

S.H. 119 in Boulder Canyon
at Various Locations

STATE DEPARTMENT OF HIGHWAYS DIVISION OF HIGHWAYS—STATE OF COLORADO

PLAN AND PROFILE OF ~~PROPOSED~~ FEDERAL AID PROJECT NO. HHS 0004 (I) STATE HIGHWAY NO. 119 BOULDER COUNTY

FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NO.
VIII	COLORADO	HHS 0004 (I)	1

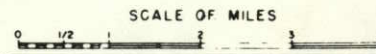
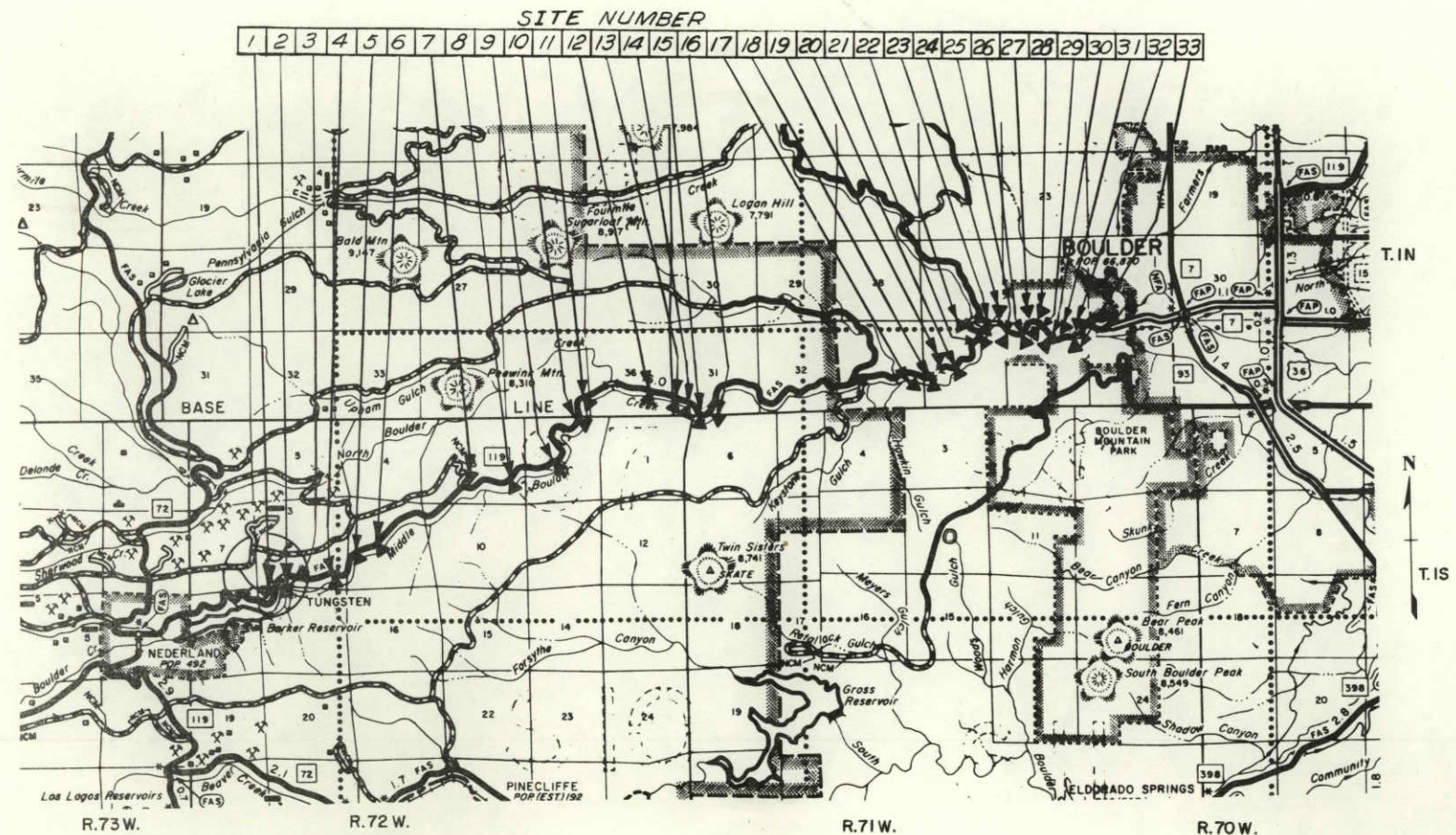
AS CONSTRUCTED			
NO REVISIONS	☐	REVISED 9-30-76	VOID ☐

SCALES OF ORIGINAL DRAWINGS
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

- INDEX OF SHEETS
- 1 TITLE SHEET AND SKETCH MAP
 - 2 SUMMARY OF APPROXIMATE QUANTITIES
 - 3 TABULATION OF GUARD RAIL, GENERAL NOTES AND DETAIL OF GUARD RAIL TYPE 3 SPECIAL
 - 4 - 7 GUARD RAIL TYPE 3, STANDARD M-606-AB (REVISED)
 - 8 - 35 PLAN AND PROFILE SHEETS

"M" STANDARDS
M-614-TB TRAFFIC SIGNING FOR HIGHWAY CONSTRUCTION (3 SHEETS) 11-22-71

AS CONSTRUCTED PLANS
RETURN TO DIST. 4 DESIGN



T.A.L.



DIVISION OF HIGHWAYS

APPROVED: *E.M. Kase* 2/3/76
CHIEF ENGINEER DATE

AS CONSTRUCTED INFORMATION

CONTRACTOR *Anderson Contracting, Inc.*
Resident ENGINEER *John B. Herrera*
(Project or Resident)

PROJECT STARTED *April 5, 1976*
PROJECT COMPLETED *July 30, 1976*

AS CONSTRUCTED PLANS
APPROVED: *D.C.E.* 11/16/76
TITLE DATE

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____ DATE _____

DIVISION ADMINISTRATOR

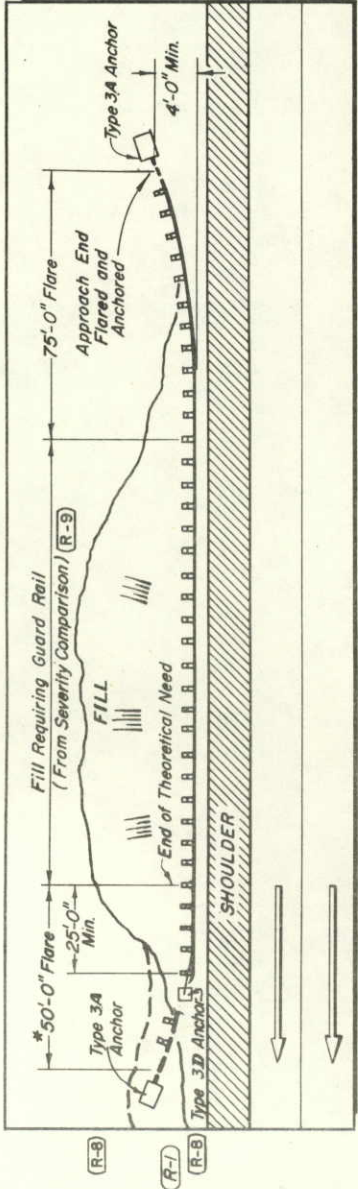
STANDARD M-606-AB

(MARCH 1, 1968)
(SHEET 2)

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	HHS 0004 (I)	5	

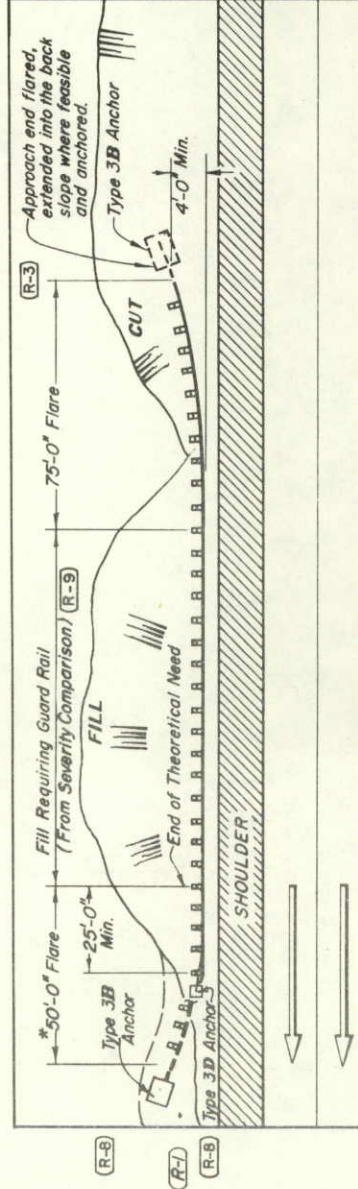
REVISIONS	REVISIONS
(R-7) 10-21-71 Revision date only.	(R-7) 10-21-71 Revision date only.
(R-8) 12-20-71 End anchorage type numbers.	(R-8) 12-20-71 End anchorage type numbers.
(R-9) 11-8-73 Severity Comparison.	(R-9) 11-8-73 Severity Comparison.
(R-10) 3-15-74 Guard Rail Post Embedment.	(R-10) 3-15-74 Guard Rail Post Embedment.
(R-11) 9-12-75 Revision date only.	(R-11) 9-12-75 Revision date only.

NO REVISIONS	AS CONSTRUCTED	VOID
7-30-76	REVISED	



GUARD RAIL INSTALLATION

NOTES:
* 2-Lane Highways — The exit end of Guard Rail shall extend 50 feet past the end of theoretical need and shall be flared and anchored.



GUARD RAIL INSTALLATION

ROADSIDE CUT TO FILL CONDITION

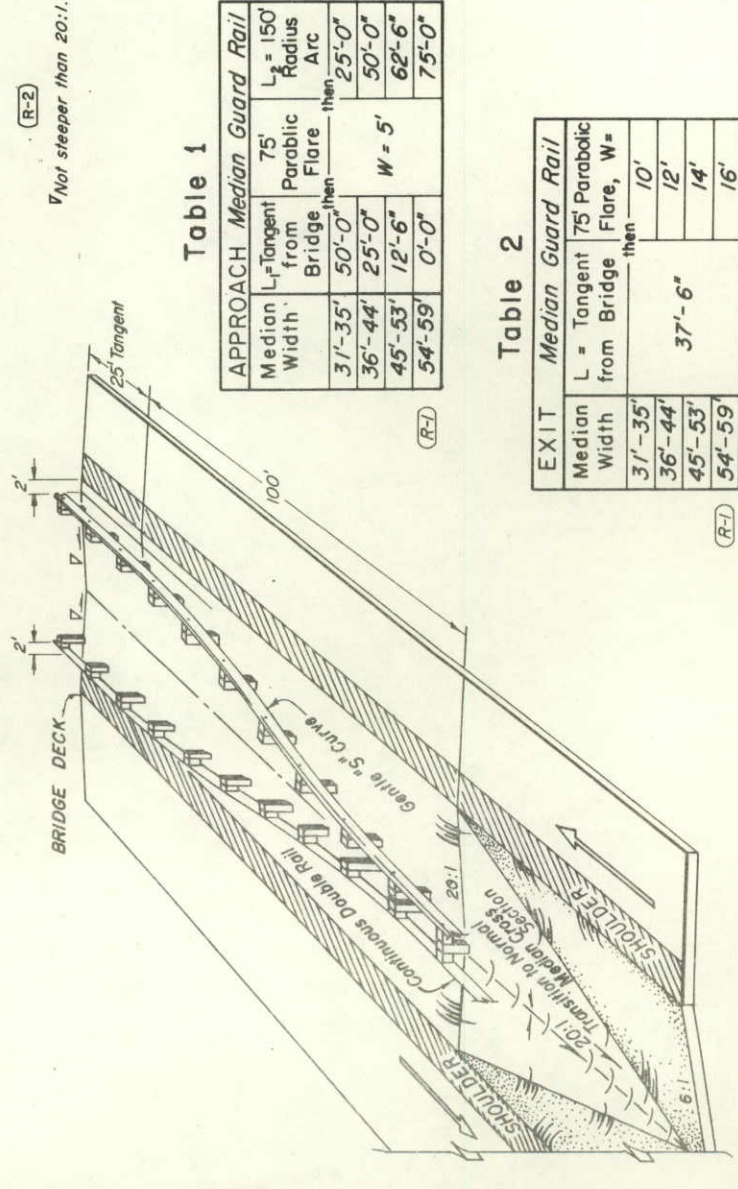


Table 1

Median Width	Parabolic Flare	Radius Arc
31'-35'	50'-0"	25'-0"
36'-44'	25'-0"	50'-0"
45'-53'	12'-6"	62'-6"
54'-59'	0'-0"	75'-0"

Table 2

EXIT Median Width	L = Tangent from Bridge	75' Parabolic Flare, W =
31'-35'	then 10'	
36'-44'	then 12'	
45'-53'	then 14'	
54'-59'	then 16'	

