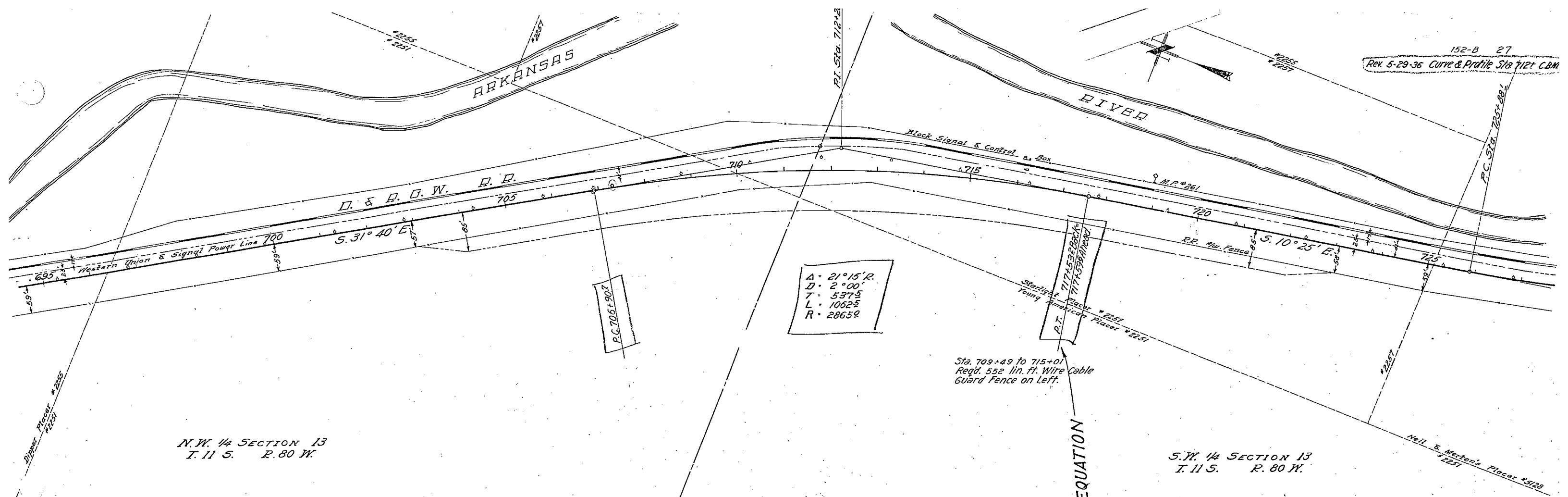
676+54.3 B =
676+65.7 A

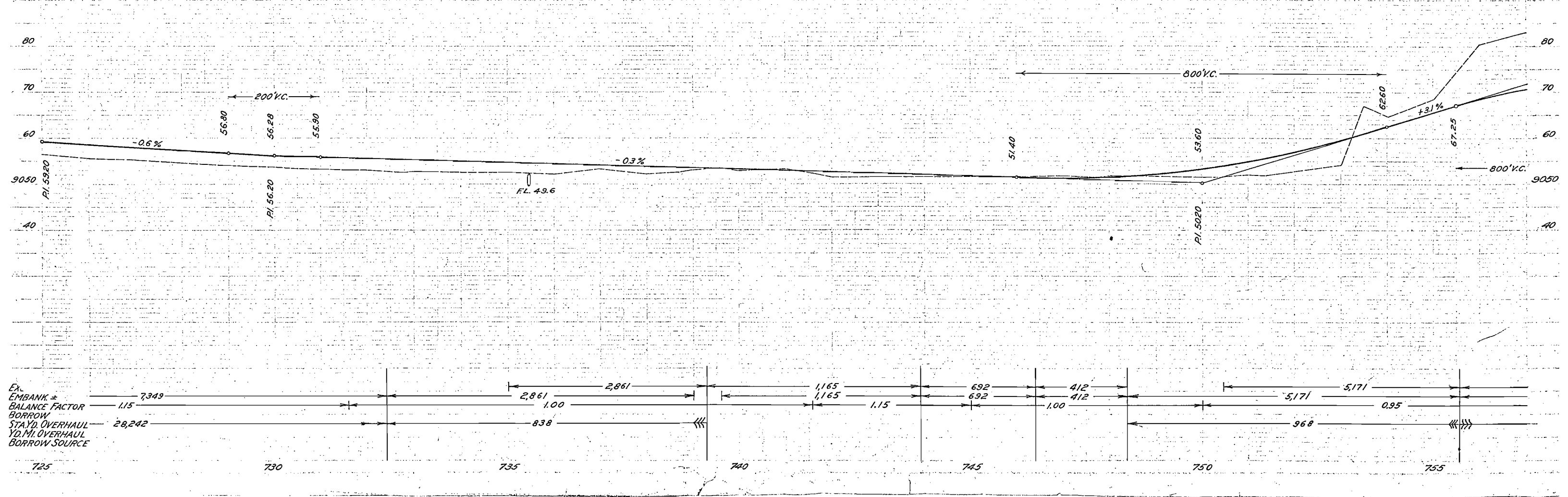
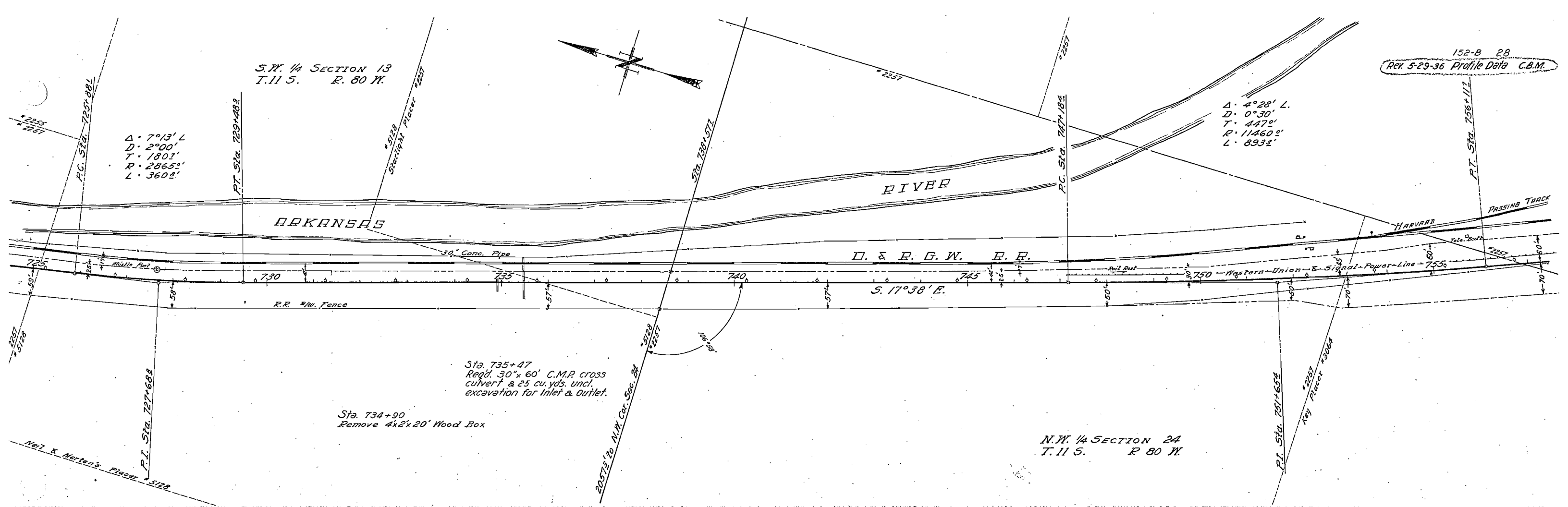


