

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	278-G	1	

Rev. 9-26-36 P.B.B.

COLORADO STATE HIGHWAY DEPARTMENT PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. 278G STATE HIGHWAY NO. 8 LINCOLN COUNTY

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CONVENTIONAL SIGNS

- Center Line of Survey
- Township or Range Lines
- Section Lines
- One Quarter Section Lines
- Barbed Wire Fence
- Right of Way Lines
- Secondary Roads

SCALES

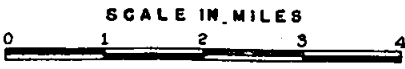
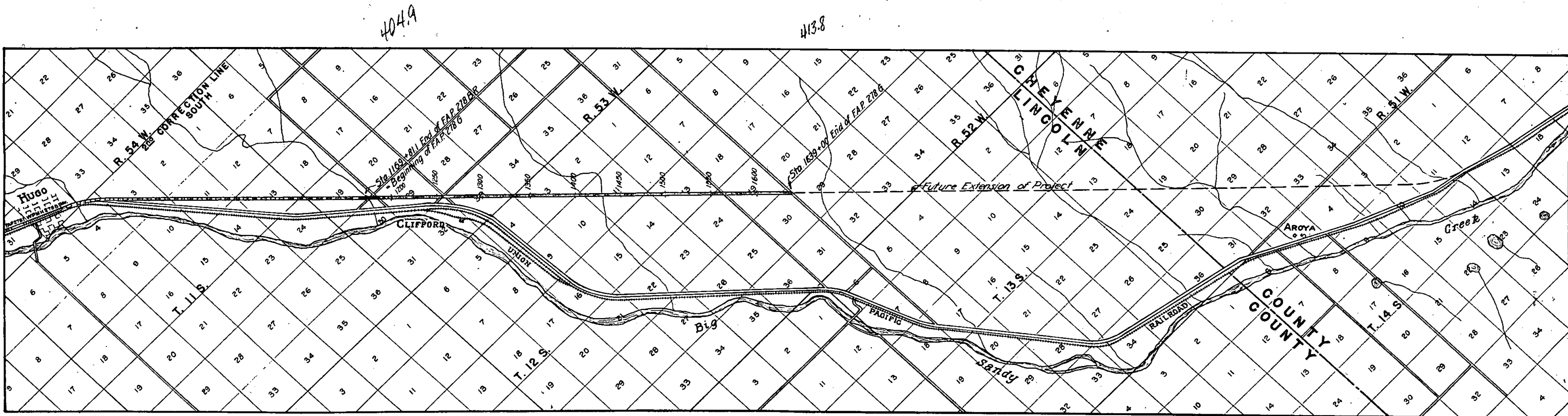
ON PLAN, 1 IN. = 100 FT.

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 46,918.9 Lin. Ft. = 8.886 Mi.

NET LENGTH OF PROJECT



Note:

It is recommended that bidders on this project go over the plans with one of the following field representative of this Department; Ernest Montgomery, Division Engineer, Colorado Springs V.H. Littlefield, Resident Engineer, Colorado Springs

RECOMMENDED FOR APPROVAL 9/13/36

J. H. Littlefield
ASSISTANT ENGINEER

APPROVED

Chas. J. Dale
STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL

DIST. ENG. BUREAU PUBLIC ROADS

RECOMMENDED FOR APPROVAL

CHIEF ENG. BUREAU PUBLIC ROADS

APPROVED

DIRECTOR BUREAU PUBLIC ROADS

TABULATION OF STRUCTURES

LOCATION	DESCRIPTION	REMOVE STRUCT. NO. KIND	EXCAV. CU. YDS. UNCL. EMB.	STRUCT. EXCAV. * CU. YDS.	CONCRET. CU. YDS. CLASS	REINF. STEEL LBS.	GRAVEL SURF. TONS	CORR. METAL PIPE LIN. FT.				MISCELLANEOUS
								18"	24"	30"	36"	
1175+44 to 1176+36.7	4 sp. @ 22'-6" Treated Timber Trestle, Channel Chg.		5000	25								Quantities in Summary
1186+00	C.M.P. Culvert 45° Skew Rt. Ditch		5								94	
1186+40	Road Approaches Lt. and Rt.		100				40					
1203+00	C.M.P. Culvert, Ditch		5	20						68		
1217+00	6'x7'x42" Concrete Box Culvert, Ditch		50	160	77.3	5063						
1235+00	6'x3'x42" Concrete Box Culvert, Ditch		50	125	44.7	3566						
1242+97	C.M.P. Culvert, Ditch		5	20						70		
1243+03	C.M.P. Culvert, Ditch		5	20						70		
1246+12	Remove Windmill Rt.	1 Windmill										Force Account
1249+90	C.M.P. Culvert 45° Skew Lt. Ditch		10	20						100		
1250+10	Road Approaches Lt. and Rt.		200				40					
1261+73	C.M.P. Side Drain Lt. Road Approaches Lt. and Rt.		200				40		30			
1265+10	6'x3'x42" Concrete Box Culvert, Ditch		50	75	44.7	3566						
1275+00	C.M.P. Culvert, Ditch		5	25						70		
1285+00	C.M.P. Culvert, Ditch		5	25						70		
1293+00 to 1294+58.1	7 sp. @ 22'-6" Treated Timber Trestle, Channel Chg.		10000									Quantities in Summary
1295+30	C.M.P. Culvert 60° Skew Lt., Ditch		5	10						110		
1305+00	C.M.P. Culvert, Ditch		10	30							76	
1313+55	C.M.P. Culvert, Ditch		10	50							76	
1324+72	C.M.P. Side Drain Lt. Road Approaches Lt. & Rt.		100				40	30				
1338+15	C.M.P. Side Drain Lt. Road Approach Lt. & Rt.		100				40	30				Quantities in Summary
1349+54 to 1350+42.5	4 sp. @ 23'-0" Treated Timber Trestle, Channel Chg.		300									
1359+54 to 1360+42.5	4 sp. @ 23'-0" Treated Timber Trestle, Channel Chg.		9									Quantities in Summary
1374+90 to 1376+06.5	5 sp. @ 23'-0" Treated Timber Trestle, Channel Chg.		9									
1400+56	Road Approaches Lt. and Rt.		100				40					
1415+45	C.M.P. Culvert, Ditch		5	15						68		
1426+00	Road Approaches Lt. and Rt.		100				20					
1444+10 to 1444+64	1 sp. 50' Concrete I Beam Bridge, - To be Constructed under Construction Division No.2 Channel Change Lt. and Rt.		10000									
1469+00	C.M.P. Culvert, Ditch		5	10						66		
1488+40	C.M.P. Side Drain Rt. Road Approaches Lt. & Rt.		300				40	30				
1493+13	10'x10'x56" Concrete Box Culvert, (Type 10-1) & Ditch		50	175	160.0	14,266						
1522+68 to 1523+32	1 sp. @ 60' Concrete I Beam Bridge, - To be Constructed under Construction Division No.2 Channel Change and Dike Rt.		2000									
1540+323 to 1540+675	1 sp. @ 32' Concrete I Beam Bridge and Channel Improvement, - To be Const. under Const. Div. No.2 Road Approaches Lt. and Rt.											
1549+25	Road Approaches Lt. and Rt.		100				40					
1551+00	6'x7'x42" Concrete Box Culvert, Ditch		25	100	71.3	5063	40					
1564+03	C.M.P. Side Drain Rt. Road App. Lt. and Rt.		100				40	30				
1610+80 to 1611+85.7	2 sp. @ 50' Concrete I Beam Bridge, - To be Constructed under Construction Div. No.2 Channel Change and Dike		500									
1620+60	C.M.P. Culvert, Ditch		5	5						74		
1626+25	10'x7'x42" C.B.C. (Type 10-1) & Ditches		275	250	101.7	9149	40	30				1 Project Marker.
1638+75	C.M.P. Side Drain Rt. Approaches Lt. and Rt.		500									
1639+00	Project Marker											
TOTAL.....			12080	1400	1160	505.7	40673	420	150	236	560	246

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

Sta. 1175+500 cu yds. at head of Channel Change for Dike.
 1500 cu yds. along County Road opposite Sta. 1186
 15000 cu yds. in Roadway Embankment as Borrow.
 Sta. 1293+7000 cu yds. in dike along east side of new channel
 13000 cu yds. in Roadway Embankment as Borrow.
 Sta. 1349+300 cu yds. in Dikes.
 3500 cu yds. in Roadway Embankment as Borrow
 Sta. 1359+4500 cu yds. in Roadway Embankment as Borrow.
 Sta. 1374+11000 cu yds. in Roadway Embankment as Borrow.
 Sta. 1444+1000 cu yds. in Dikes.
 5000 cu yds. in Roadway Embankment as Borrow
 Sta. 1522+200 cu yds. in Dikes.
 1000 cu yds. in Roadway Embankment as Borrow
 Sta. 1610+500 cu yds. in Dikes
 17000 cu yds. in Roadway Embankment as Borrow

Quantities indicated thus (P) in the Tabulation of Structures are that portion of the total quantity which are not included for payment in profile quantities.

