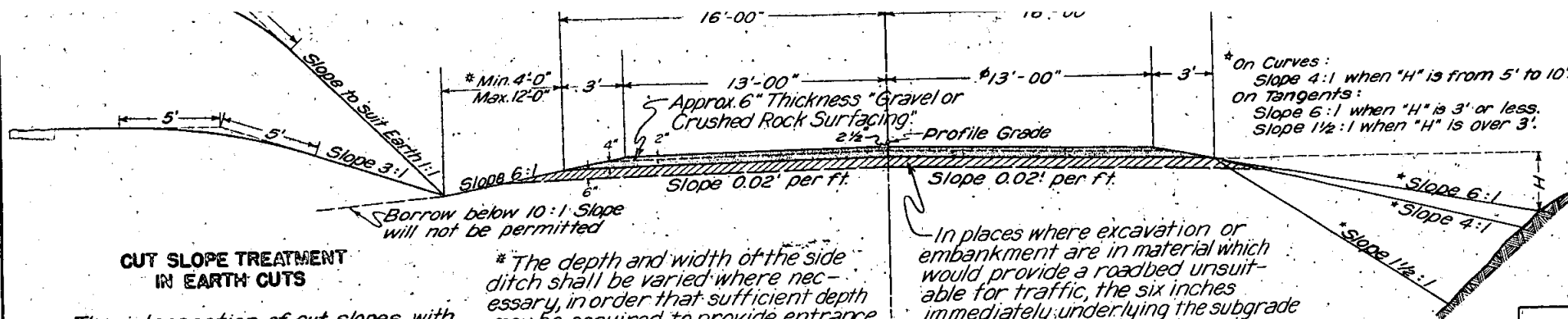




CUT SLOPE TREATMENT IN EARTH CUTS

The intersection of cut slopes with the existing ground shall be rounded in earth cuts beginning 5 ft. outside the slope stake and extending 5 feet down the cut slope. Where the cut slope is less than 5 ft. reduce each of the above widths of slope treatment to the actual slope distance. Quantities involved in cut slope treatment shall be included in and paid for as "Unclassified Excavation."

* The depth and width of the side ditch shall be varied where necessary, in order that sufficient depth may be acquired to provide entrance to cross drainage structures.

Surfacing approximately 6" in compacted thickness is to be placed in two courses and at the rate of 61 tons per 100 ft. of roadway for the 4" lower course and 28 tons per 100 ft. of roadway for the 2" upper course.

In places where excavation or embankment are in material which would provide a roadbed unsuitable for traffic, the six inches immediately underlying the subgrade as shown on the typical section, is to be constructed of selected material, which is to be classified and paid for as "Unclassified Excavation."

GENERAL NOTES

1/2 CUT SECTION 1/2 FILL SECTION

This Project is to be constructed in conformity with the Standard Specifications of the Colorado State Highway Department, adopted June 1, 1940.

All quantities on preliminary plans are to be considered approximate only.

All roadway excavation required to construct the project shall be obtained as indicated on the plans. Quantities involved beyond the limits of the ditch as shown on the Typical Section, and those quantities either noted on the plans as "Borrow" or on the List of Structures as "Embankment" are to be classified and paid for as "Unclassified Excavation."

These quantities are to be staked as part of the original excavation at locations indicated on the plans. Slope stakes beyond the limits of the typical ditch are subject to change by the Engineer to fit embankment requirements actually met during construction.

All curves are to be superelevated and widened in conformity with the Standard Superelevation and Widening Sheet unless otherwise noted on the plans.

All side approach roads to the Project shall be gravel surfaced with a 4" thickness of Gravel or Crushed Rock Surfacing extending approximately 30 feet from the edge of the roadway. Estimated tonnage of surfacing material required in this operation is shown in the List of Structures.

Unless otherwise noted on the plans all overhaul shall be measured along the centerline of the project.

All poles encroaching on the construction are to be moved by owners.

The entire project is to be cleared for variable widths which shall be held to a minimum required for the construction of the road, borrow pits, channel changes and for widths to accommodate visibility. Ordinarily clearing shall not extend more than 8 feet beyond the toes of the fills or the top of cut banks and the cost thereof included in the lump sum price for "Clearing and Grubbing the Entire Project."

No headwalls shall be used on Corrugated Metal Pipe Cross Culverts unless called for on the plans.

The ends of Corrugated Metal Culvert Pipes, which are not provided with headwalls, shall be covered with approximately 6" of embankment material in such manner that a minimum of metal will be exposed in the completed work. This shall be accomplished by warping embankment slopes around and adjacent to the culvert.

All trash, debris, railroad ties etc. lying within the limits of the right of way are to be burned, hauled away, or otherwise disposed of and the cost thereof shall be included in the lump sum price for "Clearing and Grubbing the Entire Project."

The present traveled road will be used for traffic during the construction of this project. At all places where construction encroaches on the present traveled roadway the Contractor shall, at his own expense, adequately provide for traffic and maintain in safe condition and at his own expense all temporary approaches to and crossings of intersecting roads. Structures to be removed are to be taken out only after they can no longer be used for detouring traffic during construction.

SELECTED MATERIAL

The 6 inches of material immediately underlying the "Gravel or Crushed Rock Surfacing" as shown on the Typical Section is to be constructed of selected material, which is to be classified and paid for as "Unclassified Excavation". This selected material is to be taken from pits designated or from other pits furnishing suitable material. The estimated overhaul on material is shown in the table below. If the contractor, for his own convenience, elects to use a plan other than this, overhaul in excess of that under the Departments plan will not be allowed.