XO	11,009
MBANK	11,142
ALANCE FACTOR	
TAYD. OVERHAUL	39,700
D.M. OVERHAUL	20
ORROW SOURCE	

13,121 Cu.Yds. Excess Excavation to be
used in dyke on river side of R.R. fill-
300' left of Sta. 664+00

13,744	2532	2559	27	4631	4631	13,755
623		0.80				
85,287		17				







N.E. 1/4 SECTION 24
T. 11 S. R. 80 W.

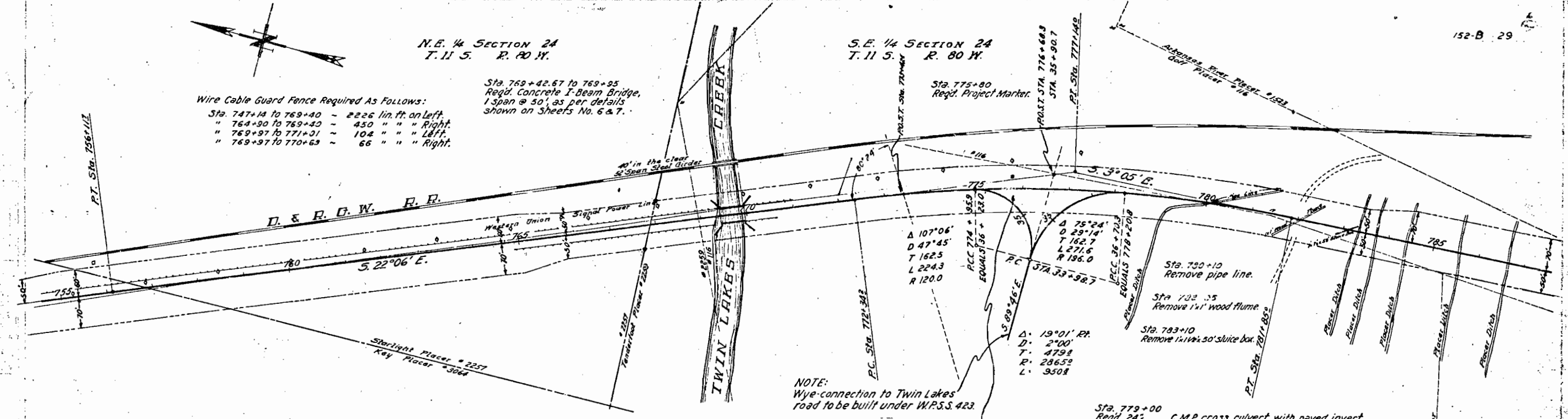
S.E. 1/4 SECTION 24
T. 11 S. R. 80 W.

Wire Cable Guard Fence Required As Follows:

- Sta. 747+14 to 769+40 ~ 2226 lin. ft. on Left
- " 769+40 to 769+95 ~ 450 " " Right
- " 769+95 to 771+01 ~ 104 " " Left
- " 769+95 to 770+63 ~ 66 " " Right

Sta. 769+42.67 to 769+95
Reqd. Concrete I-Beam Bridge,
1 span @ 50', as per details
shown on Sheets No. 6 & 7.

Sta. 775+80
Reqd. Project Marker.



NOTE:
Wye connection to Twin Lakes
road to be built under WPSS 423.

STRUCTURE NOTES FOR BRIDGE, STA. 769+42.67 TO 769+95

STRUCTURE NO H-11-I

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 50'
Clear roadway 30'-0"
Clear waterway 700"
Type of Superstructure - Concrete-I Beam
Type of Substructure - Cantilever Abutments
Debour Structure Requirements
R.R. siding, Yale or Granite
Haul to bridge site 2 1/2 miles

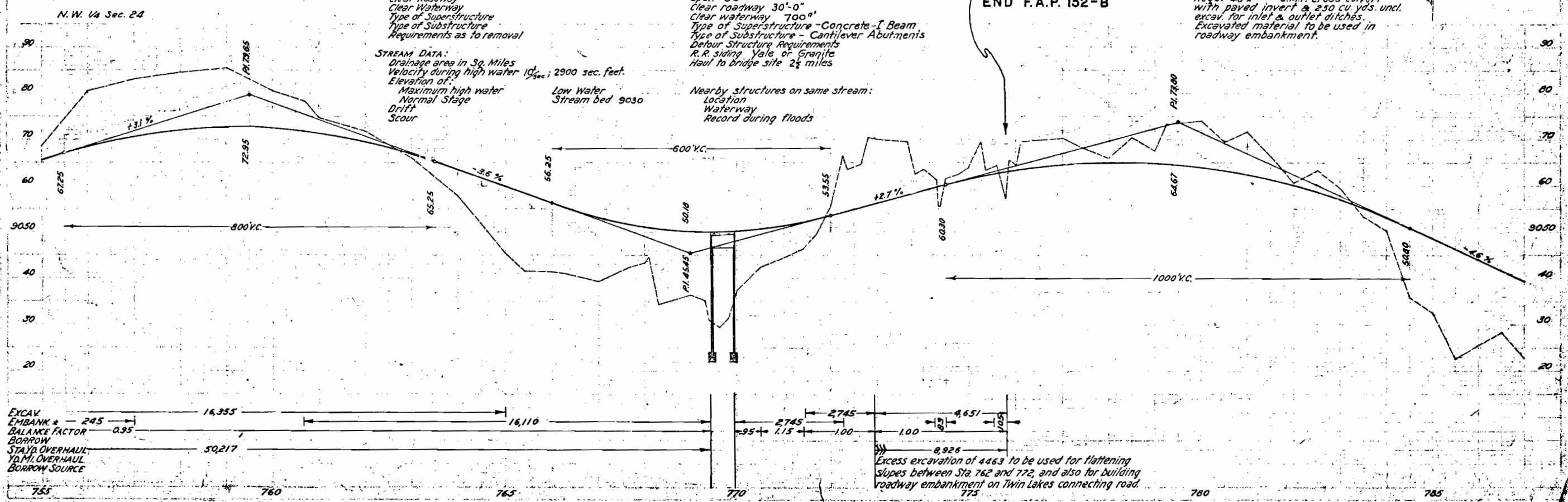
STREAM DATA:
Drainage area in Sq. Miles
Velocity during high water 19 sec: 2900 sec. feet.
Elevation of:
Maximum high water
Normal Stage
Drift
Scour