WIRE CABLE GUARD FENCE

STATION	TO	STATION	SIDE	LENGTH
				LIN. FT.
1174+63.7		1175+26.7	Lt.	63
1174+93.7		1175+56.7	Rt.	63
1176+23.8		1176+86.8	Lt.	63
1176+53.8		1177+16.8	Rt.	63
1192+30.2		1192+83.2	Lt.	63
1192+38.8		1193+01.8	Rt.	63
1294+57.3		1295+20.3	Lt.	63
1294+65.9		1295+28.9	Rt.	63
1348+88.5		1349+51.5	Lt.	63
1348+88.5		1349+51.5	Rt.	63
1350+50		1351+13	Lt.	63
1350+50		1351+13	Rt.	63
1358+88.5		1359+51.5	Lt.	63
1358+88.5		1359+51.5	Rt.	63
1360+50		1361+13	Lt.	63
1360+50		1361+13	Rt.	63
1374+24.0		1374+87.5	Lt.	63
1374+24.5		1374+87.5	Rt.	63
1376+09		1376+72	Lt.	63
1376+09		1376+72	Rt.	63
TOTAL				1260

FENCING REQUIREMENTS

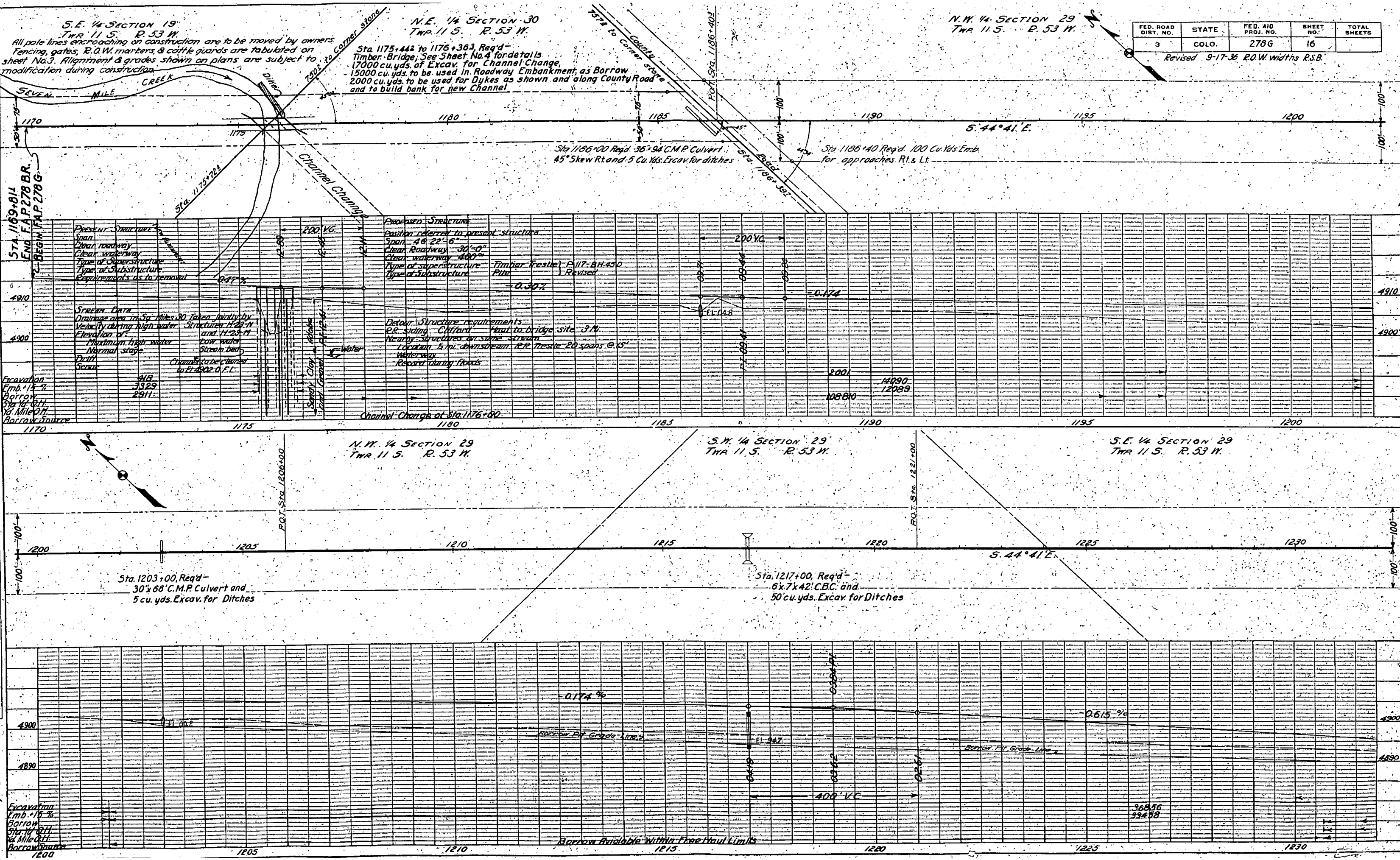
STATION	TO	STATION	SIDE	REMOVE	BUILD	B.W. GATE		10' CATTLE GD.		16' CATTLE GD.	
				LIN. FT.	LIN. FT.	Lt.	Rt.	Lt.	Rt.	Lt.	Rt.
1169+81.1		1185+00	Lt.		1519						
1169+81.1		1186+10	Rt.		1629						
1187+13			X	285							
1186+10		1251+10	Lt.		6500						
1188+20		1249+00	Rt.		6080						
1249+70			X	285							
1250+10											
1250+50			X	180							
1250+90		1300+00	Lt.		4910						
1249+10		1324+70	Rt.		7510						
1261+40			X	180							
1261+73											
1262+25			X	180							
1300+00		1325+60	Lt.		2560						
1325+15			X	145							
1325+90		1435+00	Lt.		10910						
1324+40		1435+00	Rt.		11060						
1324+72											
1337+85			X	210							
1338+15											
1382+00			X	215							
1400+56											
1401+00			X	210							
1412+25			X	215							
1426+00											
1435+00		1477+00	Rt. & Lt.		8400						
1474+05			X	145							
1477+00		1575+00	Rt. & Lt.		19600						
1488+08			X	215							
1488+40											
1548+25											
1548+60			X	210							
1563+70			X	215							
1564+00											
1564+45			X	215							
1575+00		1639+00	Rt. & Lt.		12800						
1623+15			X	140							
1638+20			X	140							
1638+75											
TOTAL				3385	93478	18	6	2			

R.O.W. MARKERS

STATION	SIDE		NUMBER
	Lt.	Rt.	
1187+15	2	2	4
1249+60	1	1	2
1250+50	1	1	2
1261+30	1	1	2
1262+15	1	1	2
1299+60	1	1	2
1325+20	1	1	2
1401+00	1	1	2
1437+30	1	1	2
1488+10	1	2	3
1548+65	1	1	2
1575+00	1	1	2
1638+20	1	1	2
1337+90	1	1	2
1362+60	1	1	2
1549+50	1	1	2
1500+00	1	1	2
TOTAL			37

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	278 G.	3	

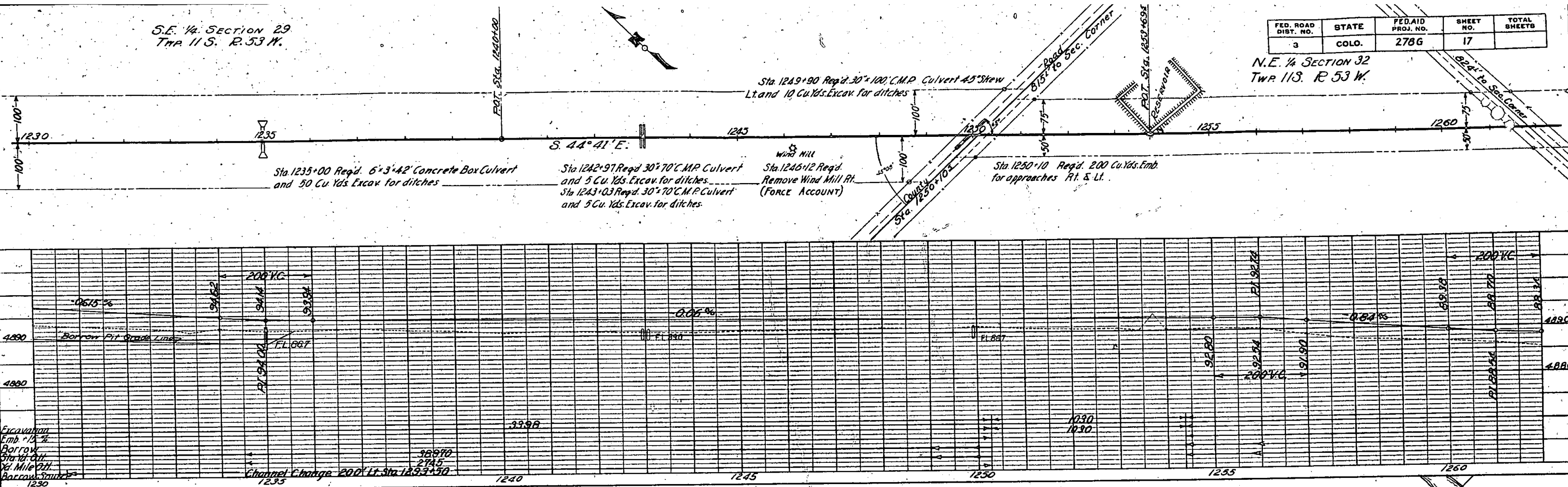
Revised 8-17-36 R.S.B.
 9-22-36 H.B.B.
 9-26-36 H.B.B.



