



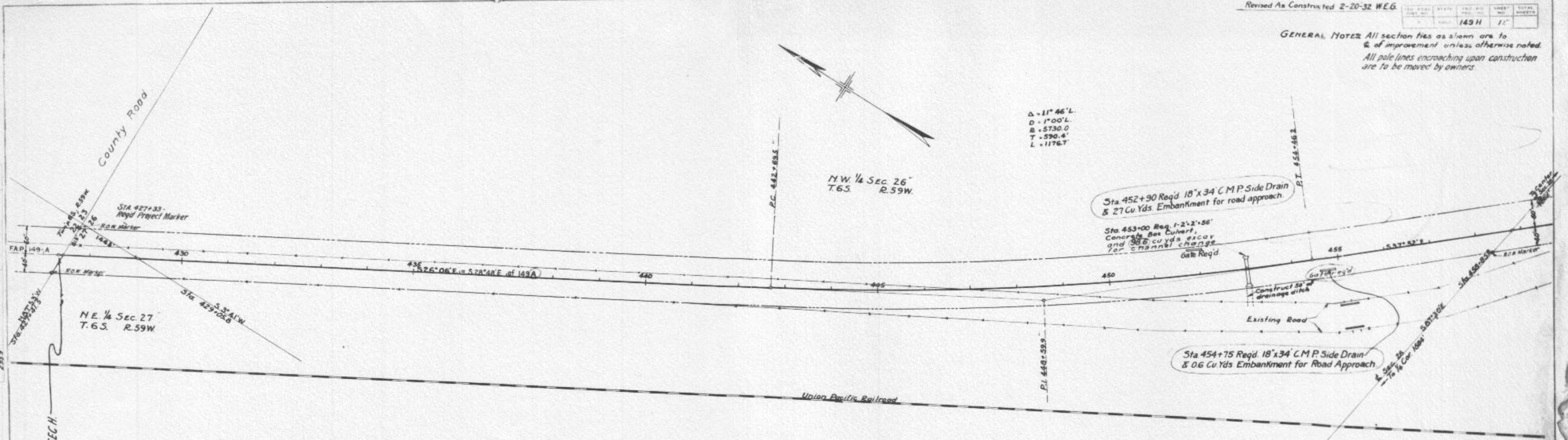
JOB NO.	STATE	FEED NO.	SHEET NO.	TOTAL SHEETS
149 H	12			

GENERAL NOTES: All section ties as shown are to be of improvement unless otherwise noted.  
All pole lines encroaching upon construction are to be moved by owners.

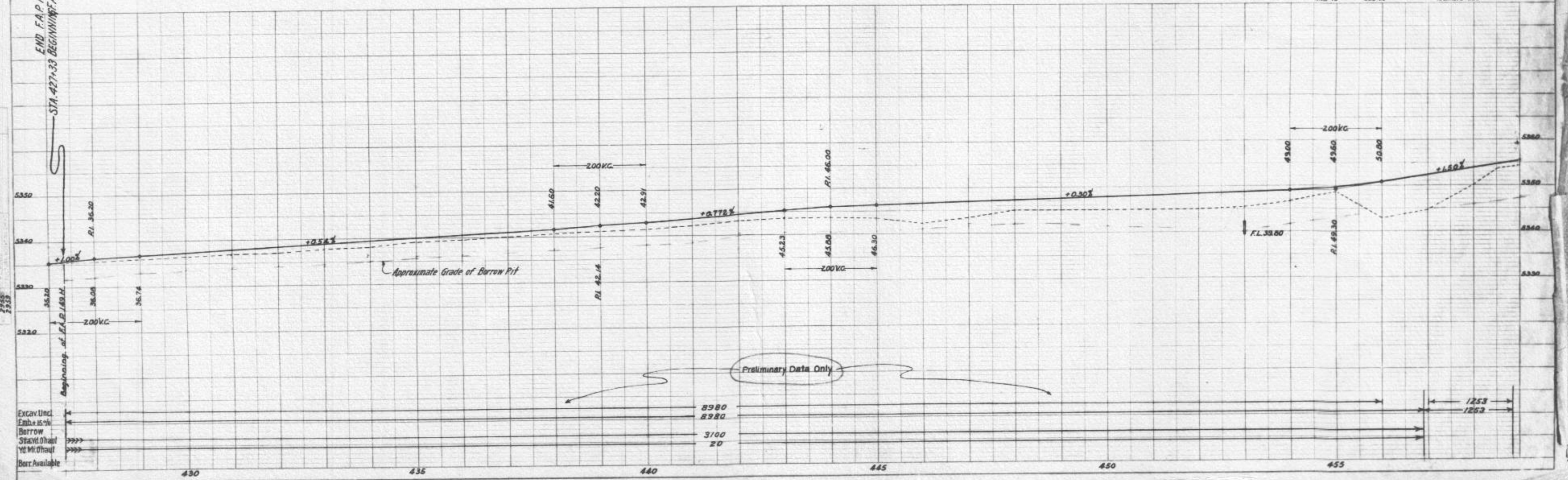


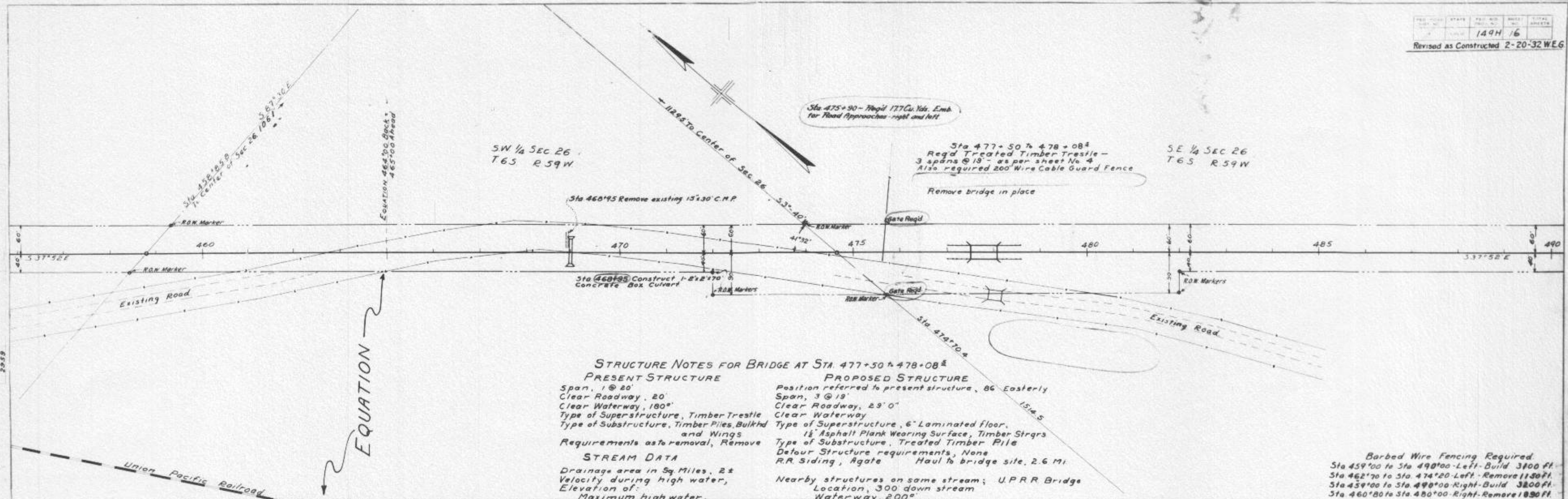
R.E. Clancy  
V.C. LeClery  
V.C. LeClery

PROFILE  
2553  
2553



END F.A.P. 149-A  
STA. 427+33 BEGINNING F.A.P. 149, SEC. H.





**STRUCTURE NOTES FOR BRIDGE AT STA 477+50 to 478+08.4**

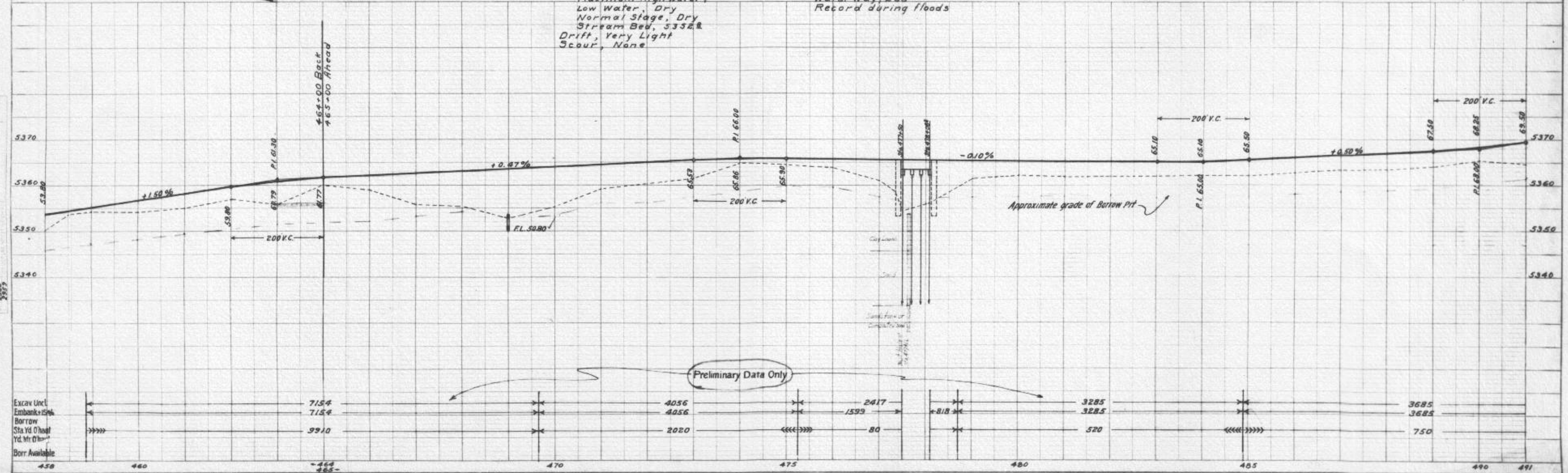
**PRESENT STRUCTURE**  
 Span, 1 @ 20'  
 Clear Roadway, 20'  
 Clear Waterway, 180'  
 Type of Superstructure, Timber Trestle  
 Type of Substructure, Timber Piles, Bulkhd and Wings  
 Requirements as to removal, Remove

**PROPOSED STRUCTURE**  
 Position referred to present structure, 86' Easterly  
 Span, 3 @ 18'  
 Clear Roadway, 29' 0"  
 Clear Waterway  
 Type of Superstructure, 6" Laminated floor,  
 1 1/2" Asphalt Plank Wearing Surface, Timber Strgs  
 Type of Substructure, Treated Timber Pile  
 Detour Structure requirements, None  
 R.R. Siding, Agate Haul to bridge site, 2.6 Mi.

**STREAM DATA**  
 Drainage area in Sq Miles, 2 ±  
 Velocity during high water,  
 Elevation of:  
 Maximum high water,  
 Low Water, Dry  
 Normal Stage, Dry  
 Stream Bed, 5332 ±  
 Drift, Very Light  
 Scour, None

Nearby structures on same stream; U.P.R.R. Bridge  
 Location, 300' down stream  
 Waterway, 200'  
 Retard during floods

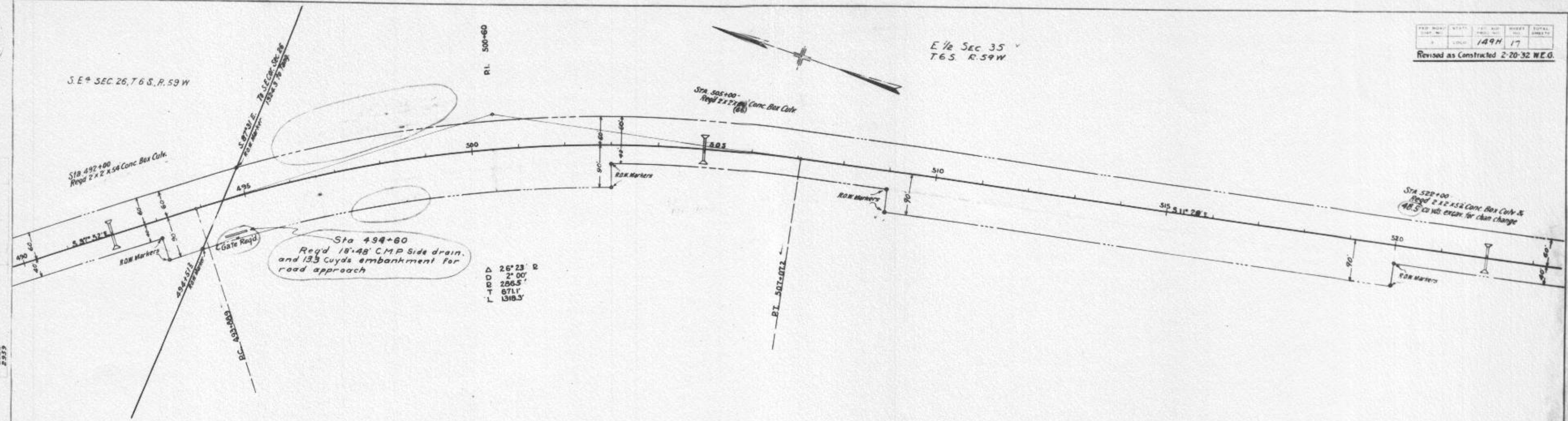
Barbed Wire Fencing Required  
 Sta 459+00 to Sta 490+00 - Left - Build 3100 Ft.  
 Sta 462+70 to Sta 474+20 - Left - Remove 1130 Ft.  
 Sta 459+00 to Sta 490+00 - Right - Build 3200 Ft.  
 Sta 460+80 to Sta 480+00 - Right - Remove 1890 Ft.



Preliminary Data Only

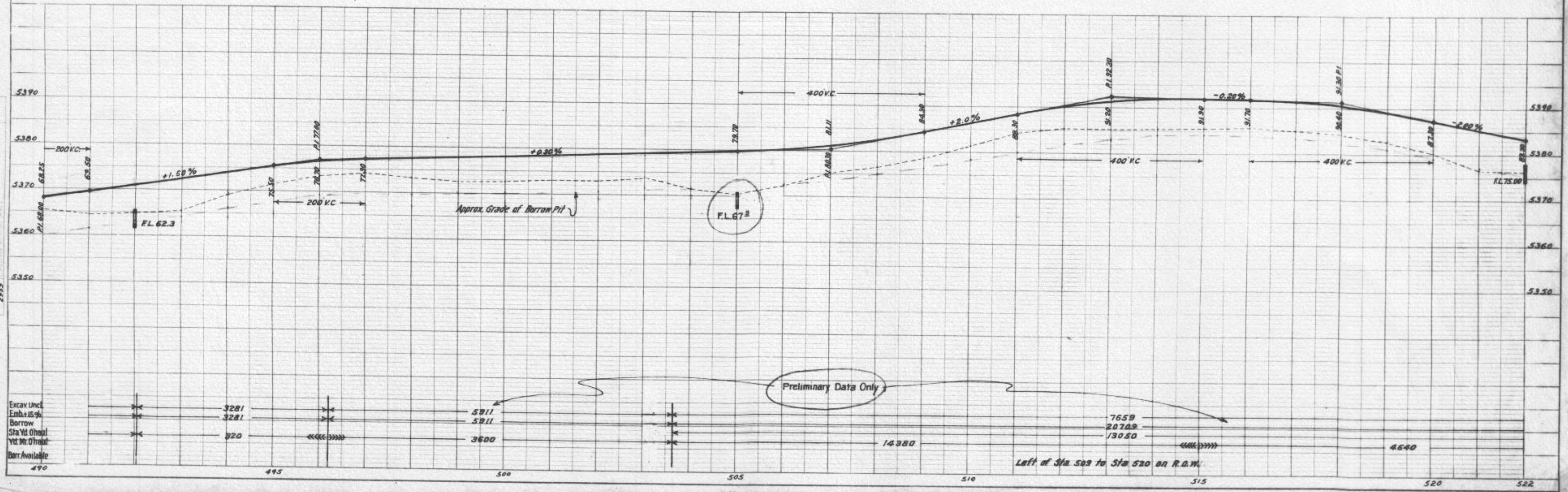
E 1/2 SEC 35  
T 6 S R 59 W

S. E. 1/4 SEC. 26, T 6 S., R. 59 W



$\Delta$  26° 23' R  
 $\Gamma$  2" 00"  
 $\Gamma$  286.5'  
 $\Gamma$  871'  
 $\Gamma$  1318.5'

Barbed Wire Fencing Required  
 Sta. 490+00 to 521+00-Left- Build 3100 feet.  
 Sta. 490+00 to Sta 521+00-Right- Build 3300 feet.



Excav Uncl  
 Emb + 15%  
 Borrow  
 Sta Yd O'head  
 Yd Wt O'head  
 Barr Available

S.W. 1/4 SEC. 36  
 T.6S R.59W

E. 1/2 SEC. 35  
 T.6S R.59W

N.W. 1/4 SEC. 1  
 T.7S R.59W

Sta. 522+00  
 Reg'd. 2x2x52 Conc. Box Culvert and  
 48.5 Cu. Yds. Excav. Unclass. for chan. change.

Sta. 531+00  
 Reg'd. 6x4x44 Conc. Box Culv.  
 and 100 cu yds. excav. for chan. change.

Sta. 548+71.5 to 549+65.2  
 Reg'd. Timber Trestle - 4 spans @ 23' -  
 as per sheet No. 5  
 Also required 300' Wire Cable Guard Fence,  
 and 4206.7 cu yds. embankment change to be  
 used in roadway embankment  
 Remove bridge in place

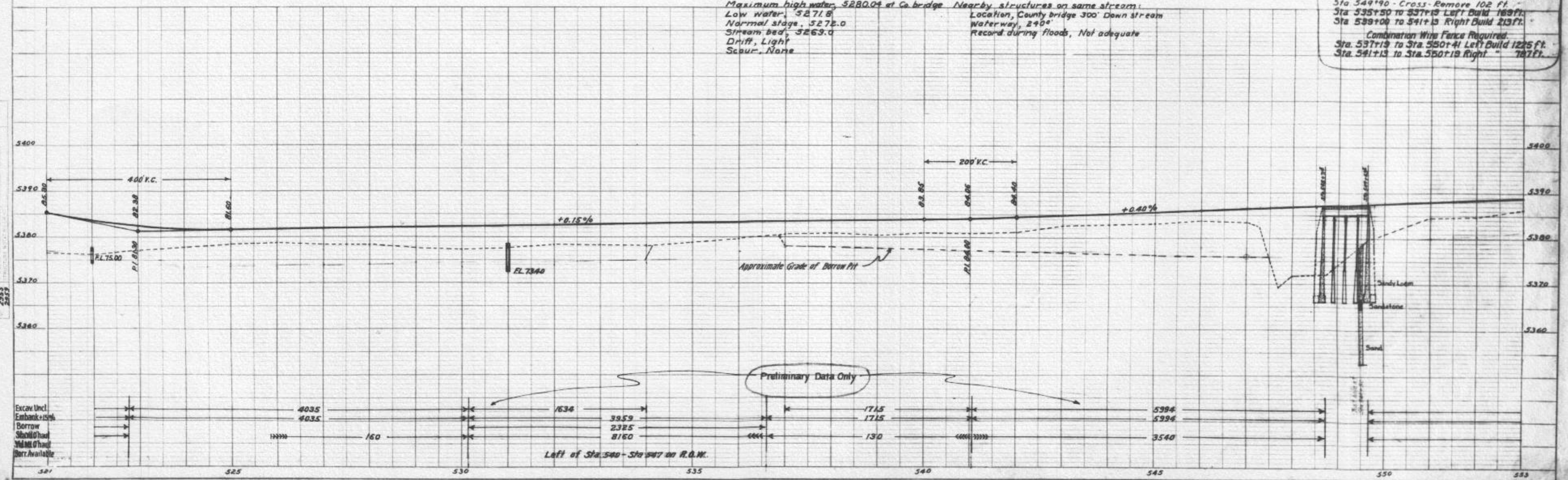
Sta. 537+00  
 Reg'd. 140 cu yds. embankment for  
 road approach.