Nearby structures on same stream:
Location
Waterway
Record during floods

STA. 775+80
END F.A.P. 152-B

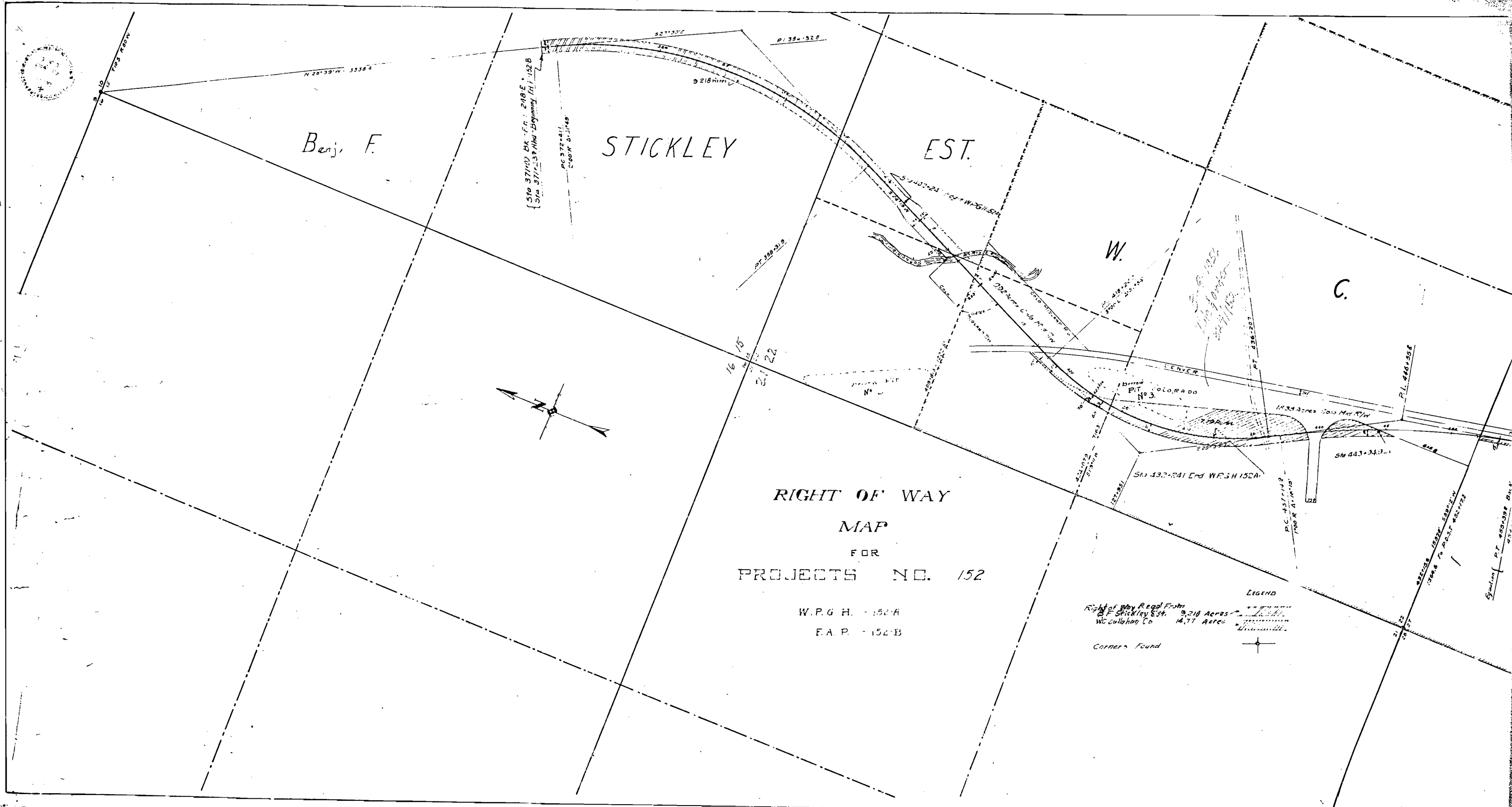
Sta. 779+00
Reqd. 24" C.M.P. cross culvert with paved invert
& 100 cu. yds. uncl. excav. for ditch change on Lt.

Sta. 782+00
Reqd. 48" C.M.P. cross culvert
with paved invert & 250 cu. yds. uncl.
excav. for inlet & outlet ditches.
Excavated material to be used in
roadway embankment.



Excess excavation of 4463 to be used for flattening
slopes between Sta. 762 and 772, and also for building
roadway embankment on Twin Lakes connecting road.

1936



Benj. F.

STICKLEY

EST.

W.

C.