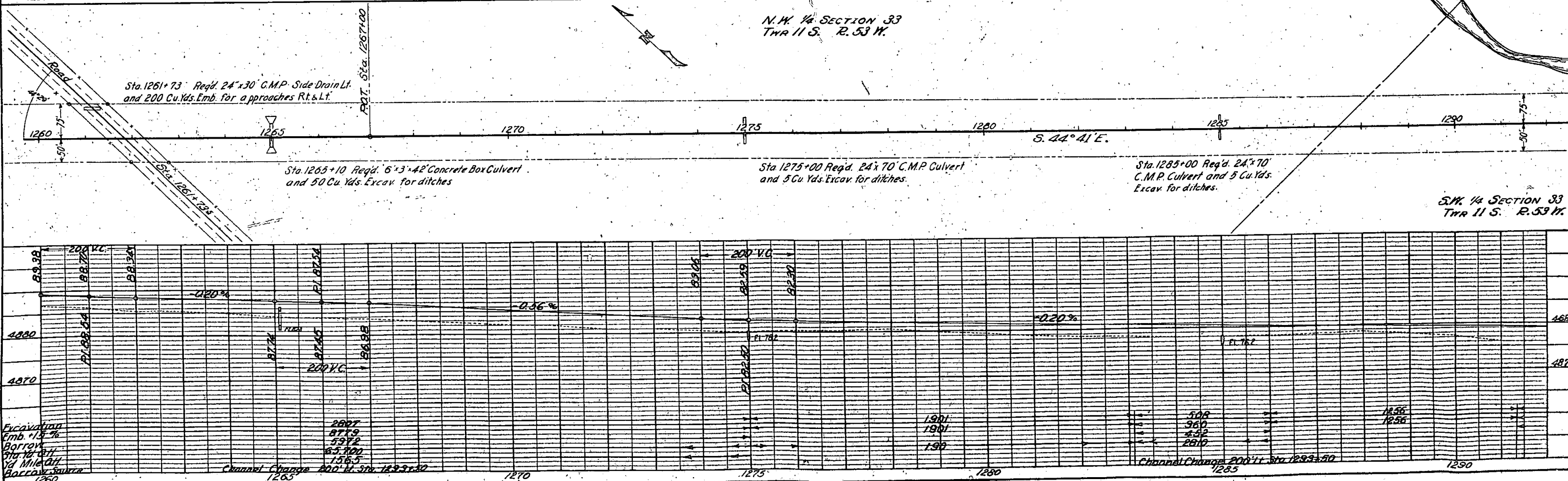
S.E. 1/4 SECTION 29
Twp 11 S. R. 53 W.

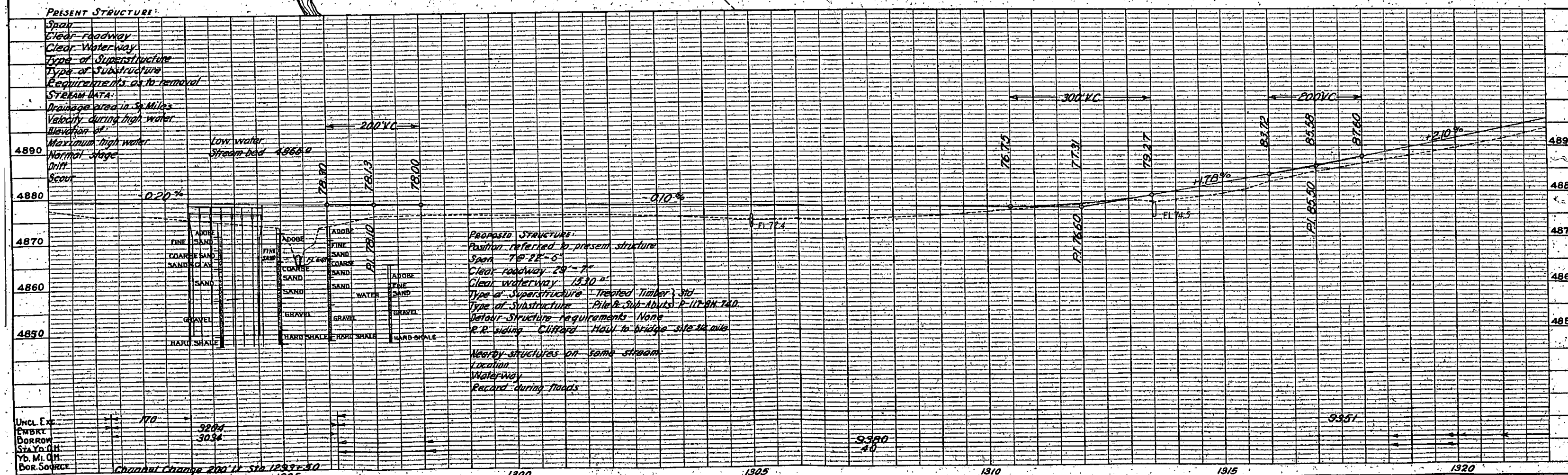
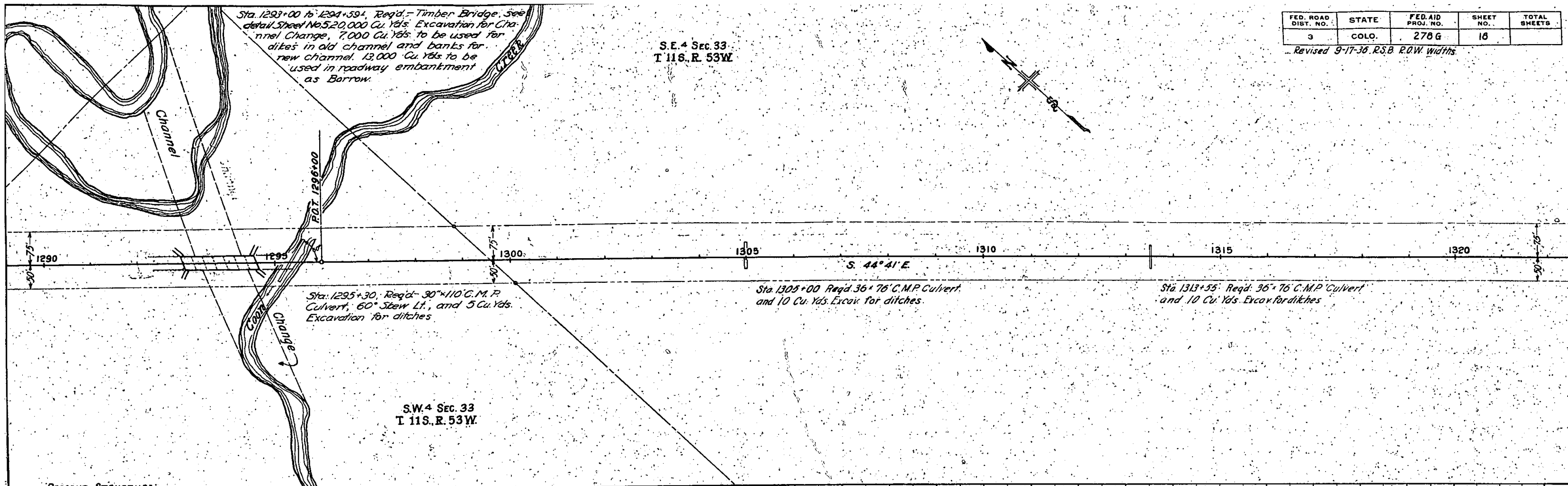
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3	COLO.	2786	17	

N.E. 1/4 SECTION 32
Twp 11 S. R. 53 W.



N.W. 1/4 SECTION 33
Twp 11 S. R. 53 W.





FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	276G	19	

Revised 9-17-36 R.S.B. ROW widths

SE 1/4 SECTION 33
TWP 11 S. R. 53 W

N.W. 1/4 SECTION 3
TWP 12 S. R. 53 W

Sta 1349+54 to 1350+475 Req'd -
Timber Bridge. See detail Sheet No. 6
and 3800 cu. yds. Excav. for Channel Change
300 cu. yds. to be used for Dyke in old
Channel, and 3500 cu. yds. in Roadway
Embankment as Borrow

Sta 1338+15, Req'd -
18'x30' C.M.P. Side Drain Lt.
100 cu. yds. Embk't for approaches Rt & Lt.

Sta. 1324+72, Req'd -
18'x30' C.M.P. Side Drain Lt. and
100 cu. yds. Embk't for approaches Rt & Lt.

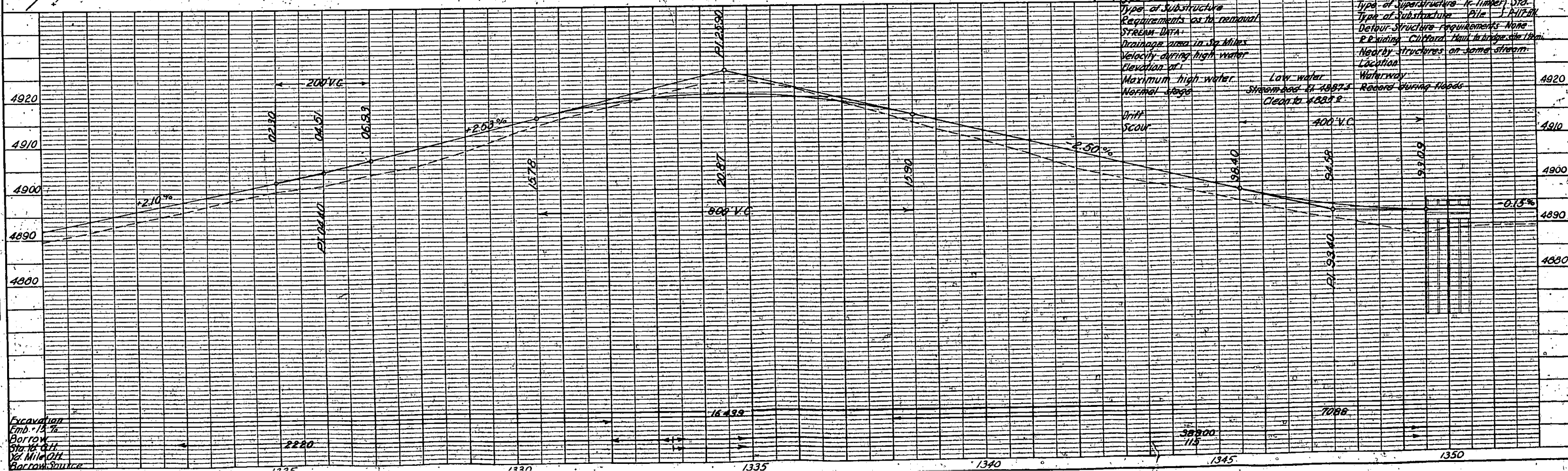
NE 1/4 SECTION 4
TWP 12 S. R. 53 W.