**STRUCTURE NOTES FOR BRIDGE AT STA. 548+71.5 to 549+65.2**

<b>PRESENT STRUCTURE</b>	<b>PROPOSED STRUCTURE</b>
Span, 4 @ 12' = 48'	Position referred to present structure, 300' Upstream
Clear roadway, 13'-0"	Span, 4 @ 23'
Clear waterway, 240'	Clear roadway, 29'-0"
Type of Superstructure, Timber Pile Trestle, Untr.	Clear waterway, 1280'
Type of Substructure, Timber Pile, Untreated	Type of Superstructure - Tr Timber Trestle with asphalt plank floor
Requirements as to removal, Remove	Type of Substructure - Gravity Type Conc. Abut. & Conc. Fed. Abut.
<b>STREAM DATA</b>	Detour structure requirements, None
Drainage area in Sq. Miles, 6 ±	R.R. Siding, Agate
Velocity during high water	Haul to bridge site, 1 1/2 Mi.
Elevation of:	<b>Nearby structures on same stream:</b>
Maximum high water, 5280.04 at Co. bridge	Location, County bridge 300' Down stream
Low water, 5271.8	Waterway, 240'
Normal stage, 5272.0	Record during floods, Not adequate
Stream bed, 5269.0	
Drift, Light	
Scour, None	

**Barbed Wire Fencing Required:**  
 Sta. 521+00 to Sta. 533+40 - Left - Build 1200 ft.  
 Sta. 521+00 to Sta. 537+15 - Right - Build 1615 ft.  
 Sta. 533+50 to Sta. 538+30 - Cross - Remove 725 ft.  
 Sta. 549+90 - Cross - Remove 102 ft.  
 Sta. 535+50 to 537+15 - Left - Build 169 ft.  
 Sta. 539+00 to 541+13 - Right - Build 213 ft.

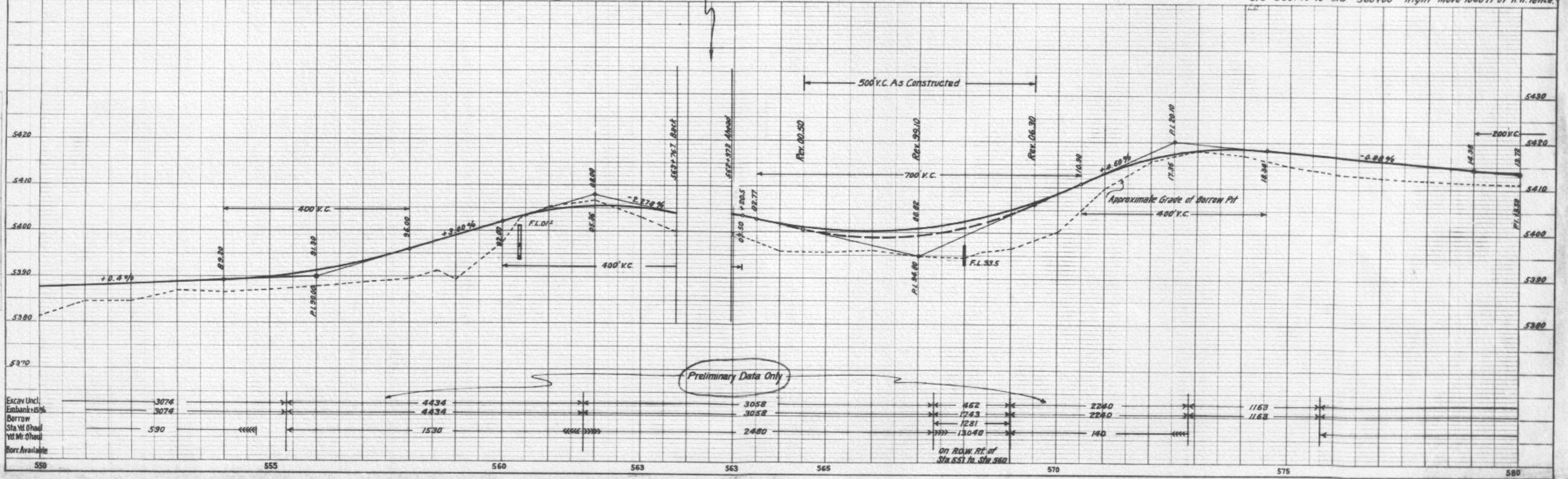
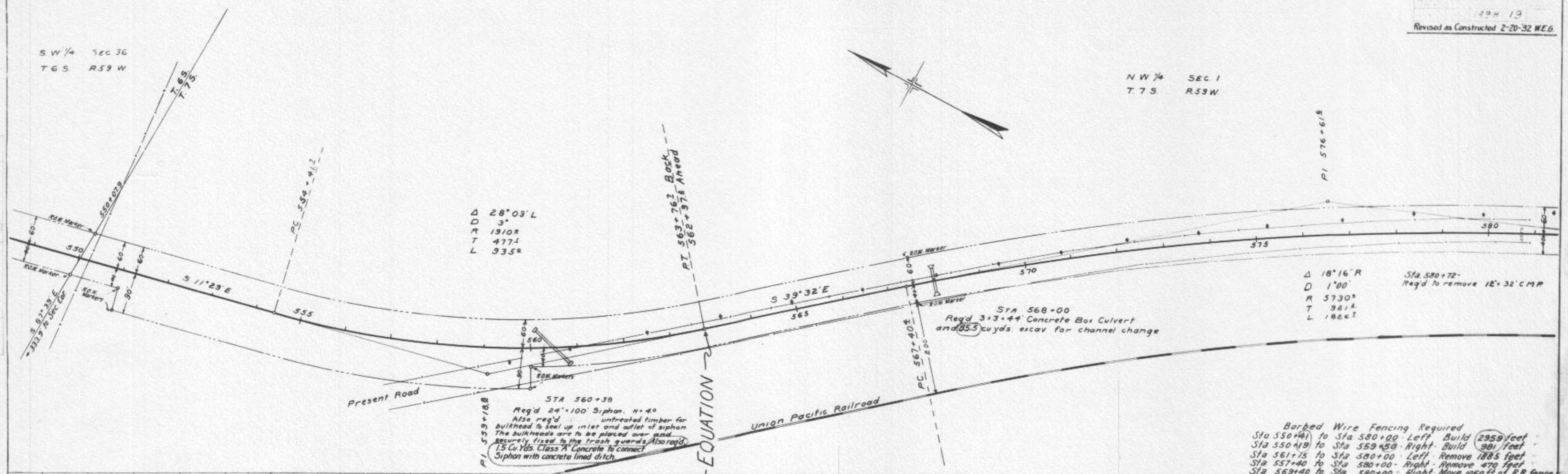
**Combination Wire Fence Required:**  
 Sta. 537+15 to Sta. 550+41 - Left - Build 1225 ft.  
 Sta. 541+13 to Sta. 550+15 - Right - 70 ft.



PROFILE  
 DATE  
 2855  
 2855

S.W. 1/4 SEC 36  
T. 6 S. R. 59 W

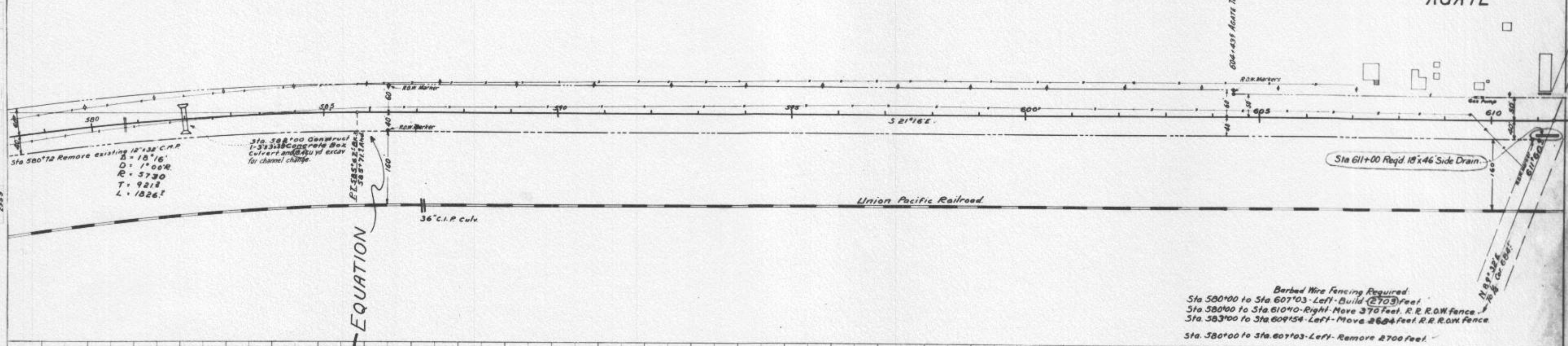
N.W. 1/4 SEC 1  
T. 7 S. R. 59 W



Preliminary Data Only

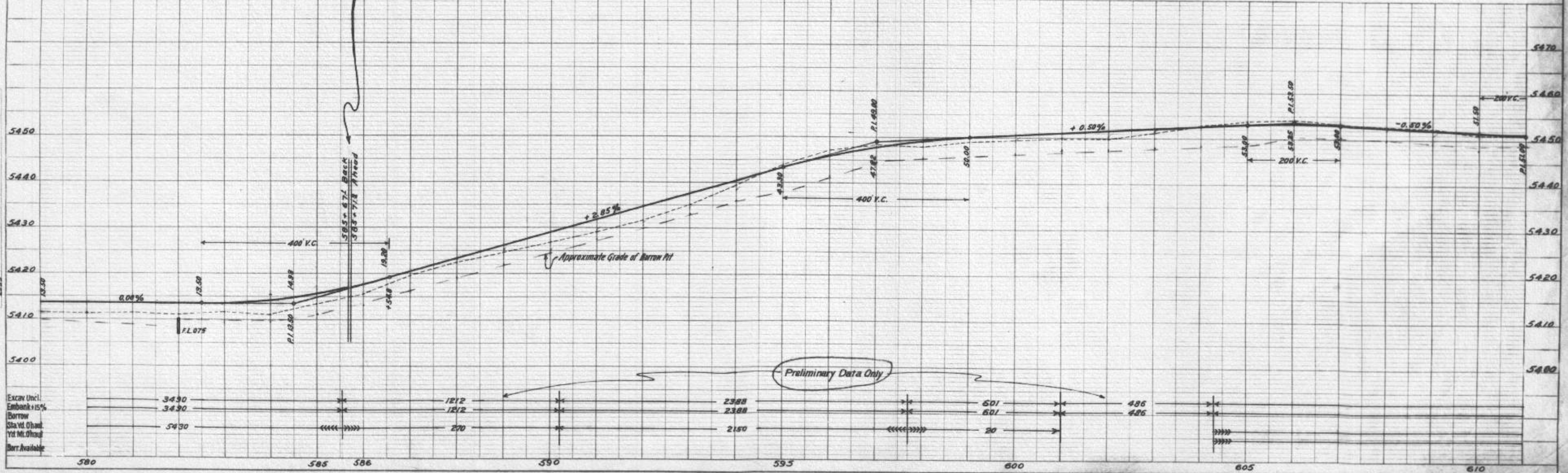
5 1/2 SEC 1  
 T.7S. R.59W

AGATE



EQUATION

Barbed Wire Fencing Required:  
 Sta 580+00 to Sta 607+03 - Left - Build (2703) feet.  
 Sta 580+00 to Sta 610+10 - Right - Move 370 feet. R.R. R.O.W. fence.  
 Sta 583+00 to Sta 609+54 - Left - Move 2694 feet R.R. R.O.W. fence.  
 Sta. 580+00 to Sta 607+03 - Left - Remove 2700 feet.



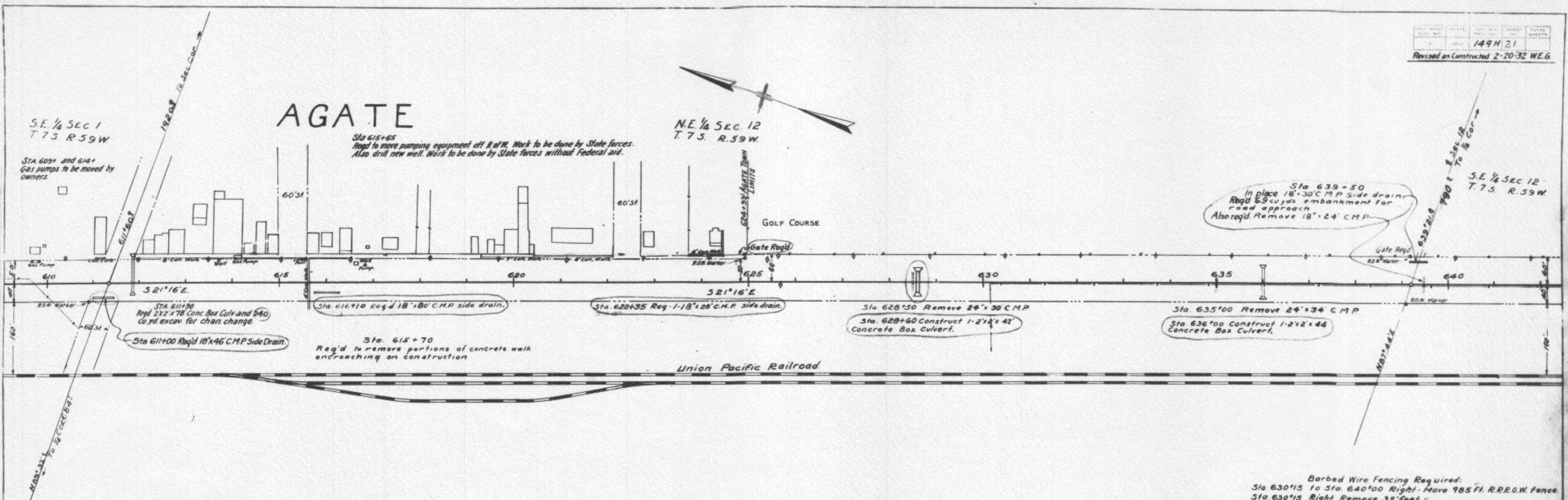
# AGATE

N.E. 1/4 SEC 12  
 T. 7 S. R. 59 W.

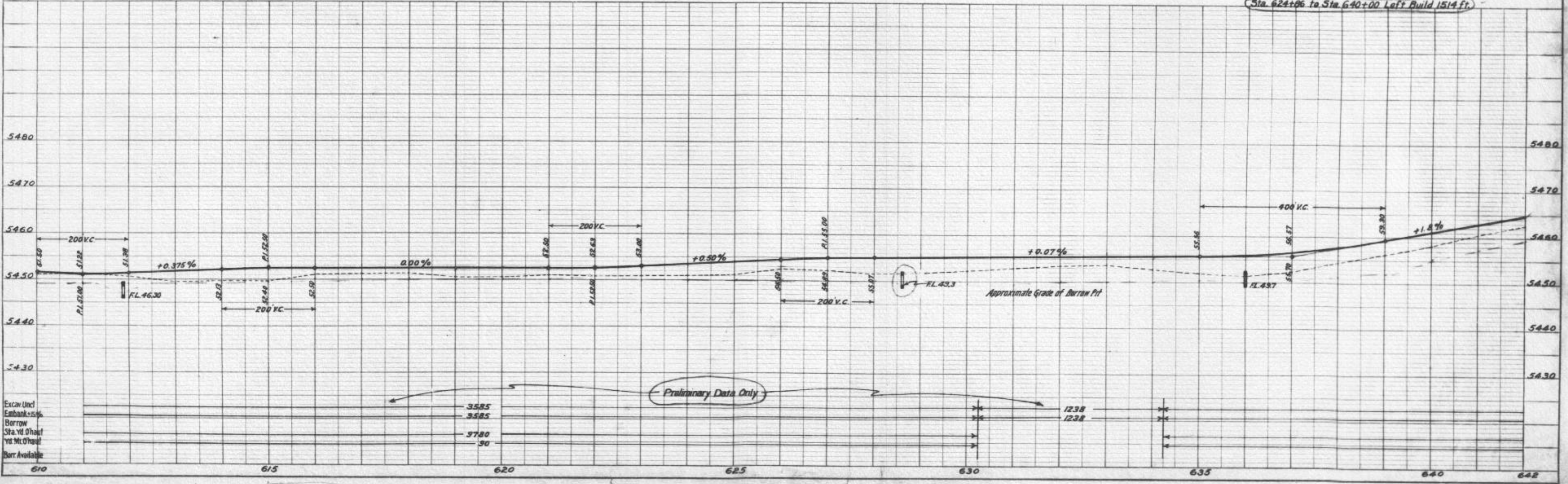
S.E. 1/4 SEC 1  
 T. 7 S. R. 59 W.

Sta 615+65  
 Req'd to move pumping equipment off R.O.W. Work to be done by State forces.  
 Also drill new well. Work to be done by State forces without Federal aid.

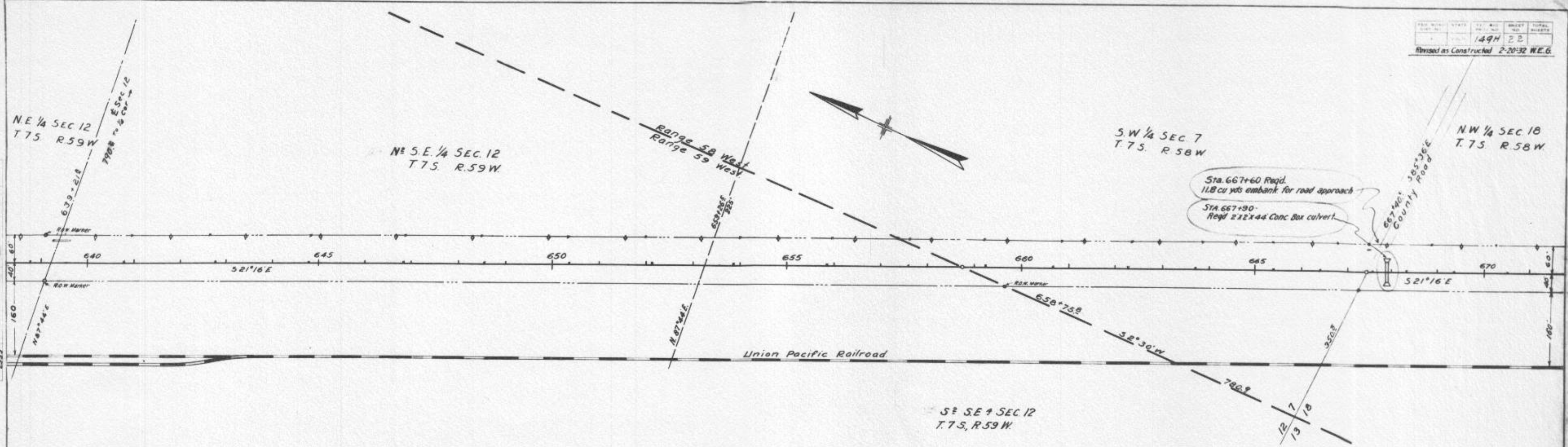
Sta 609+ and 614+  
 Gas pumps to be moved by owners



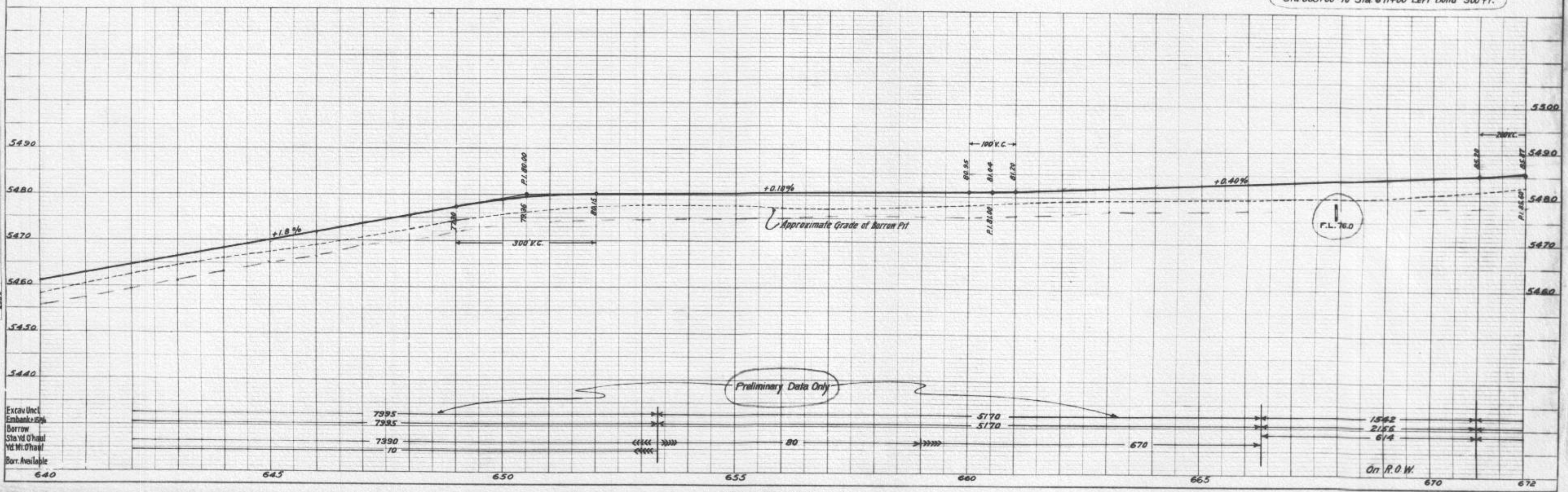
Barbed Wire Fencing Required:  
 Sta 630+15 to Sta. 640+00 Right - Move 985 ft. R.R.O.W. fence.  
 Sta 630+15 Right Remove 35' feet.  
 Sta 624+86 to Sta. 640+00 Left Build 1514 ft.