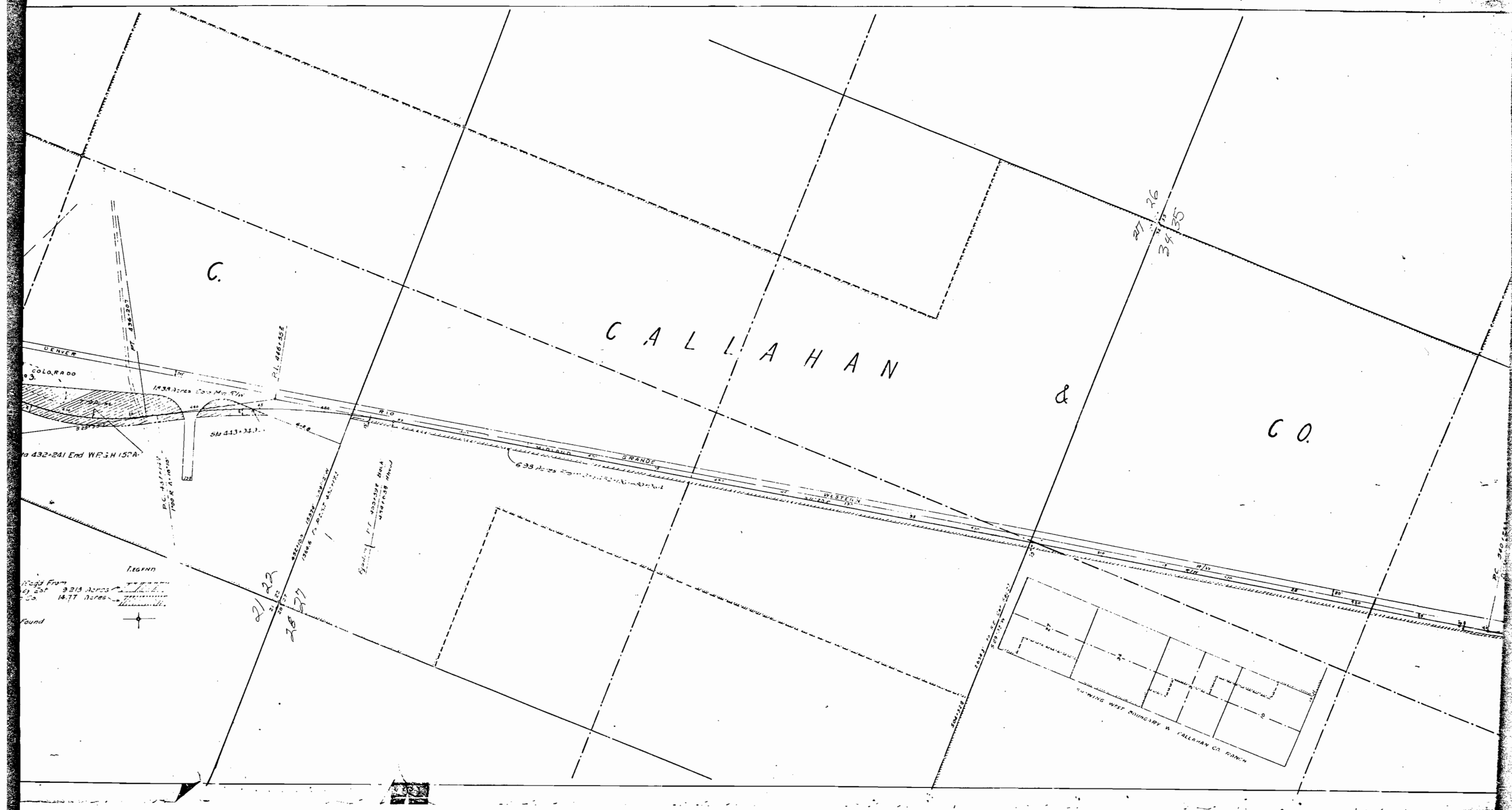
RIGHT OF WAY
MAP
FOR
PROJECTS NO. 152

W.P.G.H. - 152-A
E.A.P. - 152-B

Right of Way Road Fronts
W.C. Collard Co. 9.218 Acres
W.C. Collard Co. 14.77 Acres
Corners Found

Legend





C O.

PC 3401231
S. 1/4 Sec. 10, T. 105 N., R. 105 W.

P.T. 3401231
S. 1/4 Sec. 10, T. 105 N., R. 105 W.

T. 105
T. 115

CR. 105
S. 1/4 Sec. 10, T. 105 N., R. 105 W.

PC 3401231
S. 1/4 Sec. 10, T. 105 N., R. 105 W.

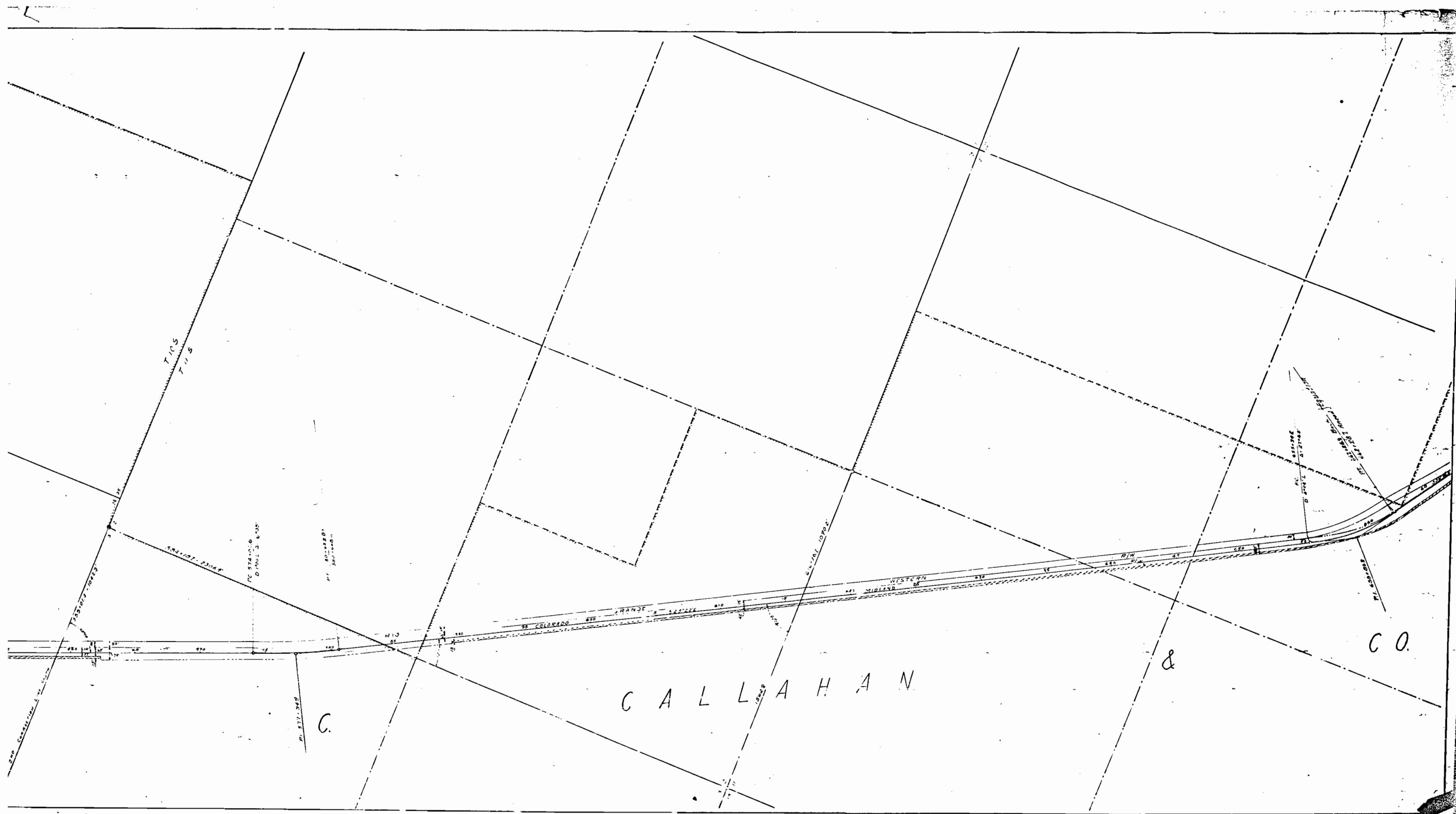
PC 3401231
S. 1/4 Sec. 10, T. 105 N., R. 105 W.