PRESENT STRUCTURE:

Span
Clear roadway
Clear waterway
Type of Superstructure
Type of Substructure
Requirements as to removal
STREAM DATA
Drainage area in Sq Miles
Velocity during high water
Elevation of
Maximum high water
Normal stage
Drift
Scour

PROPOSED STRUCTURE:

Position referred to present structure
Span 4 @ 23'
Clear roadway 29'-0"
Clear waterway 440'
Type of Superstructure R-Timber Steel
Type of Substructure Pile
Detour Structure Requirements None
RR siding Culverts. Haul to bridge site 18 mi.
Nearby structures on same stream
Location
Waterway
Record during floods



Excavation
Emb. 15.76
Borrow
Sta 1318+00
1/2 Mile OH
Borrow Source

RT. OF WAY CHECKED
NO. 5666
B. M. HOTEL
STRUCTURE NOTED BY CHD.

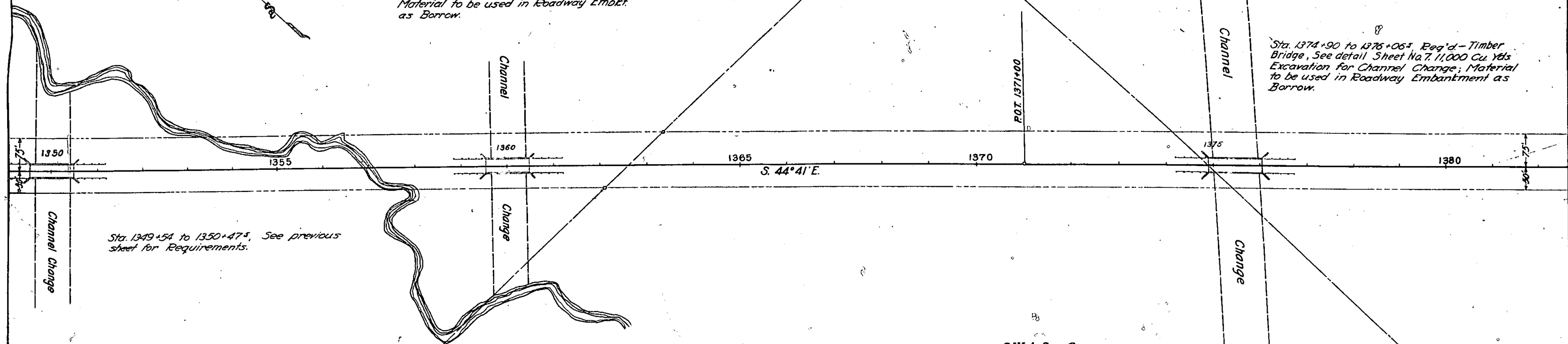
S.E. 4 SEC. 3
T. 12S., R. 53W.

FED. ROAD DIST. NO.	STATE	FED.AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	278G	20	

Revised 9/17/36 R.S.B. R.O.W. Widths.

Sta. 1359+54 to 1360+47.5. Required-Timber Bridge, See detail Sheet No. 6 4,500 Cu. Yds. Excavation for Channel Change; Material to be used in Roadway Embkt. as Borrow.

Sits 1374-90 to 1376-063, Reg'd - Timber
Bridge, See detail Sheet No. 7, 11,000 Cu. Yds
Excavation for Channel Change; Material
to be used in Roadway Embankment as
Borrow.



S.W. 4 SEC. 3
T. 12S., R. 53W.

PRESENT STRUCTURE:

PROPOSED STRUCTURE
Position referred to present structure

PRESENT STRUCTURE:

[illegible]

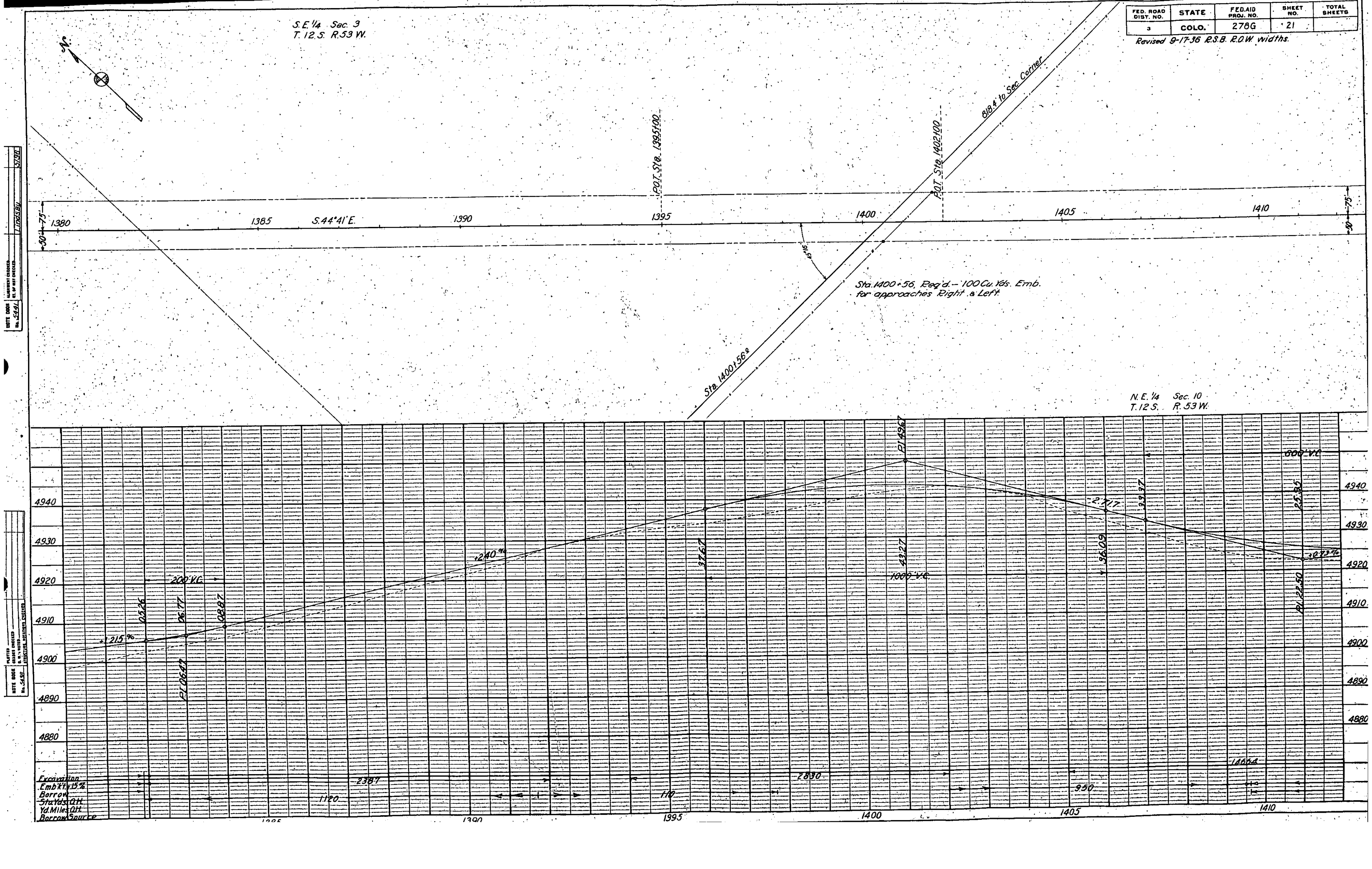
S.E. 1/4 Sec. 3
T. 12 S. R. 53 W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	276G	21	

Revised 9-17-36 R.S.B. R.O.W. widths.