Preliminary Data Only



Barbed Wire Fencing Required:  
 Sta. 640+00 - to Sta. 671+00 & More 3100 ft. R.R. r.o.w. fence.  
 Sta. 640+00 - to Sta. 667+85 Left Build 2155 ft.  
 Sta. 668+00 - to Sta. 671+00 Left Build 300 ft.



Preliminary Data Only

$\Delta = 13^{\circ}32'$   
 $D = 1^{\circ}00'L$   
 $R = 5730'$   
 $T = 679.9$   
 $L = 1353.3$

N.W. 1/4 SEC. 18  
T. 7 S. R. 58 W

S.W. 1/4 SEC. 18  
T. 7 S. R. 58 W

Union Pacific Railroad

EQUATION

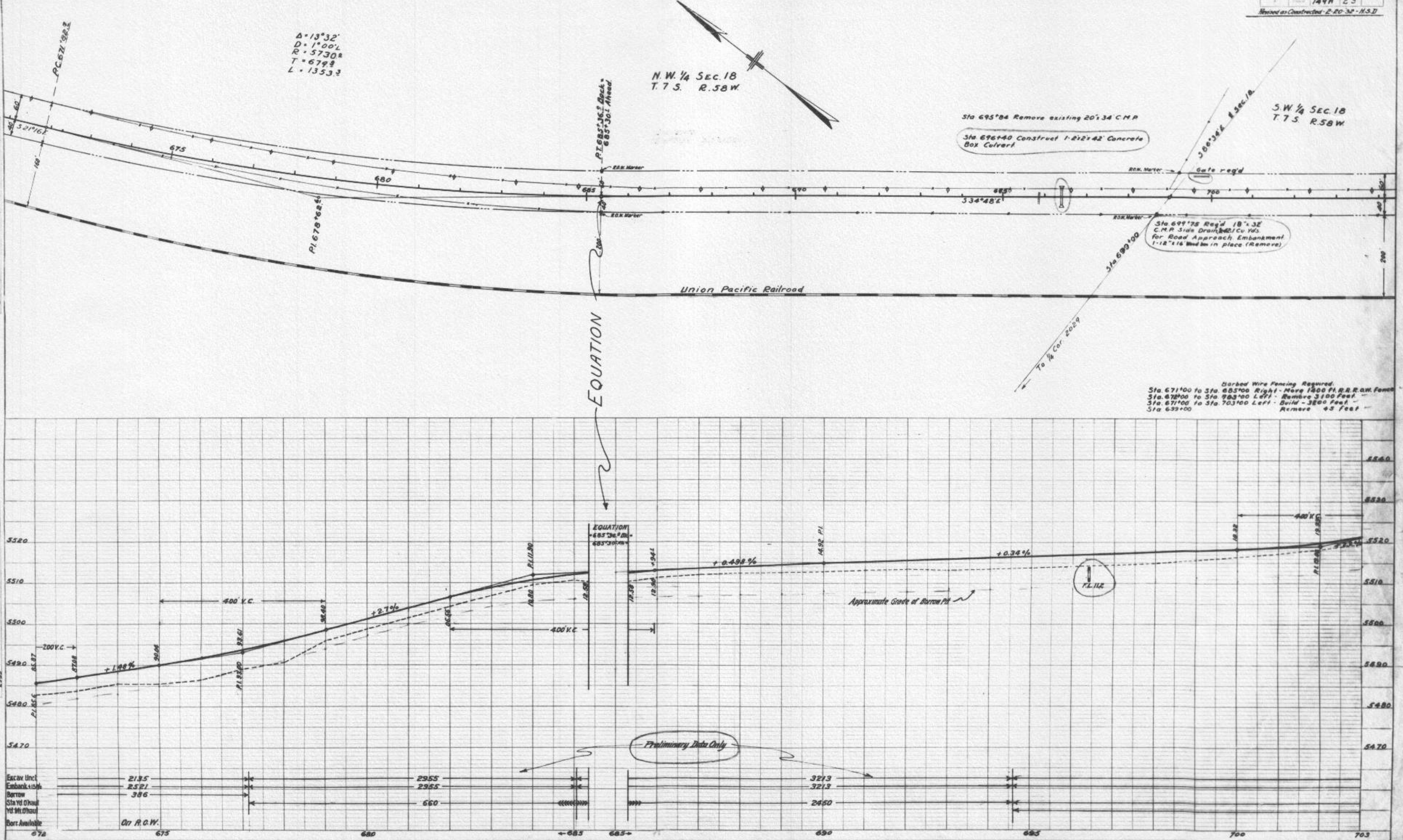
Sta 695+84 Remove existing 20'x34' C.M.P.  
Sta 696+40 Construct 1-2'x42' Concrete Box Culvert

Sta 699+75 Reg'd 18'x32' C.M.P. Side Drain 221 Cu Yds for Road Approach Embankment 1-12'x16' Wood in place (Remove)

Barbed Wire Fencing Required.  
Sta 671+00 to Sta 685+00 Right - Move 1500 Ft. R.R. R.W. Fence  
Sta 672+00 to Sta 703+00 Left - Remove 3100 Feet  
Sta 671+00 to Sta 703+00 Left - Build - 3200 Feet  
Sta 699+00 Remove 45 Feet

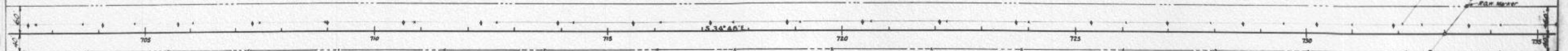
PLAN  
2465  
2466

PROFILE  
2465  
2466



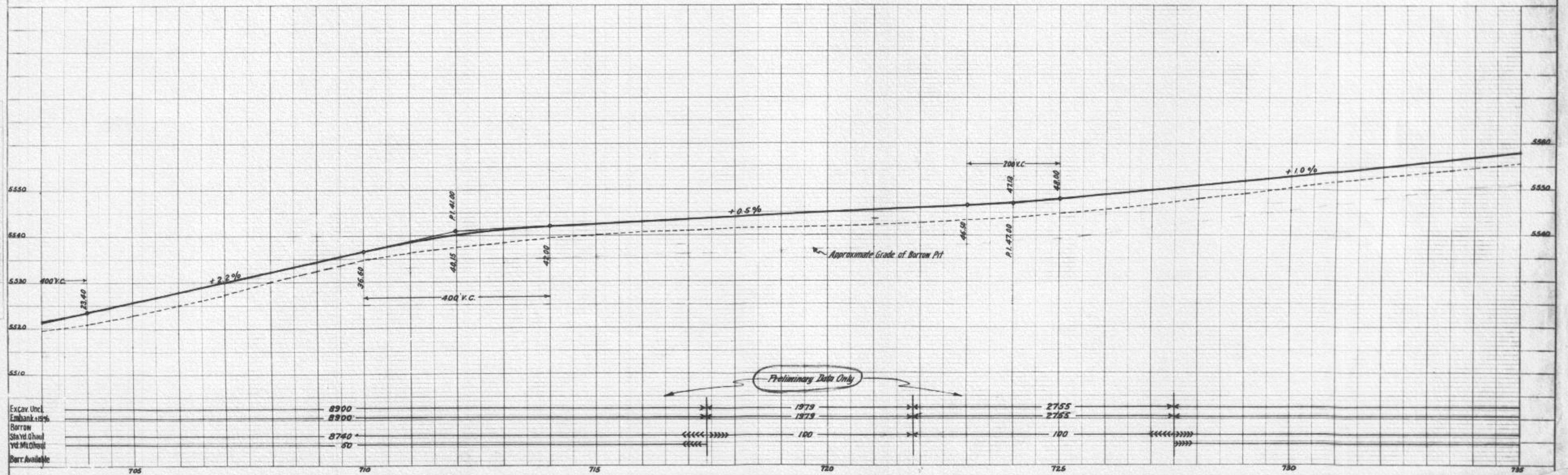
S. 1/2 Sec. 18  
T. 75. R. 50W

N.E. 1/4 Sec. 19  
T. 75. R. 50W



Union Pacific Railroad

Barbed Wire Fencing Required:  
Sta 703+00 to Sta. 734+00 - Left - 3100 feet.  
Sta 703+00 to Sta. 734+00 - Right - 3100 feet.



Preliminary Data Only

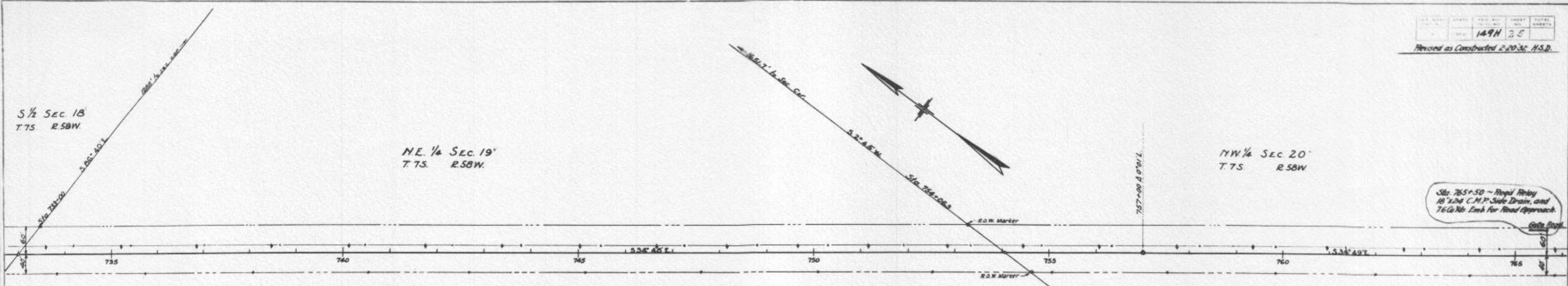
Excav. Uncl.	8900	1979	2755
Embank. usys	8900	1979	2755
Borrow			
Shed. Chaul	8740	100	100
Yd. Mchaul	50		
Barr. Available			

S 1/2 SEC. 18  
T. 75 R. 58W.

NE 1/4 SEC. 19  
T. 75 R. 58W.

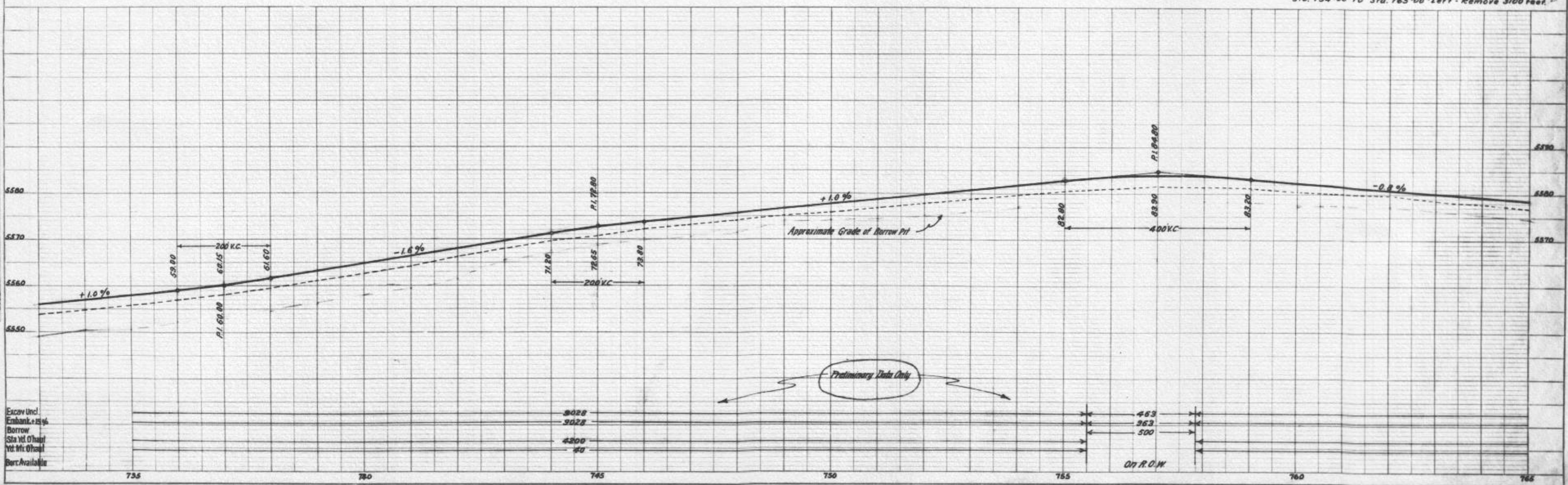
NW 1/4 SEC. 20  
T. 75 R. 58W.

Sta. 765+50 - Road Pkwy  
to 2nd C.M.P. Side Drain, and  
766+00 No Emb for Road Approach.



Union Pacific Railroad

Barbed Wire Fencing Required:  
Sta. 734+00 to Sta. 765+00 - Left - Build 3100 feet  
Sta. 734+00 to Sta. 765+00 - Left - Remove 3100 feet



Preliminary Data Only

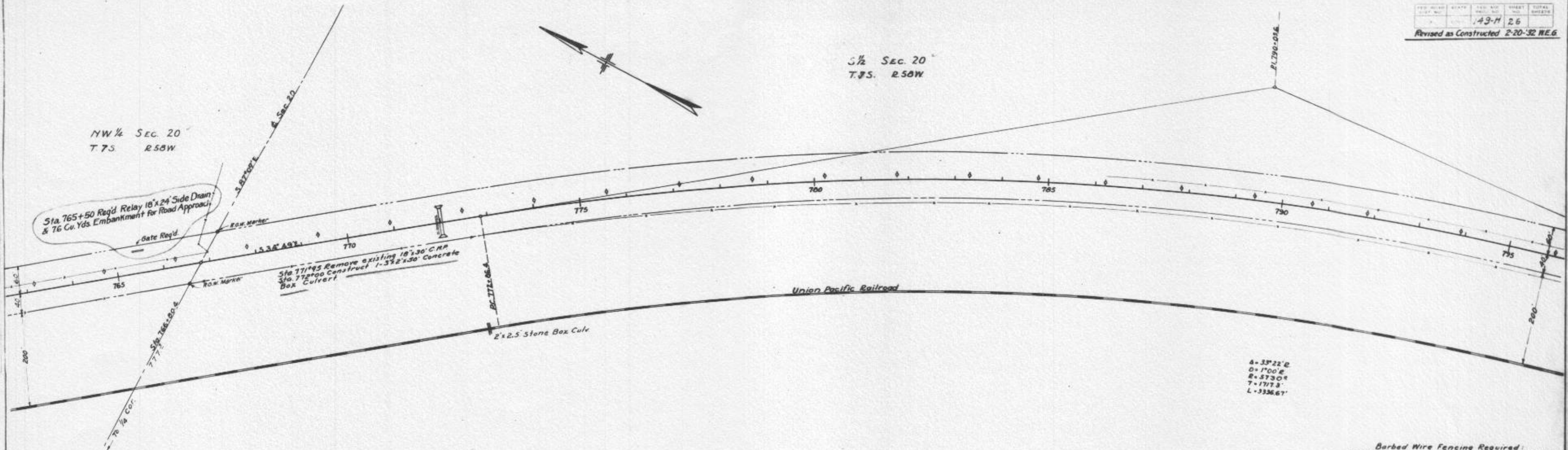
Excavated  
Embankment  
Borrow  
Sta. Vol. of haul  
Vol. of haul  
Bert. Available

3028  
3028  
4200  
80

463  
363  
500  
On R.O.W.

5 1/2 SEC. 20  
T. 75. R. 50W

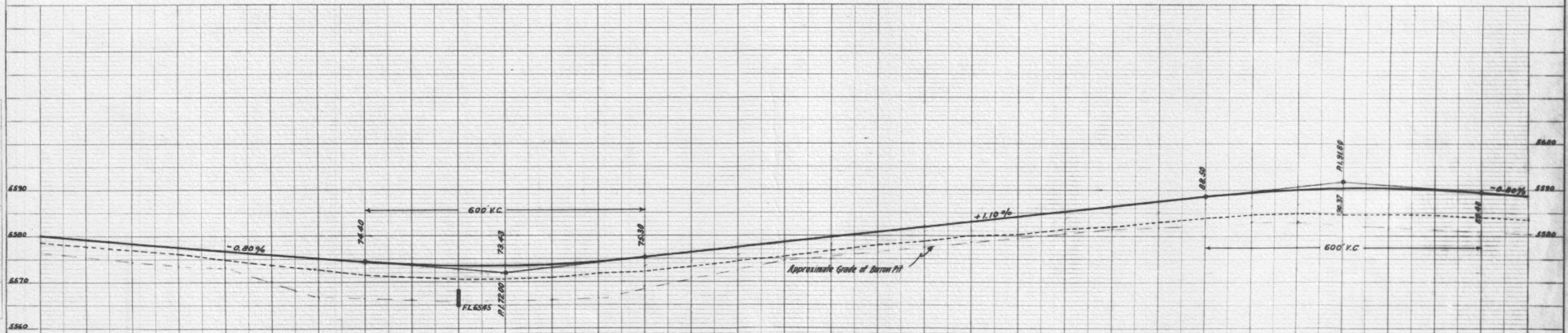
NW 1/4 SEC. 20  
T. 75. R. 50W



Barbed Wire Fencing Required:  
Sta. 765+00 to Sta. 795+00 - Left - Build 3000 feet.  
Sta. 765+00 to Sta. 787+00 - Left - Remove 260 feet.  
Sta. 786+20 to Sta. 795+00 - Left - Remove 880 feet.