SOURCE		LOCATION FOR PLACING STA. TO STA.	ESTIMATED QUANTITIES		
PIT NO.	LOCATION		CU. YDS.	STA. YDS.	YD. MI.
5	300' Lt. 682+00	951+00-960+63/1	627	6897	337
5	" "	960+63/1-792+80	9373	92379	5867
3	100' Lt. 876+25	792+80-839+71.5	3000	33000	2535
2	100' Lt. 920+00	839+71.5-890+65	3300	36300	2509
1	100' Rt. 970+00	890+65-979+21.4	5164	45555	2322
1	" "	979+21.4-980+81.3	* 94	* 565	
ENCR. Opposite 945+00	" "	890+65-979+21.4	574	5119	127
" "	" "	979+21.4-980+81.3	* 10	* 110	* 4
APPROACH TOTALS			* 104	* 675	* 4
PROJECT TOTALS			22,038	219,250	13,697
GRAND TOTALS			22,142	219,925	13,701

* Approach Quantities

to accommodate guard fences or posts at bridge approaches, embankments are to be so constructed that the finish point of the gravel shoulder shall be a minimum of three feet outside the curb line of the bridge. When widening of the section is necessary to meet this requirement it shall take place at a uniform rate over a distance of 300 ft.

SUMMARY OF APPROXIMATE QUANTITIES

No.	ITEM	UNIT	ROADWAY		BRIDGE Sta. 652+	BRIDGE Sta. 952+	TOTAL
			PROJECT				
10a	Clearing and Grubbing Entire Project	Lump Sum	0				0
11a	Remove Present R.R. Trestle, Sta. 652+	"			0		0
11b	Remove Present Highway Bridge, Sta. 645+	"				0	0
11c	Remove Present R.R. Trestle, Sta. 952+	"				0	0
11d	Remove Present Highway Bridge, Sta. 952+	"				0	0
11e	Removal of 15 Structures	Ea.	8				8
11f	Removing and Resetting Guard Posts	Cu. Yd.	180,000		400		180,400
13c	Unclassified Excavation	"	2,000				2,000
13d	Unclassified Ditch Excavation	"					
14a	Dry Rock Excavation (Structural)	"	210			5	215
14b	Dry Common Excavation (Structural)	"	485		85	255	825
14c	Wet Rock Excavation (Structural)	"	70		10	5	85
14d	Wet Common Excavation (Structural)	"	165		465	500	1,130
14e	Mechanical Tamping	Hour	230		75	100	405
18a	Station Yard Overhaul	Sta. Yd.	742,000				742,000
18b	Yard Mile Overhaul	Yd. Mi.	15,500				15,500
26a	Gravel or Crushed Rock Surfacing	Ton	31,000				31,000
26c	Overhaul of Surfacing	Ton Mi.	26,800				26,800
42a	Untreated Bridge Timber	Mft. bm.			0.5	0.6	1.1
46a	Class "A" Concrete	Cu. Yd.	25		227	351	583
46r	Class "A" Concrete (Handrails)	"			6	11	17
47	Reinforcing Steel	Lb.	900		22,300	45,200	68,400
48	Structural Steel	"			35,400	138,400	173,800
49	Cement Rubble Masonry	Cu. Yd.	33				33
50	Dry Rubble Masonry	"			55		55
53b	18" Corrugated Metal Culvert Pipe	Lin. Ft.	162				162
53c	24" " "	"	1,859				1,859
53d	30" " "	"	64				64
53e	36" " "	"	304				304
53h	54" " "	"	60				60
53i	72" " "	"	66				66
51	Relaying Pipe	"	70				70
92	Timber Guard Posts	Ea.	261				261
81a	Project Markers	"	2				2
81b	Right of Way Markers	"	80				80
89a	Drain Pipe (Concrete Floor 3'x4'-0")	"			4		4
89	Galvanized Curb Drain	"				4	4
FORCE ACCOUNT ITEMS							
	Obliterating Old Road	Lump Sum	0				0
	Moving Power Line (Work by Power Co. Forces)	"	0				0

LIST OF STRUCTURES CONT'D.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOT SHE
3	COLO.	233-E(1)	4	

Revised Totals - 6/13/40-H.R.H.