ROUTE BOOK
No. 5439
COUNTY CHECKED
DATE 10/25/36

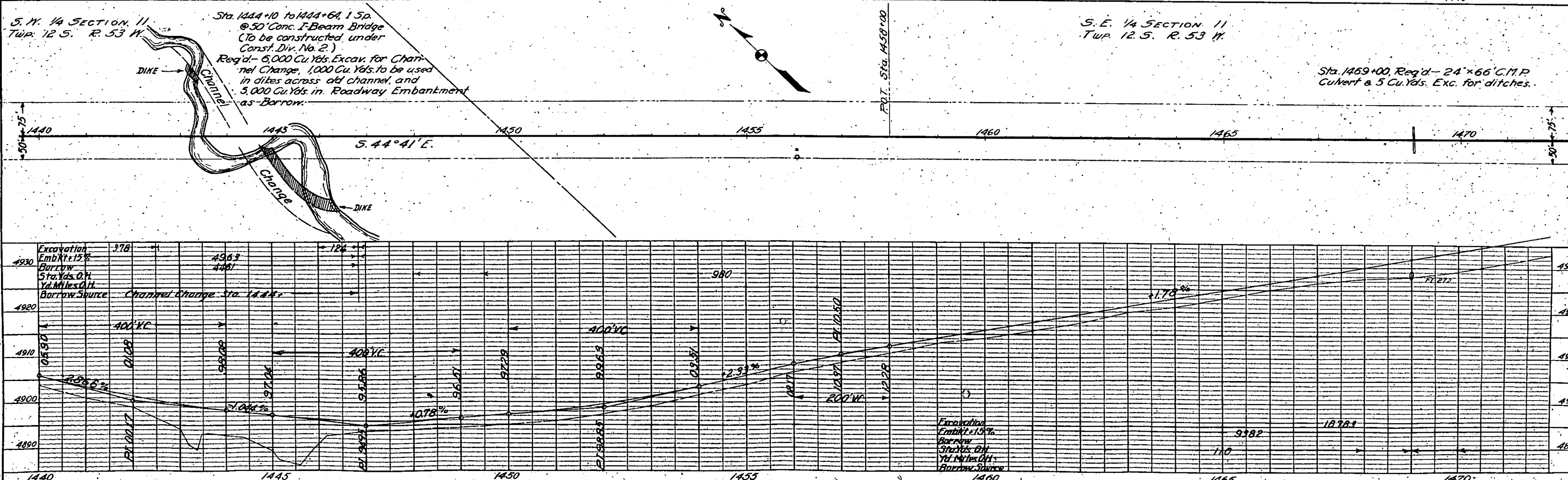
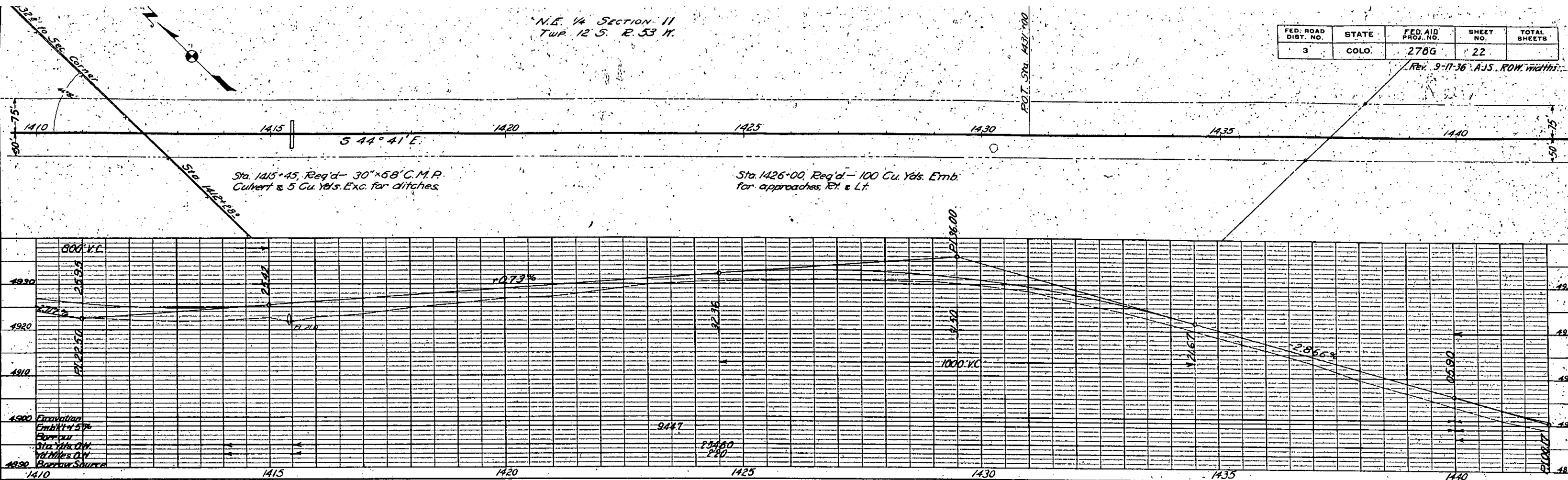
ROUTE BOOK
No. 5439
COUNTY CHECKED
DATE 10/25/36



N.E. 1/4 SECTION 11
TWP. 12 S. R. 53 W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	270G	22	

Rev. 9-17-36 A.J.S. ROW. matts.



S.E. 1/4 SECTION 11
TWP. 12 S. R. 53 W.

N.W. 1/4 SECTION 13
TWP. 12 S. R. 53 W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	278G	23	

Revised 9/17/56 S.F.C. R.O.W. width
3/24/36 A.I.S.
9-26-36 F.B.B.

Sta 1488+40. Req'd - 18"x30" C.M.P.
Side drain Rt. and 300 cu. yds. Embk't
for approaches Rt. and Lt.

Sta. 1493+13, Req'd - 10"x10"x56" C.B.C. (TYPE 10-1)
and 50 cu. yds. Exc. for ditches

N.E. 1/4 SECTION 14
TWP. 12 S. R. 53 W.

S.E. 1/4 SECTION 13
TWP. 12 S. R. 53 W.

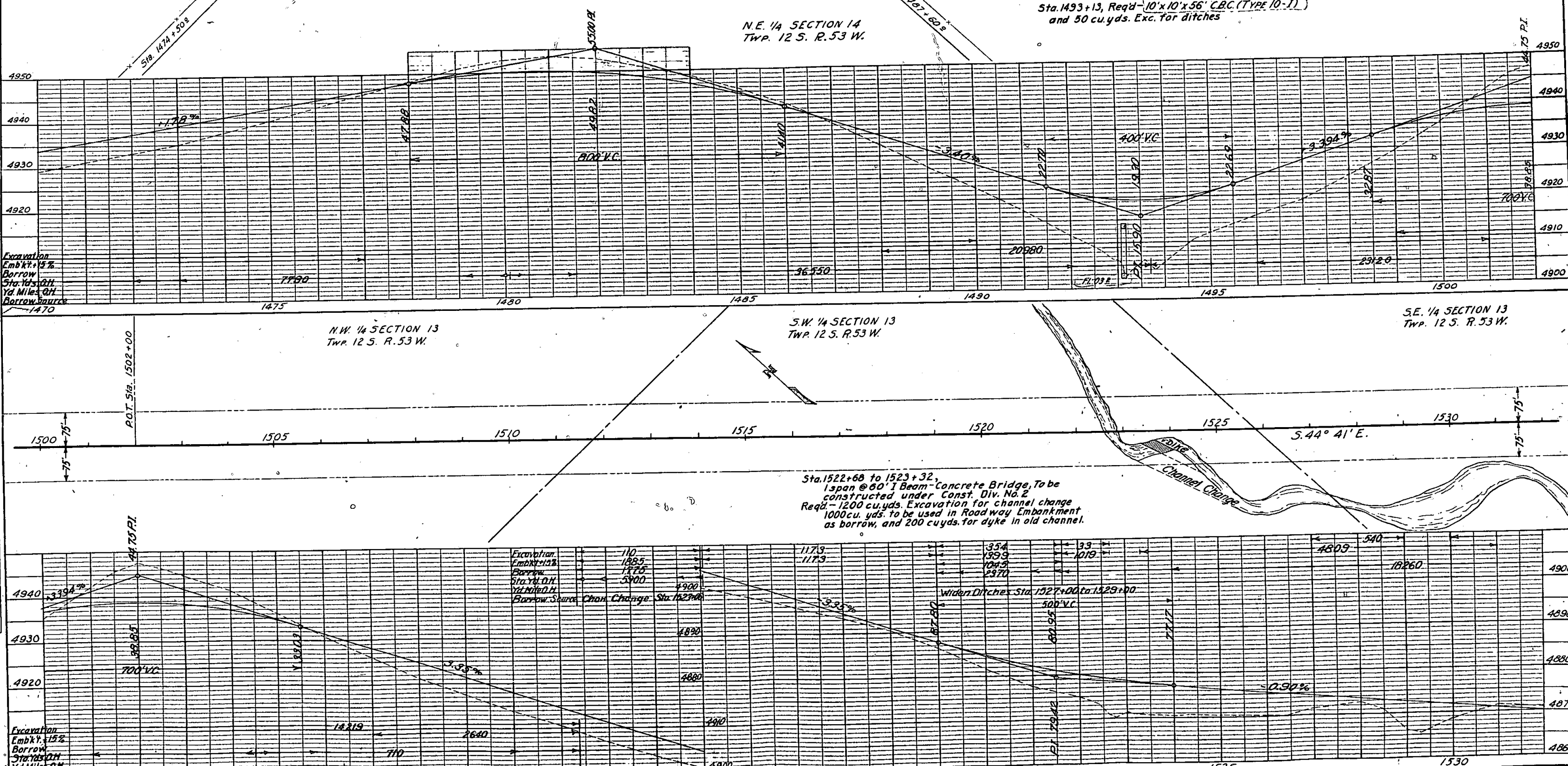
S.W. 1/4 SECTION 13
TWP. 12 S. R. 53 W.

N.W. 1/4 SECTION 13
TWP. 12 S. R. 53 W.