PLAN  
P. 954

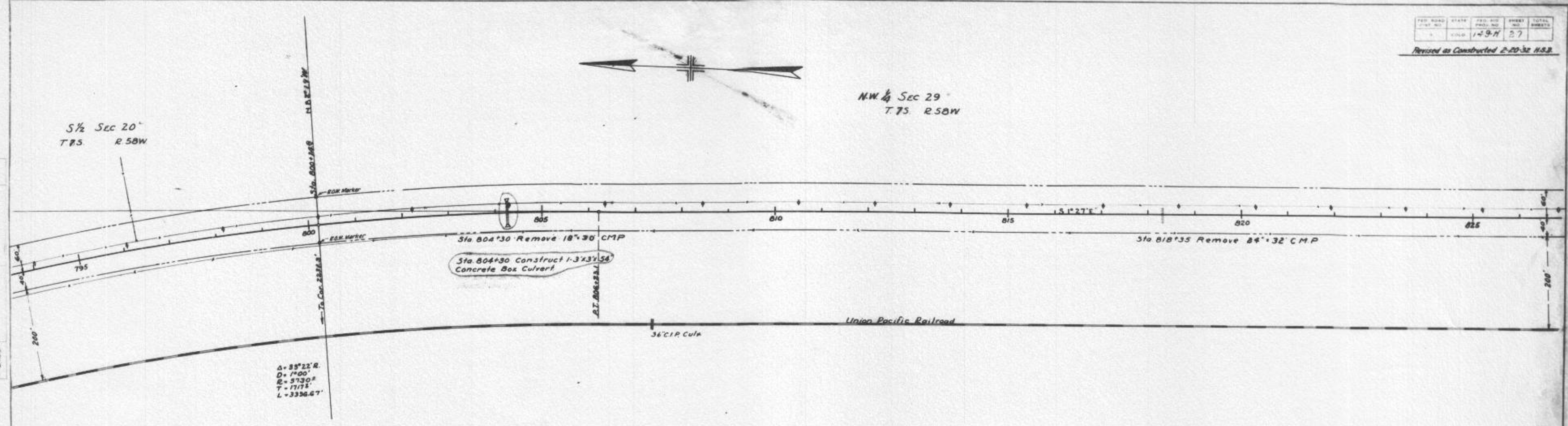
PROFILE  
P. 2856



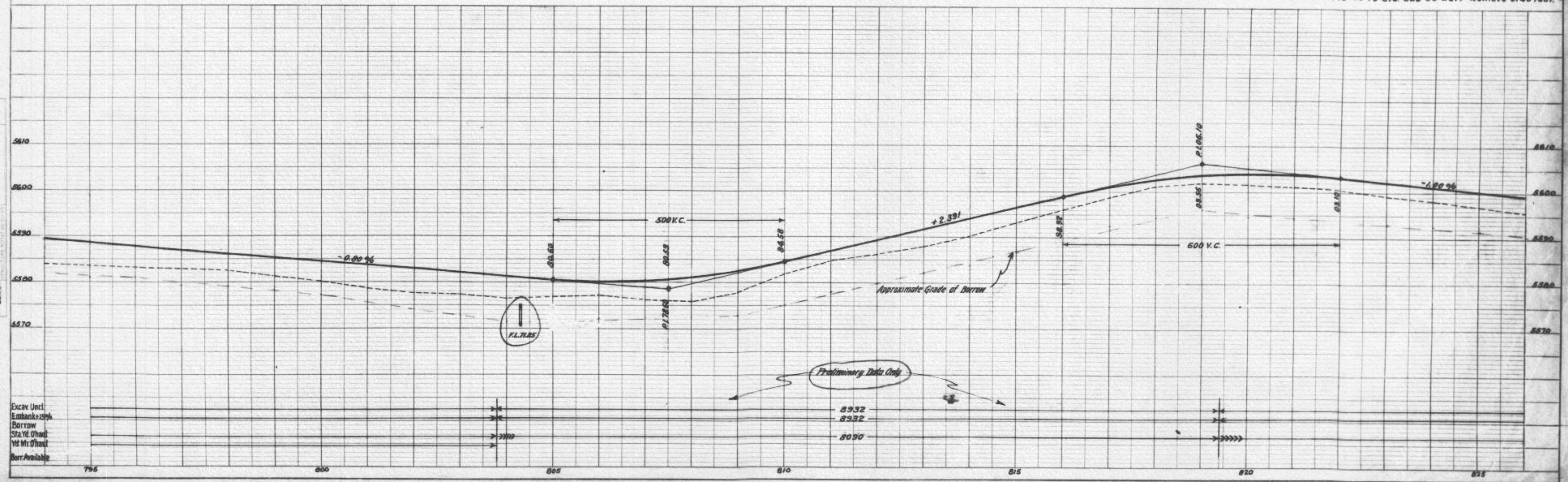


1/2 Sec 20  
T. 75. R. 50W

N.W. 1/4 Sec 29  
T. 75. R. 50W



Barbed Wire Fencing Required:  
Sta. 795+00 to Sta. 826+00-Left-Build 3100 Feet  
Sta. 795+00 to Sta. 826+00-Left-Remove 3140 Feet



Excav (incl)  
Embank (incl)  
Borrow  
Sta. Yd. Other  
Yd. Mr. Other  
Borr. Available

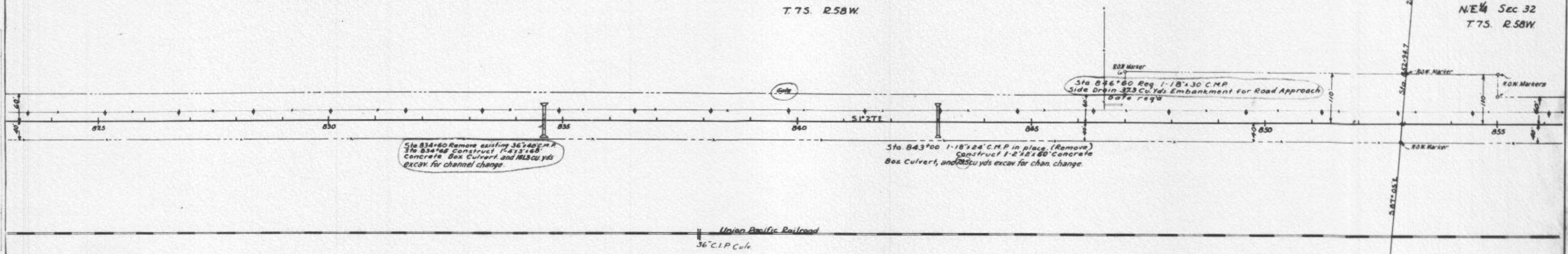


PROJ. NO.	STATE	FED. AID	SHEET NO.	TOTAL SHEETS
149-H	IOWA		28	

Revised as Constructed 2-20-32 H.S.D.

SEC. 29  
T. 75. R. 58W.

NE 1/4 Sec 32  
T. 75. R. 58W.

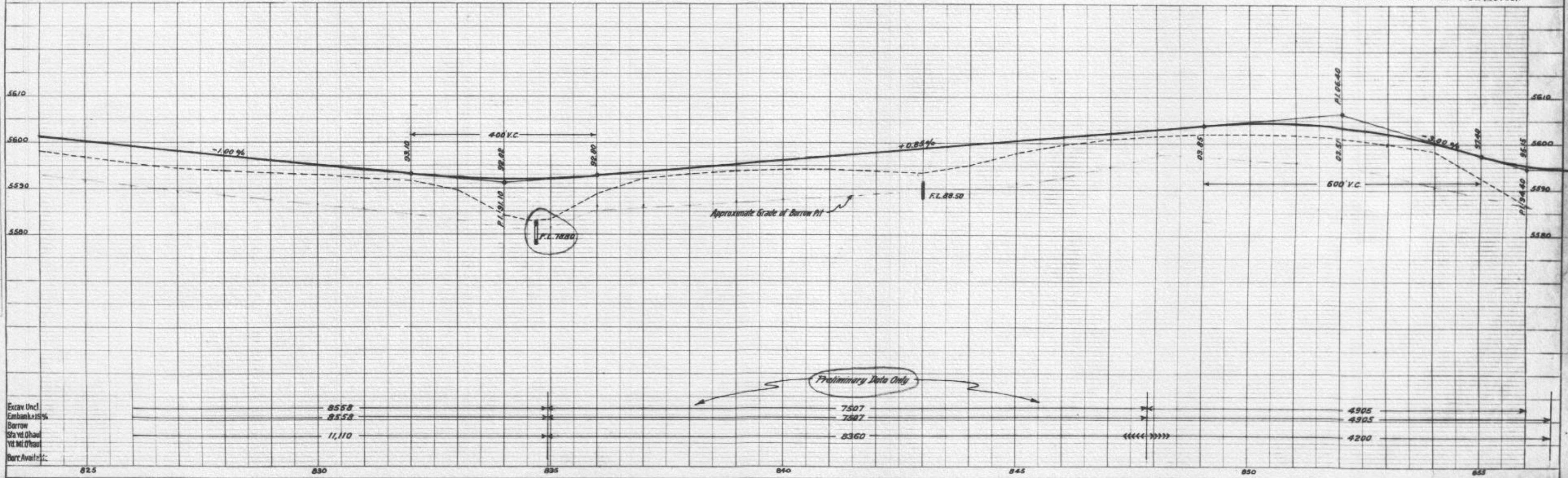


Sta 834+60 Remove existing 36"x40" C.P. Box Culvert and 145 cu yds excav. for channel change.

Sta 843+00 1-18"x24" C.M.P. in place. (Remove) Construct 1-2'x18" Concrete Box Culvert, and 225 cu yds excav. for chan. change.

Sta 846+60 Reg. 1-18"x30" C.M.P. Side Drain 373 Cu Yds Embankment for Road Approach

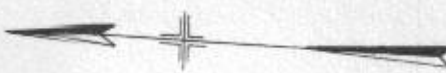
Barbed Wire Fencing Required:  
Sta 826+00 to Sta 855+00 - Left - Build 3000 feet.  
Sta 826+00 to Sta 855+00 - Left - Remove 2900 feet.



PLAN  
NOTE: SEE SHEET 28 FOR PLAN OF ROAD CROSSING.

PROFILE  
NOTE: SEE SHEET 28 FOR PLAN OF ROAD CROSSING.

NOTE: Buildings to be moved by State forces with Federal aid and reset without Federal aid.



Sta. 858+01.5 to 858+95  
 Reg'd Treated Timber Trestle - 4 spans @ 23'-  
 as per sheet No. 6  
 Also required 800' Wire Cable Guard Fence,  
 and 152' cu yds excav for channel change

N.E. 1/4 Sec 32  
 T7S R58W

Sta. 870+00 Remove 18'x36'x15' Wood Box Culvert

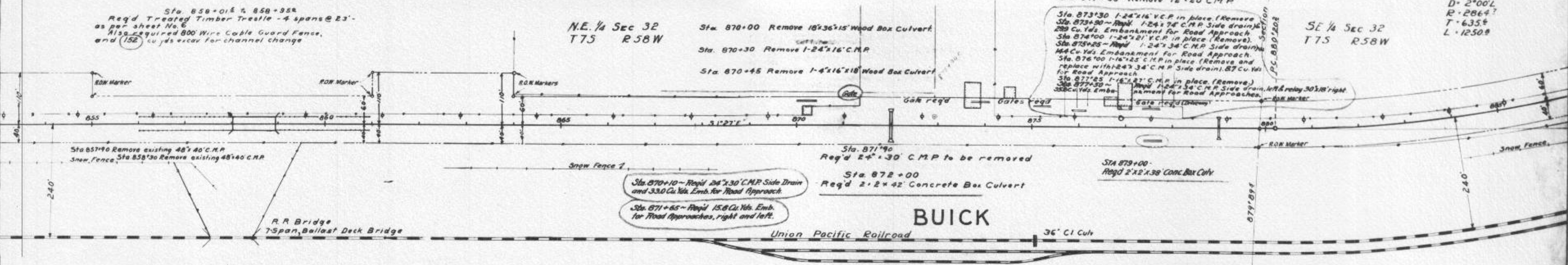
Sta. 870+30 Remove 1-24'x16' C.M.P.

Sta. 870+45 Remove 1-4'x16'x18' Wood Box Culvert

Sta. 871+80 Remove 12'x20' C.M.P.

Sta. 873+30 1-24'x16' V.C.P. in place (Remove)  
 Sta. 873+30 - Reg'd 1-24'x7' C.M.P. Side drain  
 289 Cu. Yds. Embankment for Road Approach  
 Sta. 874+00 1-24'x21' V.C.P. in place (Remove)  
 Sta. 875+25 - Reg'd 1-24'x34' C.M.P. Side drain  
 144 Cu. Yds. Embankment for Road Approach  
 Sta. 876+00 1-16'x25' C.M.P. in place (Remove and  
 replace with 24'x34' C.M.P. Side drain). 87 Cu. Yds  
 for Road Approach  
 Sta. 877+30 1-16'x21' C.M.P. in place (Remove)  
 Reg'd 1-24'x34' C.M.P. Side drain, left & right 30'x18' right  
 352 Cu. Yds. Embankment for Road Approaches.

SE 1/4 Sec 32  
 T7S R58W  
 Δ = 25°01'  
 D = 2°00'L  
 R = 2864'  
 T = 635'  
 L = 1250'



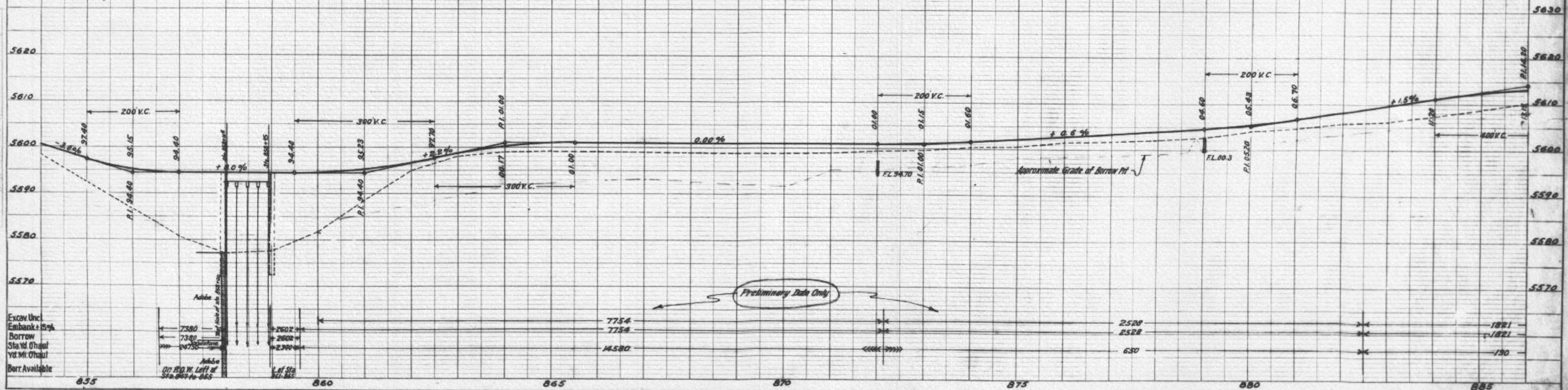
STRUCTURE NOTES FOR BRIDGE AT STA 858+01.5 to 858+95

PRESENT STRUCTURE: 2@48' C.M.P. Culvert	PROPOSED STRUCTURE
Span	Position referred to present structure, Same
Clear roadway	Span, 4 @ 23'-0"
Clear waterway	Clear roadway, 29'
Type of Superstructure	Clear waterway, 1020"
Type of Substructure	Type of Superstructure, 6" Laminated floor,
Requirements as to removal, Remove	1/2" Asphalt Plank W.S. Timber Strgs (P-117-A)
	Type of Substructure, Treated Timber Piles
	Detour Structure requirements, None
	RR Siding, Buick
	Haul to Bridge site, 1/2 Mi.

STREAM DATA:  
 Drainage area in Sq. Miles, 2 ±  
 Velocity during high water  
 Elevation of:  
 Maximum high water  
 Low water, Dry  
 Normal Stage, Dry  
 Stream bed, 3566'  
 Drift, Light  
 Scour, None

Nearby structures on same stream:  
 U.P.R.R. Bridge, 3 spans = 103'  
 Location, 1/2 Mi. Down stream  
 Waterway  
 Record during floods

Barbed Wire Fencing Required:  
 Sta. 855+00 to 873+80 Left Build 2480 feet  
 Sta. 855+00 to Sta. 885+00 Left Remove 2670 feet  
 Sta. 876+89 to Sta. 885+00 Left Build 811 feet

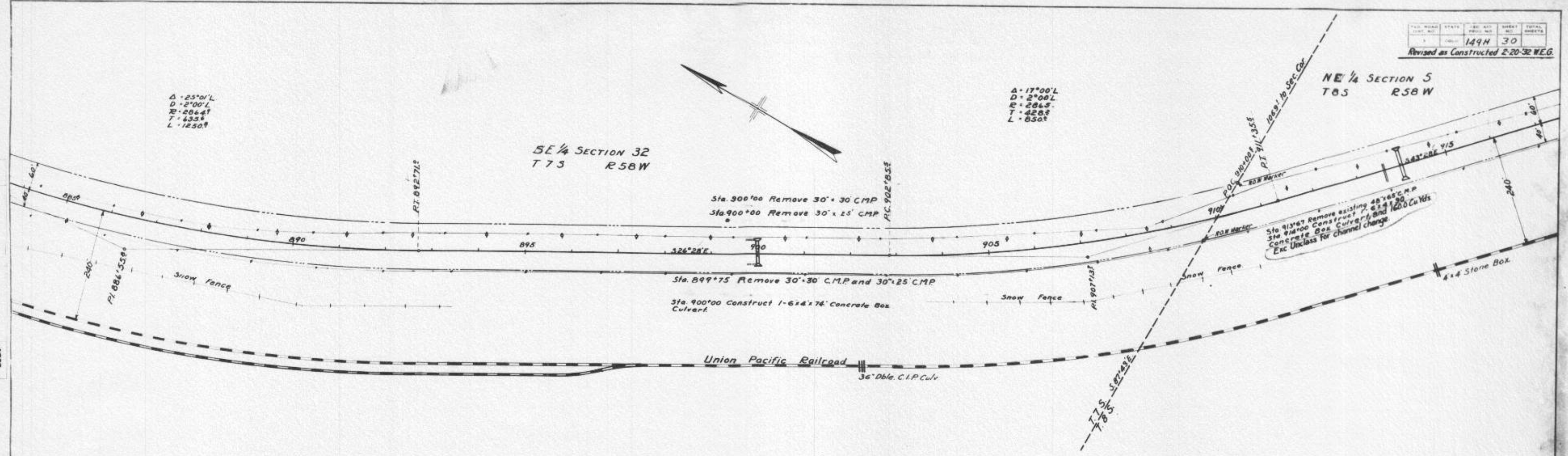


NE 1/4 SECTION 5  
T 8 S R 58 W

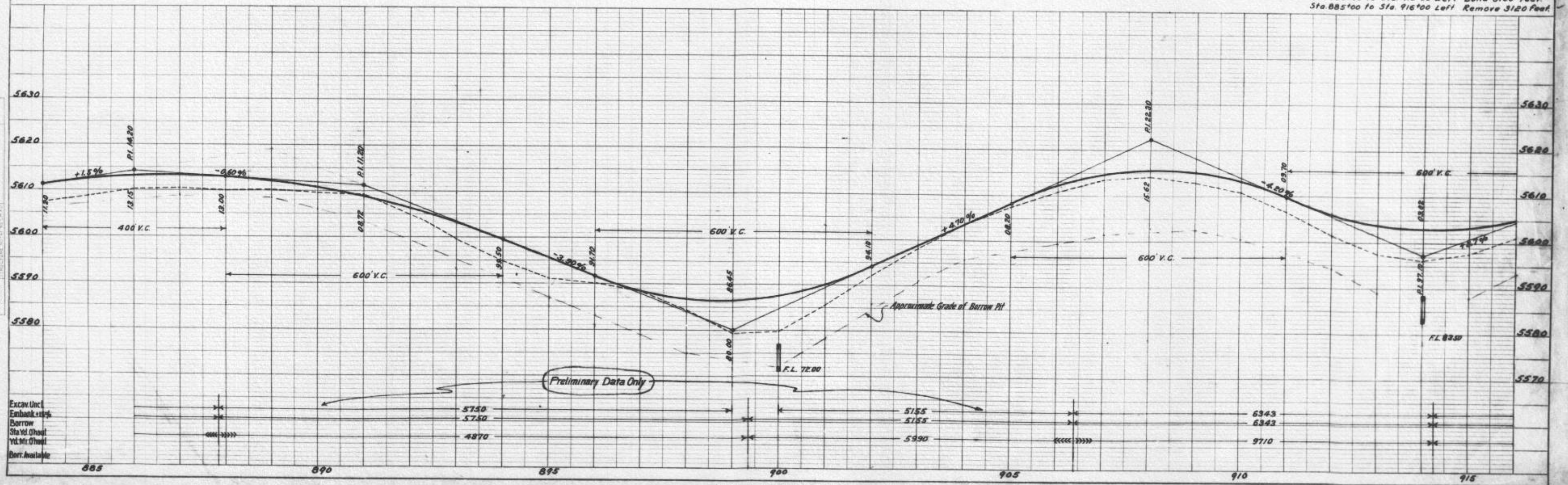
SE 1/4 SECTION 32  
T 7 S R 58 W

$\Delta = 25^{\circ}00' L$   
 $D = 2100' L$   
 $E = 2064.5'$   
 $T = 435.6'$   
 $L = 1250.9'$