W.

C.

C A L L A H A

SHOWING WEST BOUNDARY W. CALLAHAN CO. RANCH



T10S
T11S

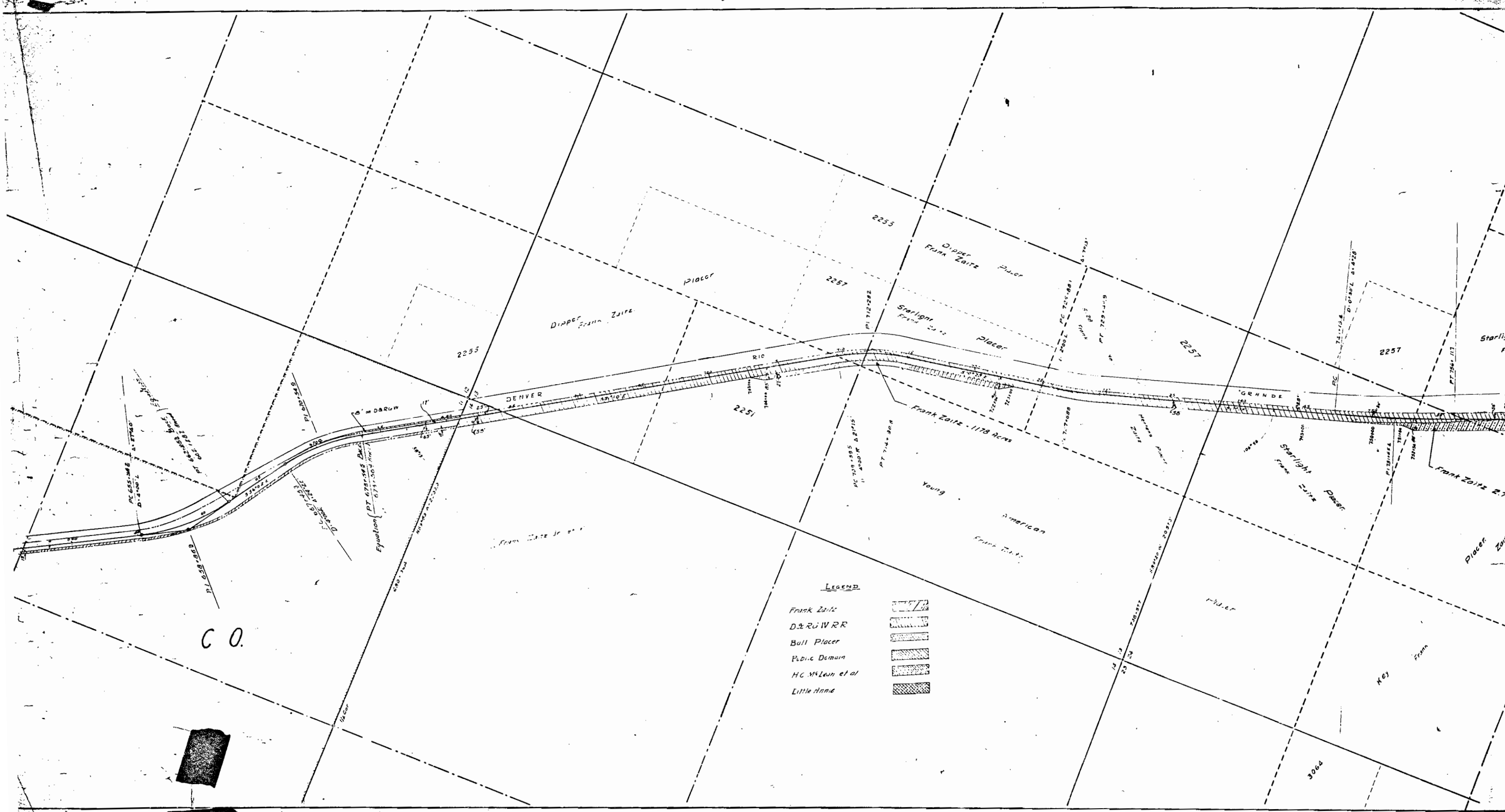
PC 574.016
D 1700.3 6'35"

C.

C A L L A H A N

&

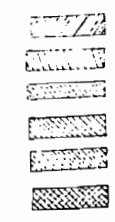
C O.