Sta. 1522+68 to 1523+32,
1 span @ 60' I Beam Concrete Bridge, To be
constructed under Const. Div. No. 2
Req'd - 1200 cu. yds. Excavation for channel change
1000 cu. yds. to be used in Roadway Embankment
as borrow, and 200 cu. yds. for dyke in old channel.

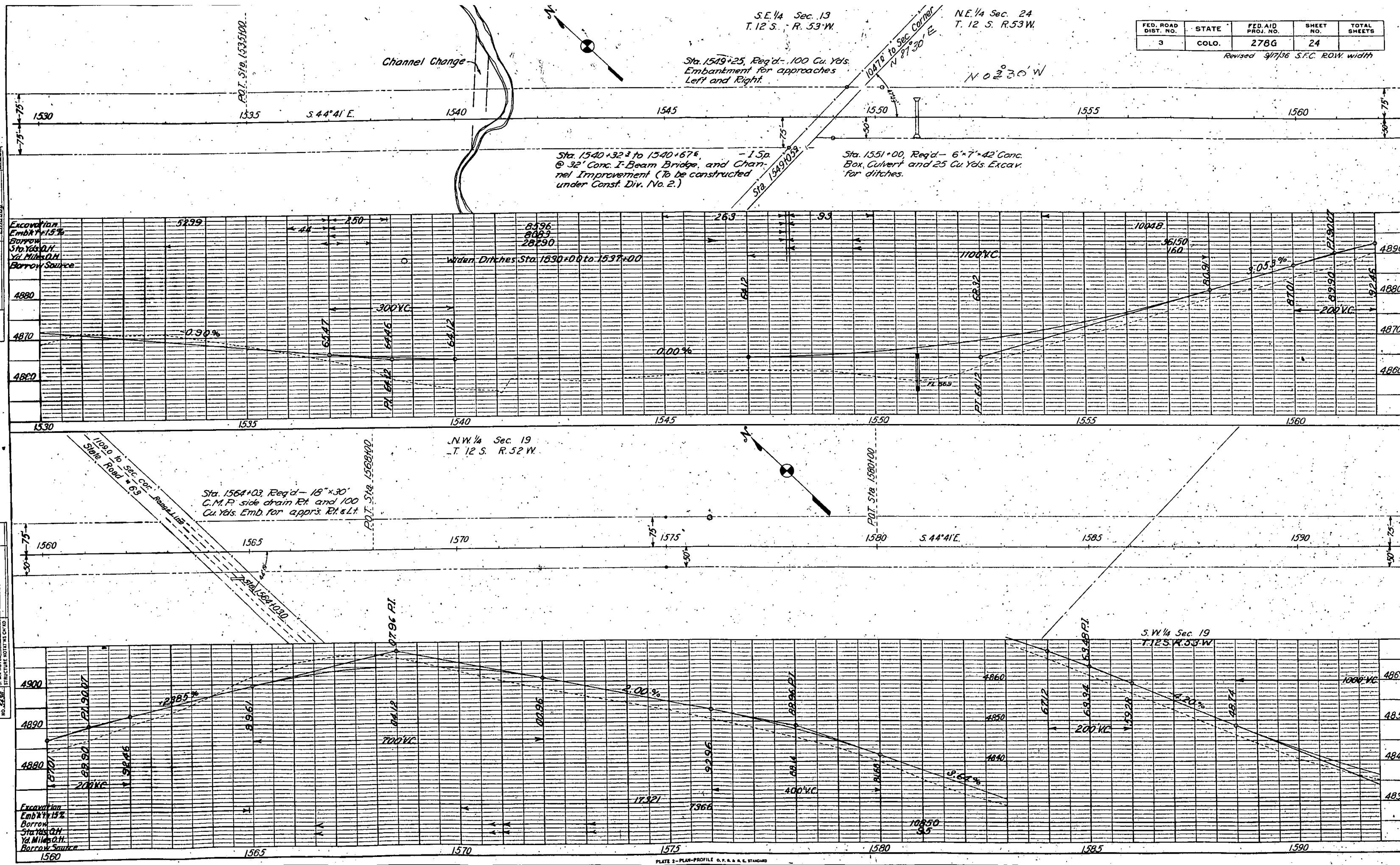
Excavation
Embk't 15%
Borrow
Sta. 1522+00
Yd. Miles 0.11
Borrow Source
Chan. Change Sta. 1522+00

Widen Ditches Sta. 1527+00 to 1529+00
500' V.C.



NO. 5441 RT. OF WAY CHECKED 1/20/50

NOTE: DOOR GRADUATES CHECKED. B. M. & M. NOTED. NO. 5459 STRUCTURE NOTATION CH'ND



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	278G	24	

Revised 9/7/36 S.F.C. ROW width

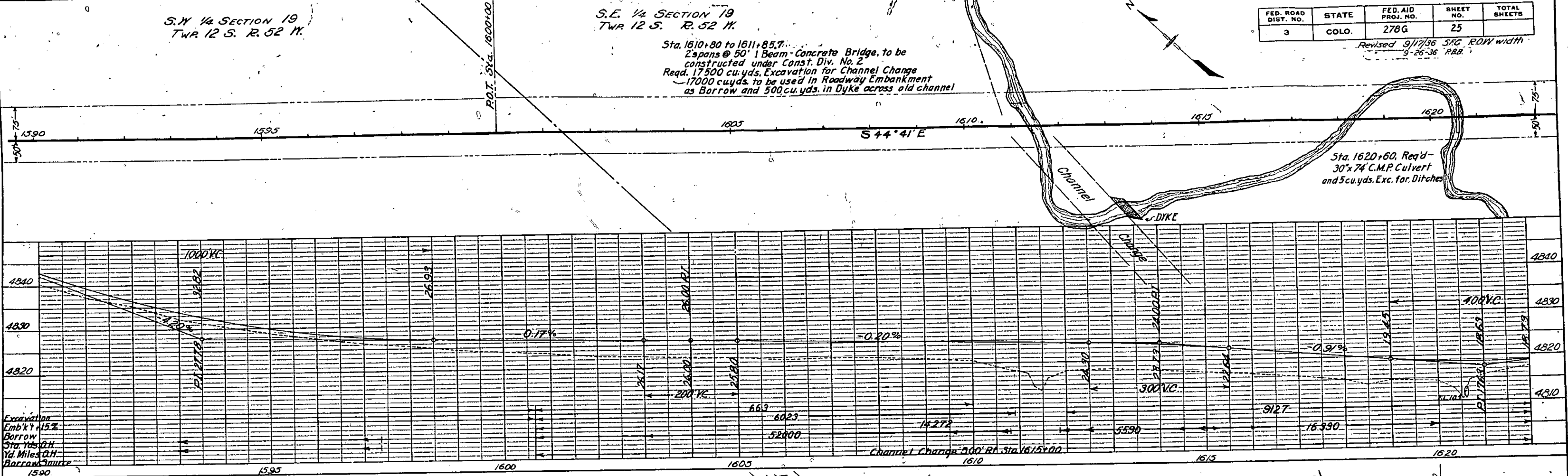
S.W. 1/4 SECTION 19
TWP. 12 S. R. 52 W.

S.E. 1/4 SECTION 19
TWP. 12 S. R. 52 W.

Sta. 1610+80 to 1611+85.7
2 spans @ 50' 1 Beam Concrete Bridge, to be
constructed under Const. Div. No. 2
Reqd. 17500 cu. yds. Excavation for Channel Change
17000 cu. yds. to be used in Roadway Embankment
as Borrow and 500 cu. yds. in Dyke across old channel

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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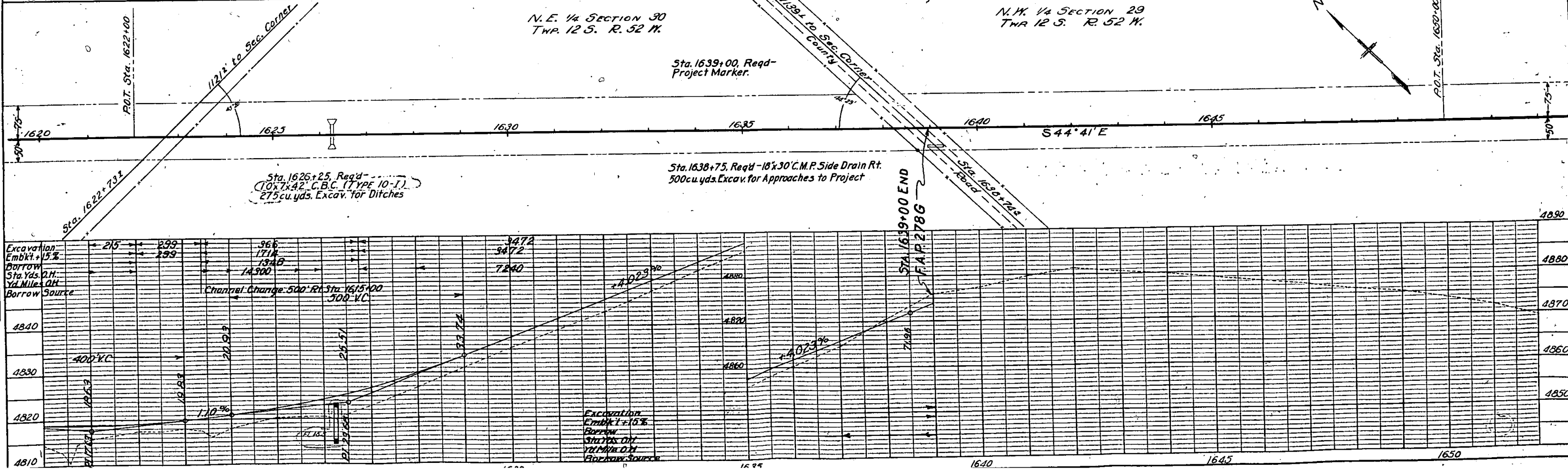
Revised 9/17/36 SFG ROW width
9-26-36 R.B.B.