LOCATION	DESCRIPTION	REMOVE STRUCT. NO.	UNCLASSIFIED EXCAVATION CU. YDS.			STRUCTURAL EXCAVATION CU. YDS.			GRAV. OR CR. ROCK SURF. TONS	CONCRETE CU. YDS.		REINF. STEEL LBS.	CEMENT RUBBLE MASONRY CU. YDS.	CORR. METAL CULVERT PIPE LIN. FT.						MISCELLANEOUS	
			RDWY.	DITCH	EMB.	*					CL. "A"			CL. "B"	18"	24"	30"	36"	54"		72"
829+50-830+50 837+15 837+15	Drain Ditch on Lt. Remove 4'x4'x26' C.B.C. Lt. C.M.P. Cross Culv. with 1 Headwall and Inlet & Outlet Ditches	1		20																	
840+80 842+70 847+50	C.M.P. Cross Culv. with Intercepting Headwall and Inlet Ditch Remove 18"x28' C.M.P. Rt. C.M.P. Cross Culv. and Ditches	1		100		45				6.30		223				60					
853+00-853+80 854+00 853+50-859+50 854+00-856+50 859+25	Fill Hole on Lt. C.M.P. Cross Culv. and Inlet Ditch Channel Change Rt. Fill Hole at toe of slope on Lt. C.M.P. Cross Culv. with Intercepting Headwall and Ditches		5800	5	10	10							2.30		46						
862+50-867+00 866+00 868+30	Channel Change Rt. C.M.P. Cross Culv. and Inlet Ditch & Dike Remove 18"x26' C.M.P.	1	2500	10	40								2.30		50						
870+00 874+00-878+70 875+10 877+00 877+00	C.M.P. Cross Culv. with 1 Headwall and Ditches Channel Change Rt. Remove 24"x26' C.M.P. Lt. Remove 30"x32' C.M.P. Lt. C.M.P. Cross Culv. with 1 Headwall and Inlet Ditch	1	2200	15	15								2.05		46						
881+40 883+15	Remove 18"x24' C.M.P. Road Approach Rt.	1		25	10				10				2.80		64						
883+30 889+50 890+05 893+50-894+50 894+00 898+20	C.M.P. Cross Culv. (Skew 60° Rt.) with 1 Headwall and Ditches C.M.P. Cross Culv. and Ditches Remove 18"x24' C.M.P. Drain Ditch Lt. Drain Ditch through old R.R. fill Rt. C.M.P. Cross Culv. with 1 Headwall and Ditches	1		10	10	15							2.05		62						
904+90 909+50-917+25	Remove 18"x24' C.M.P. Drain Ditch Lt. C.M.P. Cross Culv. with 1 Headwall and Ditches C.M.P. Cross Culv. and Ditches Channel Change Rt.	1		35	15								2.05		52						
910+90 923+00-923+50 924+30 929+50-930+50 933+00 933+25 934+20 934+30	C.M.P. Cross Culv. Drain Ditch on Lt. C.M.P. Cross Culv. and Outlet Ditch Drain Ditch on Rt. C.M.P. Cross Culv. and Ditches Road Approach Lt. Remove Shed on Lt. Remove 24"x34' C.M.P. Rt.			10	20	35									74						
938+00 938+10 946+15 947+50-948+50 951+95.3-953+00	C.M.P. Cross Culv. and Ditches Remove 24"x26' C.M.P. Rt. Road Approach & C.M.P. Side Drain Lt. Drain Ditch Lt. Bridge; Remove old Bridge and Log Piers; Channel Improvement	1		30	30										60						
962+60 966+60 973+20	C.M.P. Cross Culv. & Outlet Ditch Road Appr. & C.M.P. Side Drain Rt. C.M.P. Cross Culv.; Dike & Ditches		200	10	5				10						30	66					
978+00 979+21.4 979+21.4-980+81.3	C.M.P. Cross Culv. & Outlet Ditch Project Marker Approach to Project			55	20										54					1 Project Marker	
APPROACH TOTALS				100	550	5			150												
PROJECT TOTALS			15	16005	1905	1585	920		435	2420		833	3300	162	1858	64	302	60	66		
GRAND TOTALS			15	16005	1905	1585	920		585	2420		833	3300	162	1858	64	304	60	66		