$\Delta = 17^{\circ}00' L$   
 $D = 2100' L$   
 $E = 2064.5'$   
 $T = 435.6'$   
 $L = 1250.9'$



Barbed Wire Fencing Required:  
Sta 885+00 to Sta. 916+00 Left Build 3100 Feet  
Sta 885+00 to Sta. 916+00 Left Remove 3120 Feet



Preliminary Data Only

Excav Unc							
Embank +15%							
Borrow							
St. Yd Chaut							
Yd. M. Chaut							
Barr. Available							
	5750	5750	5155	5155	6343	6343	
	4870		5590		9710		

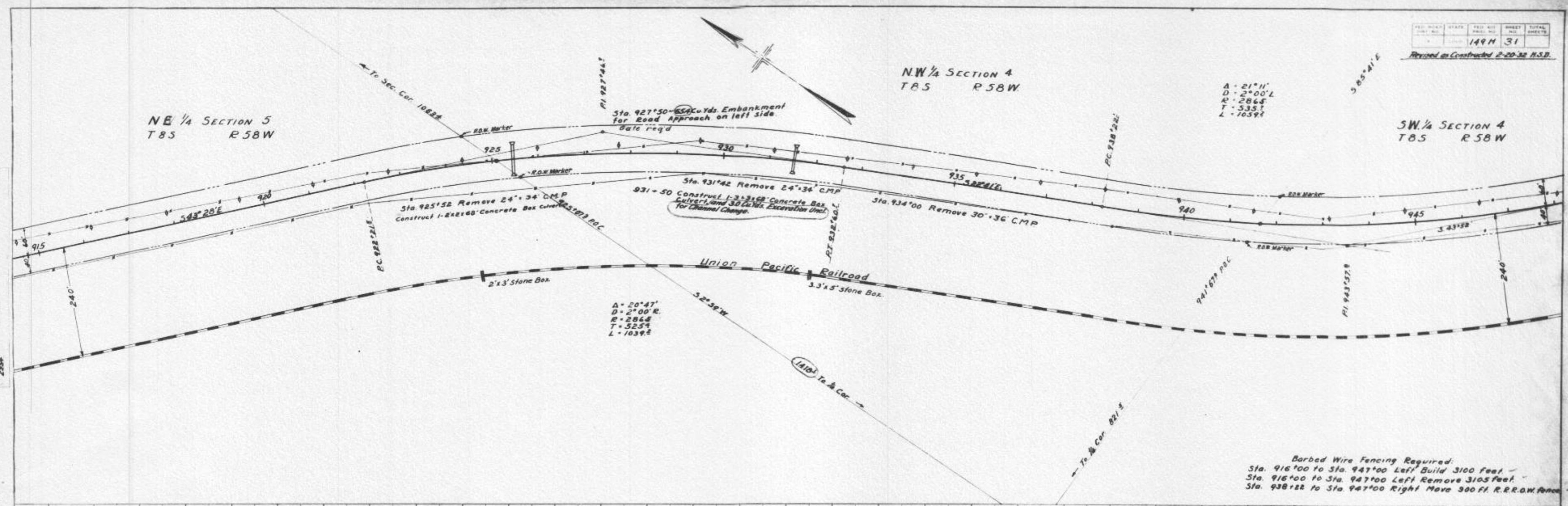


NE 1/4 SECTION 5  
T8S R58W

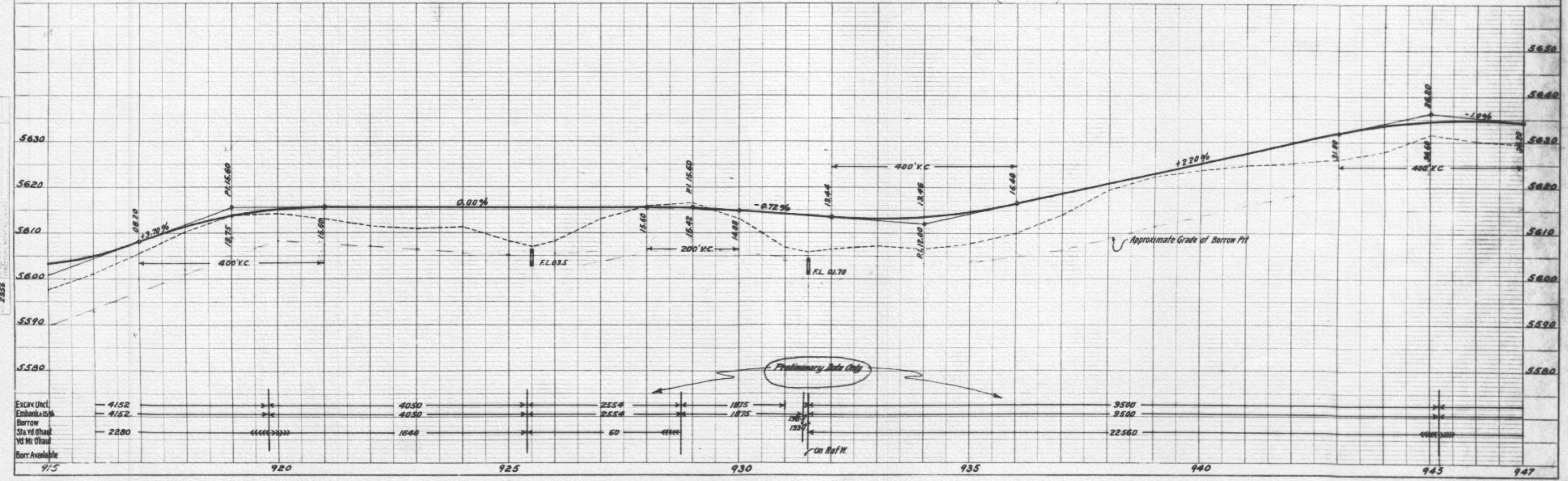
NW 1/4 SECTION 4  
T8S R58W

SW 1/4 SECTION 4  
T8S R58W

A = 21°11'  
D = 2°00'L  
R = 2864  
T = 5357  
L = 10394



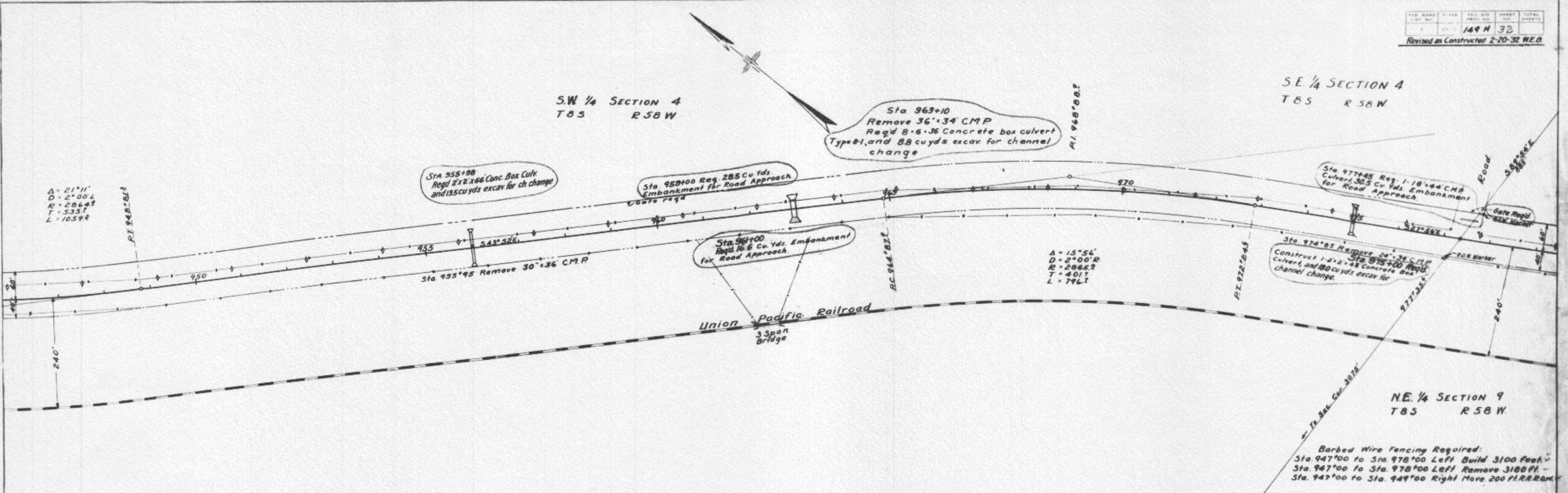
Barbed Wire Fencing Required:  
Sta. 916+00 to Sta. 947+00 Left Build 3100 feet  
Sta. 916+00 to Sta. 947+00 Left Remove 3105 feet  
Sta. 938+22 to Sta. 947+00 Right Move 300 ft. R.R.R.O.W. fence



S.W. 1/4 SECTION 4  
T8S R58W

S.E. 1/4 SECTION 4  
T8S R58W

N.E. 1/4 SECTION 9  
T8S R58W



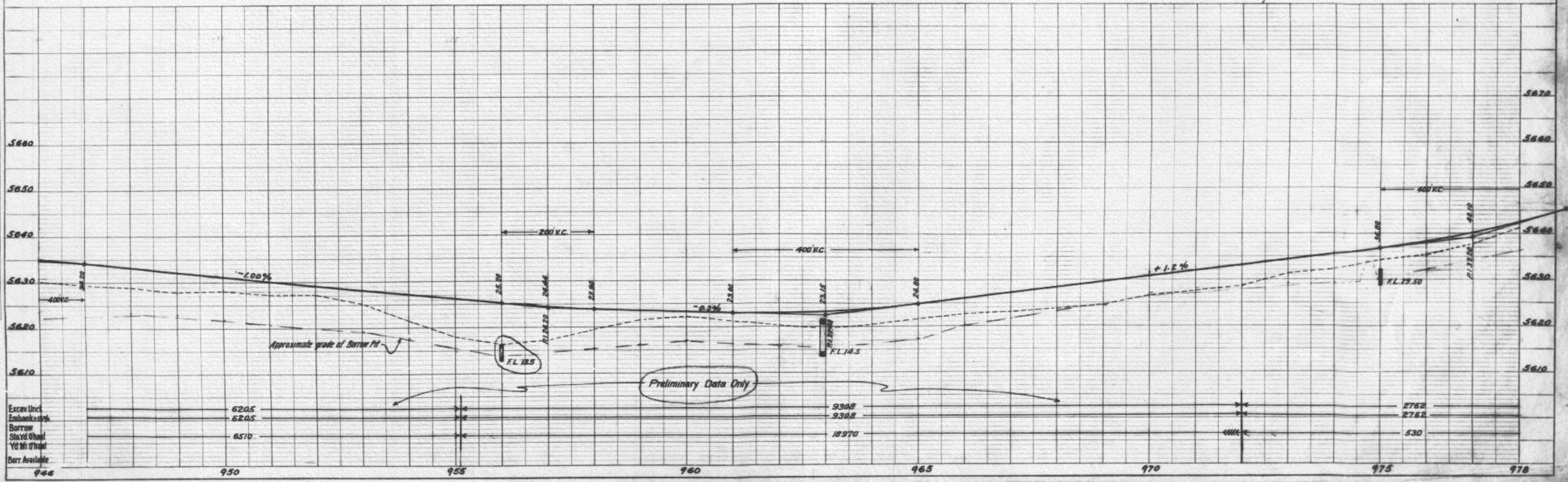
A = 21°11'  
D = 2°00'L  
R = 2064.2  
T = 535.7  
L = 1059.8

A = 15°56'  
D = 2°00'R  
R = 2065.2  
T = 401.2  
L = 776.1

Barbed Wire Fencing Required:  
Sta. 947+00 to Sta. 978+00 Left Build 3100 feet.  
Sta. 947+00 to Sta. 978+00 Left Remove 3180 ft.  
Sta. 947+00 to Sta. 949+00 Right Move 200 ft. RR R.R.

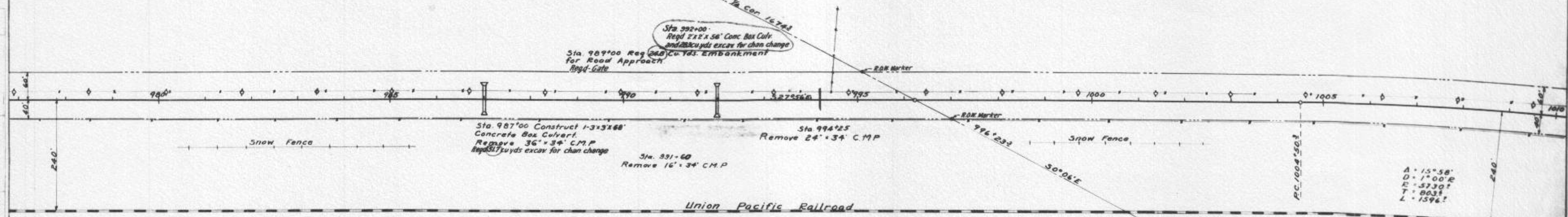
PLAN  
NOT TO SCALE  
2554

PROFILE  
NOT TO SCALE  
2556

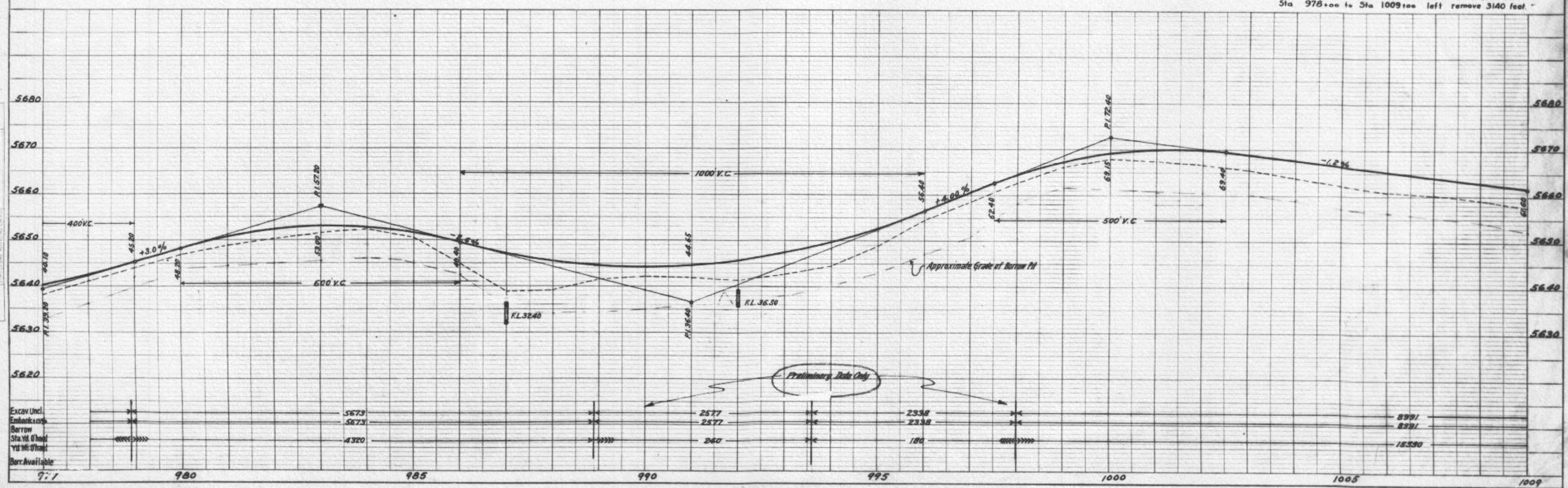


N.E. 1/4 SECTION 9  
T. 8 S. R. 58 W.

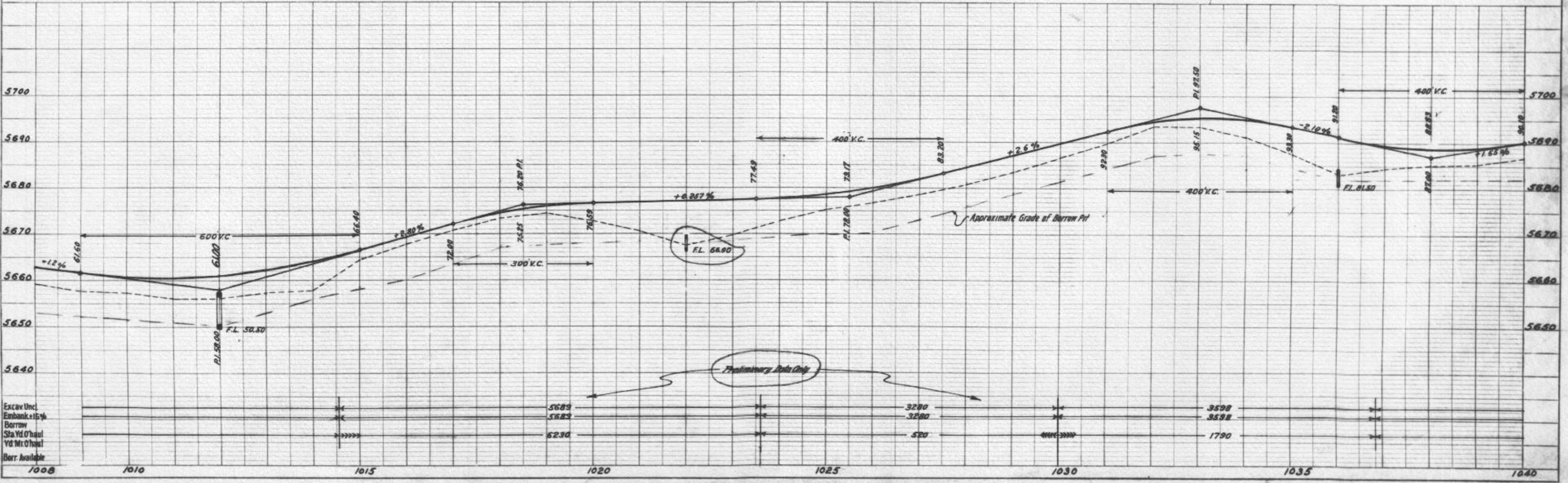
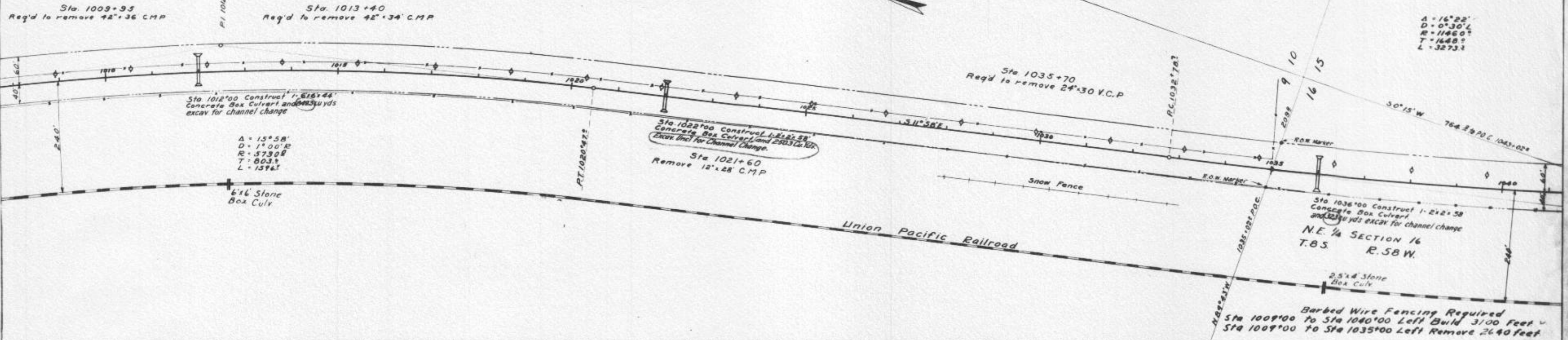
N.E. 1/4 SECTION 9  
T. 8 S. R. 58 W.