N.E. 1/4 SECTION 30
TWP. 12 S. R. 52 W.

N.W. 1/4 SECTION 29
TWP. 12 S. R. 52 W.

Sta. 1639+00, Req'd-
Project Marker.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	278-G	1	

Revised to include Construction Div No. 2-1/25/37 S.F.C.

COLORADO

STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. 278G STATE HIGHWAY NO. 8 LINCOLN COUNTY

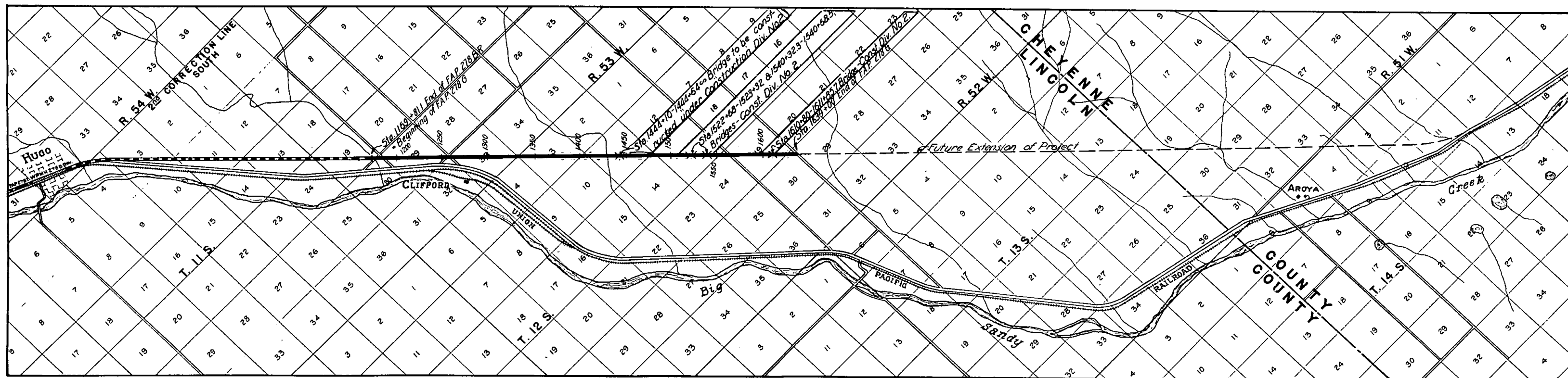
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CONVENTIONAL SIGNS

Center Line of Survey ————
Township or Range Lines ————
Section Lines ————
One Quarter Section Lines ————
Barbed Wire Fence ————
Right of Way Lines ————
Secondary Roads ————

SCALES
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 } 46,919.9 Lin. Ft. = 8.886 Mi.
NET LENGTH OF PROJECT }



INDEX OF SHEETS

Sheet No. 1.	Title Sheet
2.	Typical Section & Summary of Quantities
3.	Tabulation of Structures, Fence, & Markers
4a, 4b, 4c, & 4d.	Details of Bridge, Sta. 1444+
5a, 5b, 5c, 5d, & 5e.	" " " Sta. 1522+
6a, 6b, & 6c.	" " " Sta. 1540+
7a, 7b, & 7c.	" " " Sta. 1610+
8a.	Standard Wire Cable Guard Fence M-20-A.
9a.	" " " Structure Number Lettering M-10-A.
10a.	Typical Traffic Signs & Approach Roads M-2-B.
22, 23, 24, 25.	Plan & Profile.

SCALE IN MILES
0 1 2 3 4

Note:
It is recommended that bidders on this project go over the plans with one of the following field representative of this Department; Ernest Montgomery, Division Engineer, Colorado Springs. V.H. Littlefield, Resident Engineer, Colorado Springs

RECOMMENDED FOR APPROVAL 9/3/36

APPROVED
Chas. J. Vail
STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL

DIST. ENG. BUREAU PUBLIC ROADS

RECOMMENDED FOR APPROVAL

CHIEF ENG. BUREAU PUBLIC ROADS

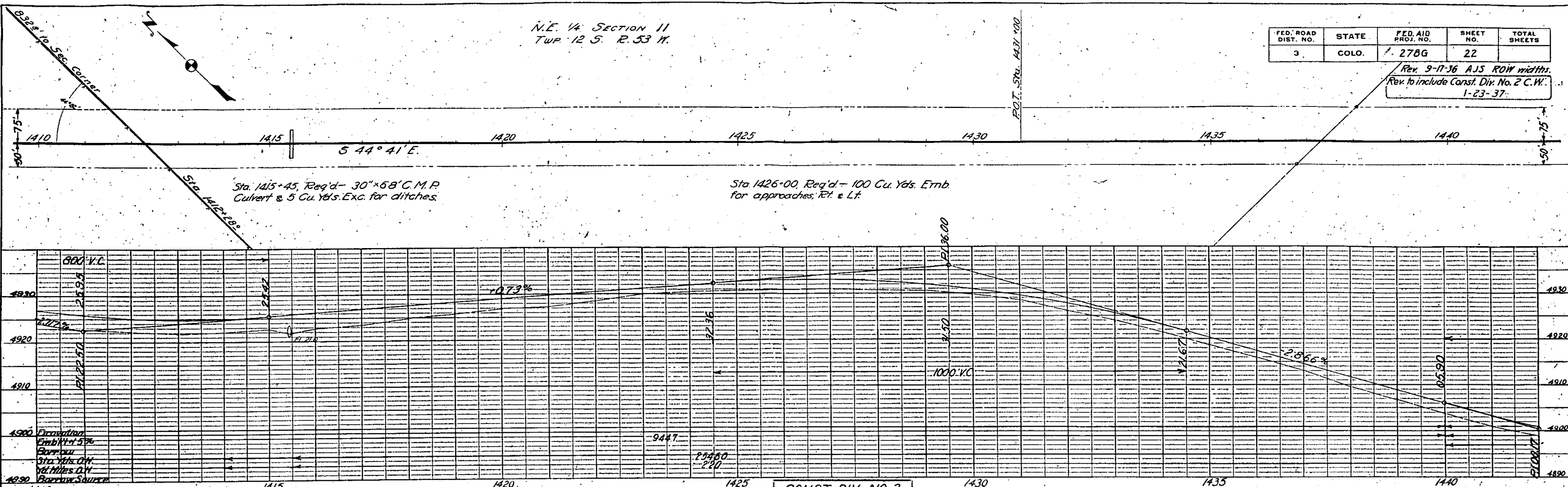
APPROVED

DIRECTOR BUREAU PUBLIC ROADS

N.E. 1/4 SECTION 11
TWP. 12 S. R. 53 W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	278G	22	

Rev. 9-17-36 AJS ROW widths.
Rev. to include Const. Div. No. 2 C.W.
1-23-37.



S.W. 1/4 SECTION 11
Twp. 12 S. R. 53 W.
CONST. DIV. NO. 2
Sta. 1443+35.8 - 1443+98.8
Req'd - 63 lin. ft. Wire Cable DIKE
Guard Fence Lt.

CONST. DIV. NO. 2
Sta. 1444+10 to 1444+64.1 Sp.
@ 50' Conc. I-Beam Bridge
(as per detail on Sheets No. 4a, 4b, 4c, & 4d.)
Req'd - 6,000 Cu. Yds. Excav. for Channel Change, 1,000 Cu. Yds. to be used in dikes across old channel, and 5,000 Cu. Yds. in Roadway Embankment as Borrow.

STRUCTURE NOTES FOR STA. 1444+10 to 1444+64.04
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 @ 50'
Clear roadway 30'-0"
Clear waterway 300"
Type of Superstructure I-Beam Concrete
Type of Substructure Closed Cantilever Abuts

S.E. 1/4 SECTION 11
TWP. 12 S. R. 53 W.

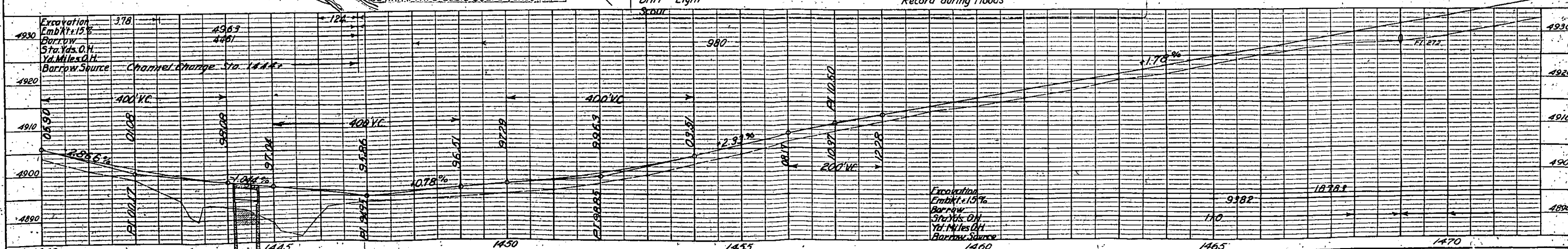
Sta. 1459+00, Req'd - 24'x66' C.M.P.
Culvert @ 5 Cu. Yds. Exc. for ditches.