21' to 30' MEDIAN

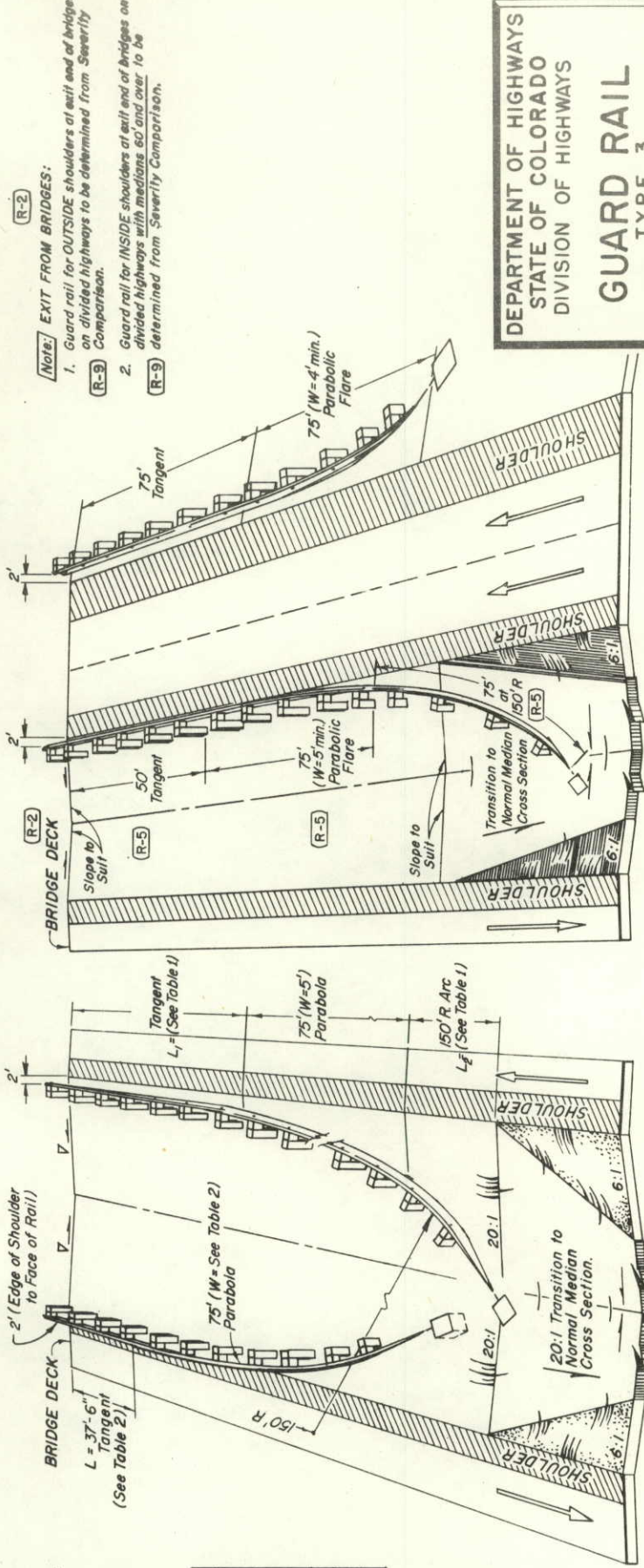
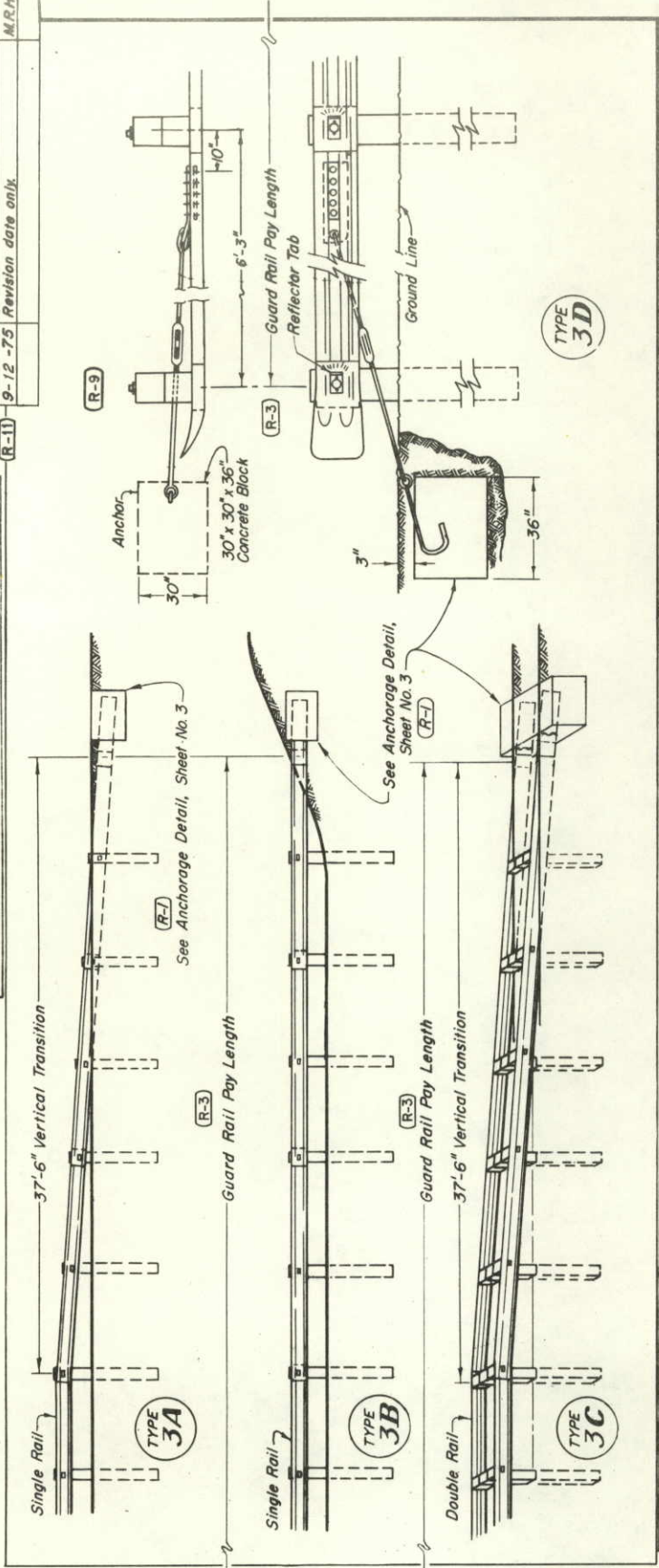
GUARD RAIL AT BRIDGE APPROACH

(R-1) 31' to 59' MEDIAN

(R-1) MEDIAN 60' AND OVER

TYPICAL END ANCHORAGE

(See Sheet 3 for Further Details)



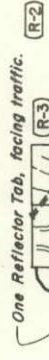
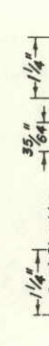
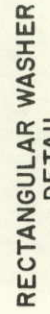
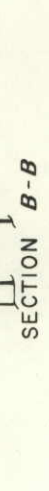
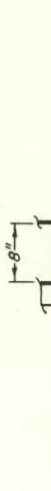
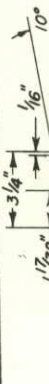
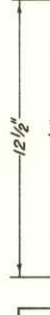
DEPARTMENT OF HIGHWAYS
STATE OF COLORADO
DIVISION OF HIGHWAYS

GUARD RAIL
TYPE 3

Designed by M. R. H. Approved by J. R. B.
Made by J. R. B. Staff Design Engineer
Checked by R. S. M. Date: March 1, 1968

REVISED FOR THIS PROJECT

REVISIONS	
R-7	10-21-71 Revision date only
R-8	12-20-71 Anchorage type numbers & reflector tabs.
R-9	11-8-73 Revised for Steel Posts.
R-10	3-15-74 Guard Rail Height!
R-11	9-12-75 Revision date only
	M.R.H.
	M.R.H.
	M.R.H.
	M.R.H.
	M.R.H.



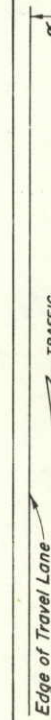
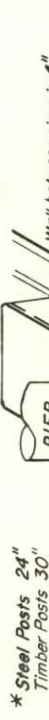
NOTE: Reflector Tab shall be installed on alternate posts or at max 12'-6" spacing.

TABLE OF TIMBER POST BOLT SIZE

R-4 **NOTE:** When 6" x 8" timber is used, the 8" dimension shall be perpendicular to the roadway.

DEPARTMENT OF HIGHWAYS
STATE OF COLORADO

Designed by <i>M. R. H.</i>	Approved by <i>LEO</i>
Made by <i>J. R. B.</i>	Staff Design Engineer



CONTINUOUS RAIL

When slope is 6:1 or flatter and an obstruction is present, increase where possible, to allow more area for vehicle recovery.

TYPICAL GUARD RAIL FOR OBSTRUCTIONS



FOR TYPE 3D



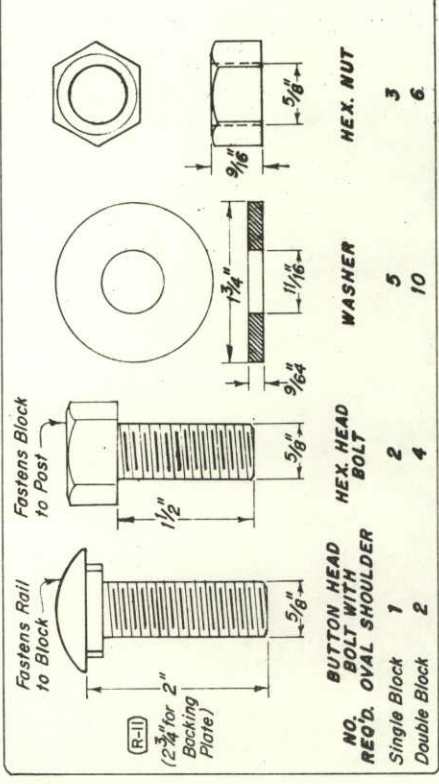
FOR TYPES 3A, 3B & 3C

DETAILS FOR TYPICAL END ANCHORAGE

STANDARD M-606-AB

(NOVEMBER 8, 1973)
(SHEET 4)

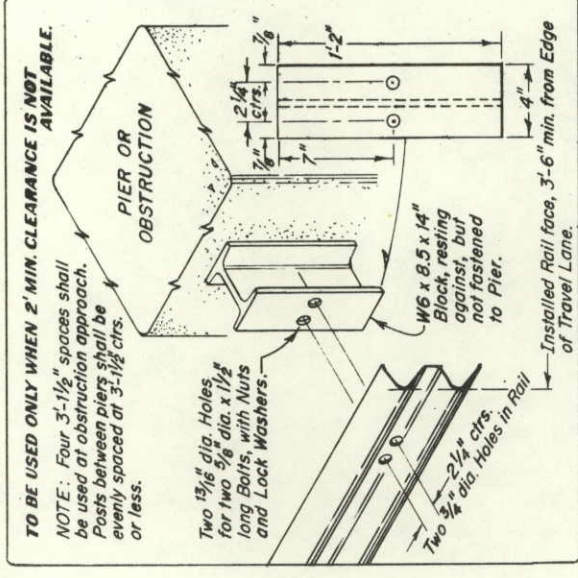
REVISED FOR THIS PROJECT



FASTENERS FOR STEEL POSTS

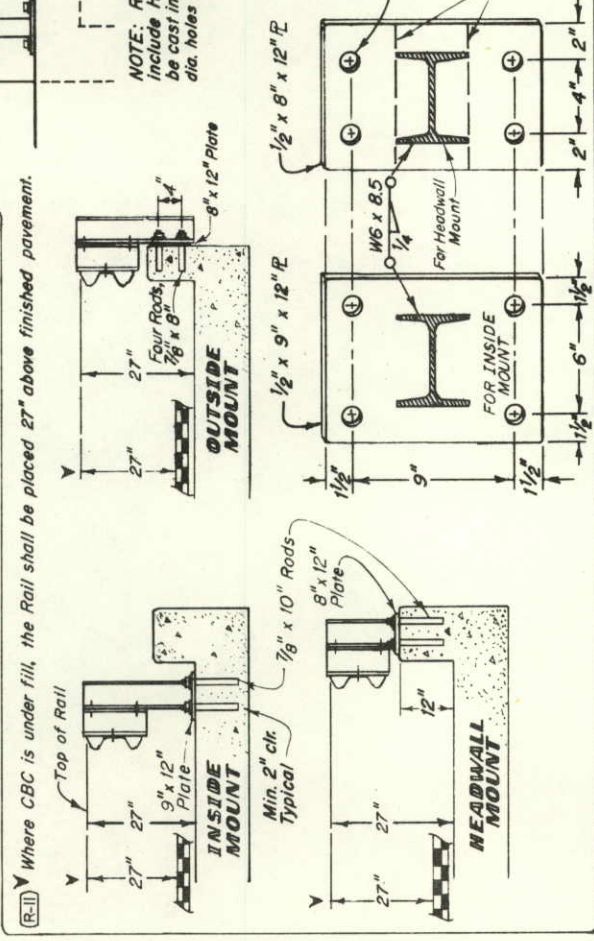
TO BE USED ONLY WHEN 2' MIN. CLEARANCE IS NOT AVAILABLE.

NOTE: Four 3'-1/2" spaces shall be used at obstruction approach. Posts between piers shall be evenly spaced at 3'-1/2 ctrs. or less.

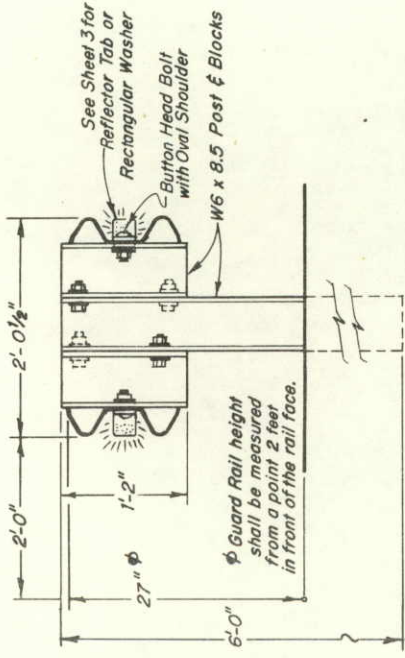


GUARD RAIL FOR NARROW MEDIANS

(R-11) Where CBC is under fill, the Rail shall be placed 27" above finished pavement.



GUARD RAIL ACROSS CONCRETE BOX CULVERT



MEDIAN GUARD RAIL WITH STEEL POST

(R-10)

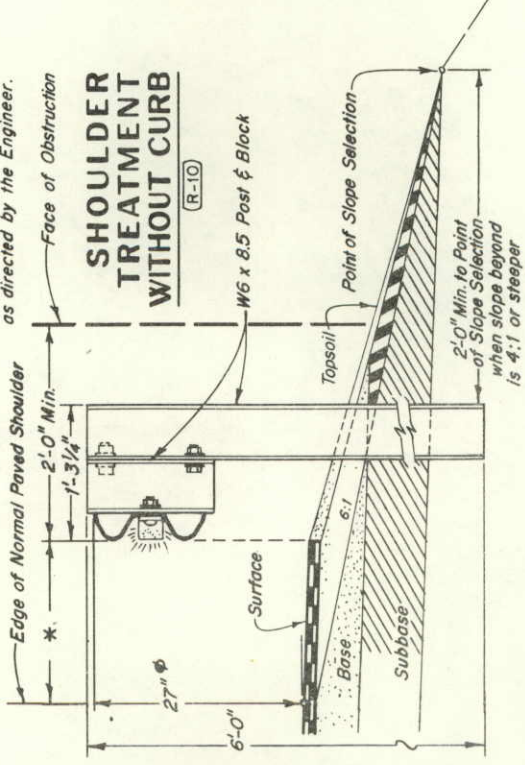
** Variable width of New H.B.P. (Gr. EX) as directed by the Engineer.*

—

Face of Obstruction

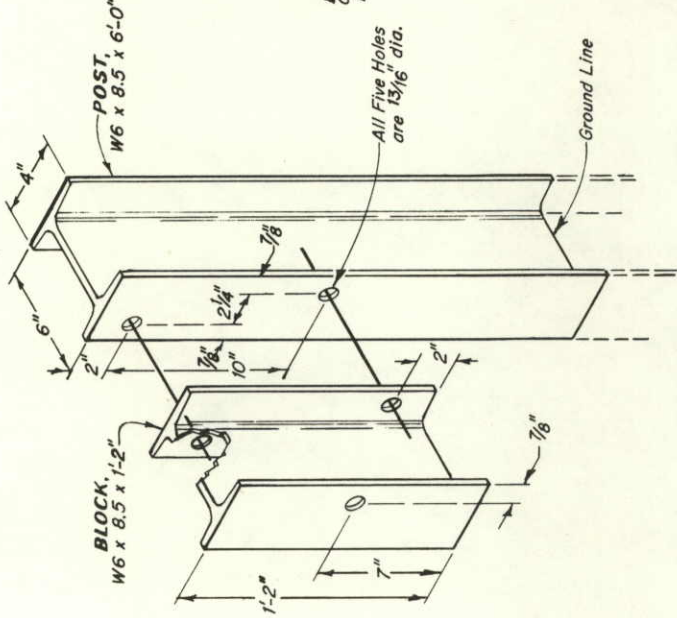
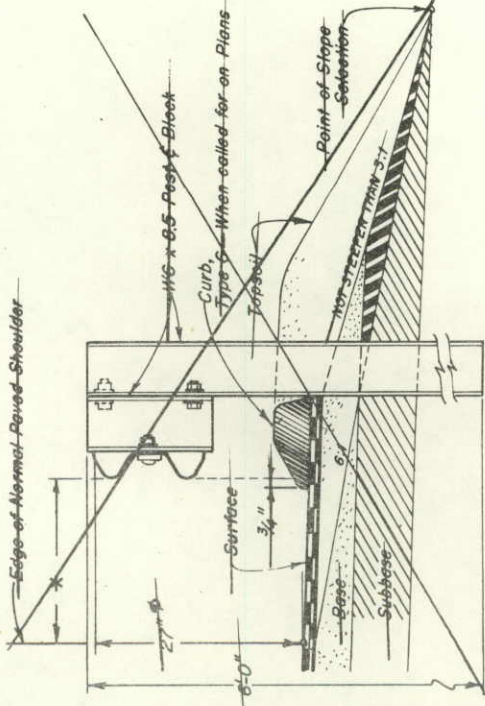
SHOULDER TREATMENT WITHOUT CURB

(R-10)

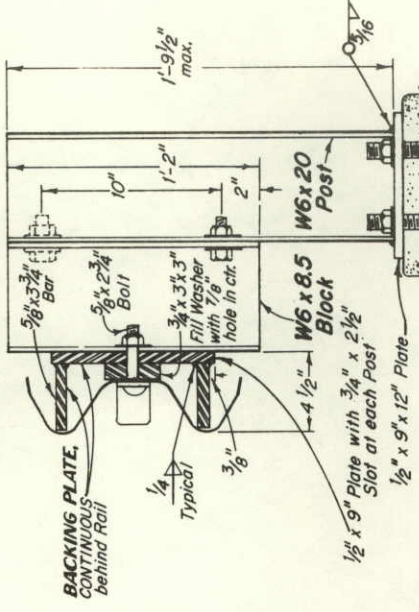


SHOULDER TREATMENT WITH CURB

~~(R-10)~~

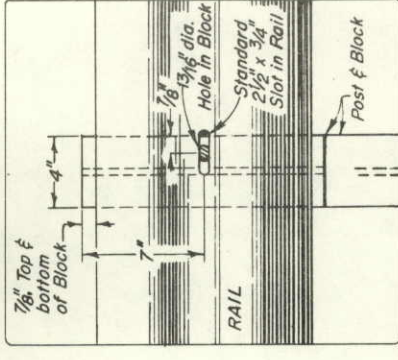


STEEL POST & BLOCK



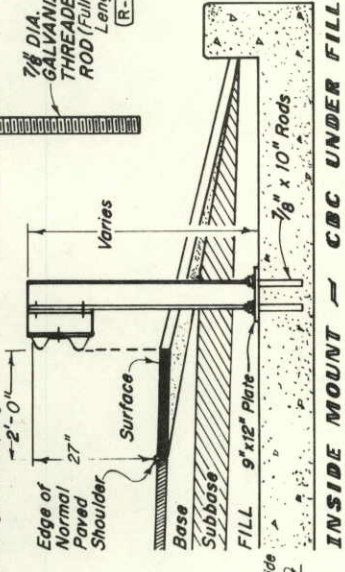
BACKING PLATE DETAIL

(To be used when required)



RAIL AT STEEL POST

NOTE: Rods shown are Galvanized Threaded Rods and shall include Hex. Nuts and Lock Washers. Rods for new CBC shall be cast in place. Rods for existing CBC shall be installed in $1\frac{1}{4}$ " dia. holes with non-shrink grout or epoxy.