R.O.W. MARKERS

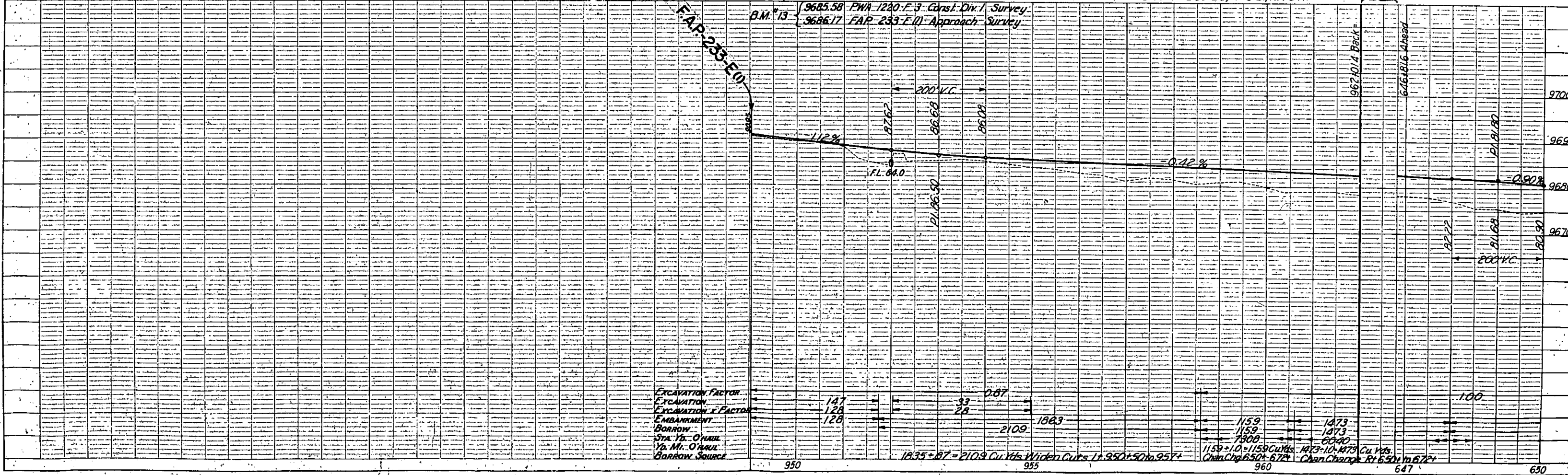
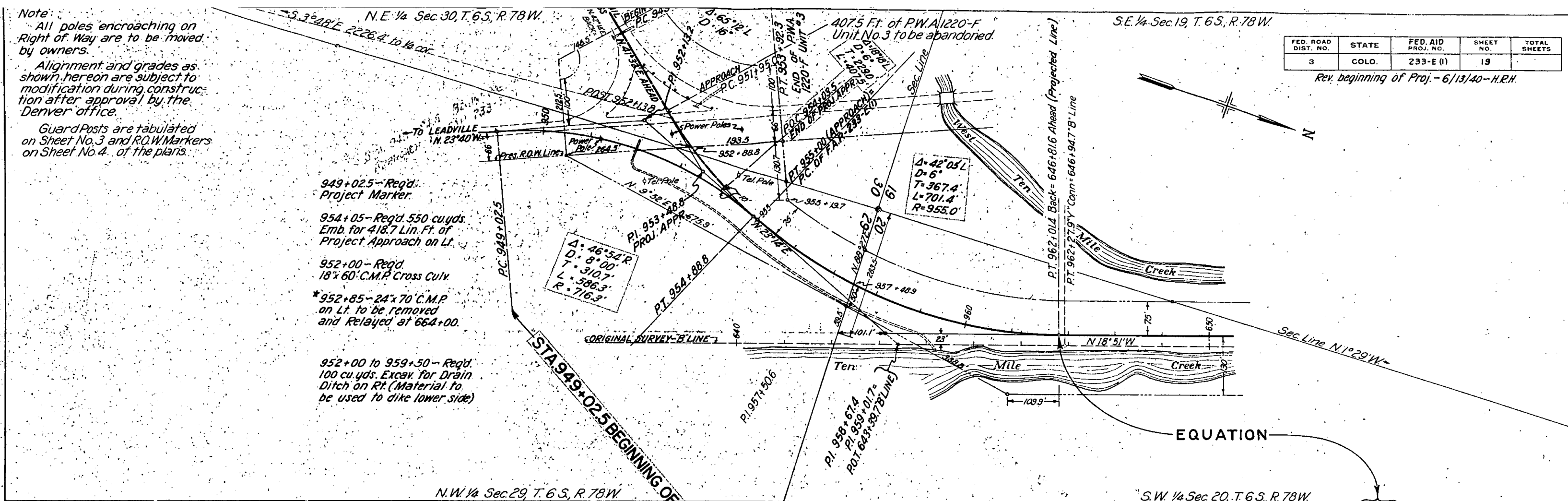
STATION	SIDE	No.	STATION	SIDE	No.
951+78	R	1	801+51	R&L	2
954+07	L	1	820+00	R	1
954+88	L	1	821+00	R	1
955+19.7	L	1	830+00	R	1
957+35	L	1	830+60	L	1
957+60	R	1	831+08	R	1
			837+54	R	1
961+00	R	1	838+74	L	1
649+20	L	1	841+75	L	1
654+00	L	1	846+62	L	1
655+00	L	1	851+70	R	1
655+78	R	1	858+16	R	1
670+10	R	1	863+95	L&R	2
670+56	L	1	874+00	R	1
672+00	L	1	879+00	R	1
686+00	L	1	881+50	R	1
687+00	L	1	894+58	R	1
698+70	L	1	895+28	L	1
699+52	R	1	896+16	L	1
701+00	L	1	897+43	R	1
703+50	L	1	910+19.5	R	1
703+58	R	1	914+49.5Bk	R	1
705+44	L	1	914+09.8Ah	R	1
708+69.7Bk	L	1	917+12	R	1
711+74.2Ah	L	1	917+95	L	1
714+50	L	1	918+00	R	1
728+50	R	1	928+00	L	1
738+90	R	1	929+00	L	1
739+85	L	1	941+16	L	1
740+67.7	L	1	942+08	R	1
748+00	L	1	952+82	R	1
749+10.7	L	1	953+22	L	1
752+00	R	1	954+00	L&R	2
753+15.7	R	1	979+21.4	L&R	4
756+23.3	R	1			
758+00	R	1			
769+25	R	1			
769+42	L	1			
776+00	R	1			
787+00	L	1			
788+00	L	1			
791+00	L	1			
792+00	L	1	GRAND TOTAL		80

* Structural Excavation is estimated to be 70% Common and 30% Rock; each of which is estimated to be 75% Dry and 25% Wet. * Included for payment in Profile Quantities.

Note:
All poles encroaching on Right of Way are to be moved by owners.
Alignment and grades as shown hereon are subject to modification during construction after approval by the Denver office.
Guard Posts are tabulated on Sheet No. 3 and R.O.W. Markers on Sheet No. 4 of the plans.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	233-E (1)	19	

Rev. beginning of Proj. - 6/13/40 - H.R.H.

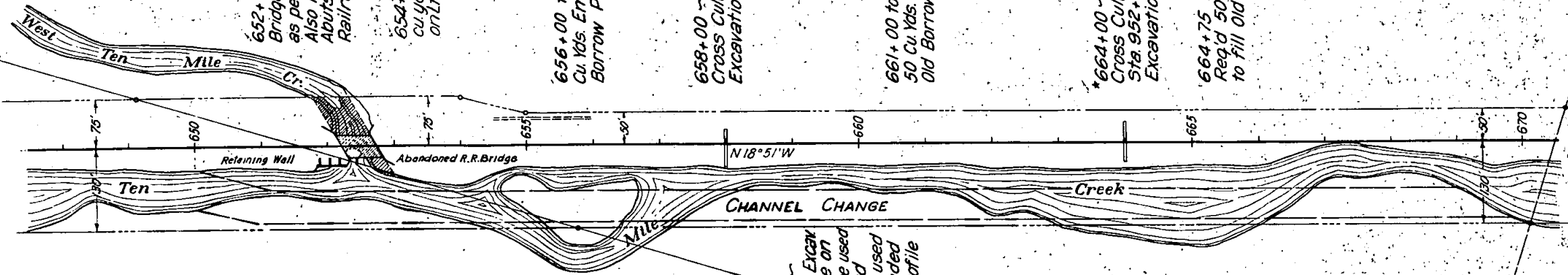


NO. _____
REV. OF WAY CHECKED _____

NOTE: BOULDER REMOVAL CHECKED _____
C. M. A. PHOTO _____
STRUCTURE NOTATION CH. NO. _____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	233-E (1)	20	

62' 00" 61'



652+230 to 652+725 - Req'd Bridge and Channel Improvement as per details on Sheet Nos. 10-12. Also Remove Present Bridge and Abuts. and Benits of Abandoned Railroad Bridge.