CONST. DIV. NO. 2
Sta. 1443+53.2 - 1444+16.2 Req'd - 63 lin. ft. Wire Cable Guard Fence Rt.

CONST. DIV. NO. 2
Sta. 1444+57.8 - 1445+20.8, Req'd - 63 Lin. ft. Wire Cable Guard Fence Lt.
Sta. 1444+75.2 - 1445+38.2, Req'd - 63 lin. ft. Wire Cable Guard Fence Rt.

STREAM DATA:
Drainage area in sq. Miles 30
Velocity during high water
ELEVATION of
Maximum highwater Low water
Normal stage stream bed 4988.5
Drift Light

DETOUR STRUCTURE REQUIREMENTS None
R.R. siding Clifford Haul to bridge site 3 1/2 Mi.
NEARBY STRUCTURES ON SAME STREAM
Location 3 Mi ± downstream
Waterway
Record during floods



S.E. 1/4 SECTION 11
TWP. 12 S. R. 53 W.

N.W. 1/4 SECTION 13
TWP. 12 S. R. 53 W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	278G	23	

Revised 9/17/56 S.F.C. ROW width
9/24/36 A.I.S.
9-26-36 P.B.B.
Revised to include Const. Div. No. 2 - R.C.K. 1/23/37.

Sta 1488+40, Req'd - 18"x30" C.M.P.
Side drain Rt. and 300 cu. yds. Embk't
for approaches Rt. and Lt.

Sta. 1493+13, Req'd - 10'x10'x56" C.B.C. (TYPE 10-1)
and 50 cu. yds. Exc. for ditches

N.E. 1/4 SECTION 14
TWP. 12 S. R. 53 W.

N.W. 1/4 SECTION 13
TWP. 12 S. R. 53 W.

S.W. 1/4 SECTION 13
TWP. 12 S. R. 53 W.

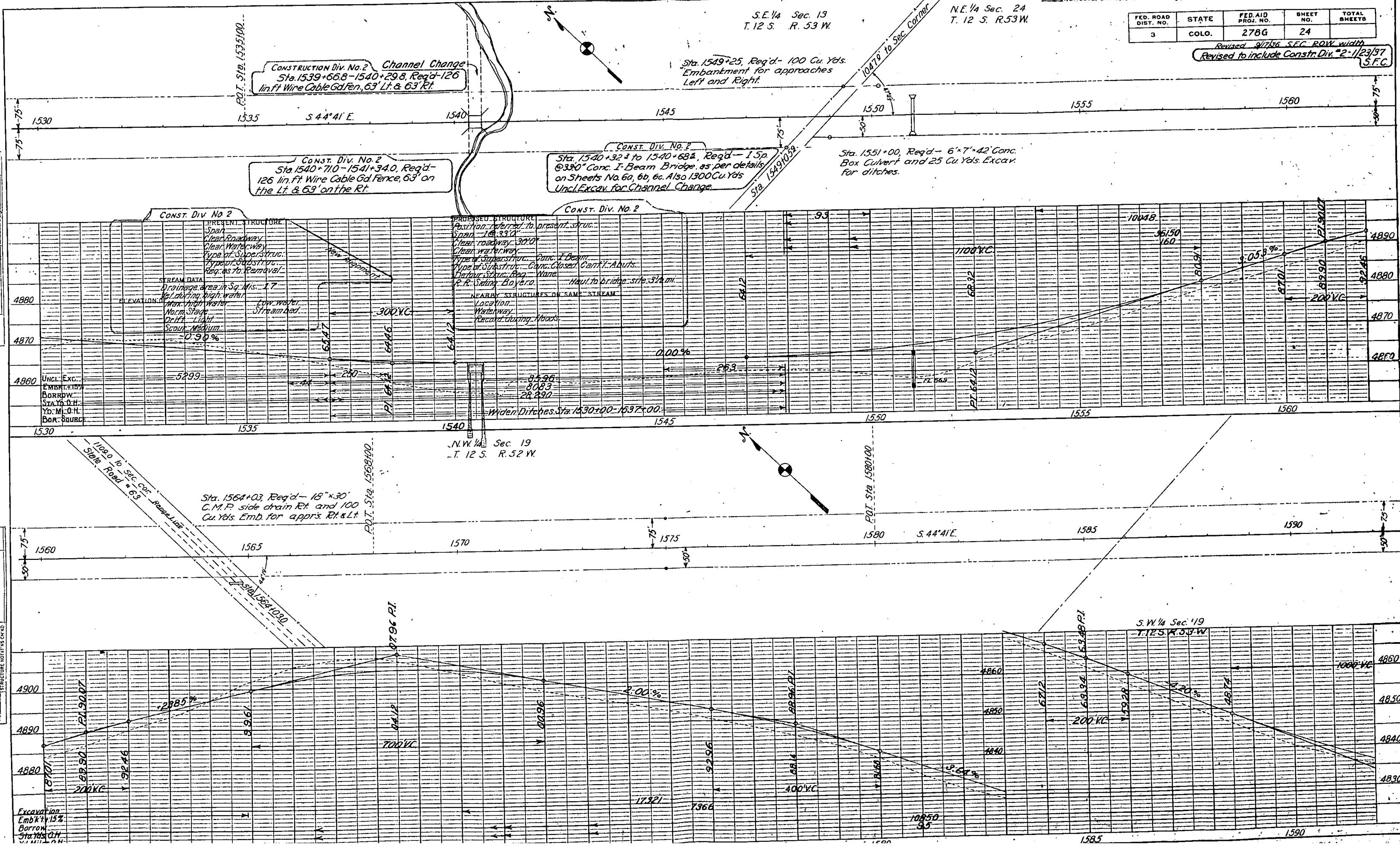
CONSTRUCTION DIV. No. 2.
Sta. 1521+93.8 to 1522+56.8, Req'd -
63 Lin. Ft. Wire Cable Guard Fence Lt.
Sta. 1522+11.2 to 1522+74.2, Req'd -
63 Lin. Ft. Wire Cable Guard Fence Rt.

CONSTRUCTION DIV. No. 2.
Sta. 1523+43.2 to 1524+06.2, Req'd -
63 Lin. Ft. Wire Cable Guard Fence Rt.
Sta. 1523+26.8 to 1523+89.8, Req'd -
63 Lin. Ft. Wire Cable Guard Fence Lt.

S.E. 1/4 SECTION 13
TWP. 12 S. R. 53 W.

CONSTRUCTION DIV. No. 2.
Sta. 1522+68 to 1523+32.04, Req'd -
Span @ 60' I Beam Concrete Bridge,
As per details on Sheets No. 5a, 5b, 5c, 5d & 5e.
Req'd - 1200 cu. yds. Excavation for channel change
1000 cu. yds. to be used in Roadway Embankment
as borrow, and 200 cu. yds. for dyke in old channel.

Proposed Structure
Position referred to present structure
Span 1 @ 60 ft. 0 in.
Clear roadway 30'-0"
Clear waterway 365'
Type of Superstructure Conc. T-Beam
Type of Substructure Cant. Closed Abutts
Detour Structure requirements None
RR siding Bayers Haul to bridge site 4 mi.



S.W. 1/4 SECTION 19
TWP. 12 S. R. 52 W.

S.E. 1/4 SECTION 19
TWP. 12 S. R. 52 W.

CONSTRUCTION DIV. No. 2
Sta. 1610+80 to 1611+83.3, Req'd.-
2 spans @ 50' I Beam Concrete Bridge, as per
details on Sheets No. 7a, 7b and 7c.
Req'd. 17500 cu. yds. Excavation for Channel Change
17000 cu. yds. to be used in Roadway Embankment
as Borrow and 500 cu. yds. in Dyke across old channel

CONSTRUCTION DIV. No. 2
Sta. 1610+05.8 to 1610+68.8,
Req'd.-63 Lin. Ft. Wire Cable Guard
Fence Lt.

Sta. 1610+23.2 to 1610+86.2, Req'd.-
63 Lin. Ft. Wire Cable Guard Fence Rt.
Sta. 1611+77.1 to 1612+40.1, Req'd.-
63 Lin. Ft. Wire Cable Guard Fence Lt.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	278G	25	

Revised 9/17/36 SFC ROW width
9-26-36 P.B.R.
(Revised to include Const. Div. No. 2 - 1/23/37 - R.C.K.)

PRESENT STRUCTURE
Span
Clear roadway
Clear water way
Type of Superstructure
Type of Substructure

New Alignment

CONSTRUCTION DIV. No. 2

STRUCTURE NOTES FOR BRIDGE STA. 1610+80 TO 1611+83.30

PROPOSED STRUCTURE

Position referred to present structure
Span 2 @ 50'-0"
Clear roadway 30'-0"
Clear water way 579'
Type of Superstructure Concrete I-Beam

Requirements as to removal
STREAM DATA:
Drainage area in Sq. Miles 7.5
Velocity during high water
Elevation of
Maximum high water
Normal stage
Drift Light
Scour Medium

Low water
Stream bed 481.40

Type of Substructure (Cons. closed Cantilever
Abutts. Cons. Gravity Pier
Detour Structure requirements None
R-R Siding Bayed Haul to bridge site 3.3 mi.
NEARBY STRUCTURES ON SAME STREAM
Location
Water way
Record during floods

CONSTRUCTION DIV. No. 2

Sta. 1611+94.5 to 1612+57.5, Req'd.-
63 Lin. Ft. Wire Cable Guard Fence Rt.

Sta. 1620+60, Req'd.-
30"x74" C.M.P. Culvert
and 5 cu. yds. Exc. for Ditches