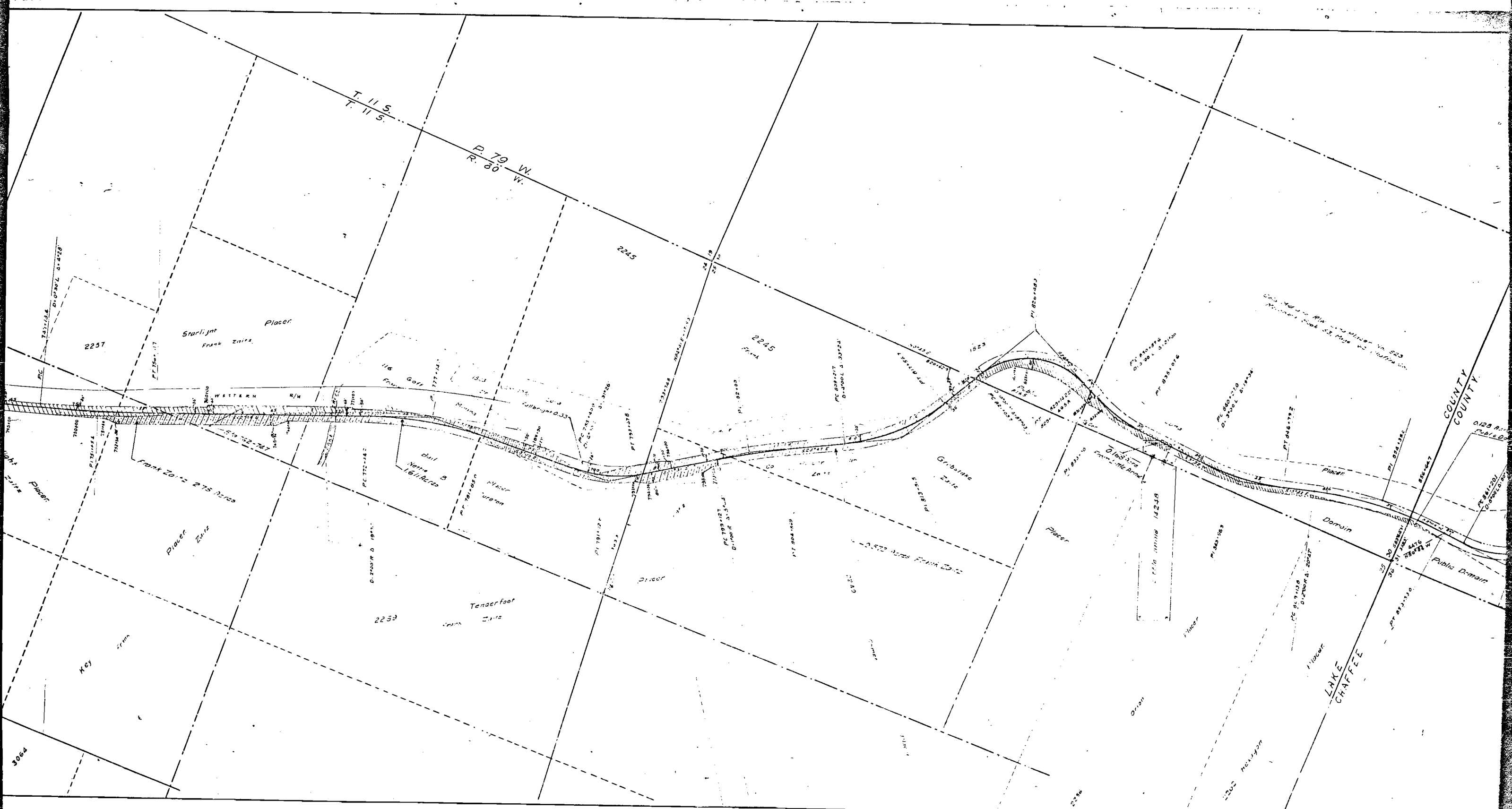


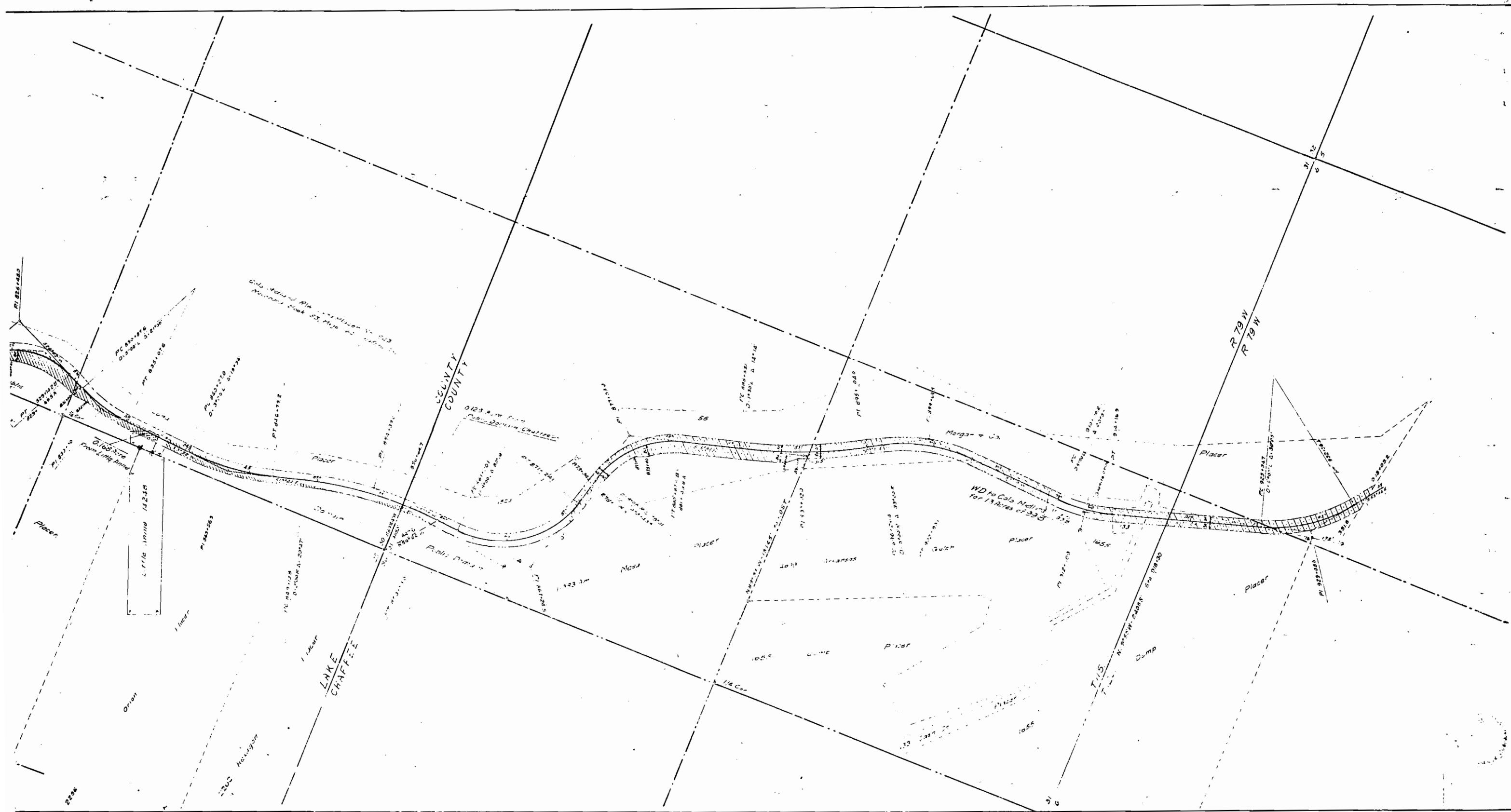
C O.