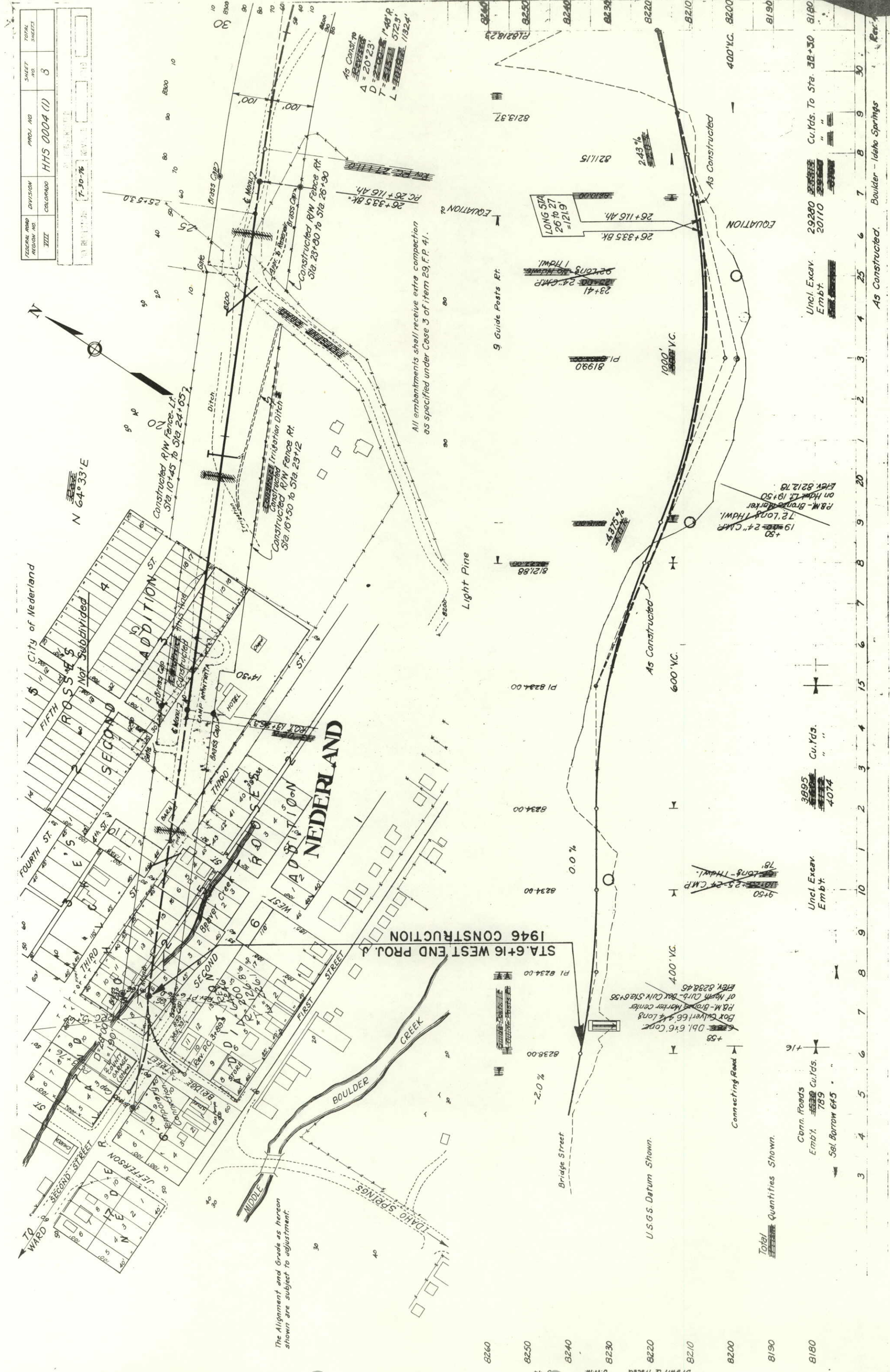
SHOWING METHODS OF MOUNTING STEEL POSTS, REQUIRED FOR BOTH WOOD & STEEL POST SYSTEMS

DEPARTMENT OF HIGHWAYS
STATE OF COLORADO
DIVISION OF HIGHWAYS

GUARD RAIL TYPE 3

Designed by *M. R. H.*
Made by *J. R. B.*
Checked by *O. L. S.*

1941 PEW
Boulder - Idaho Springs Colo. 29-1
Sta. 0+00 to Sta. 30+00
Sheet No. 5-44
Rev. 4

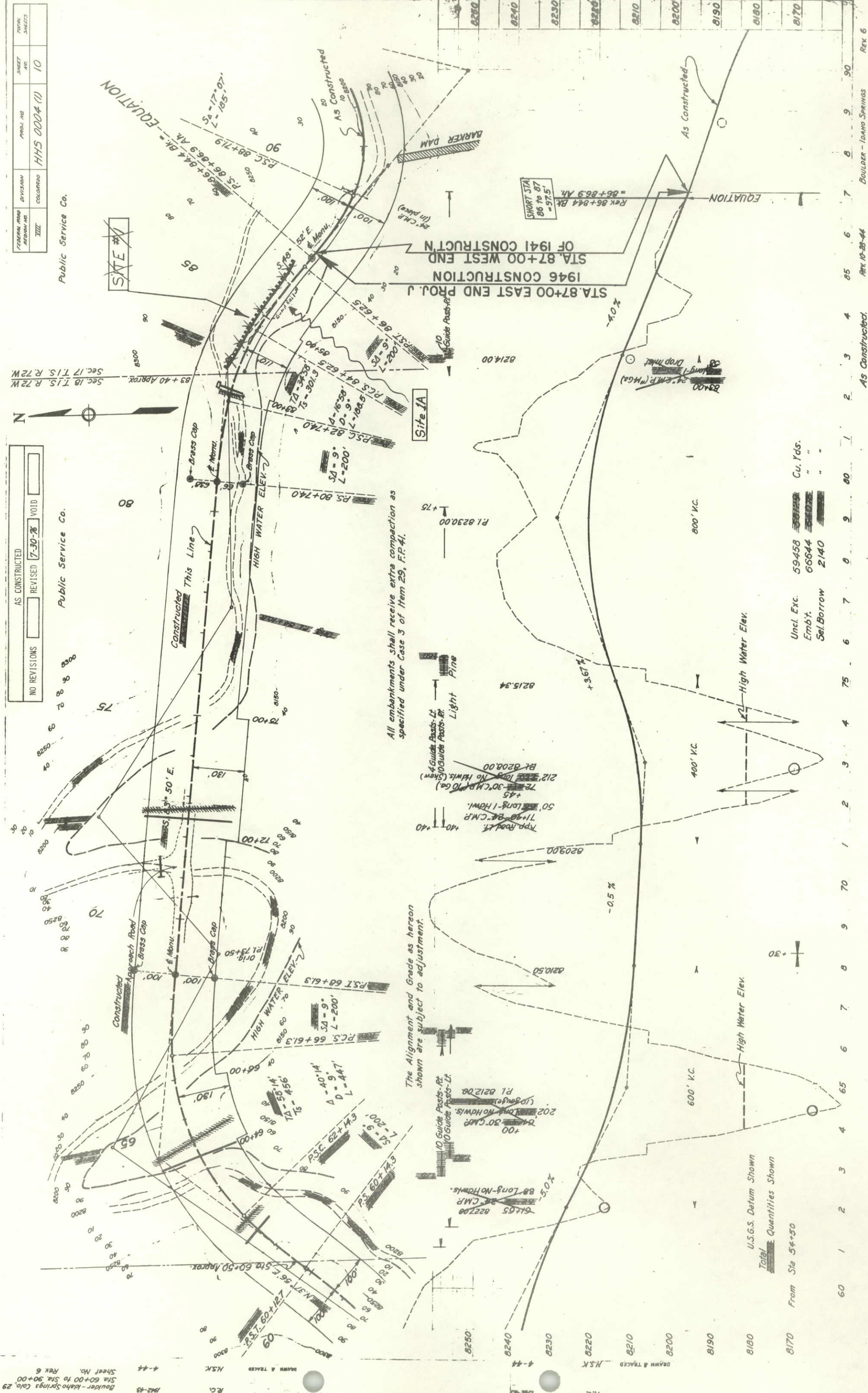


NO REVISIONS	AS CONSTRUCTED
	REVISED 7-30-76
	VOID

Public Service Co.

Public Service Co.

FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
III	COLORADO	HHS 0004 (I)	10	



U.S.G.S. Datum Shown
Total Quantities Shown
From Sta 54+50

Uncl. Exc.	59458	Cu. Yds.
Embt.	66644	" "
Sel. Borrow	2140	" "

60	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
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As Constructed.

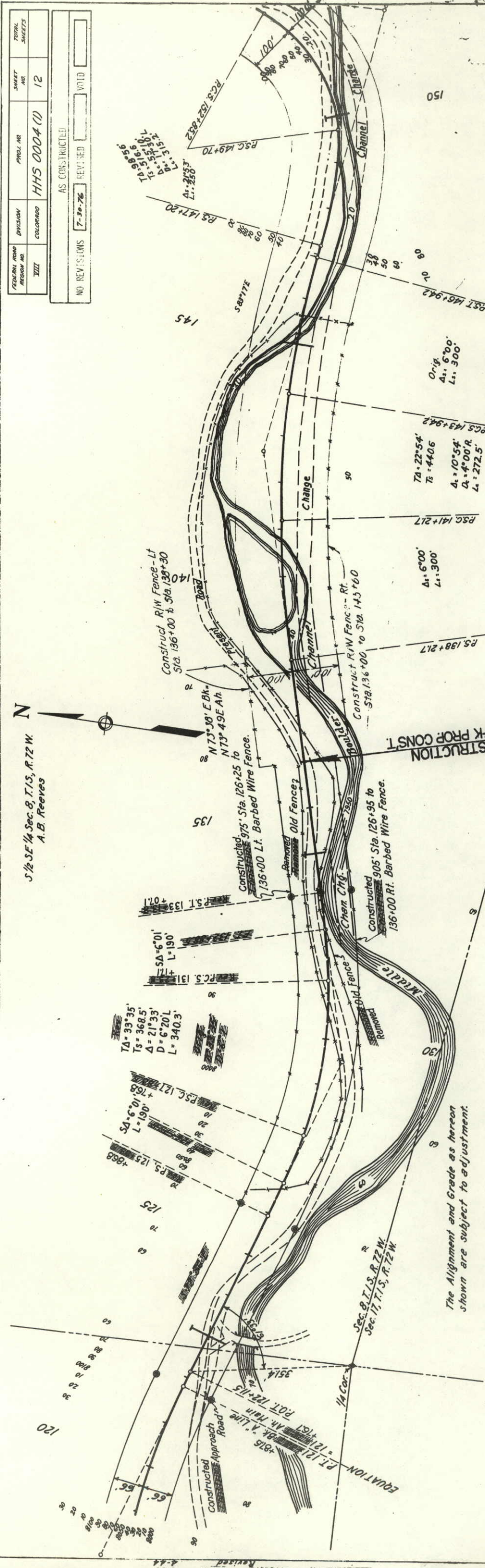
REV 10-28-44

Rev 6

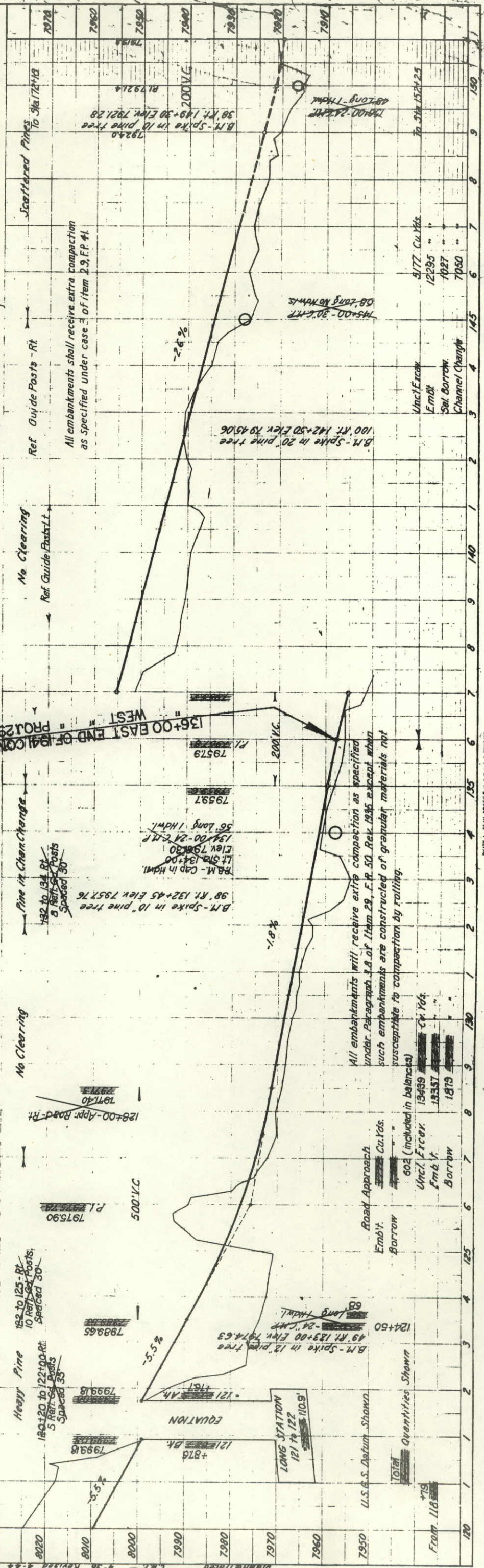
FEDERAL ROAD DISTRICT NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
VI	COLORADO	HHS 0004 (1)	12	

NO REVISIONS		AS CONSTRUCTED	
7-30-76	REVISED		VOTED

S 1/2 SE 1/4 Sec. 8, T.15, R.72 W.
A. B. Reeves



PLAN
1394 Boulder-Idaho Springs Colo.
Sta. 120 to Sta. 150
Sheet No. 8
Drawn & Traced
C.M.T.
5-96
Revised