Barbed Wire Fencing Required  
Sta 978+00 to Sta 1009+00 left build 3100 feet  
Sta 978+00 to Sta 1009+00 left remove 3140 feet



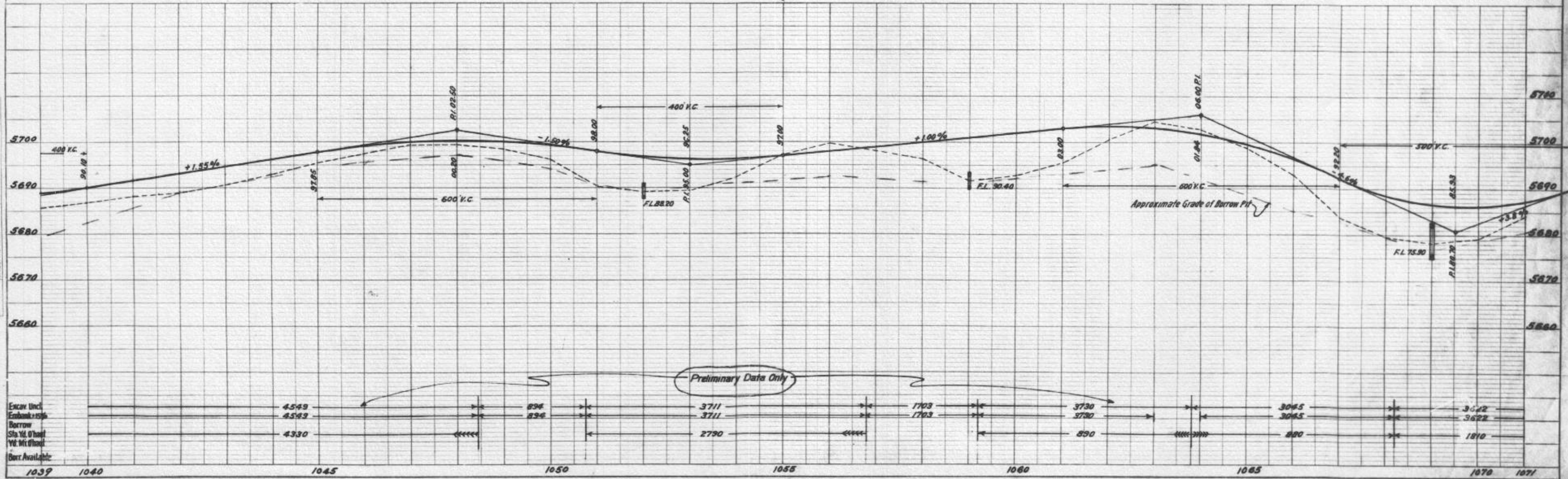
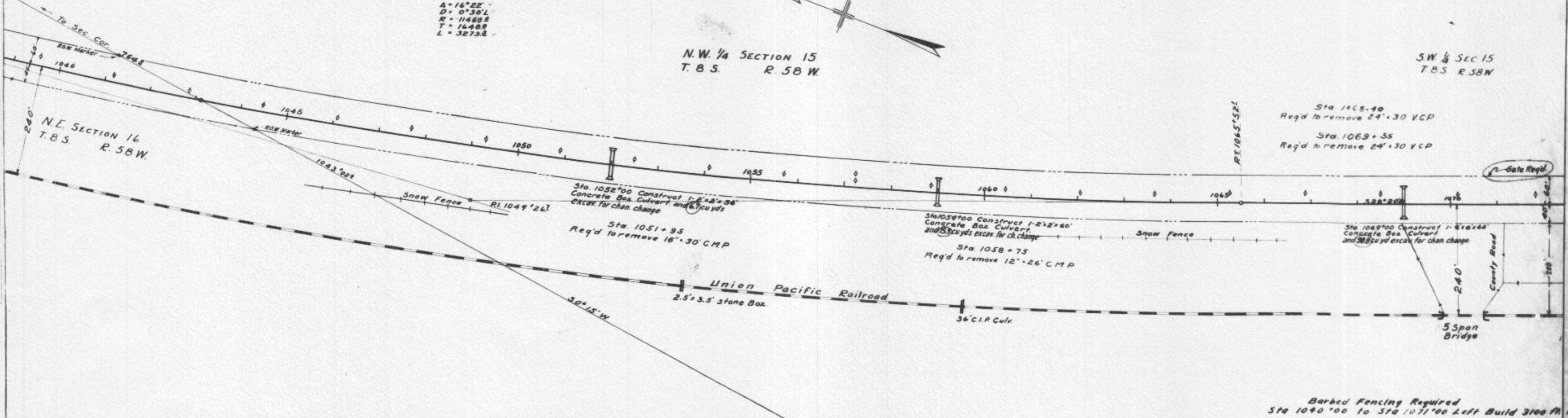
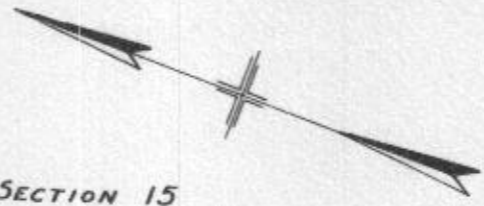
S.E. 1/4 SECTION 9  
T.8 S. R.58 W.



N.W. 1/4 SECTION 15  
 T. 8 S. R. 58 W.

SW 1/4 SECTION 15  
 T. 8 S. R. 58 W.

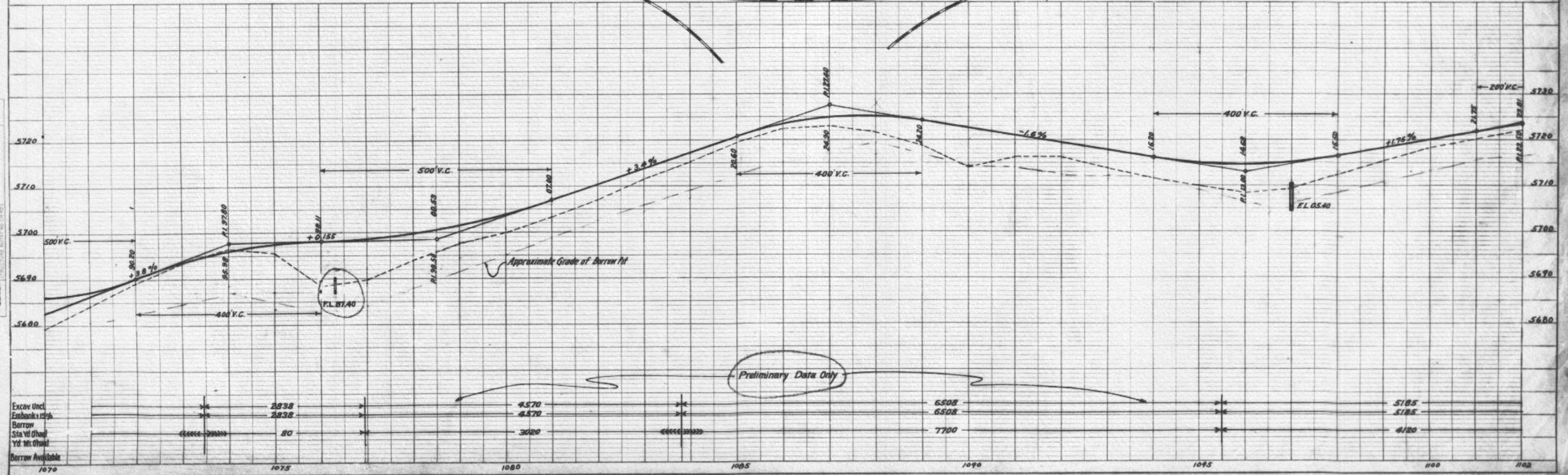
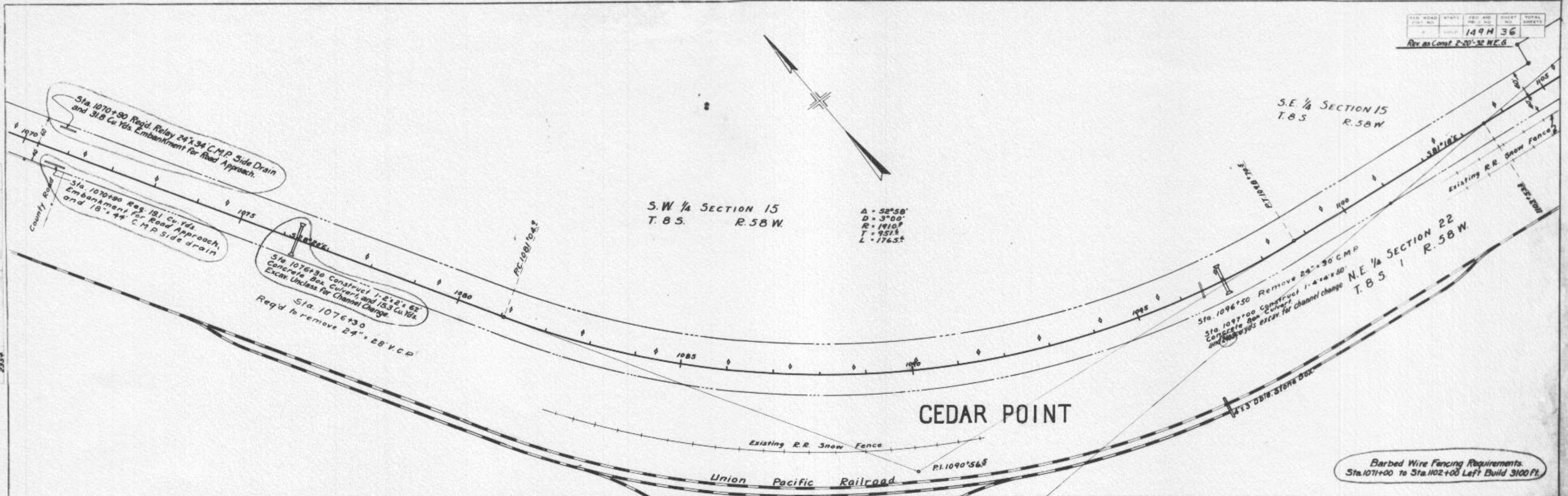
A = 16° 22'  
 D = 0° 30' L  
 R = 11480  
 T = 16489  
 L = 32732

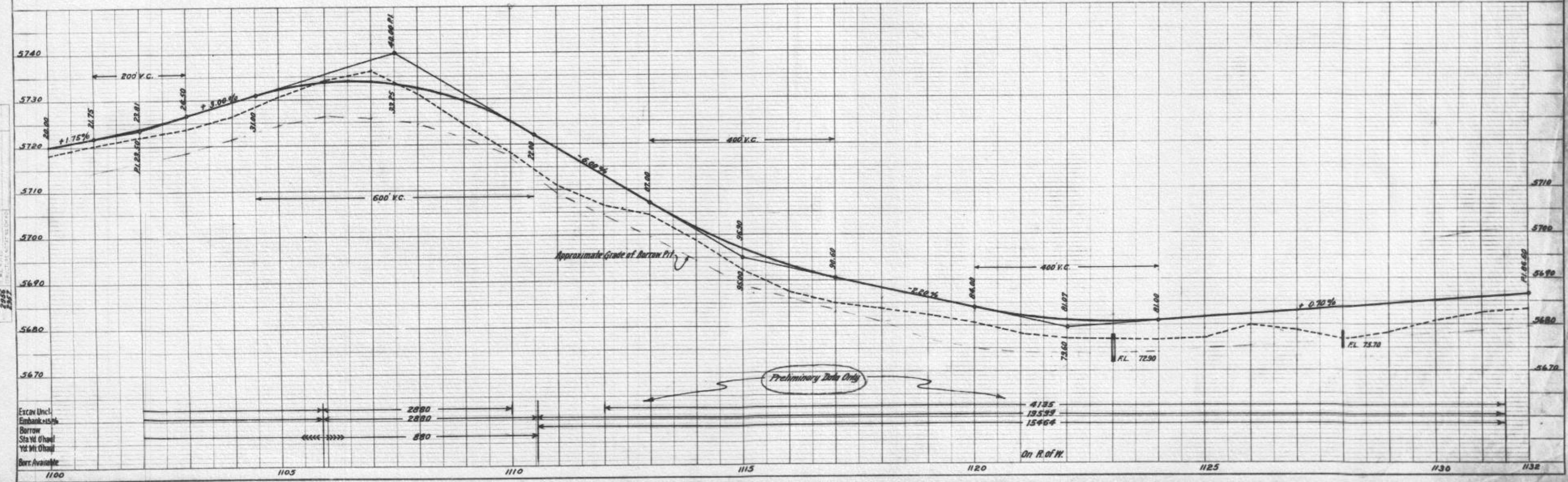
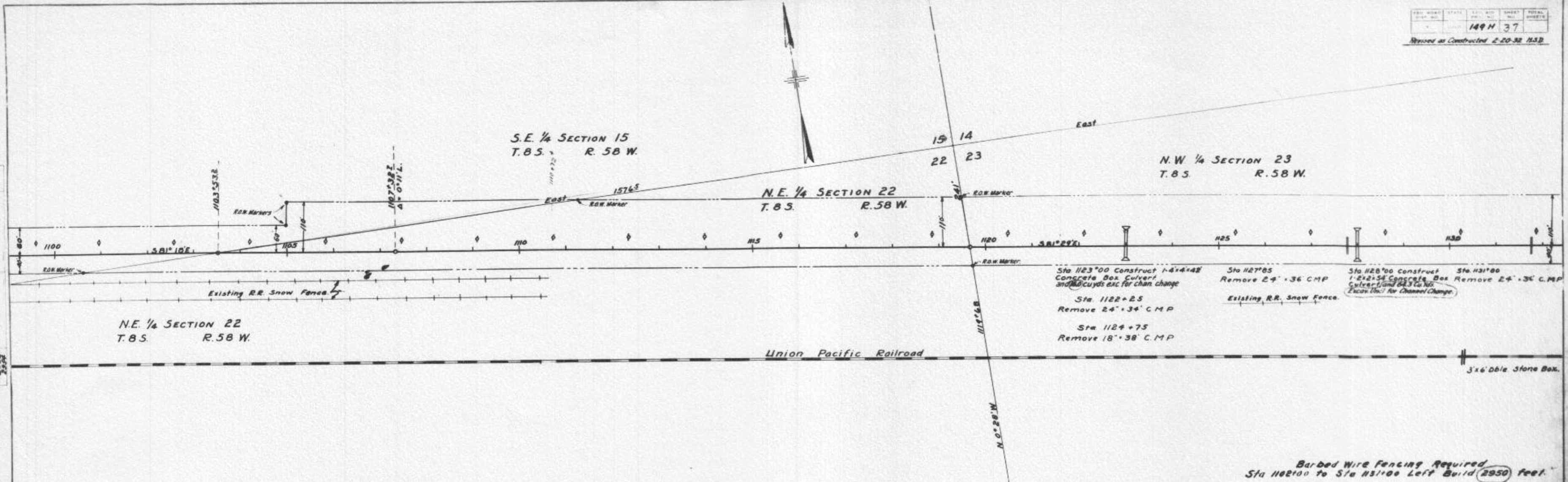


Preliminary Data Only



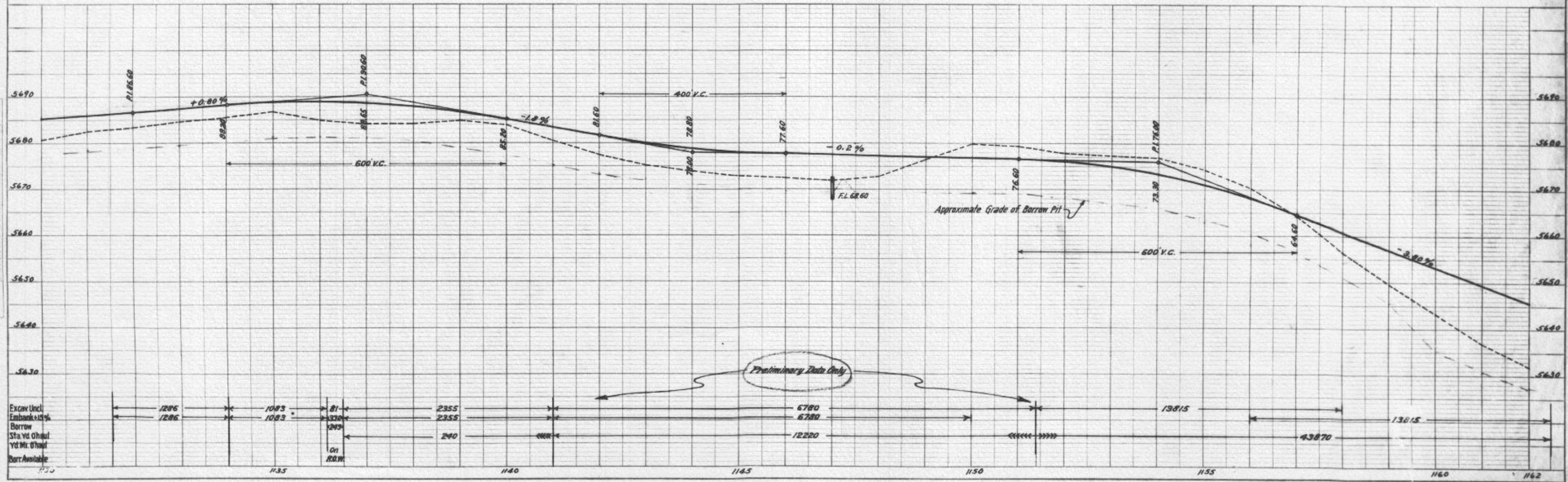
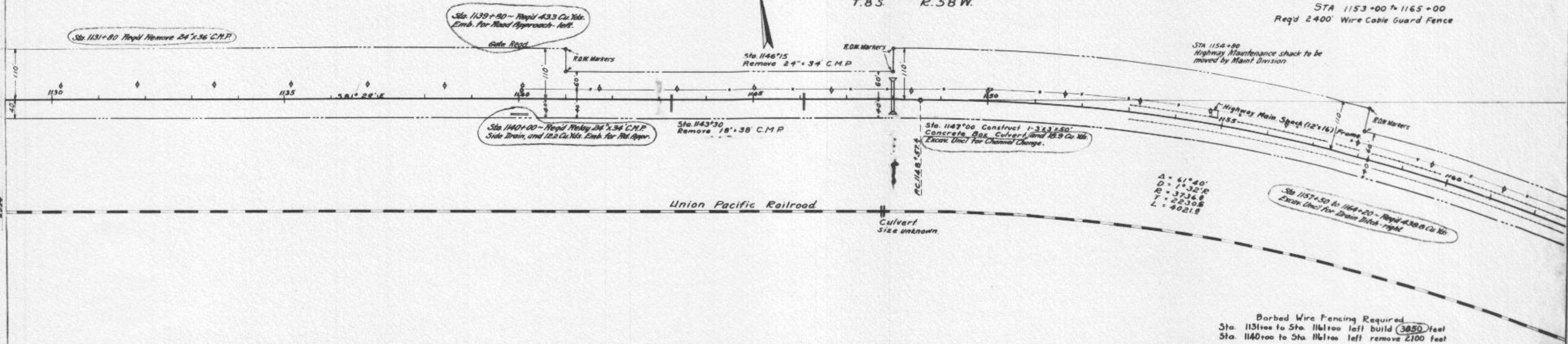
PLAN  
2353  
2354