654+50 to 656+00 - Req'd 15 cu yds. Excav for Drain Ditch on Lt.

656+00 to 657+00 - Req'd 50 Cu Yds. Embankment to fill Old Borrow Pit on Lt.

658+00 - Req'd 24' x 58' C.M.P. Cross Culvert and 10 Cu Yds. Excavation for Inlet.

661+00 to 662+00 - Req'd 50 Cu Yds. Embankment to fill Old Borrow Pit on Lt.

*664+00 - Relay 24' x 70' C.M.P. Cross Culvert removed from Sta 952+15. Also Req'd 15 Cu Yds. Excavation for Ditches.

664+75 to 665+25 - Req'd 50 Cu Yds. Embankment to fill Old Borrow Pit on Lt.

650+00 to 672+00 - Req'd 17,900 Cu Yds. Excav for Channel Change on Rt (405 Cu Yds to be used to dike Channel and 17,495 Cu Yds to be used as Borrow and included for Payment in Profile Quantities.)

Sec. Line N. 1° 29' W. (calc.)

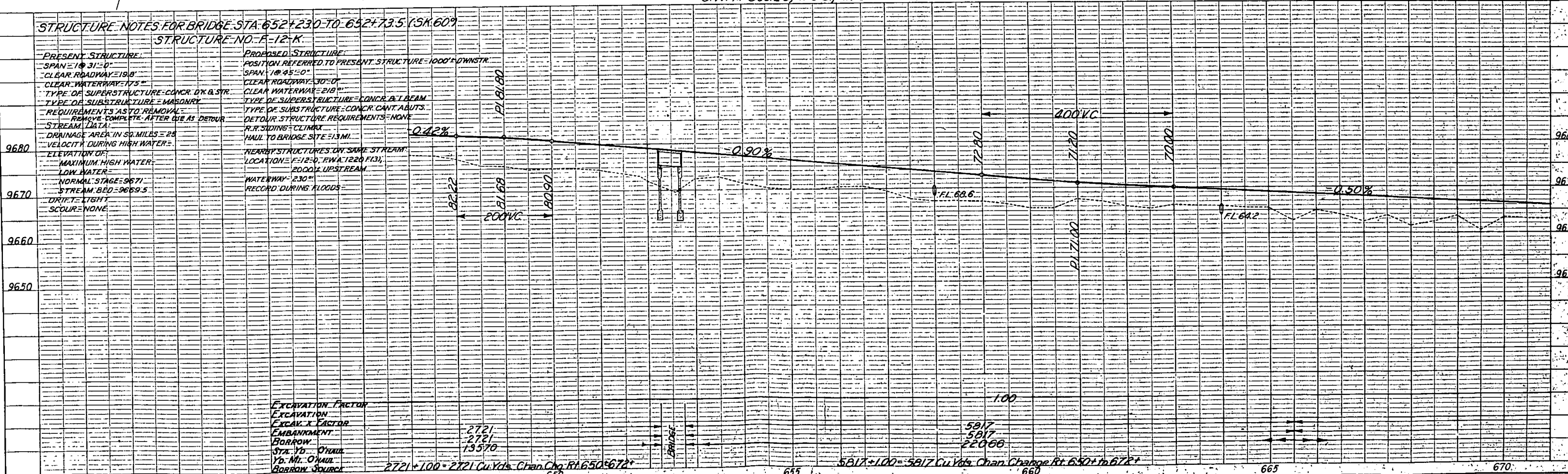
1/4 Line S. 88° 21' W. (calc.)

S.W. 1/4 Sec. 20, T. 6 S., R. 78 W.

STRUCTURE NOTES FOR BRIDGE STA. 652+230 TO 652+73.5 (SK 609)
STRUCTURE NO. F-12-K

PRESENT STRUCTURE:
SPAN = 1 @ 31'-0"
CLEAR ROADWAY = 19'-8"
CLEAR WATERWAY = 17'-5"
TYPE OF SUPERSTRUCTURE = CONCR. D.K. & STR.
TYPE OF SUBSTRUCTURE = MASONRY
REQUIREMENTS AS TO REMOVAL - REMOVE COMPLETE AFTER USE AS DETOUR
STREAM DATA:
DRAINAGE AREA IN SQ. MILES = 25
VELOCITY DURING HIGH WATER =
ELEVATION OF:
MAXIMUM HIGH WATER =
LOW WATER =
NORMAL STAGE = 9671
STREAM BED = 9669.5
DRIFT - LIGHT
SCOUR - NONE