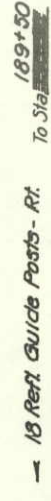
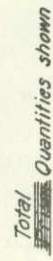


PROFILE
1394 Boulder-Idaho Springs Colo.
Sta. 120 to Sta. 150
Sheet No. 8
Drawn & Traced
C.M.T.
5-96
Revised

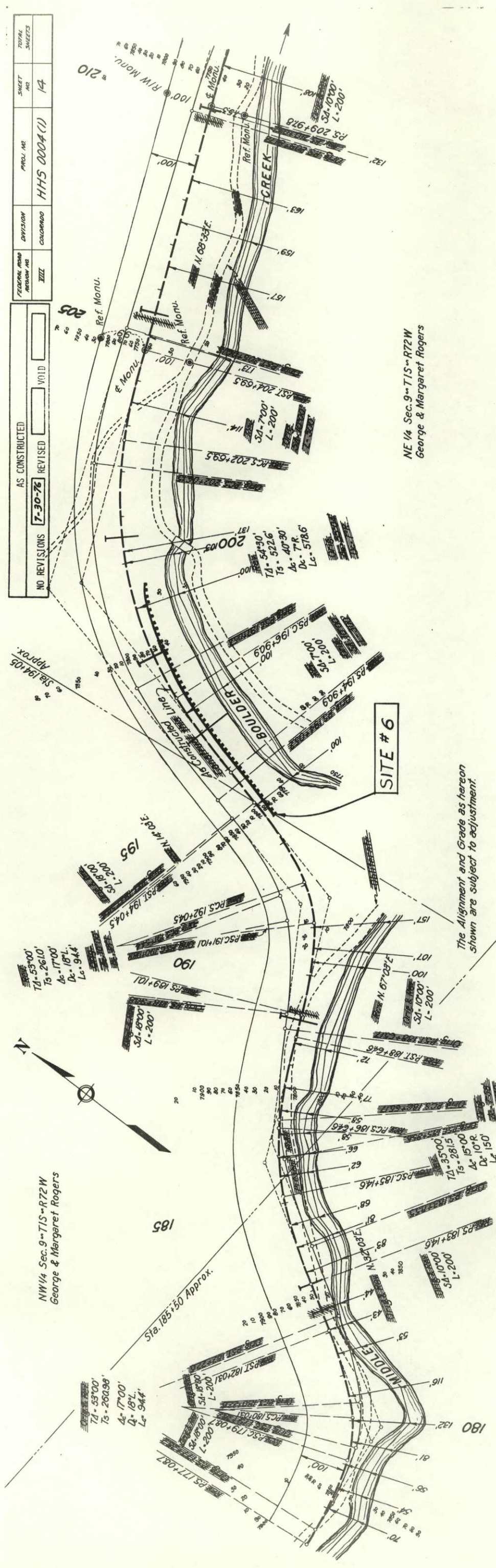
Station	From 118	Total	Quantities Shown	U.S. & S. Datum Shown	Long Station	Equation	Heavy Pine	No Clearing	Pine in Chan. Change	Ref. Guide Posts - Rt	Scattered Pines
120	118	118			121 to 122						
125	118	118									
130	118	118									
135	118	118									
140	118	118									
145	118	118									
150	118	118									

NOTE: 1. PLAN PROFILE OF P. & S. SYSTEM
2. ALL ELEVATIONS ARE IN FEET
3. ALL DISTANCES ARE IN FEET

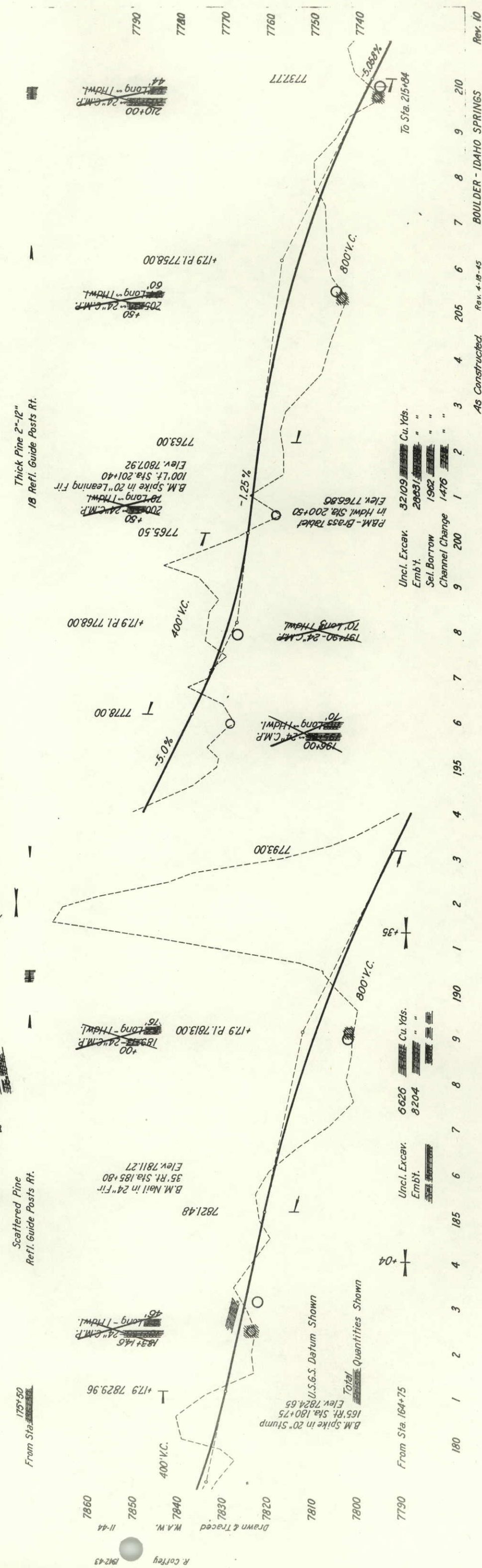
$T_4 = 53.00'$
 $T_5 = 260.98'$
 $\Delta = 17.00'$
 $D = 18.00'$
 $= 94.4'$

1942-43
1944
1944

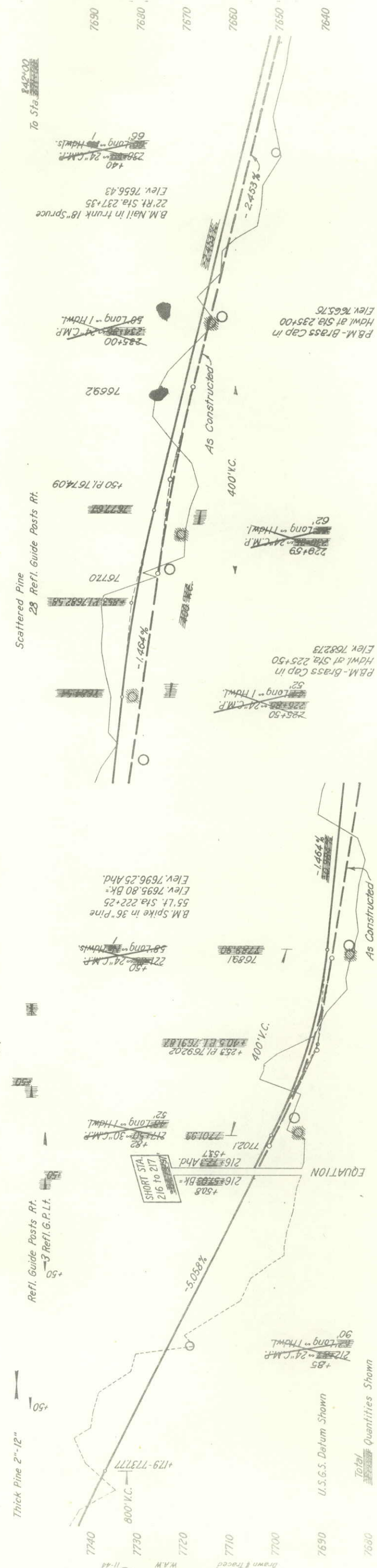
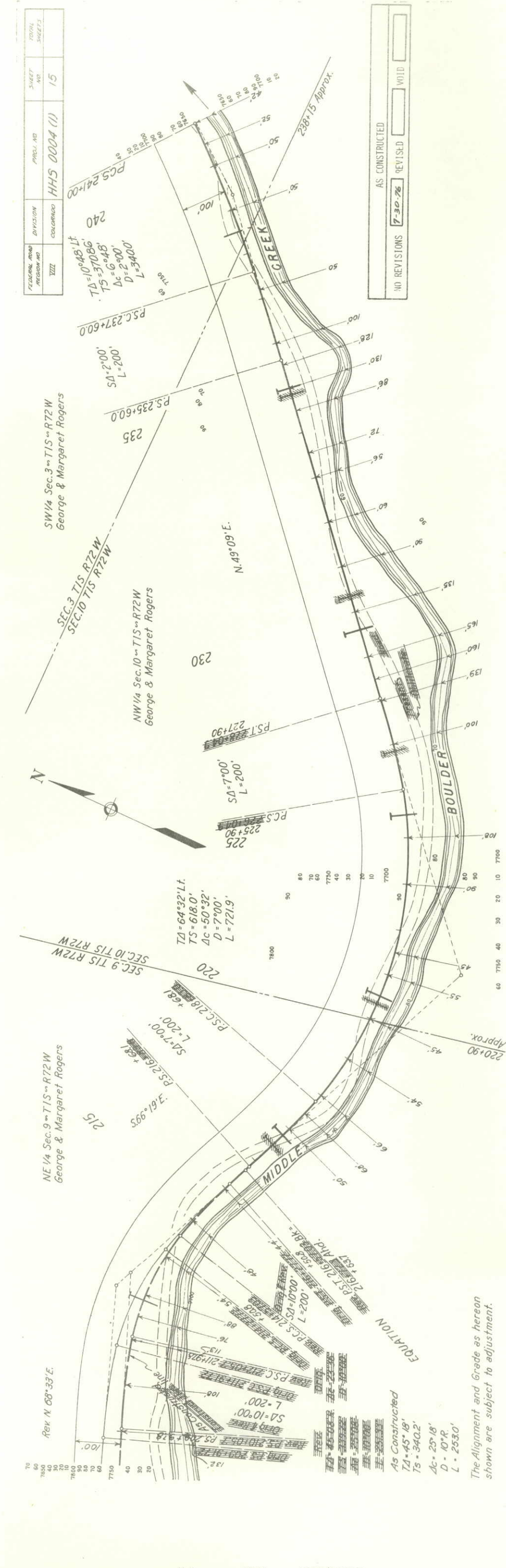
As Constructed



NO REVISIONS	7-30-76	REVISED	VOID
AS CONSTRUCTED			
FEDERAL ROAD DISTRICT NO.	III	DIVISION	COLORADO
PROJECT NO.	HHS 0004(1)	SHEET NO.	14
TOTAL SHEETS			

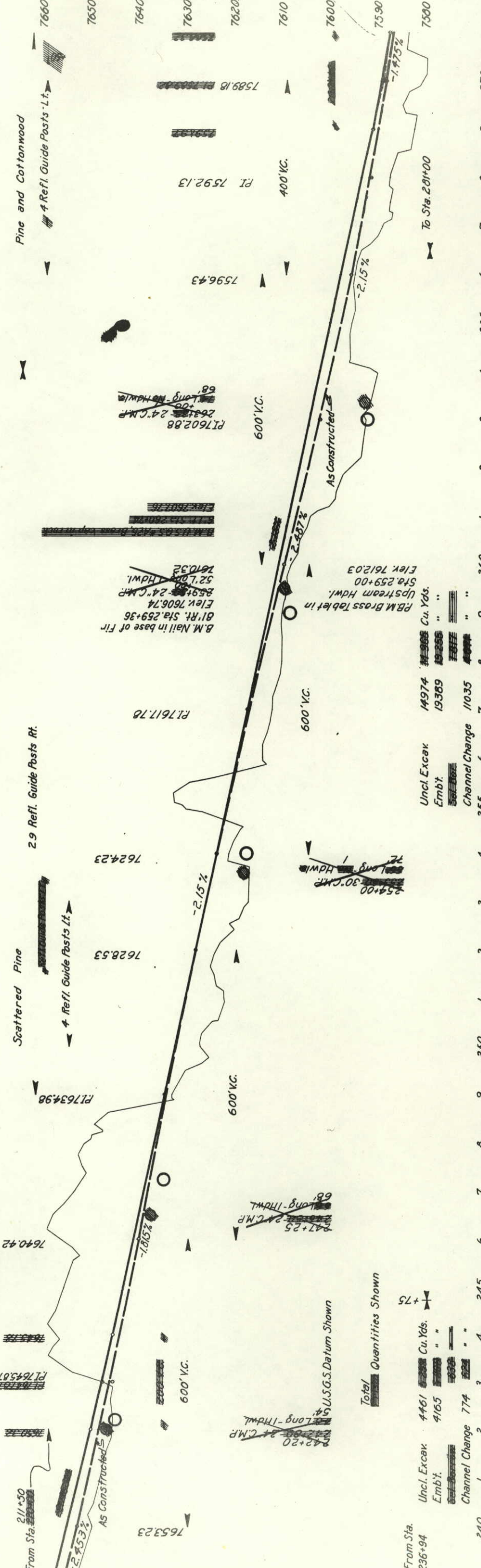
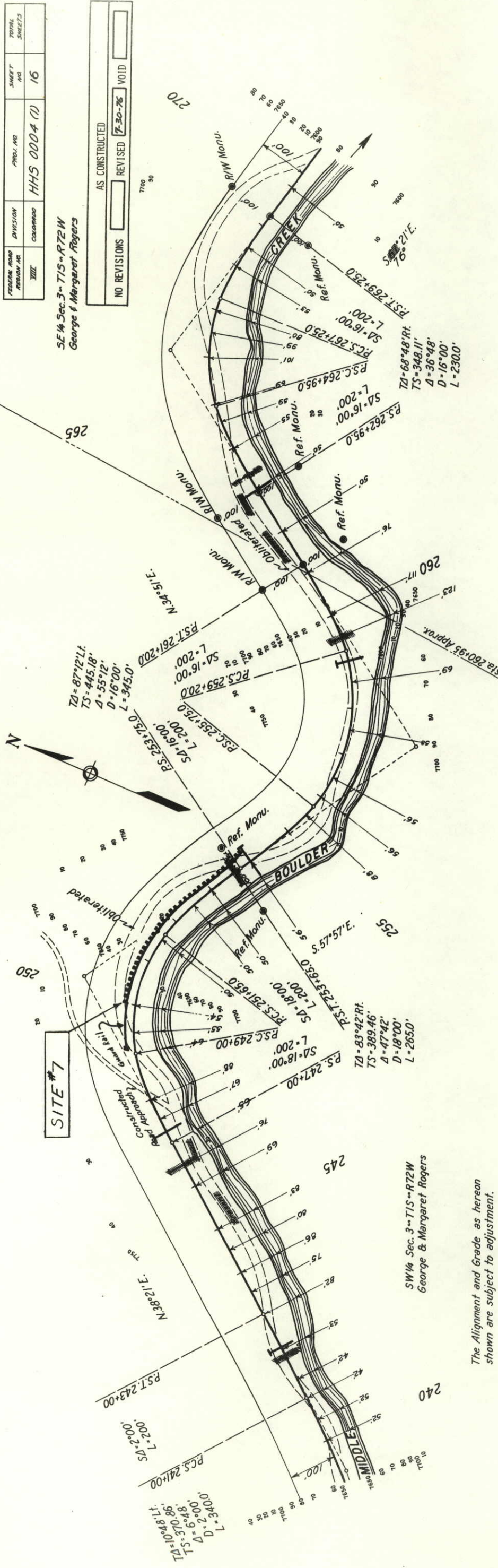


Station	From Sta. 180+00	To Sta. 210+00	Uncol. Excav.	Emb't.	Sel. Borrow	Channel Change	Cu. Yds.
180	1	2	6626	8204			
185	6	7					
190	9	8					
195	3	4					
200	1	2					
205	6	7					
210	9	8					