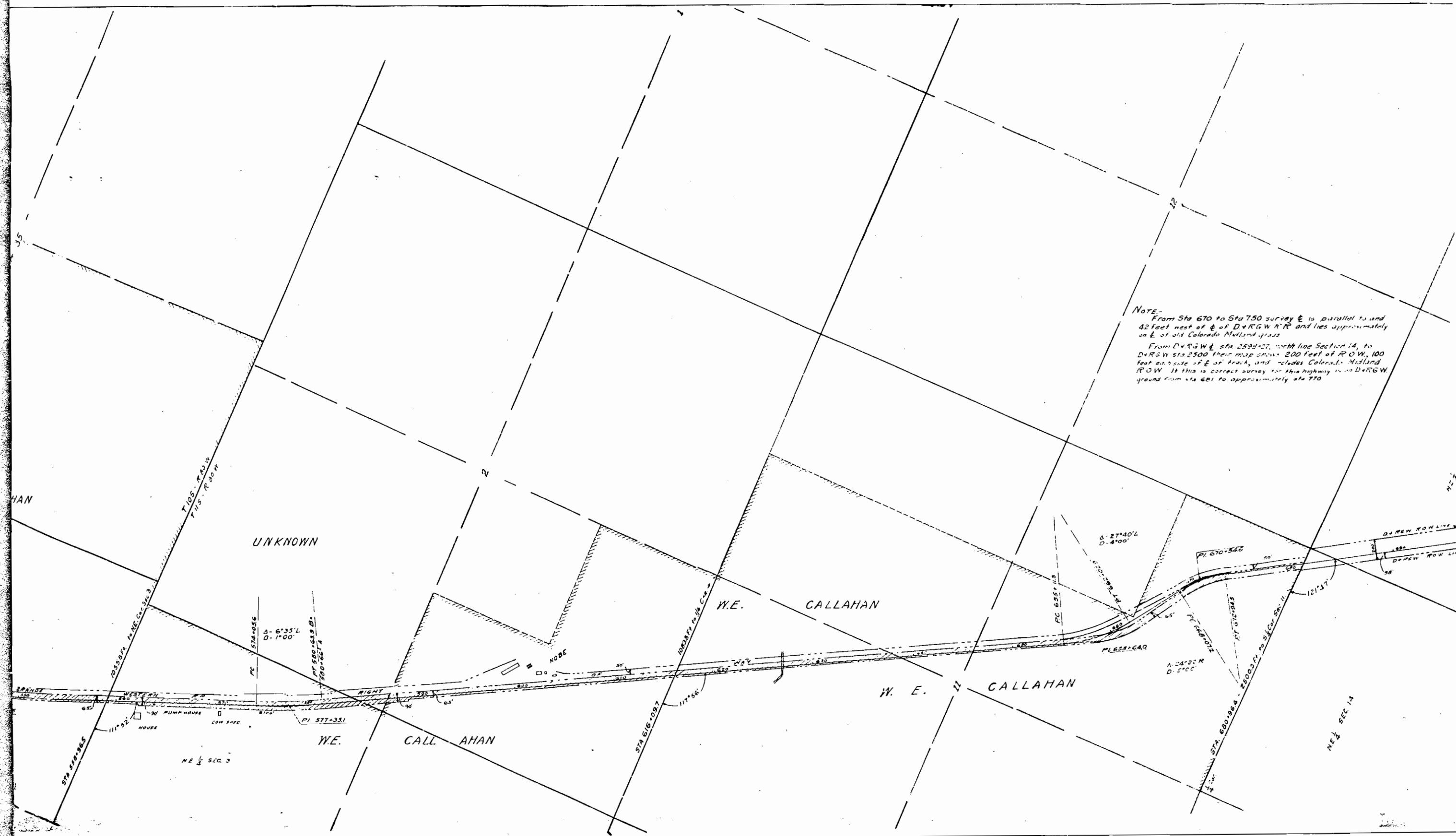
LEGEND

- Frank Zeitz
- D&R W.R.
- Bull Placer
- Public Domain
- H.C. McLean et al
- Little Annie









NOTE:
From Sta 670 to Sta 770 survey is parallel to and 42 feet west of E of D+RGW RR and lies approximately on E of old Colorado Midland track.
From D+RGW Sta 2500 their map shows 200 feet of R.O.W., 100 feet each side of E of track, and includes Colorado Midland R.O.W. If this is correct survey for this highway is on D+RGW ground from Sta 681 to approximately Sta 770.