PROPOSED STRUCTURE:
POSITION REFERRED TO PRESENT STRUCTURE = 1000' DOWNSTR.
SPAN = 1 @ 45'-0"
CLEAR ROADWAY = 30'-0"
CLEAR WATERWAY = 21'-0"
TYPE OF SUPERSTRUCTURE = CONCR. B.T. BEAM
TYPE OF SUBSTRUCTURE = CONCR. CANT. ABUTS.
DETOUR STRUCTURE REQUIREMENTS = NONE
R.R. SIDING = CLIMAX
HAUL TO BRIDGE SITE = 13 MI.
NEARBY STRUCTURES ON SAME STREAM:
LOCATION = F-12-K, RWA 1220 FK(3), 2000' UPSTREAM
WATERWAY = 230'
RECORD DURING FLOODS =



Excavation Factor
Excav. x Factor
Embankment
Borrow
Sta. Yd. O'Haul
Yd. M. O'Haul
Borrow Source

2721
2721
13570

2721+100 = 2721 Cu Yds. Chan. Chg. Rt. 650+ to 672+

5817
5817
22066

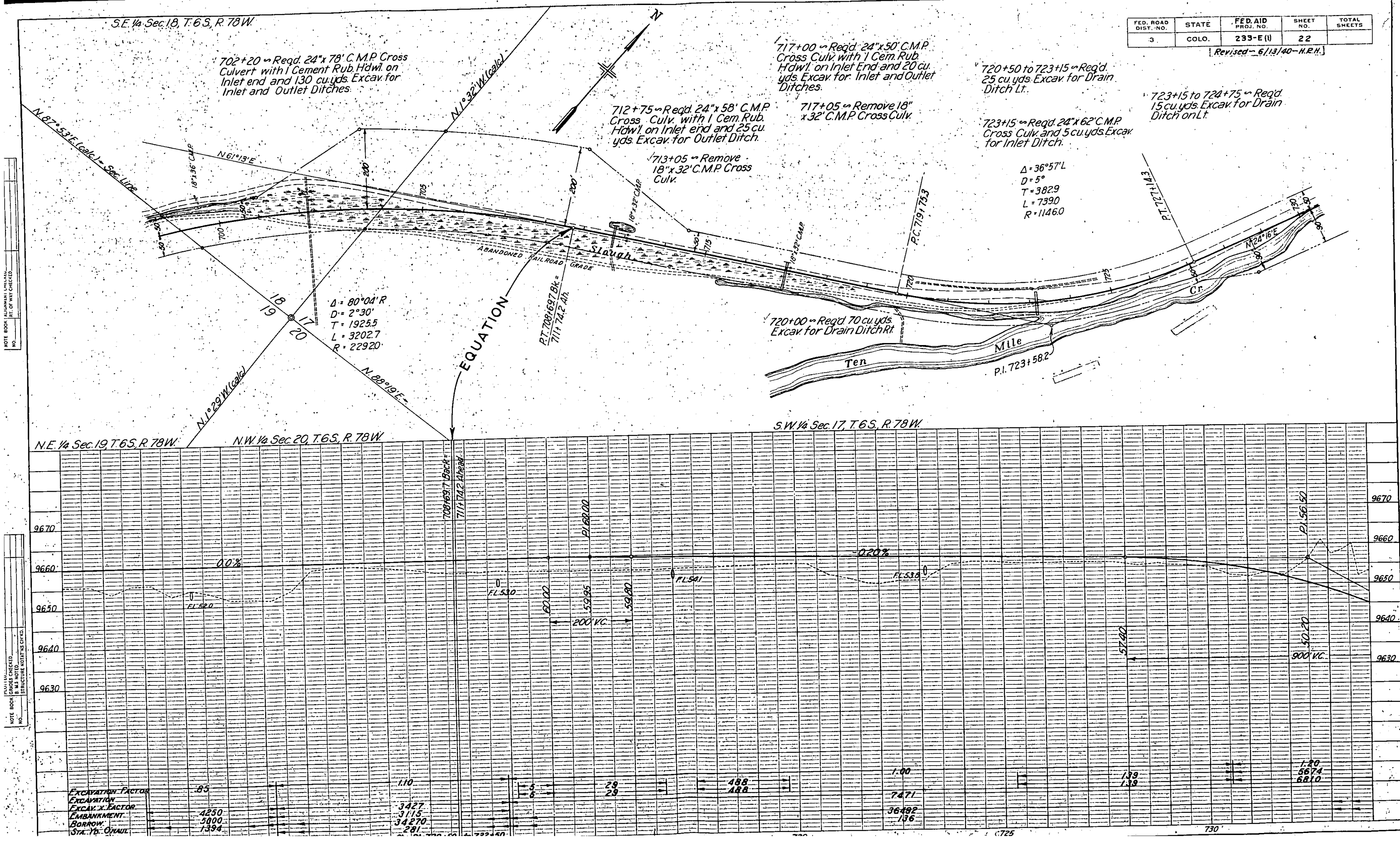
5817+100 = 5817 Cu Yds. Chan. Change Rt. 650+ to 672+