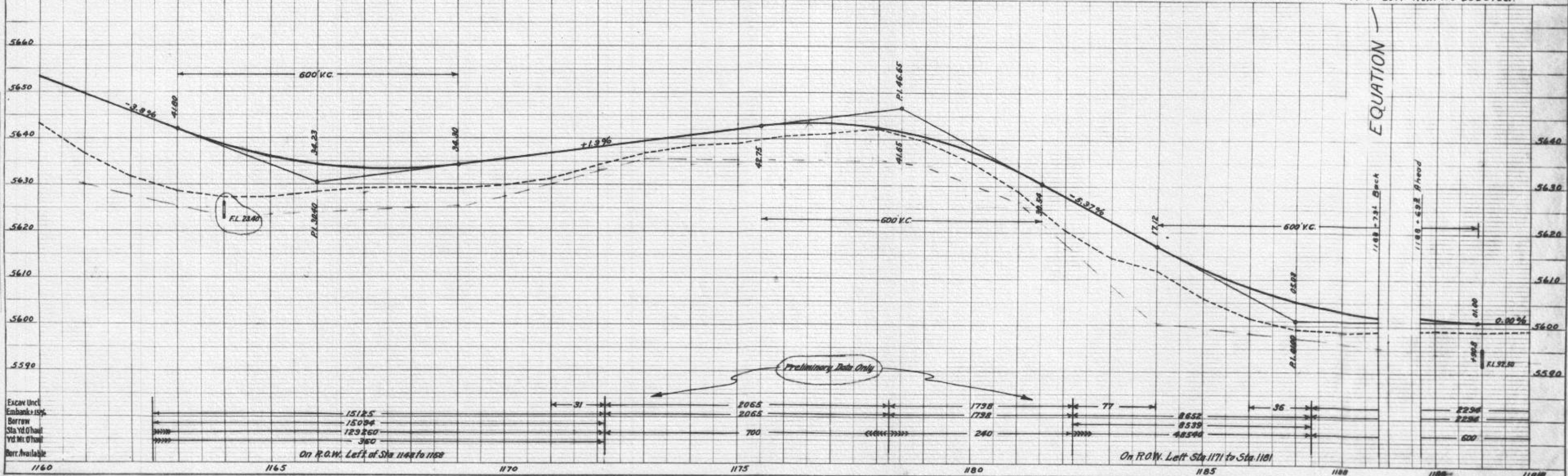
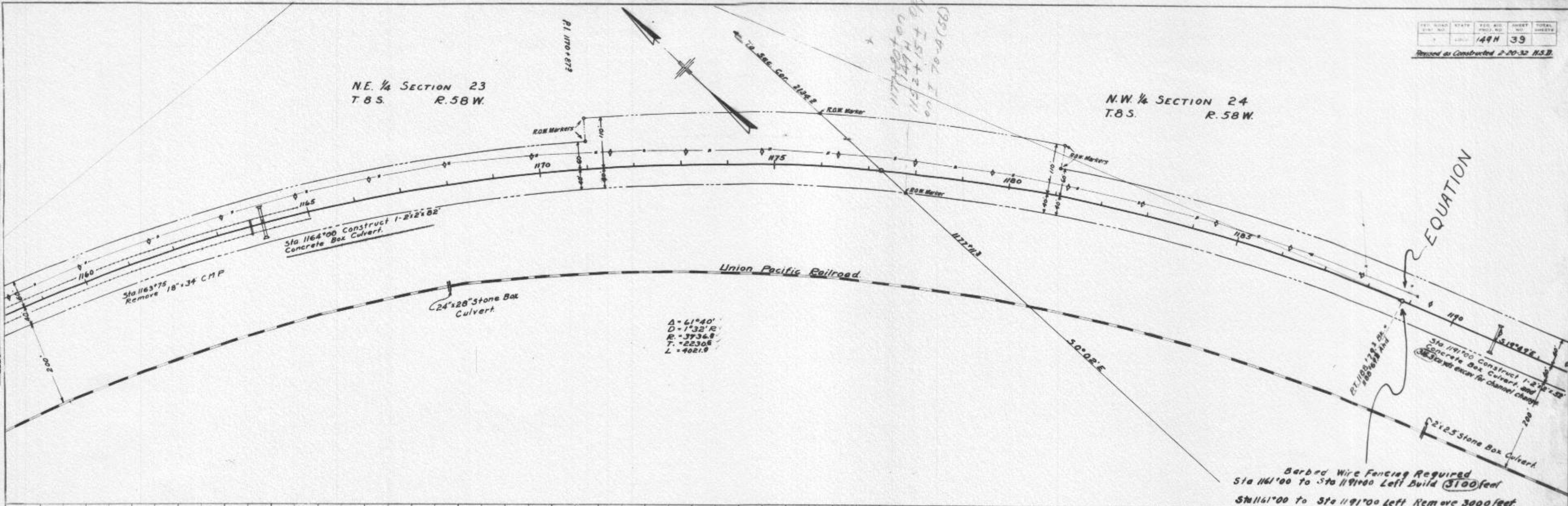
PROFILE  
 2885  
 2887

N 1/2 SECTION 23  
T.8S R.58W.



N.E. 1/4 SECTION 23  
 T.8S. R.58W.

N.W. 1/4 SECTION 24  
 T.8S. R.58W.



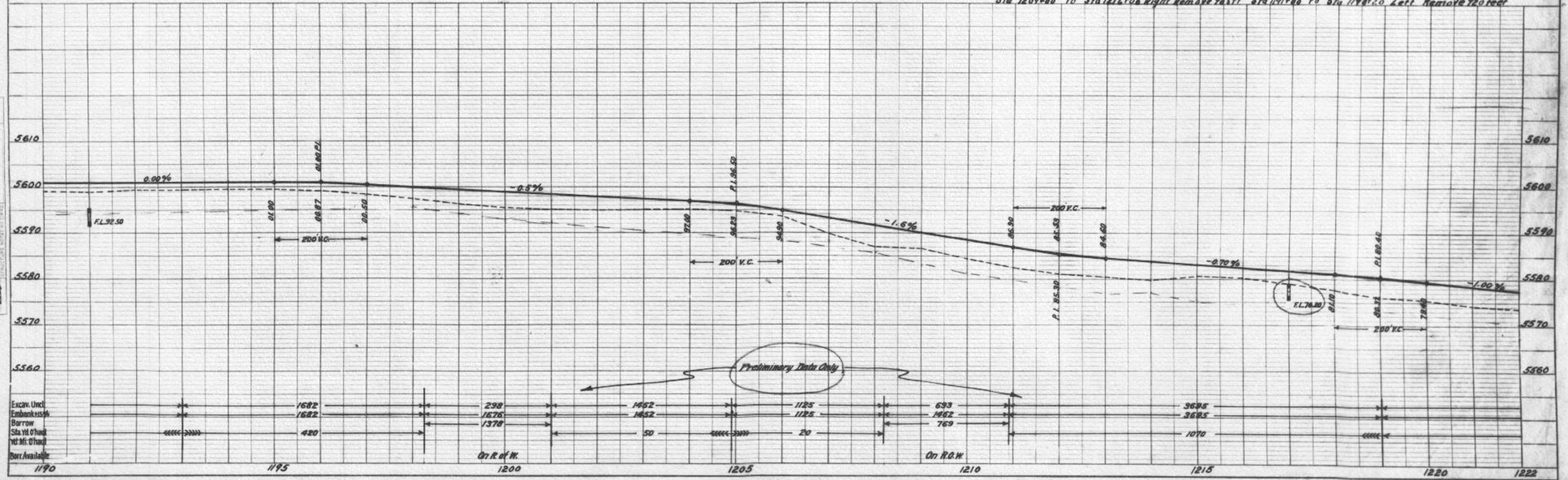
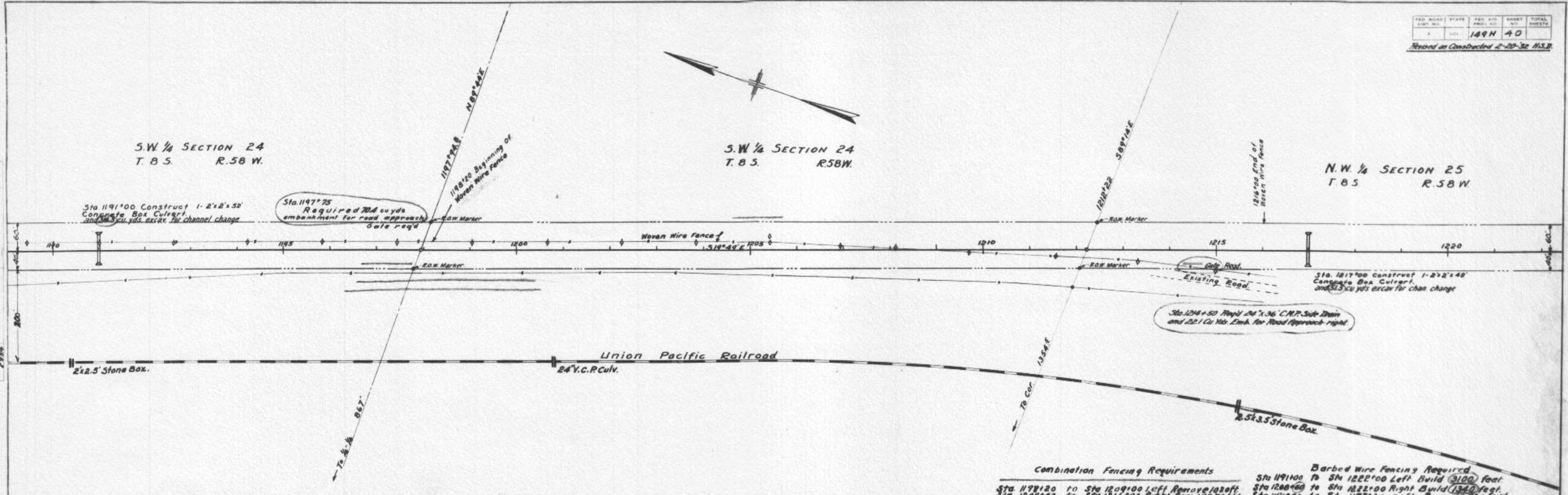
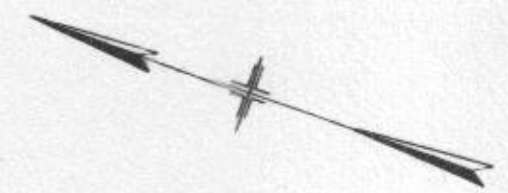
PLAN  
 2582  
 2583

PROFILE  
 2587

S.W. 1/4 SECTION 24  
T. 8 S. R. 58 W.

S.W. 1/4 SECTION 24  
T. 8 S. R. 58 W.

N.W. 1/4 SECTION 25  
T. 8 S. R. 58 W.



PLAN  
2553  
2554

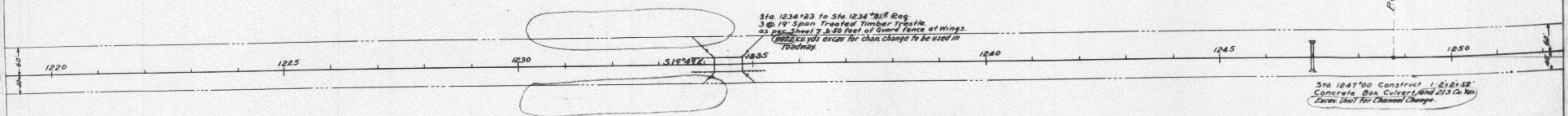
PROFILE  
DATE  
SCALE  
2558



N.W. 1/4 SECTION 25  
T.8S. R.58W.

S.E. 1/4 SECTION 25  
T.8S. R.58W.

Δ = 16°22'  
D = 1°00'L  
R = 5730'  
T = 824'  
L = 16367'

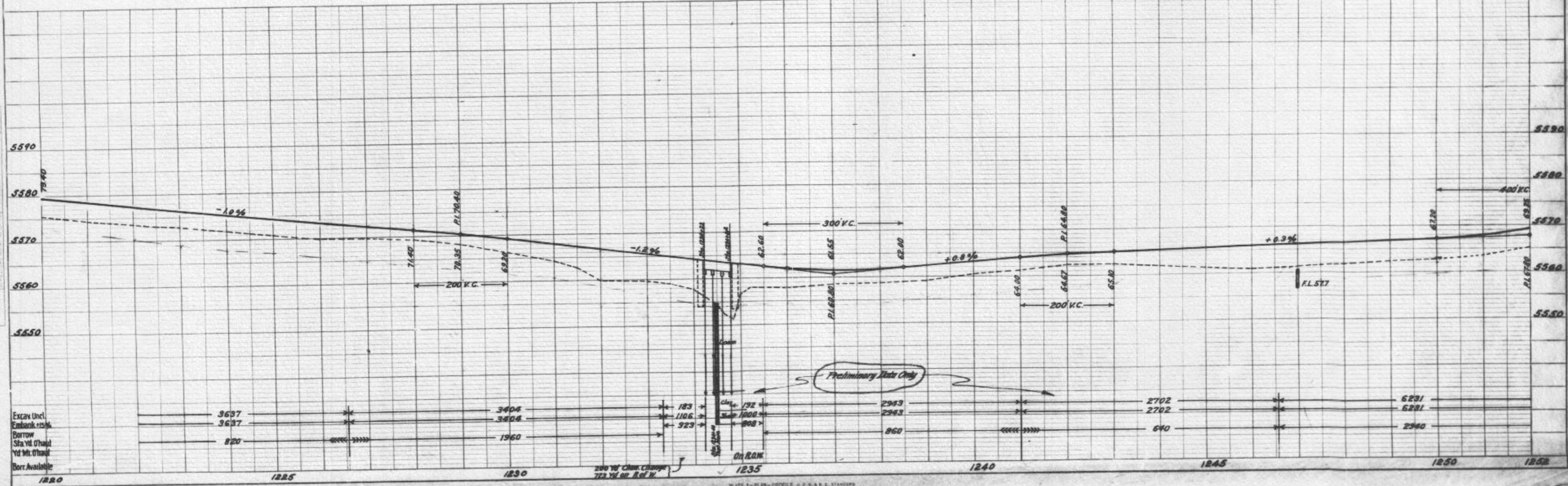


**STRUCTURE NOTES FOR BRIDGE AT STA 1234+23 TO 1234+81.5**

<p><b>PRESENT STRUCTURE</b> Span, None Clear roadway, Clear waterway, Type of Superstructure Requirements as to removal</p> <p><b>STREAM DATA</b> Drainage area in Sq. Miles, 3± Velocity during high water Elevation of: Maximum high water Low water, Dry Normal stage, Dry Drift, Light Scour, None Stream bed, 5552.4</p>	<p><b>PROPOSED STRUCTURE</b> Position referred to present structure Span, 3 @ 19' Clear roadway, 29'-0" Clear waterway, 49'0" Type of Superstructure, 6" Laminated floor, 1 1/2" Asphalt Plank Wearing surface, Tr. Timber Strgs. Type of Substructure, Tr. Timber Pile Bents (P-117-A) Defour Structure requirements, None R.R. Siding, River Bend Haul to bridge site, 3.3 Mi.</p> <p>Nearby structures on same stream: U.P.R.R. Bridge 5 spans @ Pile trestle Location, 3/4 Mi. ± Down stream Waterway Record during floods</p>
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Barbed Wire Fencing Required.  
Sta 1222+00 To Sta 1252+00 Left Build 3000 feet.  
Right 3000 "

PROFILE  
VERTICAL CURVES  
GRADES  
2958



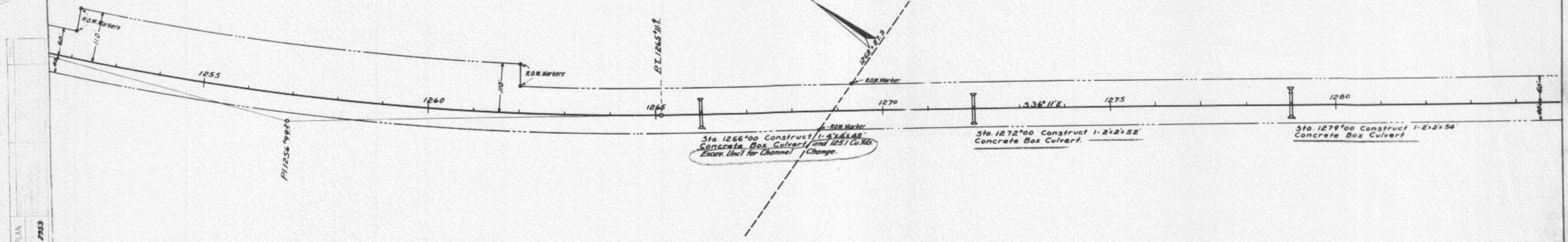
Excav Uncl.  
Embank 15.5 ft  
Borrow  
Sta. v. of haul  
Yd. M. of haul  
Borr. Available



$\Delta = 16^{\circ}22'$   
 $D = 7^{\circ}00'$   
 $R = 5730'$   
 $T = 824'$   
 $L = 1636'$

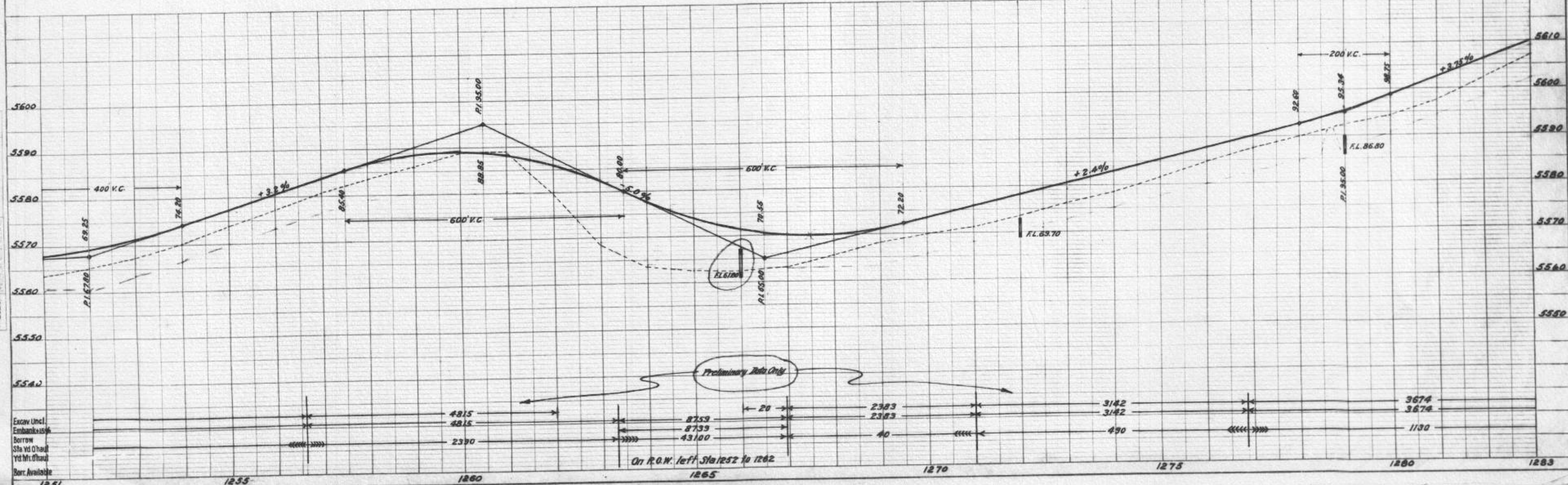
S.E. 1/4 SECTION 25  
 T.8S. R.58W

N.E. 1/4 SECTION 36  
 T.8S. R.58W



Barbed Wire Fencing Required  
 Sta 1252+00 to Sta 1282+00 Left Build 3100 feet  
 Sta 1252+00 to Sta 1282+00 Right Build 3000 feet

PROFILE  
 SHEET NO. 42  
 PROJECT 149-H



Preliminary Data Only

On R.O.W. left Sta 1252 to 1262

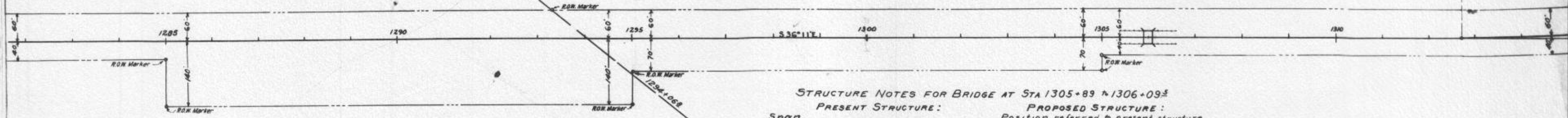


N.E. 1/4 Sec. 36  
T. 85. R. 58 W.