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PROJECT NAME REGION NO.	DIVISION COLUMBIA	PROJ. NO. HHS 0004 (1)	SHEET NO. 16	TOTAL SHEETS
SE 1/4 Sec. 3-T15-R72W George & Margaret Rogers				
NO REVISIONS				
AS CONSTRUCTED				
REVISED 7-30-76				
VOID				



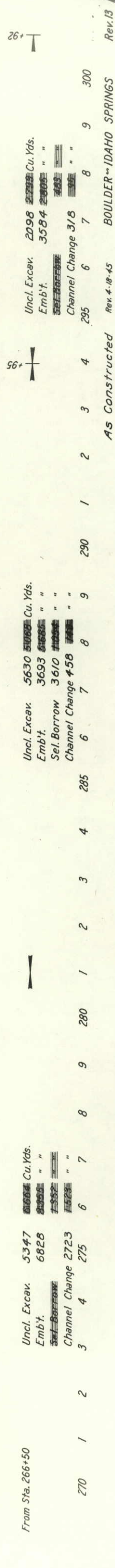
From Sta. 236+94

Unc'l. Excav.	Embit.	Channel Change	Cu. Yds.
4461	4165	774	

Unc'l. Excav. 14974
Embit. 19389
Channel Change 11035

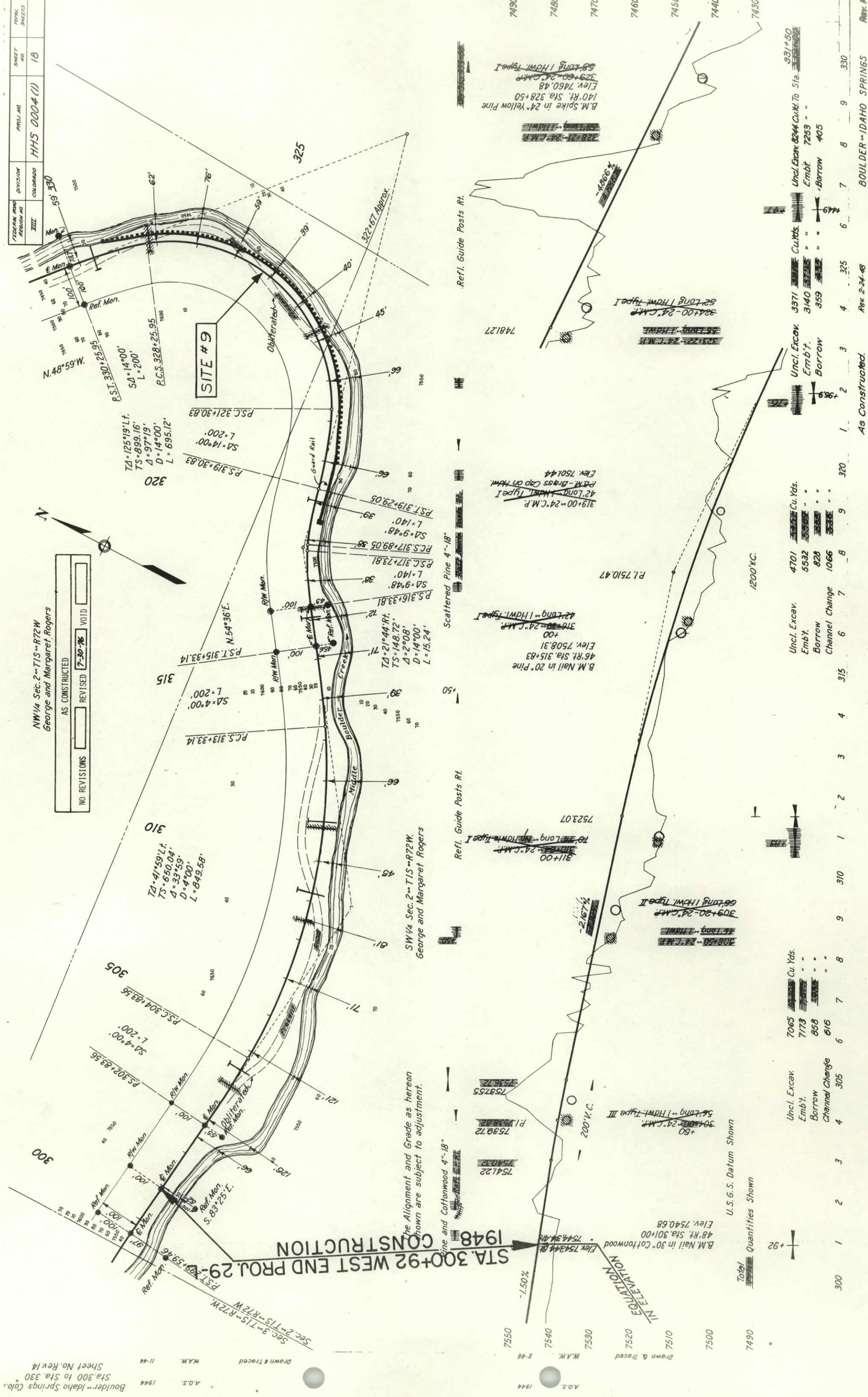
Cu. Yds.
14974
19389
11035

Total Quantities Shown



Uncl. Excav.	2098		Cu. Yds.
Emb't.	3584		" "
			" "
Channel Change	318		" "
295	6	7	8

As Constructed Rev. 4-18-45 BOULDER - IDAHO SPRINGS Rev. 13



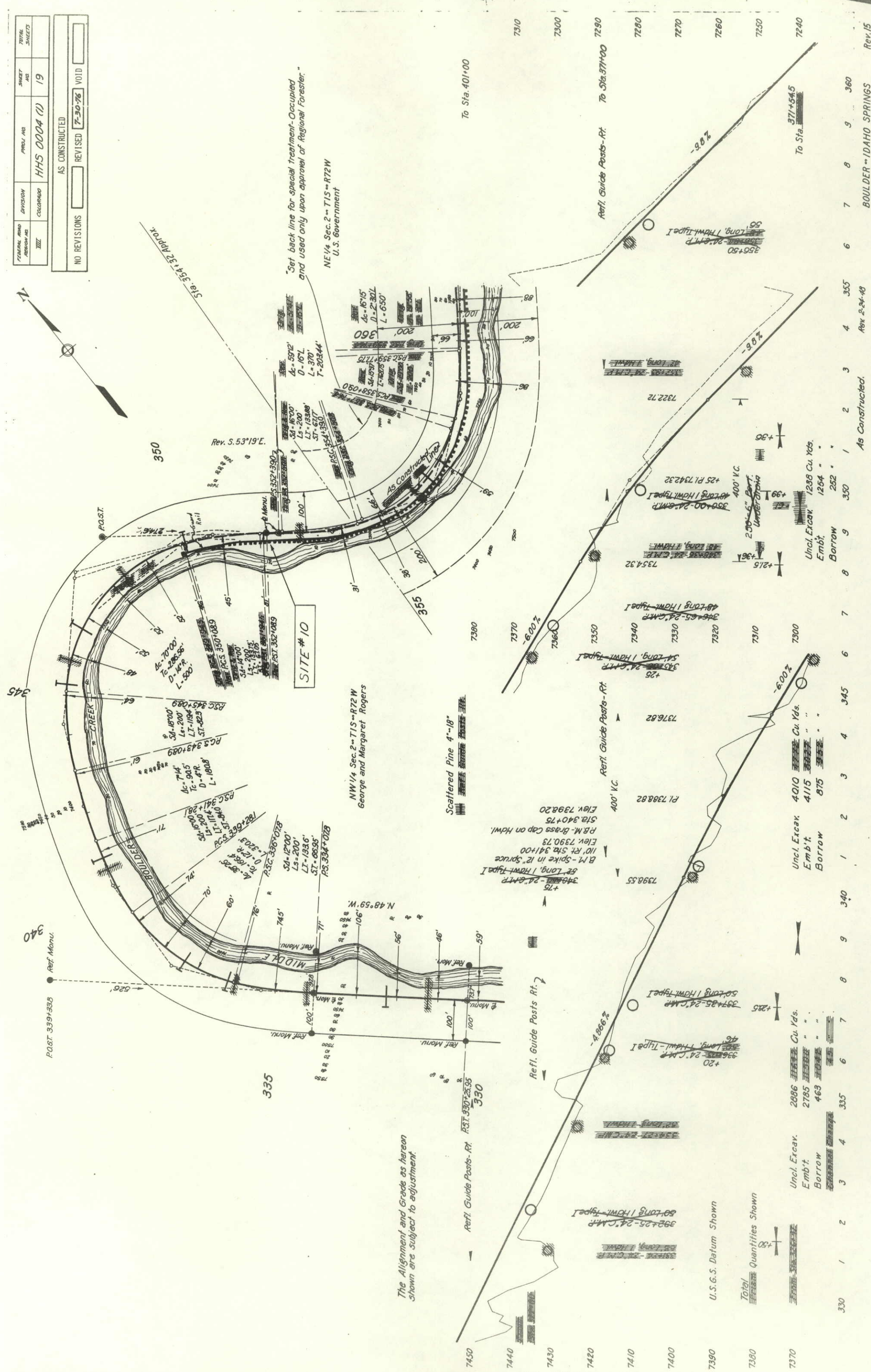
Boulder-Idaho Springs
Sta. 330+00 to Sta. 360+00
Sheet No. 19 of 15

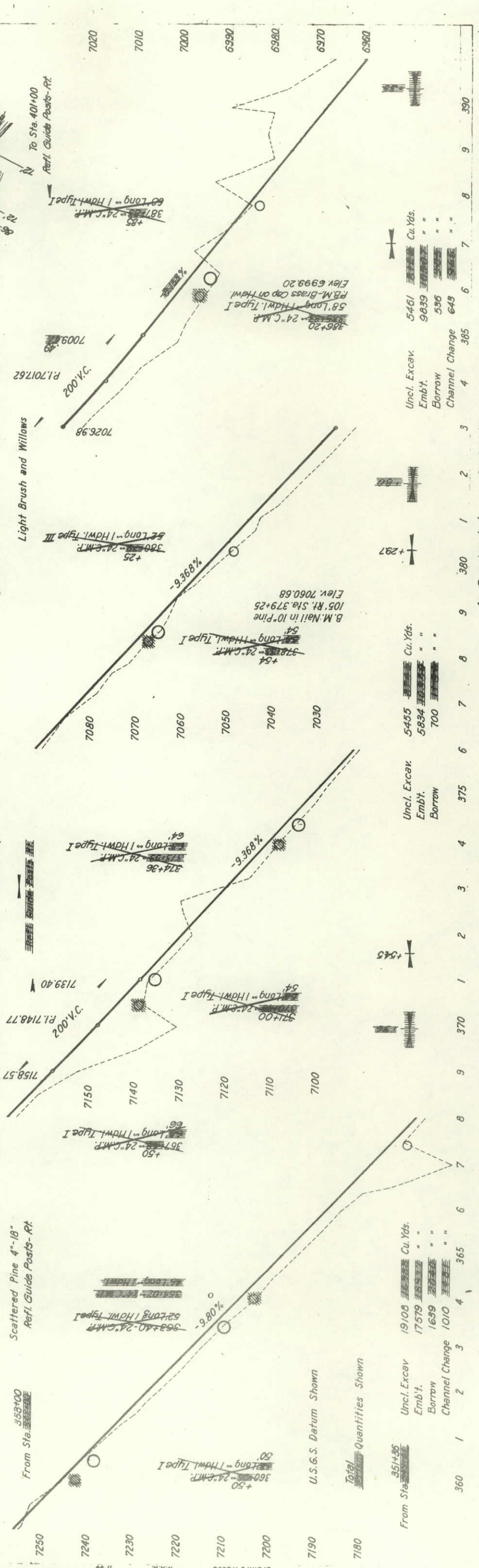
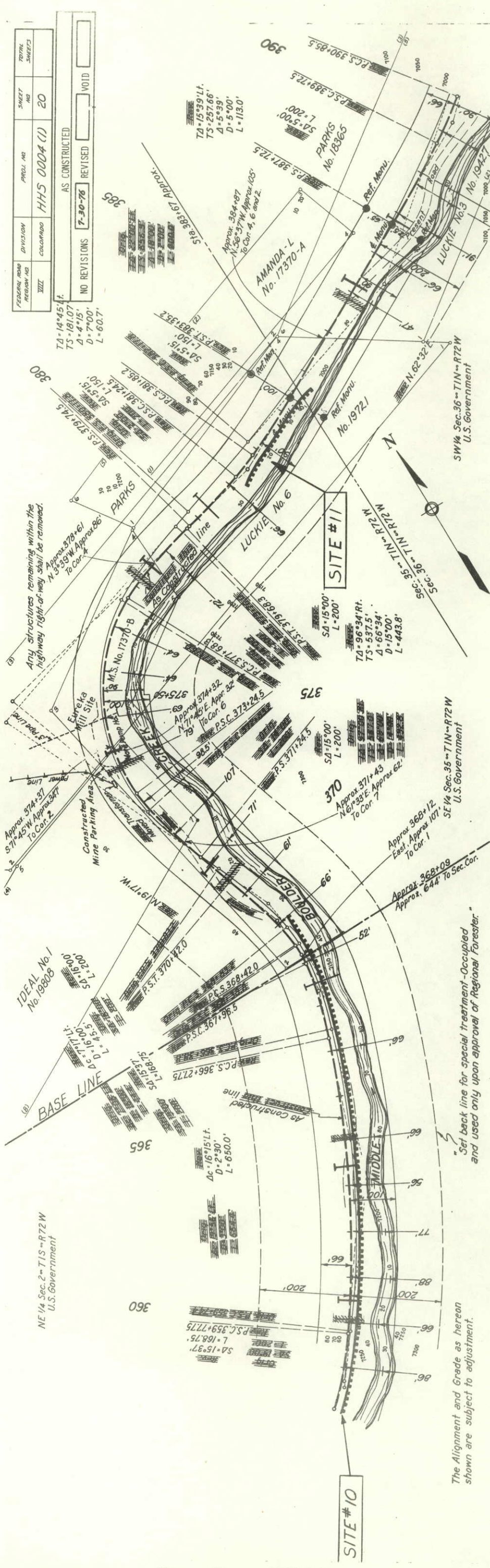
A.O. Stinson
1944
Drawn & Traced A.H.B.
11-44

A.O.S.
1944
E.W.M. M.A.W.
11-44
Drawn & Traced

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
III	COLORADO	HHS 0004 (1)	19	

NO REVISIONS	AS CONSTRUCTED	REVISED 7-30-76	VOID
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FEDERAL ROAD DISTRICT NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
III	COLORADO	HHS 0004 (I)	20	

AS CONSTRUCTED	
NO REVISIONS	7-30-76
REVISED	VOID

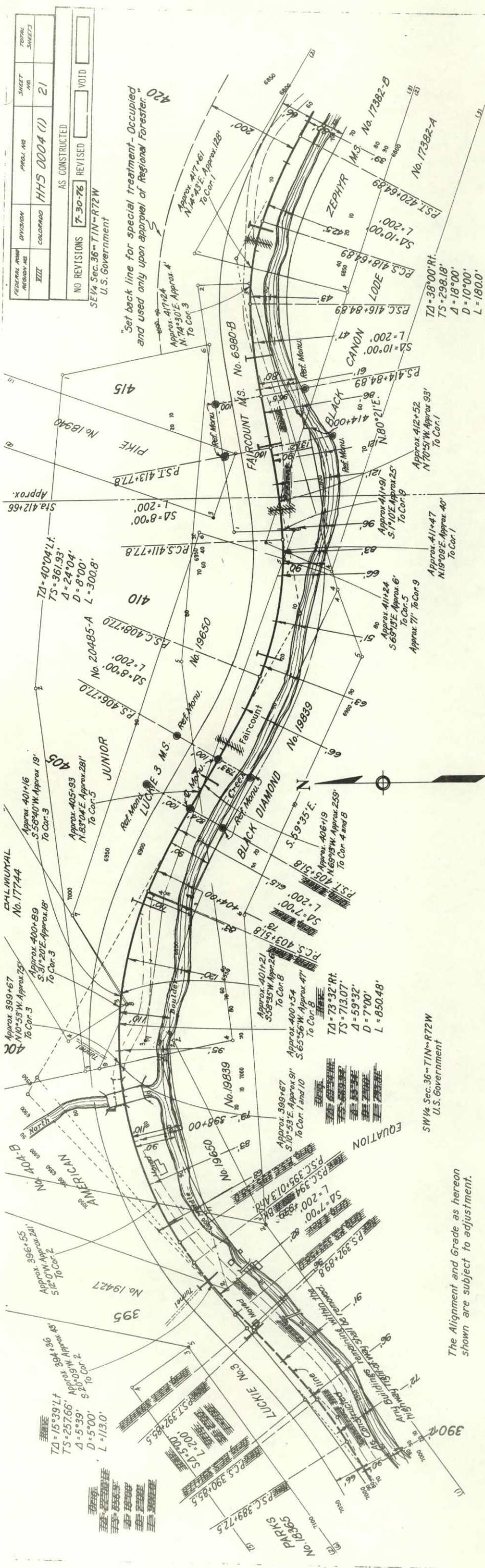
TA-14°45' L
TS-181.07
Δ=4°15'
D=7°00'
L=60.7'