655

660

665

670

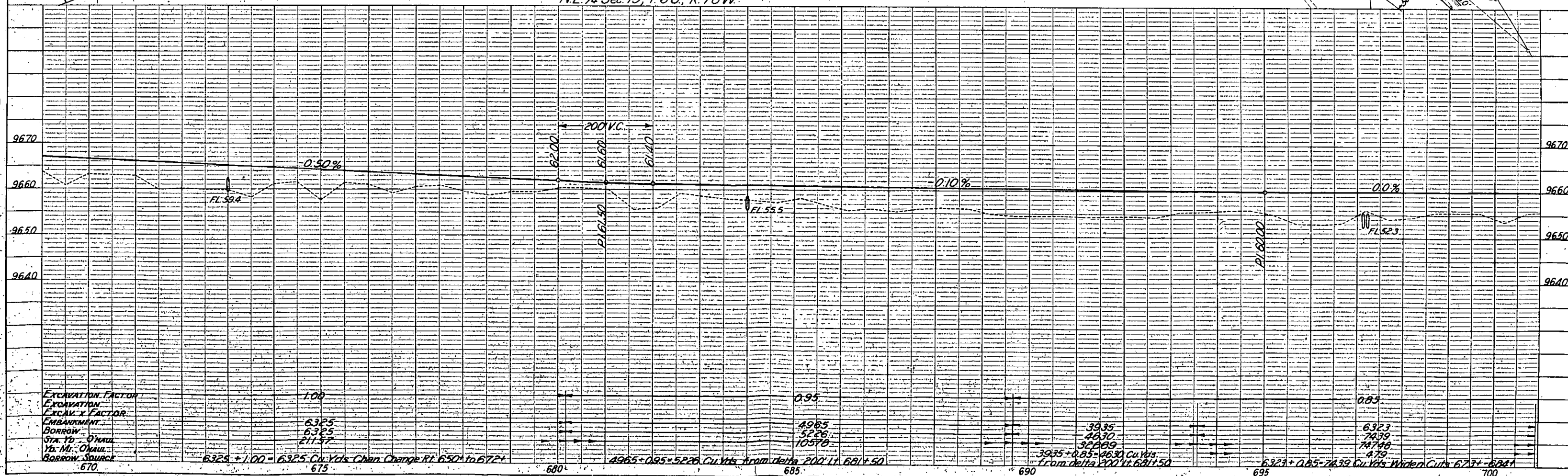
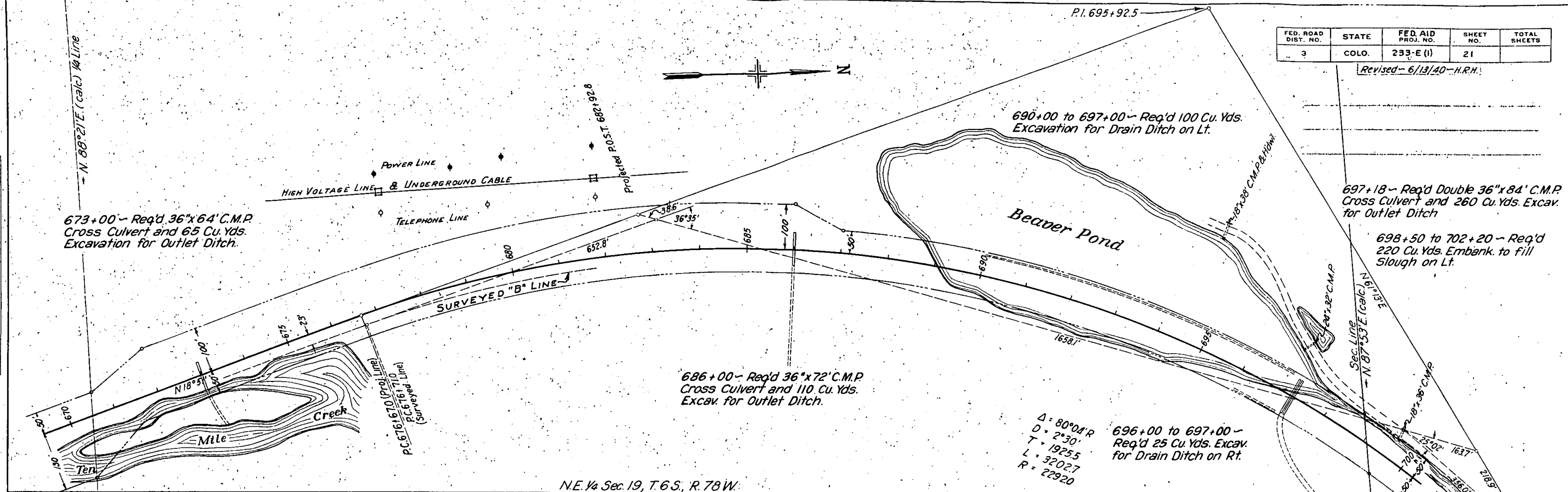


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	233-E (I)	21	

Revised - 6/13/40 - H.R.H.

NOTED
ALIGNED
CHECKED
RT. OF WAY CHECKED
NO.

NOTED
GRADES CHECKED
8" M.A. NOTED
STRUCTURE NOTING CHKD.
NO.



729+50 to 732+50 ~ Req'd. 3115 cu.yds. Excav. for Channel Change on Rt. (Included for payment in Profile quantities)

730+00 ~ Req'd. 24"x48" C.M.P. Cross Culv. with 1 Cement Rub. Headwall and 5 cu.yds. Excav. for Inlet Ditch.

730+20 ~ Remove 18"x24" C.M.P. Culv. on Lt.

742+15 ~ Req'd. 24"x100" C.M.P. Cross Culv. with 1 Cem. Rub. Hdwl. and 40 cu.yds. Excav. for Ditches.

744+00 to 748+15 ~ Req'd. 35 cu.yds. Excav. for Intercept Ditch on Lt.

748+15 ~ Req'd. 24"x52" C.M.P. Cross Culv. with 1-Cem. Rub. Intercept. Hdwl. and 10 cu.yds. Excav. for Inlet Ditch

754+63 ~ Req'd. 24"x46" C.M.P. Cross Culv. with 1-Cem. Rubble Intercept. Hdwl. and 5 cu.yds. Excav. for Inlet Ditch.