UNKNOWN

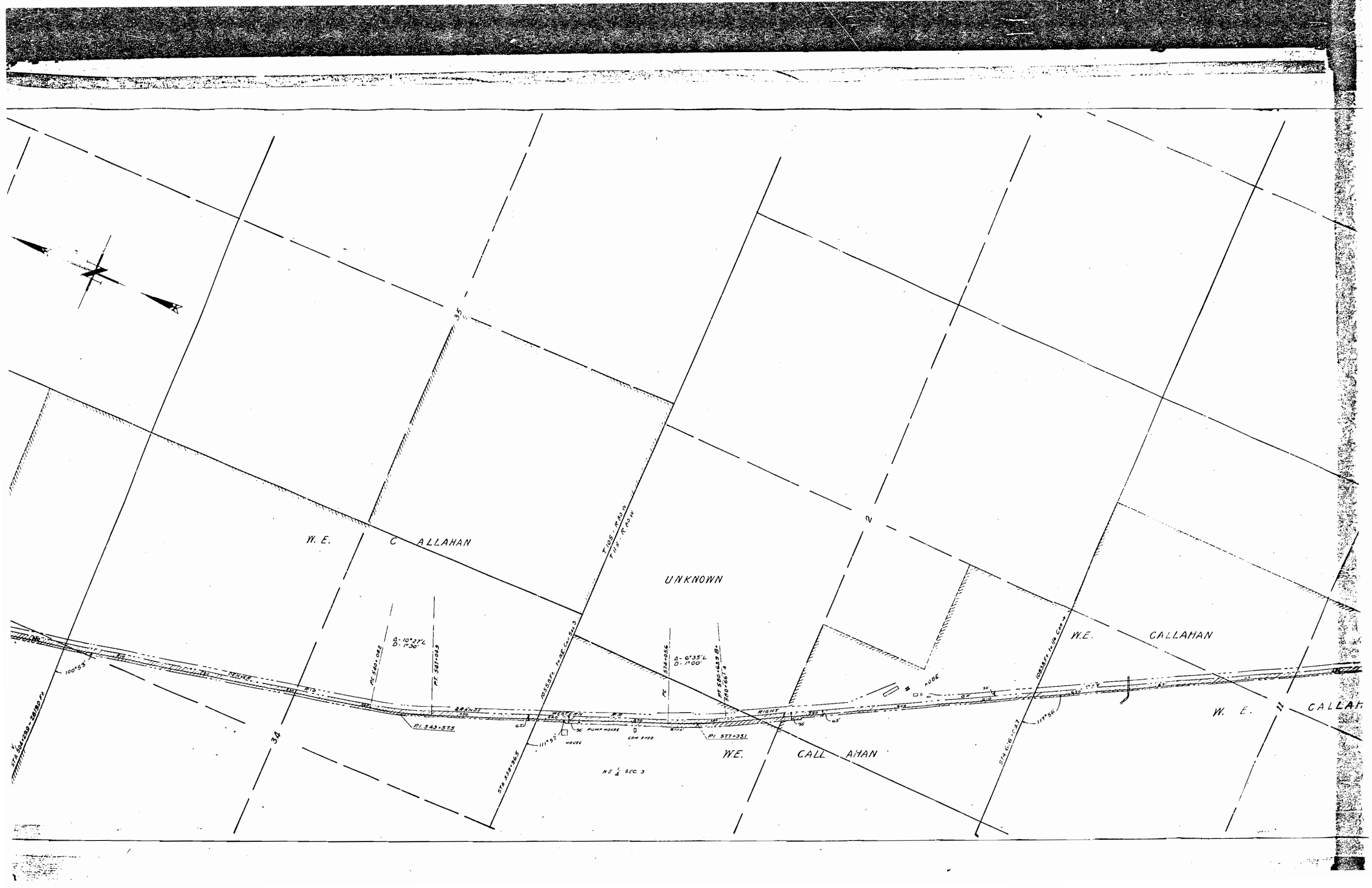
CALLAHAN

CALLAHAN

CALLAHAN

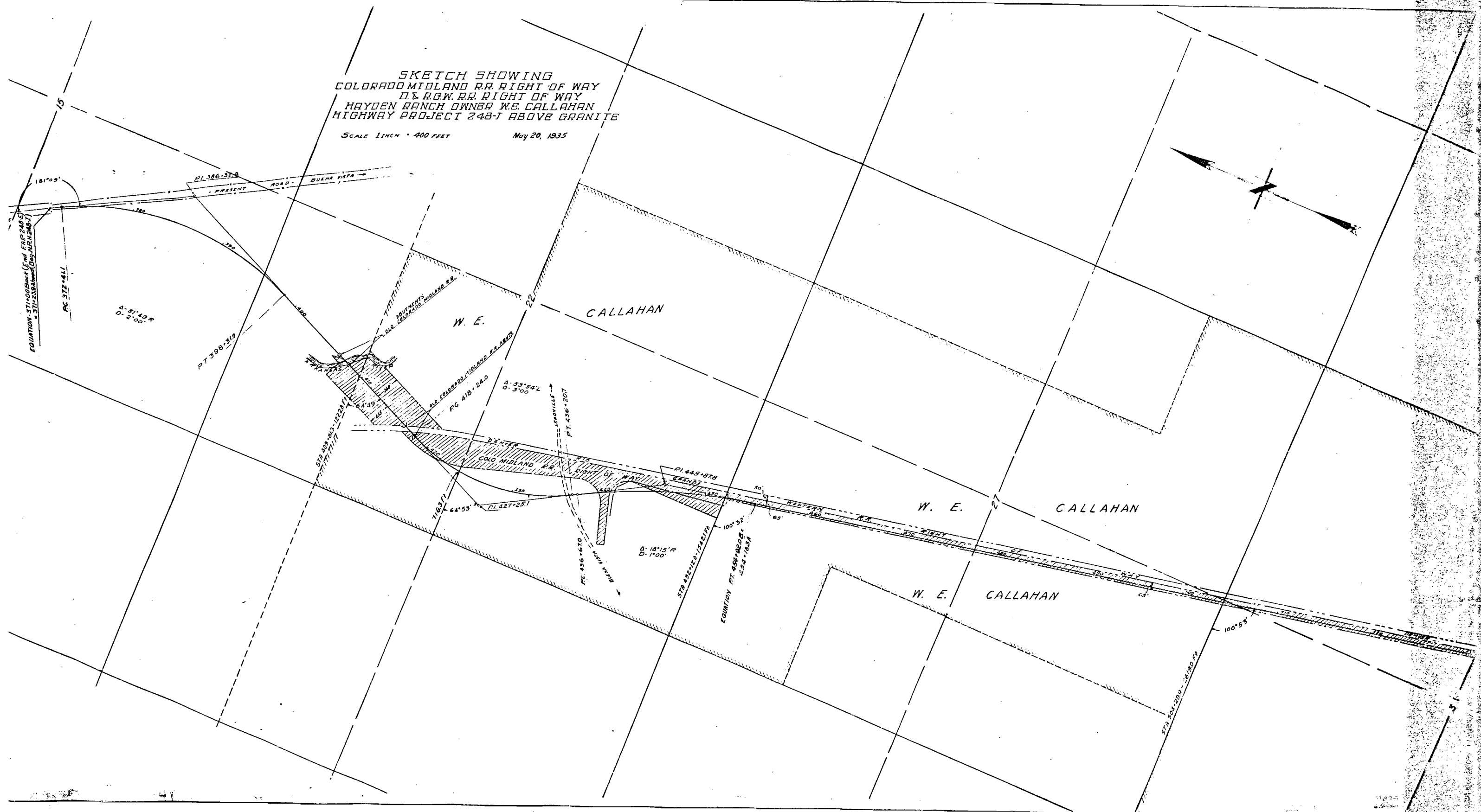
NE 1/4 SEC 3

NE 1/4 SEC 14



SKETCH SHOWING
 COLORADO MIDLAND RR. RIGHT OF WAY
 D. & R.G.W. RR. RIGHT OF WAY
 HAYDEN RANCH OWNER W.E. CALLAHAN
 HIGHWAY PROJECT 248-T ABOVE GRANITE

SCALE 1 INCH = 400 FEET May 20, 1935



DATE _____ TIME _____ BY _____

770
S 22° 06' E

PC 77213422

Page 2731422

PROPOSED TRUNK LINE
CONNECTION

NETTIE B. PLACER CURRIE

1.611 Acres ±

196

PT 7812950

2000

577.94.W