Station	Unc'l. Excav.	Emb't.	Borrow	Channel Change	Cu. Yds.
360					
365					
370					
375					
380					
385					
390					

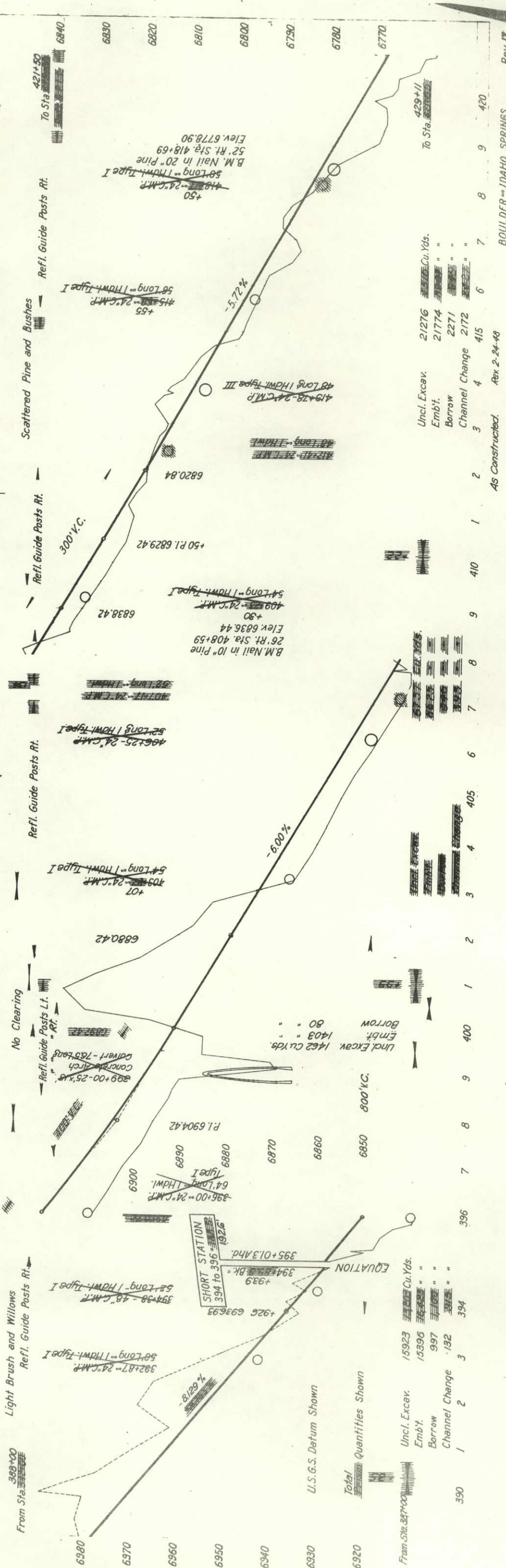
FEDERAL ROAD DISTRICT NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
VIII	CALCUTTA	HHS 0004 (1)	21	

NO REVISIONS
AS CONSTRUCTED
REVISED
VOID

SE 1/4 Sec. 36 T1N R72W
U.S. Government



The Alignment and Grade as hereon shown are subject to adjustment.

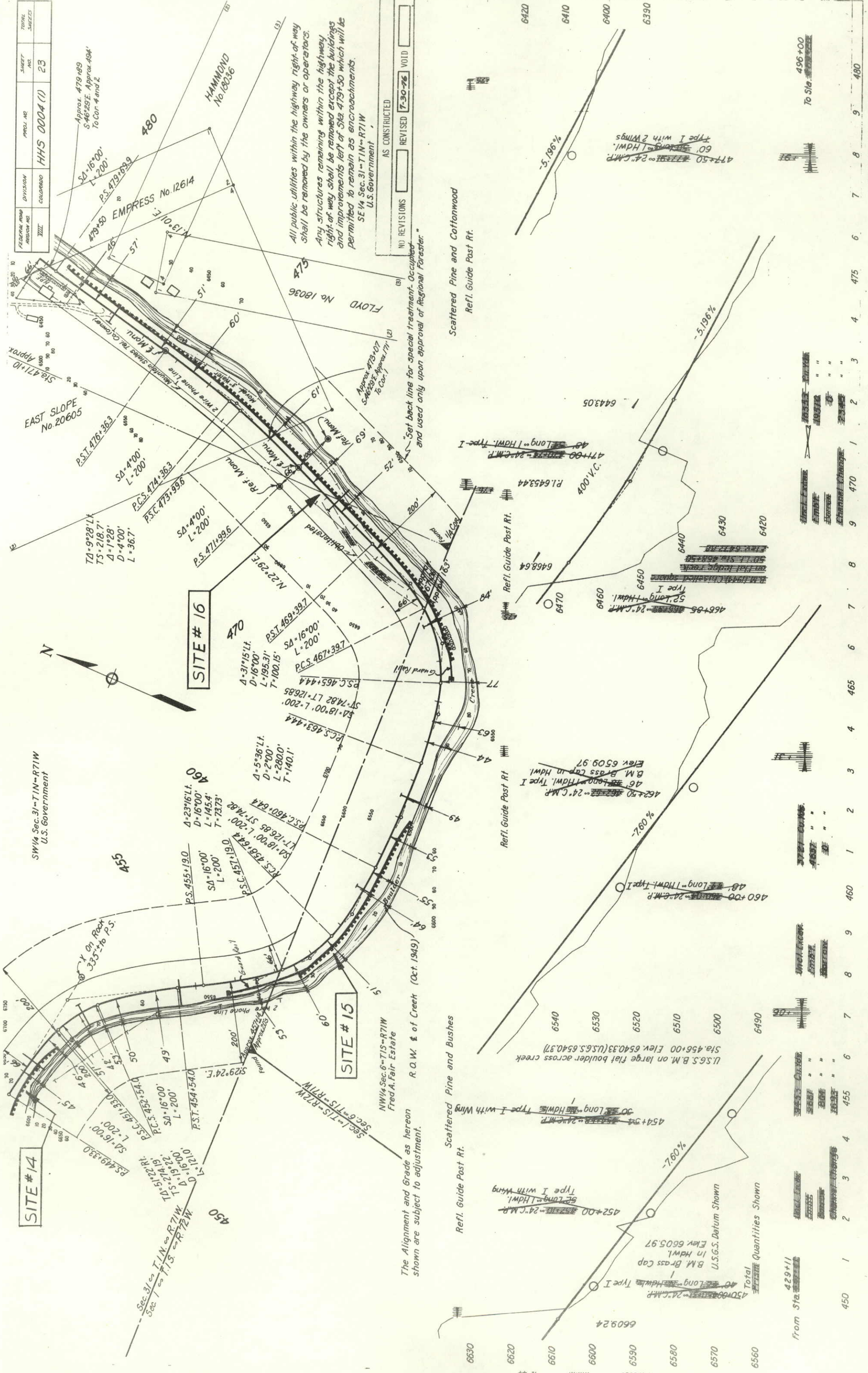


From Sta. 390 to Sta. 420

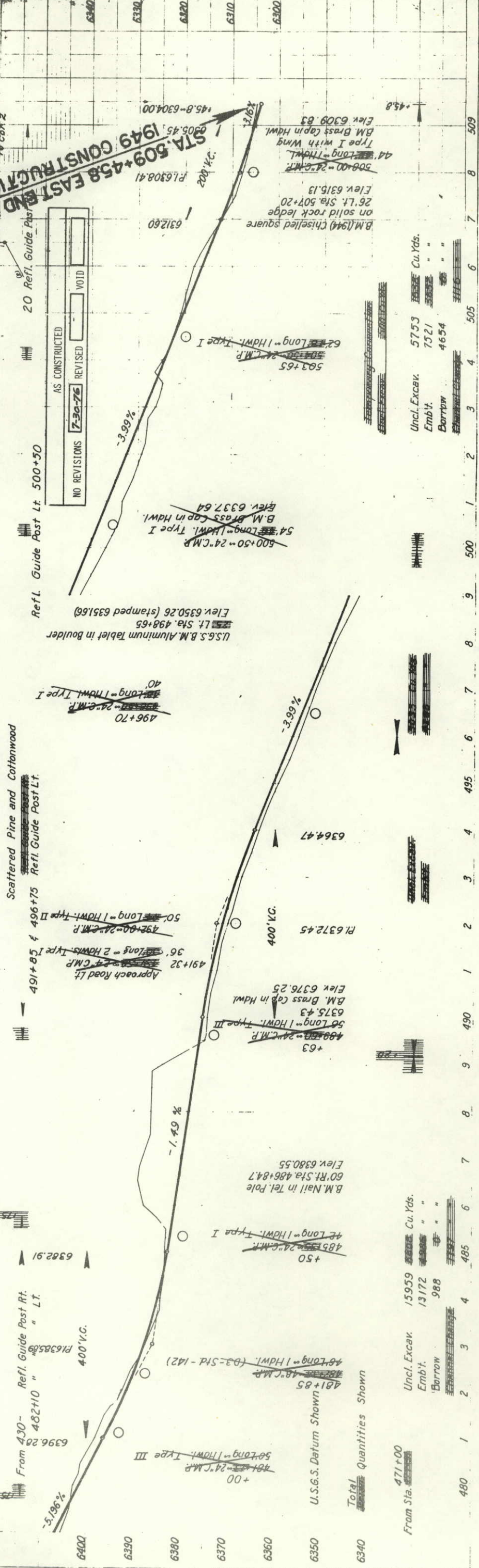
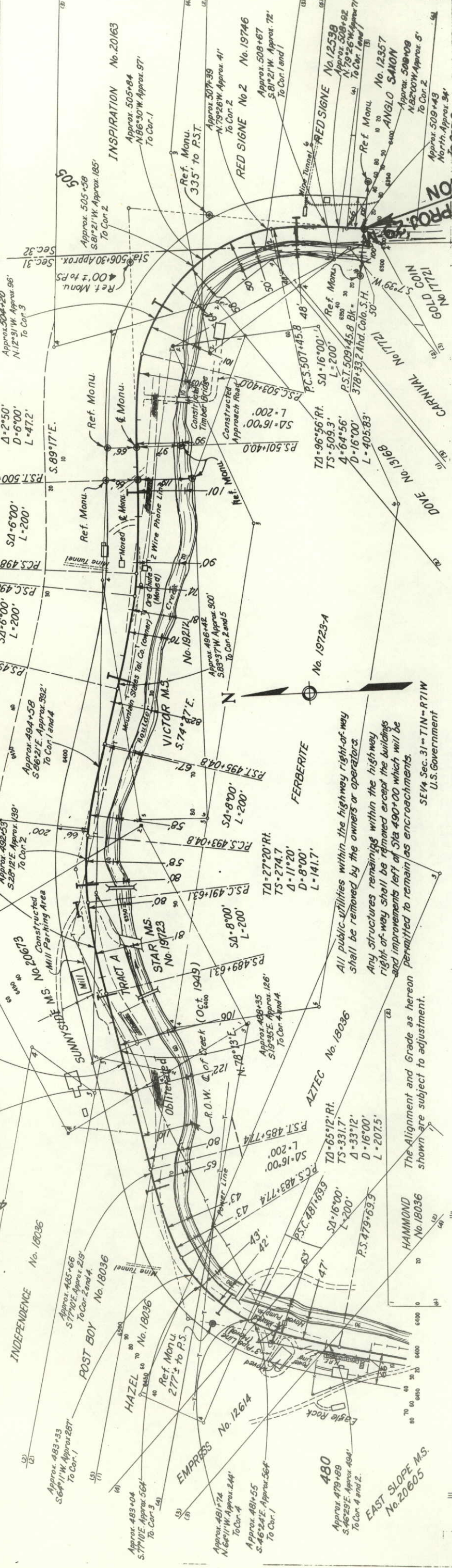
Station	Uncol. Excav.	Embl.	Borrow	Channel Change	Total
390	15923	15396	997	132	17448
394					
396					
400					
405					
410					
415					
420					

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	HHS 0004 (1)	23	

7	8	9	480
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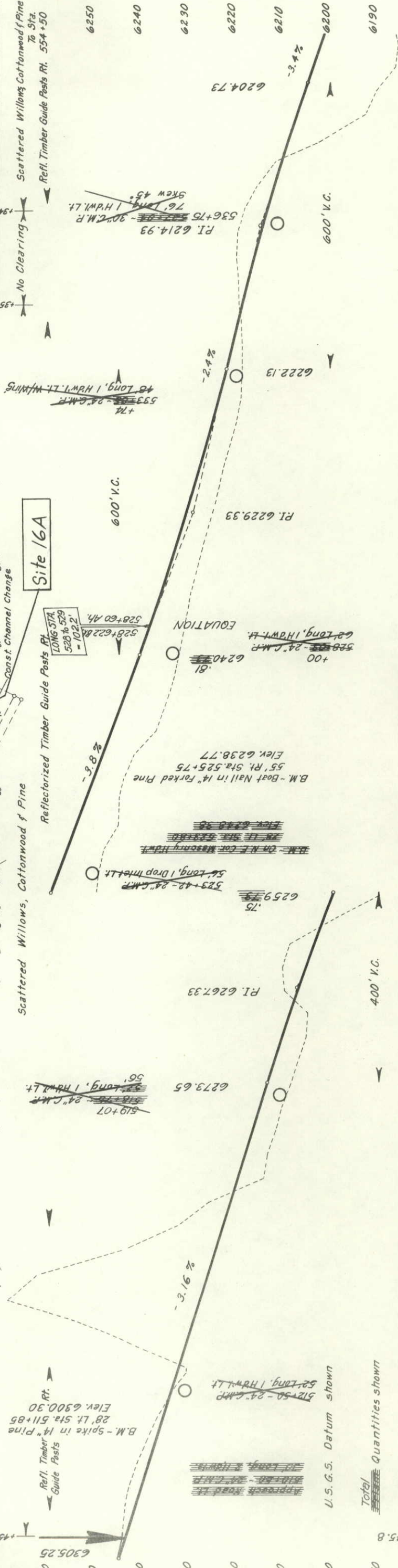
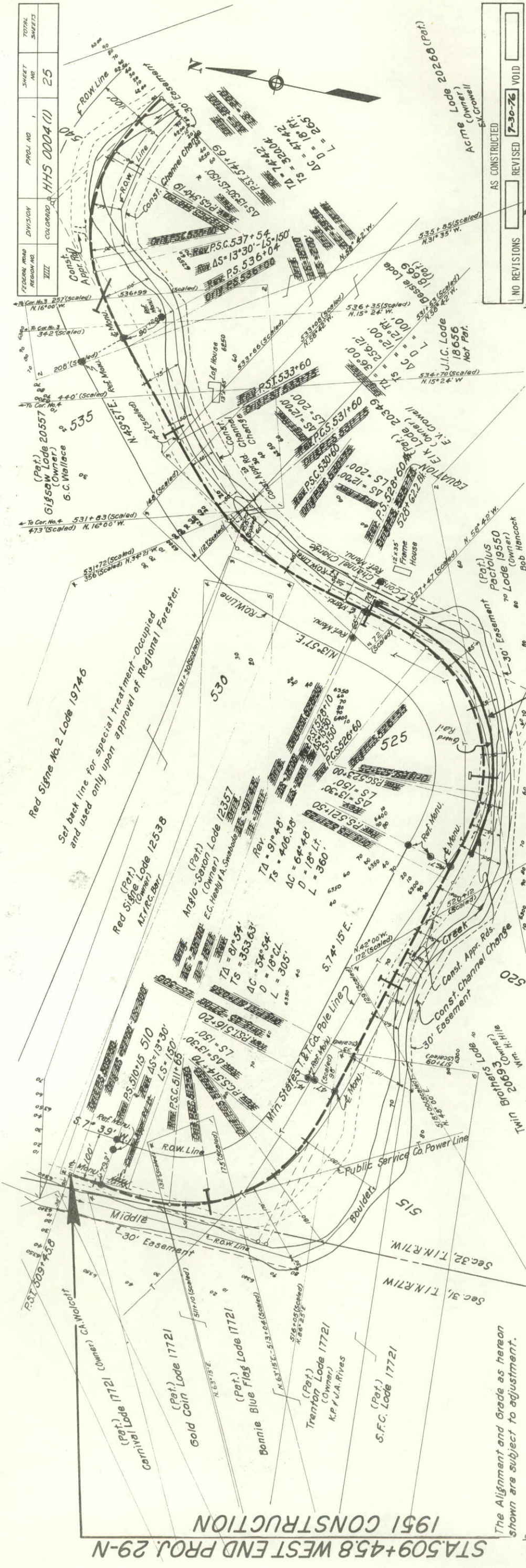