S.W. 1/4 Sec 31  
T. 85. R. 57 W.

Sta 1305+89 to 1306+09.2  
Reqd. Treated Timber Trestle - 1 span @ 19' -  
as per sheet No. 9  
Also required 50' Wire Cable Guard Fence from  
each end-post of bridge

Δ = 14°28'  
D = 1°30' L  
R = 36209  
T = 4843  
L = 9642



**STRUCTURE NOTES FOR BRIDGE AT STA 1305+89 to 1306+09.2**

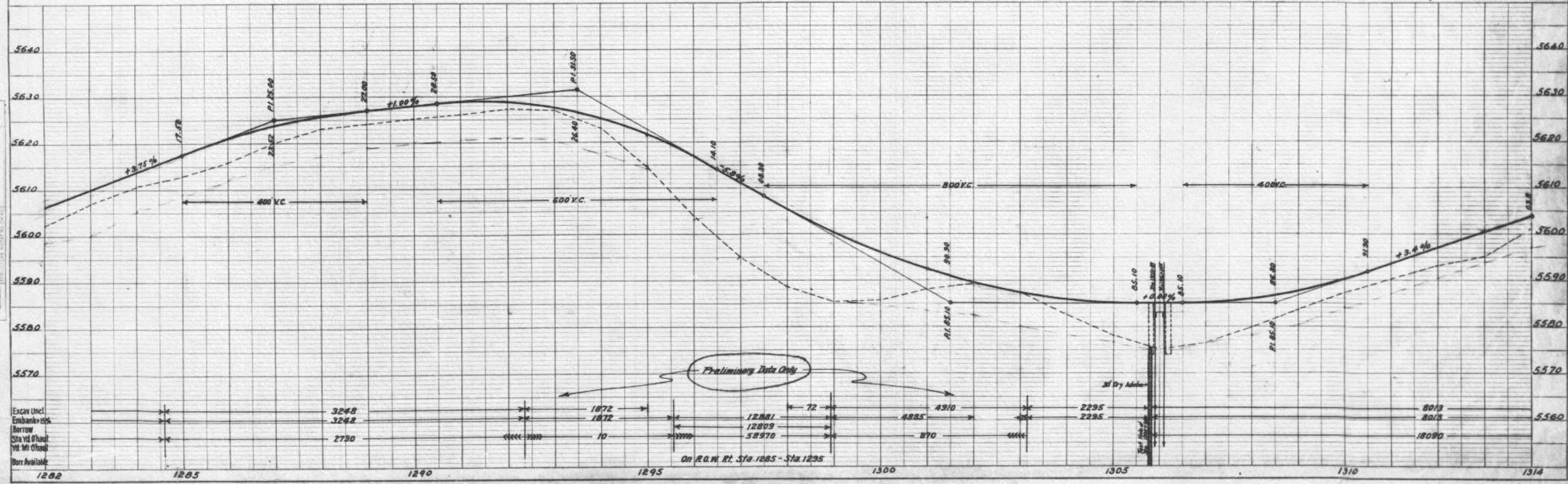
**PRESENT STRUCTURE:**  
Span  
Clear roadway  
Clear waterway  
Type of Superstructure  
Type of Substructure  
Requirements as to removal

**PROPOSED STRUCTURE:**  
Position referred to present structure  
Span 1 @ 19'  
Clear roadway, 29'  
Clear waterway, 200'  
Type of Superstructure, 6" Laminated Floor, 1 1/2" Asphalt Plank W/S  
Timber Stringers (P-117-A)  
Type of Substructure, Treated Timber Piles  
Defour Structure requirements, None  
R.R. Siding, River Bend  
Haul to bridge site, 2± M.

**STREAM DATA**  
Drainage area in Sq. Miles, 2±  
Velocity during high water  
Elevation of:  
Maximum high water  
Low water  
Normal stage  
Stream bed  
Drift  
Scour

**Nearby structures on same stream:**  
Location  
Waterway  
Record during floods

**Barbed Wire Fencing Required**  
Sta 1282 to Sta 1314 toe left build 3200 feet  
Sta 1282 toe to Sta 1314 toe right build 3400 feet



Excav Uncl.  
Embank 15%  
Borrow  
Sta Vd of haul  
Vd. Mt. Choval  
Borr Available

3248  
3248  
2730  
1872  
1872  
10  
12881  
12809  
58970  
72  
4885  
870  
2295  
2295  
8073  
8075  
18090  
5560  
5560

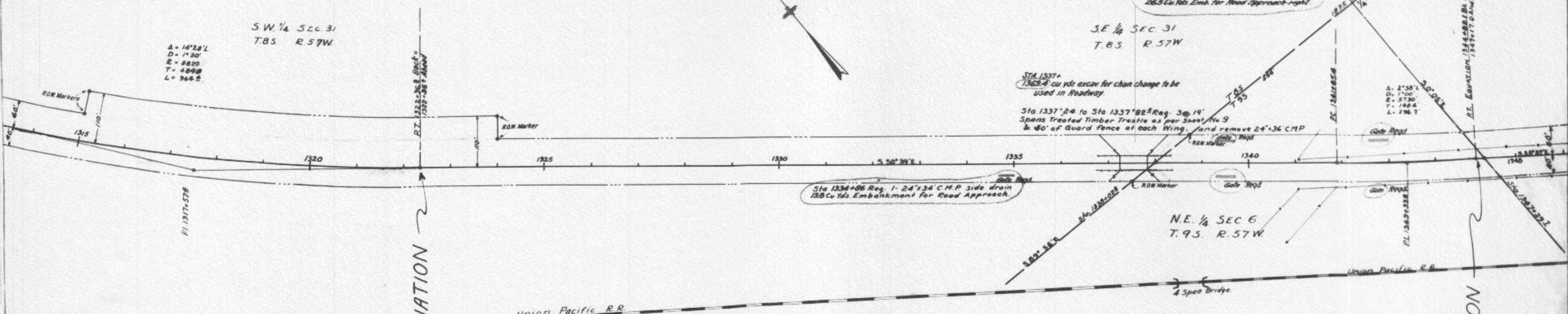
On R.O.W. Rt. Sta 1285 - Sta 1295



SW 1/4 SEC 31  
 T.8S R.57W  
 A = 14128' L  
 D = 1130'  
 E = 4880'  
 T = 4880'  
 L = 364.5

SE 1/4 SEC 31  
 T.8S R.57W

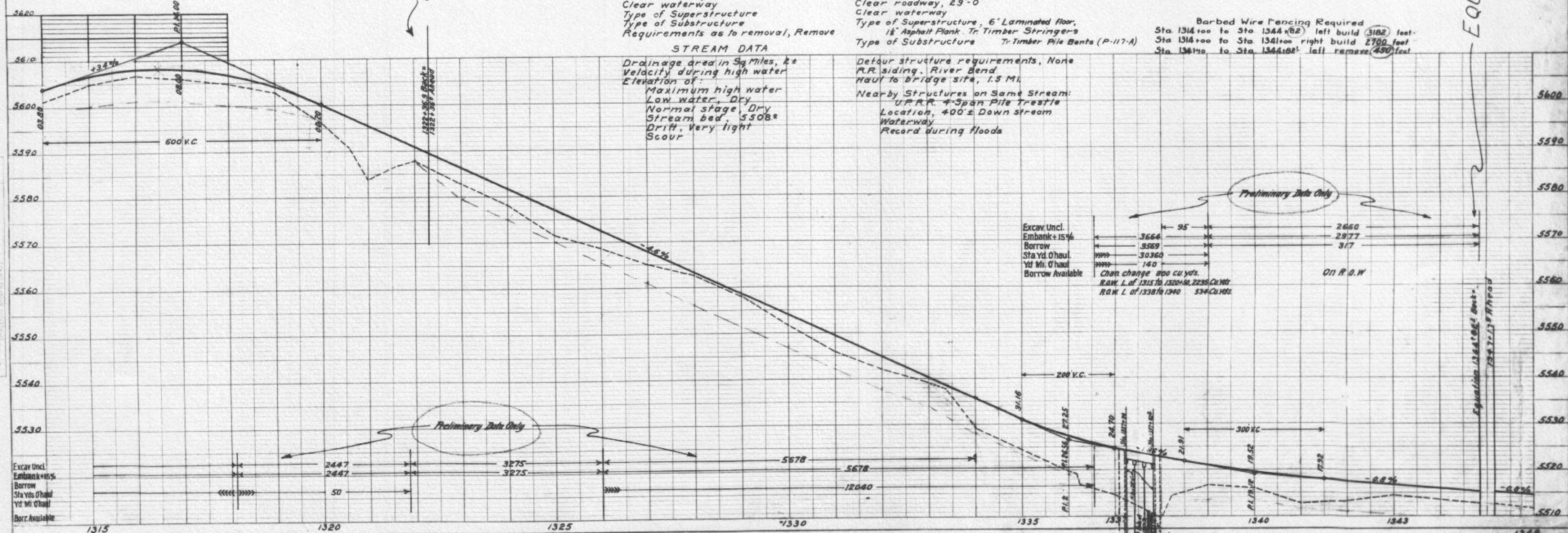
NE 1/4 SEC 6  
 T.9S R.57W



**STRUCTURE NOTES FOR BRIDGE AT STA 1337+24 +1337+82.5**  
**PRESENT STRUCTURE**  
 Span, 24'x36' C.M.P. Culvert  
 Clear roadway  
 Clear waterway  
 Type of Superstructure  
 Type of Substructure  
 Requirements as to removal, Remove  
**PROPOSED STRUCTURE**  
 Position referred to present structure, 400'± Downstream  
 Span, 3 @ 19'-0"  
 Clear roadway, 29'-0"  
 Clear waterway  
 Type of Superstructure, 6' Laminated floor,  
 1 1/2" Asphalt Plank Tr. Timber Stringers  
 Type of Substructure Tr. Timber Pile Bents (P-117-A)

**STREAM DATA**  
 Drainage area in Sq. Miles, 2.2  
 Velocity during high water  
 Elevation of:  
 Maximum high water  
 Low water, Dry  
 Normal stage, Dry  
 Stream bed, 5508.2  
 Drift, Very light  
 Scour  
 Detour structure requirements, None  
 R.R. siding, River Bend  
 Haul to bridge site, 1.5 Mi.  
 Nearby Structures on Same Stream:  
 U.P.R.R. 4-span Pile Trestle  
 Location, 400'± Down stream  
 Waterway  
 Record during floods

Barbed Wire Fencing Required  
 Sta 1314+00 to Sta 1344+62 left build 3182 feet  
 Sta 1314+00 to Sta 1341+00 right build 2700 feet  
 Sta 1341+00 to Sta 1344+62 left remove 450 feet



Excav. Uncl.	Embank + 15%	Borrow	Sta Yd. O'haul	Yd. M. O'haul	Borrow Available
3664	3569	30360	140		

Chan change 200 cu yds.  
 R.O.W. L. of 1315 to 1320+50, 2235 Cu Yds.  
 R.O.W. L. of 1338 to 1340, 534 Cu Yds.

PLAN 2553

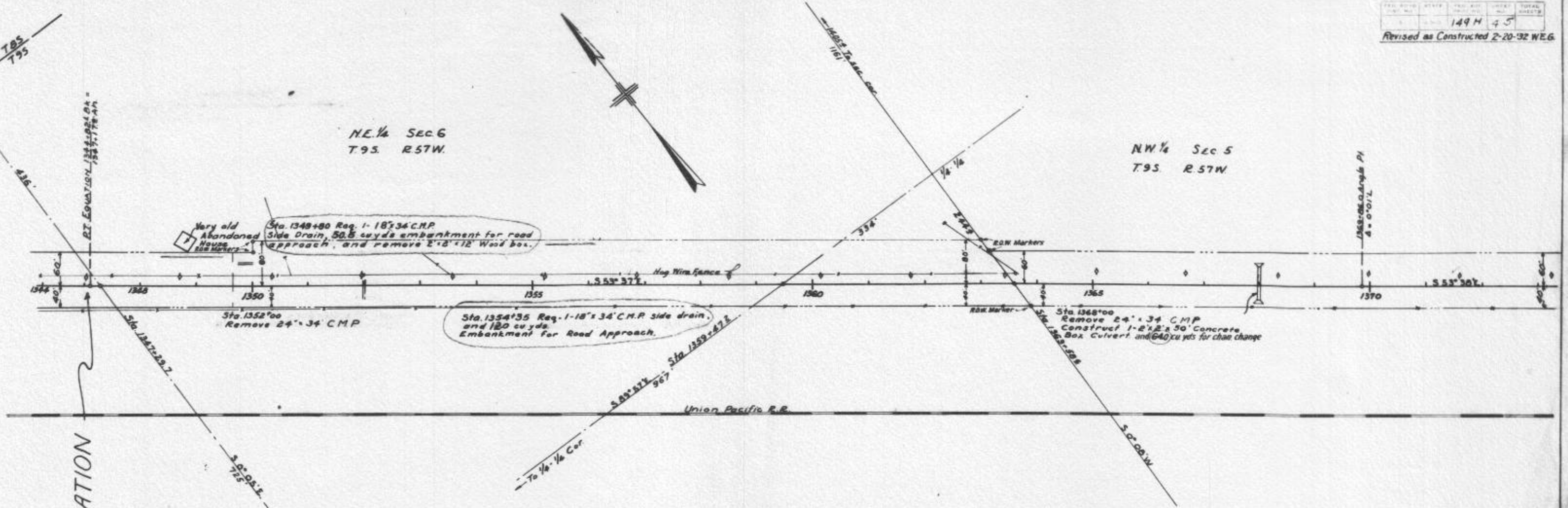
PROFILE



NE 1/4 SEC. 6  
T.9S. R.57W.

NE 1/4 SEC. 6  
T.9S. R.57W.

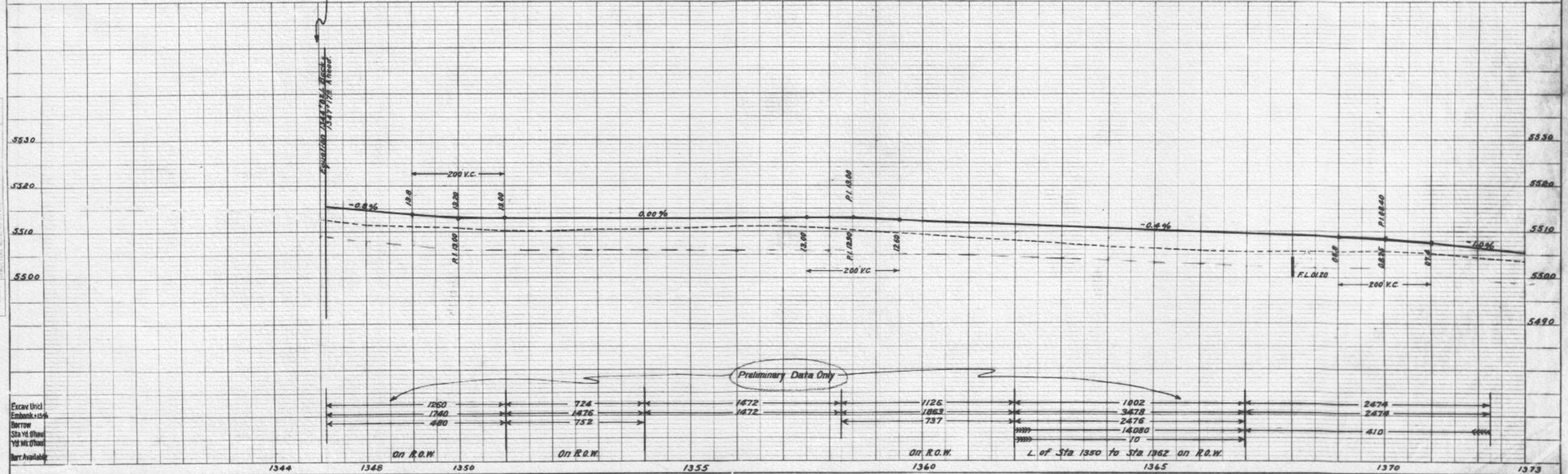
NW 1/4 SEC. 5  
T.9S. R.57W.



Combination Fencing Required  
Sta. 1350+75 to 1363+10 left build 1290 ft.  
Sta. 1350+20 to 1363+65 left remove 1350 feet.

Barbed Wire Fencing Required  
Sta. 1347+17 to Sta. 1350+75 left build 361 feet.  
Sta. 1363+65 to Sta. 1373+00 left build 965 feet.  
Sta. 1347+17 to Sta. 1373+00 left remove 316 ft.

EQUATION



Preliminary Data Only

Station	Excav (ft)	Embank (ft)	Borrow	Sta. Yd. Chaul	Yd. Haul	Barr. Available
1344						
1348	1260	724				
1350	1740	1476				
1355	480	752				
1360						
1365	1126	1863	737	1002	3478	2476
1370				2476	14080	410
1373				10		

PLAN  
2553

PROFILE  
2557



PLAN  
 SHEET NO. 2562  
 DATE

PROFILE  
 SHEET NO. 2562  
 DATE

S.W. 1/4 Sec. 5  
 T.9S R.57E



Sta. 1391+00 - Req'd Relay 24" x 30" C.P.P. Side Drain, and 18" x 32" C.M.P. Emb. for Road Approach - left.

Club Road  
 R.O.W. Markers

Sta. 1391+87 Construct 1-2' x 2' x 50' Concrete Box Culvert.

Sta. 1401+00  
 Req'd 18" x 32" C.M.P. Side drain.

Sections House Yard

Sta. 1381+27 Construct 1-2' x 2' x 50' Concrete Box Culvert, and 18" x 32" C.M.P. emb. for channel change.  
 Sta. 1381+30 Remove 24" x 34" C.M.P.

Sta. 1370+75 Remove 24" x 34" C.M.P.

1 Span Bal Deck Bridge

Union Pacific R.R.

1 Span Bridge

Barbed Wire Fencing Required  
 Sta 1373+00 to Sta 1404+00 left build 3128 feet.