FEDERAL ROAD DISTRICT NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
III	COLORADO	HHS 0004 (I)	24	



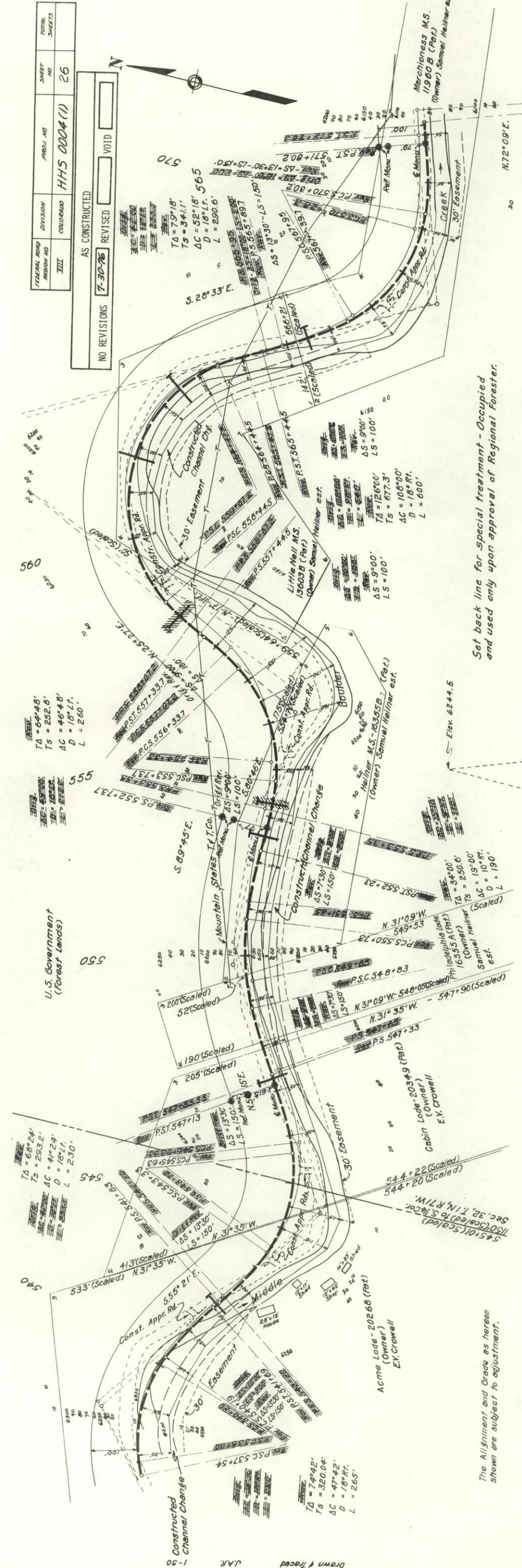
From Sta.	Unc'l. Excav.	Emb't.	Borrow	Cu. Yds.
471+00	15959	13172	988	
480				
481				
482				
483				
484				
485				
486				
487				
488				
489				
490				
491				
492				
493				
494				
495				
496				
497				
498				
499				
500				
501				
502				
503				
504				
505				
506				
507				
508				
509				
510				

1549 Boulder - Idaho Springs, Colo. 29-N
Sta 510+00 to Sta 540+00
Sheet No. 21

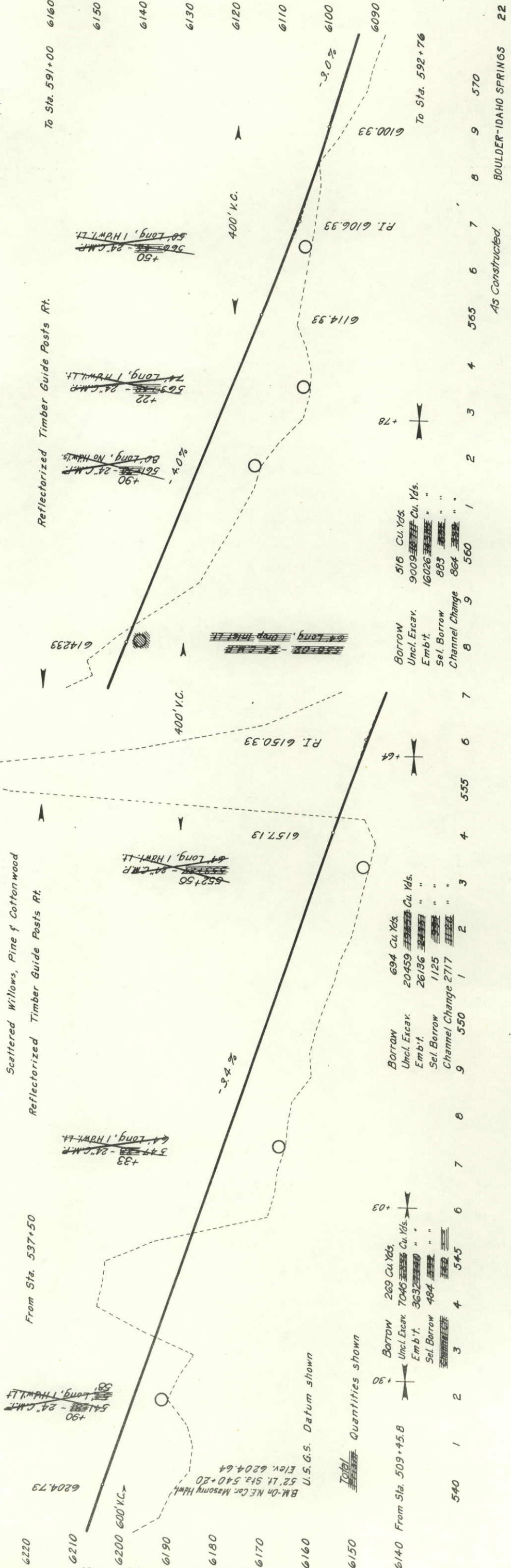


Total Quantities shown									
510	1	2	3	4	5	6	7	8	9
Borrow									
Uncl. Excav.									
Emblt.									
Sel. Borrow									
Channel Change									
2373 Cu Yds.									
26349 Cu Yds.									
34340 Cu Yds.									
3980 Cu Yds.									
2842 Cu Yds.									
To Sta. 542+30 6180									

1949 Boulder-Idaho Springs, Colo. 2
Sta. 540+00 to Sta. 570+00
Sheet No. 22



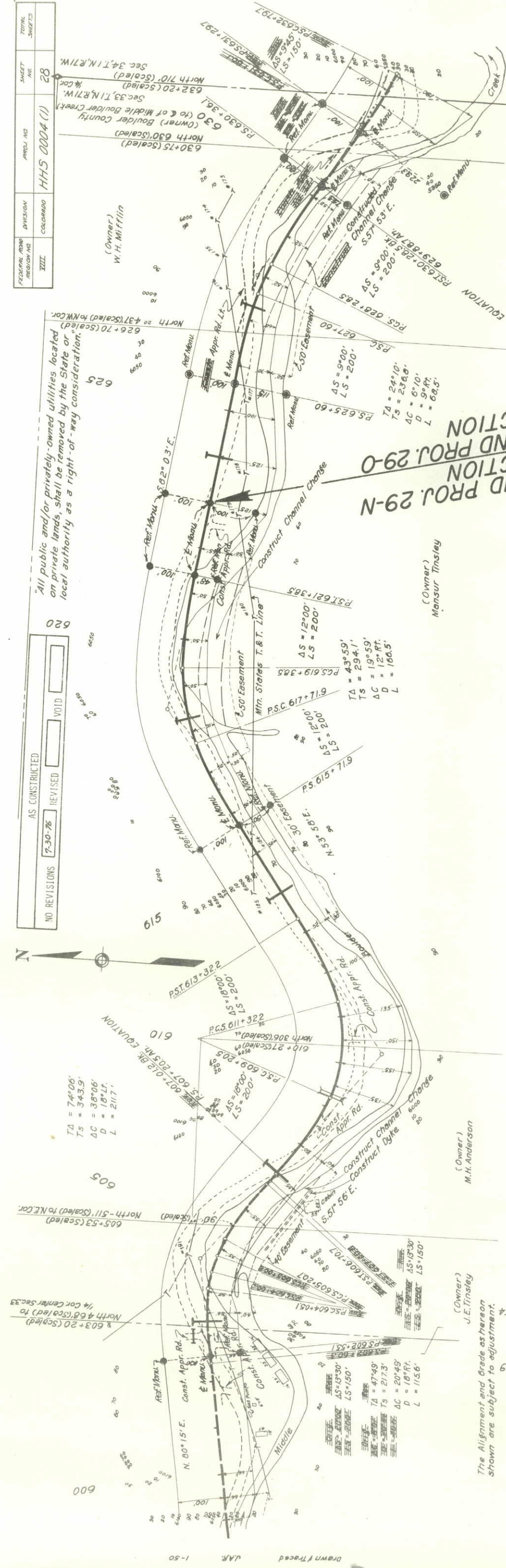
The Alignment and Grade as hereon shown are subject to adjustment.



Total Quantities shown

Station	Borrow	Uncl. Excav.	Embt.	Sel. Borrow	Channel Change
540	269 Cu. Yds.	7046 Cu. Yds.	3632 Cu. Yds.	484	
545					
550					
555					
560					
565					
570					

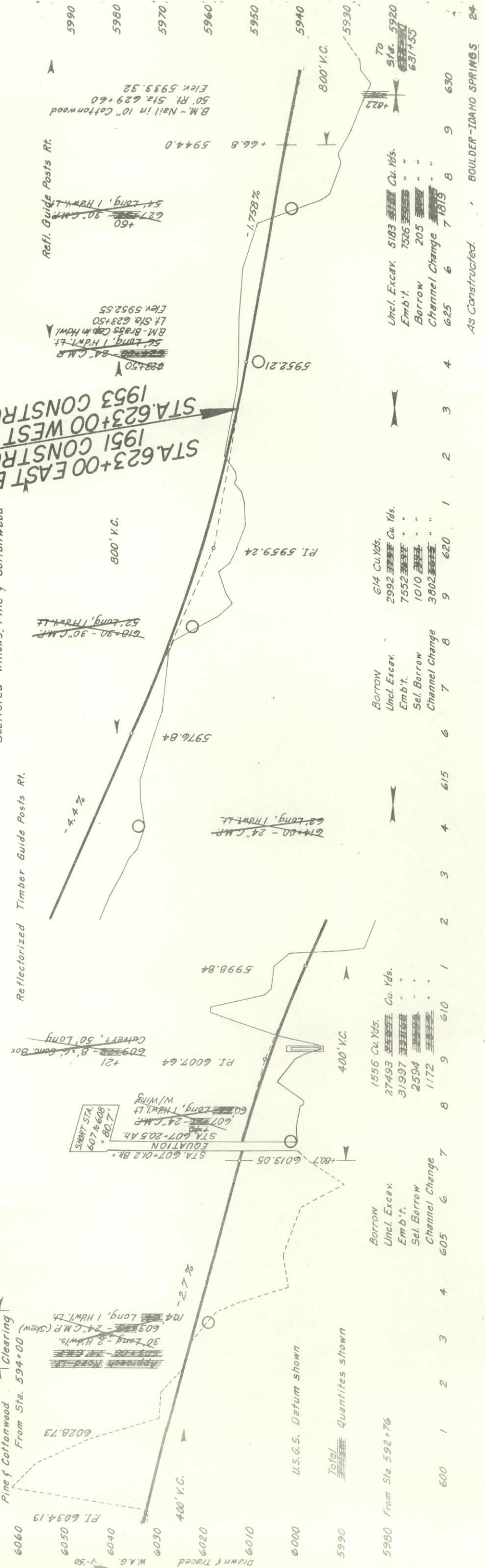
All public and/or privately-owned utilities located on private lands, shall be removed by the State or local authority as a right-of-way consideration.



The Alignment and Grade as hereon shown are subject to adjustment.

Reflectorized Timber Guide Posts Rt.

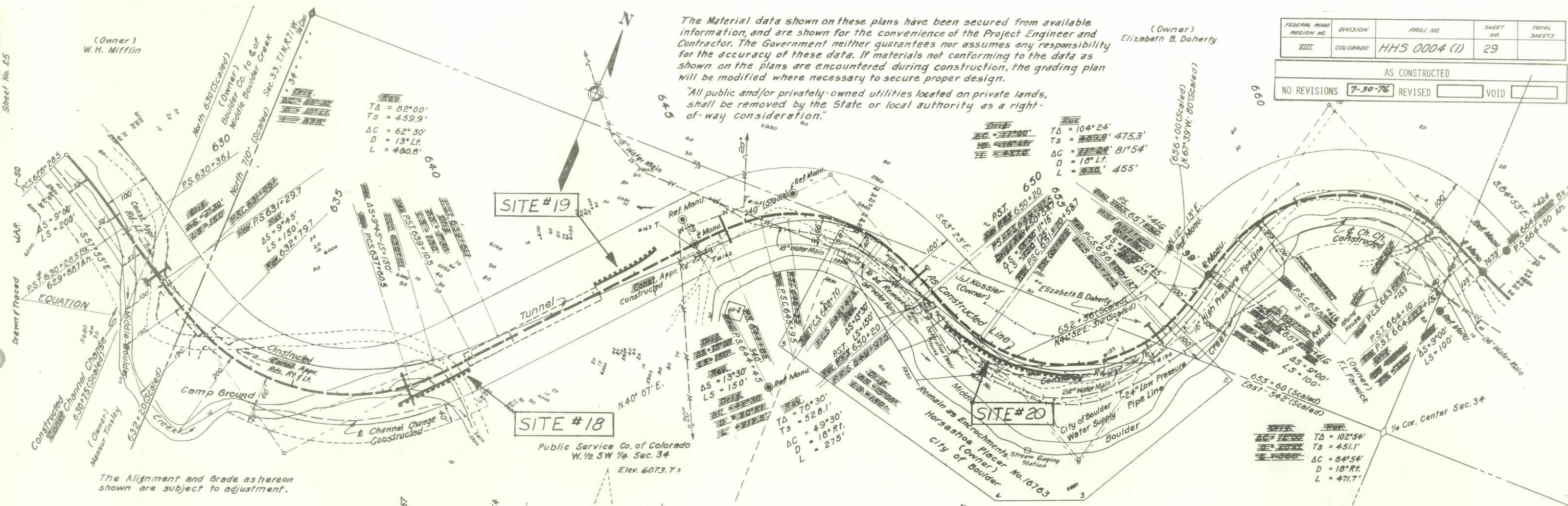
Scattered Willows, Pine & Cottonwood

[illegible]

Boulder - Idaho Springs, Colo. 25
Sta. 630+00 to Sta. 660+00
Sheet No. 25

M.U.E. 1949

M.U.E. 1949

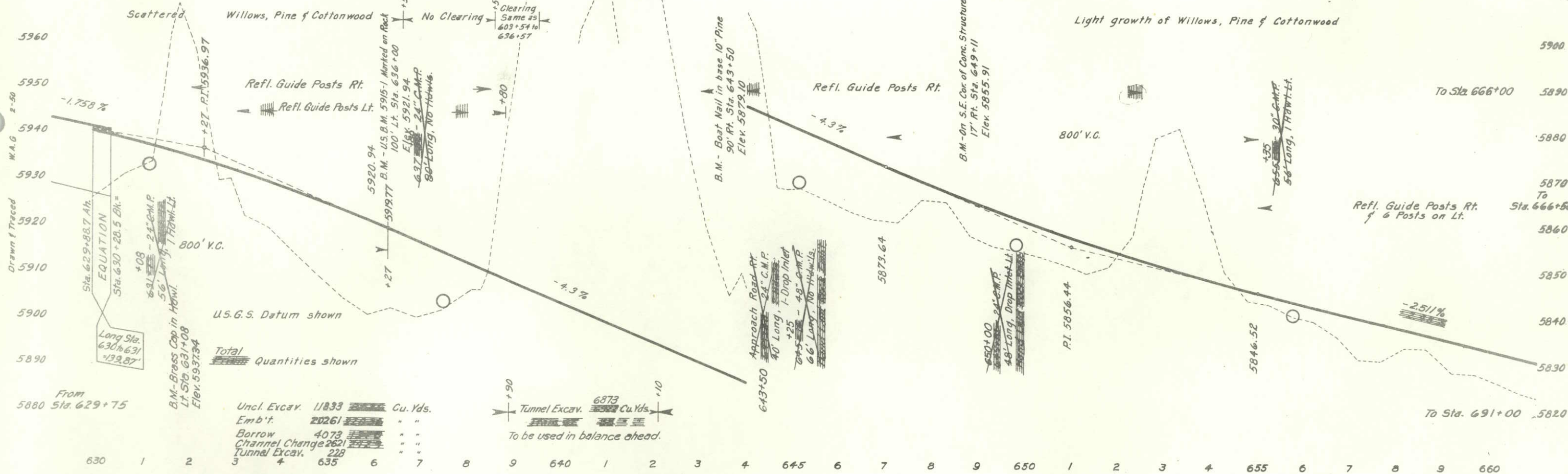


The Material data shown on these plans have been secured from available information, and are shown for the convenience of the Project Engineer and Contractor. The Government neither guarantees nor assumes any responsibility for the accuracy of these data. If materials not conforming to the data as shown on the plans are encountered during construction, the grading plan will be modified where necessary to secure proper design.

"All public and/or privately-owned utilities located on private lands, shall be removed by the State or local authority as a right-of-way consideration."

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	HHS 0004 (1)	29	

AS CONSTRUCTED			
NO REVISIONS	7-30-76	REVISED	VOID



Quantities shown

Uncl. Excav.	11833	Cu. Yds.
Emb't.	20261	" "
Borrow	4073	" "
Channel Change	2621	" "
Tunnel Excav.	228	" "

Tunnel Excav. 6873 Cu. Yds.
To be used in balance ahead.



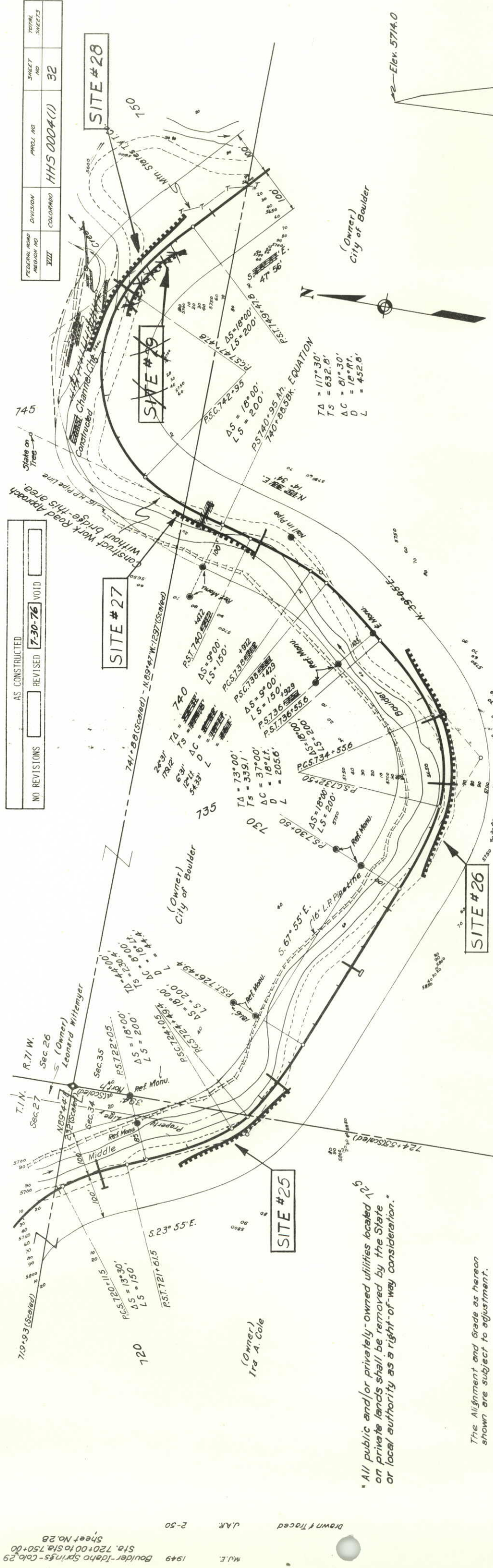
Light growth of Willows, Pine and Cottonwood



BOULDER-IDAHO SPRINGS 26

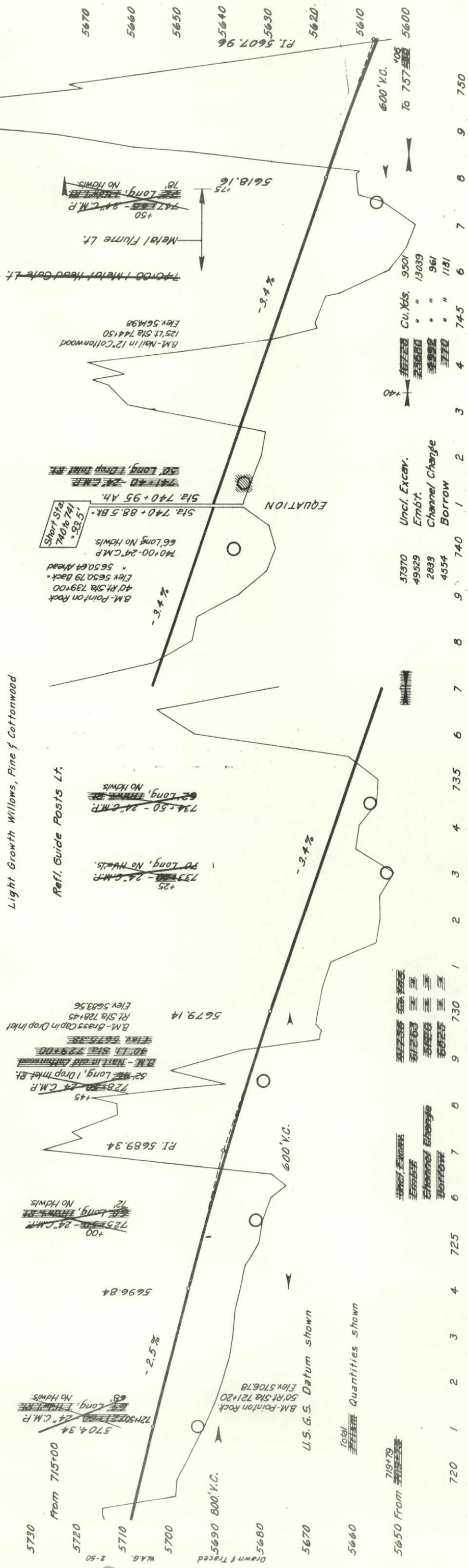
From	Std. 64.2+10	Uncl. Excav.	Emb't	Channel Change	Borrow	Cu. Yds.	From	Std. 64.2+10	Uncl. Excav.	Emb't	Channel Change	Borrow	Cu. Yds.	To	74.5+40															
690	1	2	3	4	695	6	7	8	9	700	1	2	3	4	705	6	7	8	9	710	1	2	3	4	715	6	7	8	9	720

FEDERAL ROAD REGION NO	DIVISION	PROJ. NO	SHEET NO	TOTAL SHEETS
VIII	COLORADO	HHS 0004(1)	32	

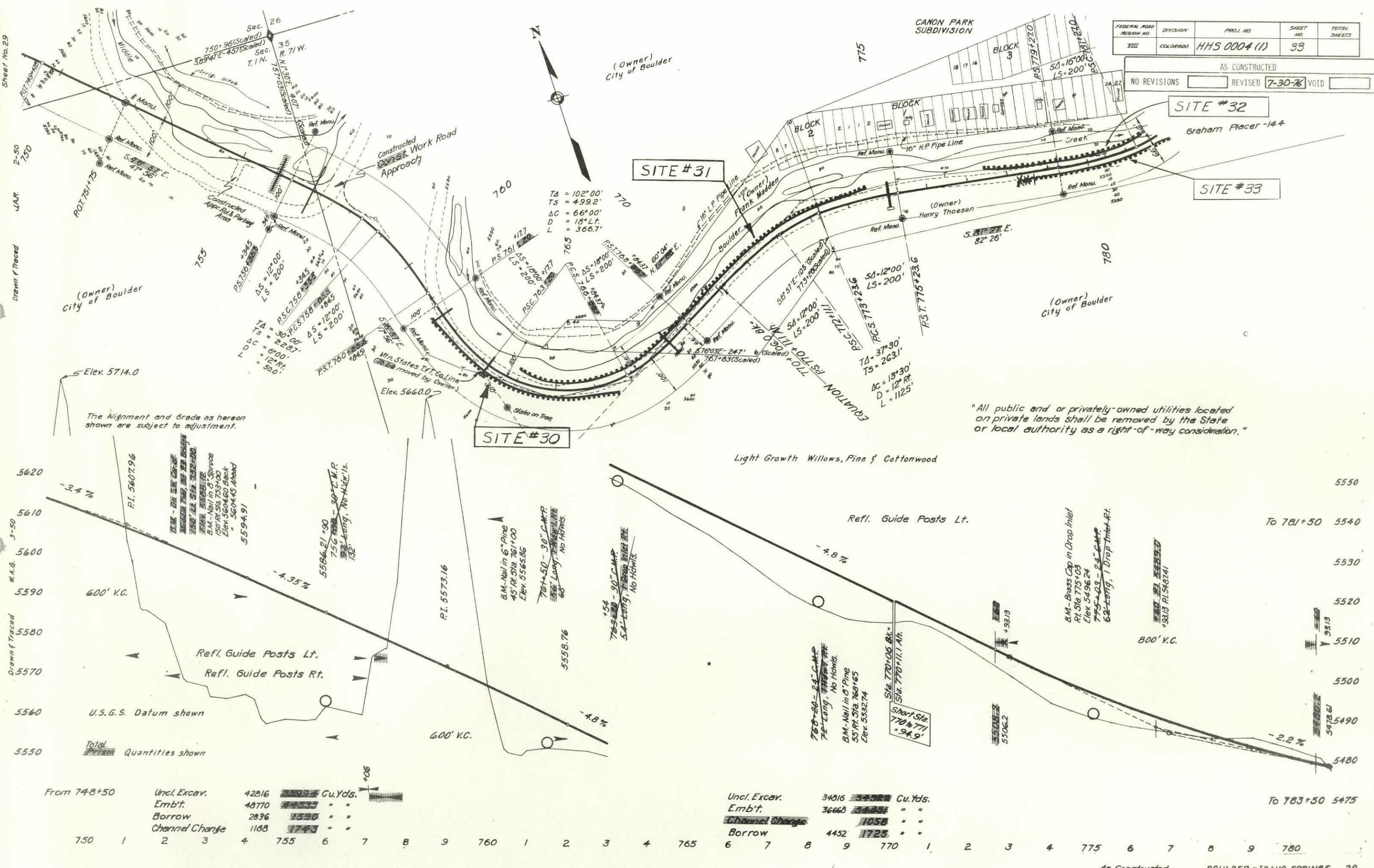


⁵ "All public and/or privately-owned utilities located on private lands shall be removed by the State or local authority as a right-of-way consideration."

The Alignment and Grade as hereon shown are subject to adjustment.



As Constructed.



FEDERAL ROAD DISTRICT NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	HHS 0004 (1)	33	

AS CONSTRUCTED	
NO REVISIONS	REVISED 7-30-76 VOID

From 748+50	Uncl. Excav.	42816	Cu. Yds.
	Emb't.	48770	" "
	Borrow	2836	" "
	Channel Change	1188	" "

Uncl. Excav.	34016	Cu. Yds.
Emb't.	36663	" "
Borrow	4452	" "

GRAHAM PLACER		
BLOCK No.	LOT No.	OWNER
4	1	H.J. Thoesen
4	2-6 Incl.	Mary E. Flynn
4	7-10 Incl.	H.J. Thoesen
5	1-8 Incl.	H.J. Thoesen
5	9 & 10	Waldo Bliss
5	11-13 Incl.	Mary E. Flynn
5	14-16 Incl.	H.J. Thoesen

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	HHS 0004(1)	34	

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Drawn & Traced
W.A.G. 9-54

SITE #32

SITE #33

The Alignment and Grade as hereon shown are subject to adjustments.

STA. 783+50 WEST END PROJ. 29-Q 1955 CONSTRUCTION

*7622	*7624	*7625
A-1-b	A-1-b	A-1-b
LL-23	LL-17	LL-27
PI-2	PI-NP	PI-5
*200-16	*200-16	*200-21

Ref'l. Guide Posts-Lt.

Ref'l. Guide Posts-Rt.

Scattered Cottonwood and Willows

AS CONSTRUCTED	
NO REVISIONS	REVISED 7-30-76

To Sta. 819+080 5480

ROAD APPROACHES

788+80 Road Appr. Lt.	5470
805+00 " " Lt.	5460
808+60 " " Lt.	5460

5480
5470
5460
5450
5440
5430
5420
5410

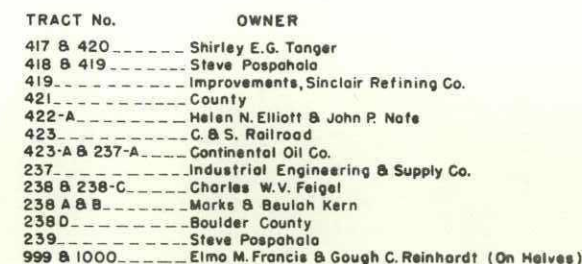
U.S.G.S. Datum shown.

Prism Quantities shown.

780 1 2 3 4 785 6 7 8 9 790 1 2 3 4 795 6 7 8 9 800 1 2 3 4 805 6 7 8 9 810

As Constructed - BOULDER - IDAHO SPRINGS

Drawn & Traced W.A.G. 1954



All public and/or privately-owned utilities located on private lands shall be removed by the State or local authority as a right-of-way consideration.

ROAD APPROACHES

811+75 - Road Appr. Rt.			
813+60 - " " "			
814+30 - " " "			
814+50 - " " Lt.			
815+60 - " " Rt.			
817+10 - " " "			
817+50 - " " "			
817+90 to 818+40 - " "			