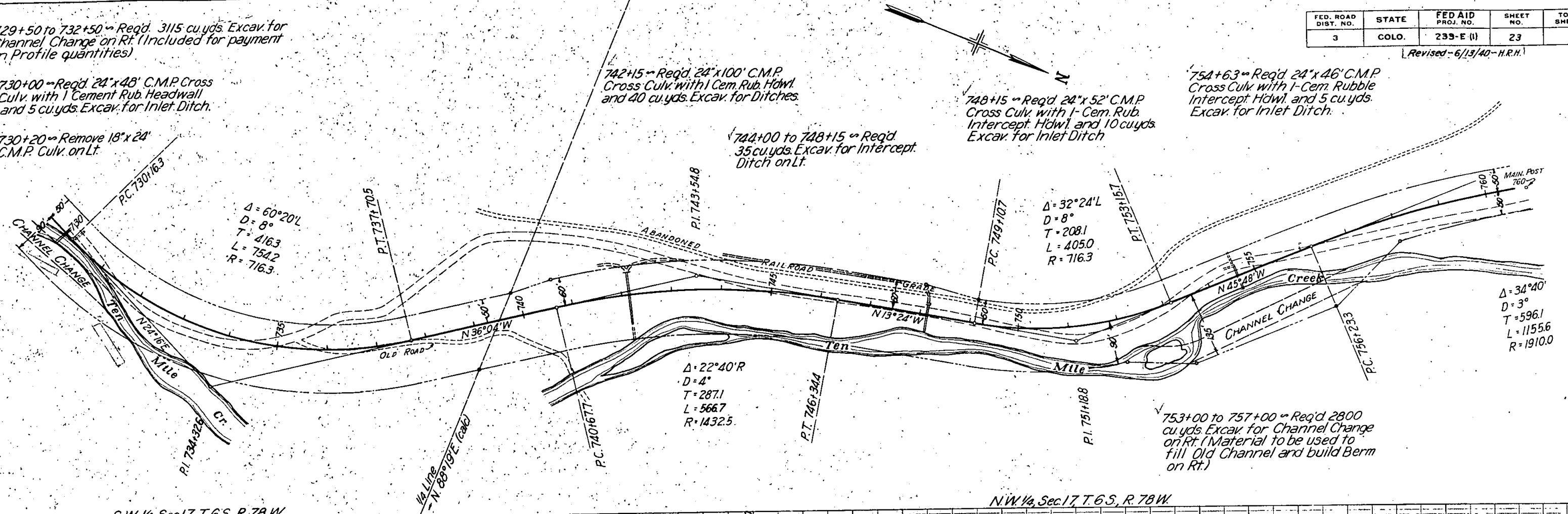
753+00 to 757+00 ~ Req'd. 2800 cu.yds. Excav. for Channel Change on Rt. (Material to be used to fill Old Channel and build Berm on Rt.)

FED. ROAD DIST. NO.	STATE	FED AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	239-E (II)	23	

Revised - 6/13/40 - H.R.H.

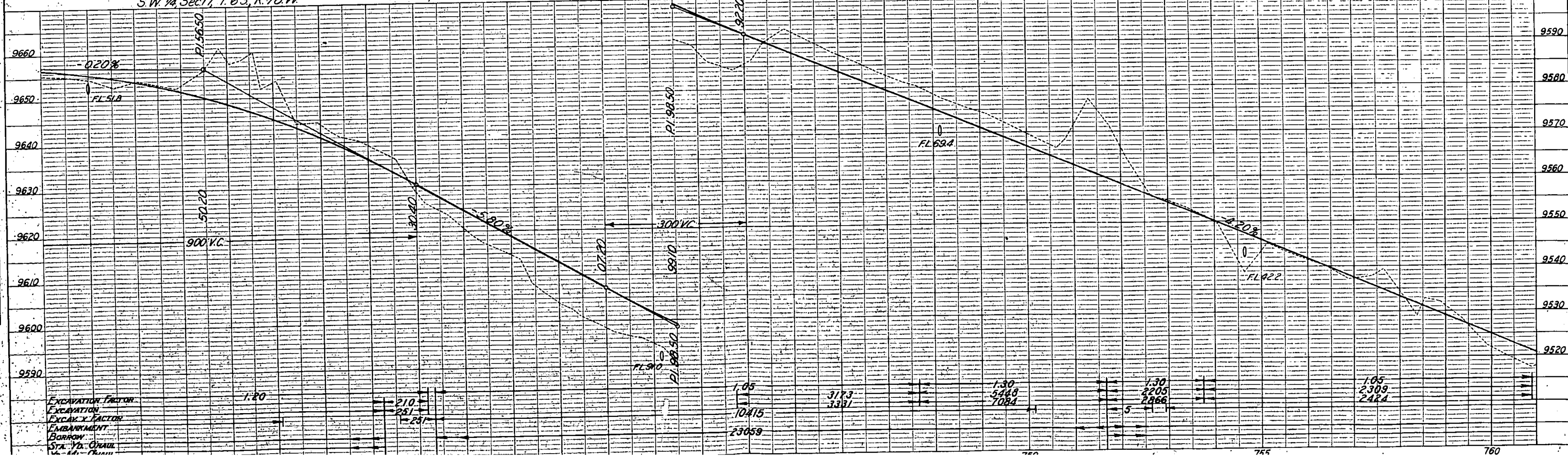
NOTE: DOOR ALIGNMENT CHECKED BY RT. OF WAY CHECKS NO.

NOTE: BOOK GRADES CHECKED BY G. M. J. NOTED. STRUCTURE NOTATION CH. NO.



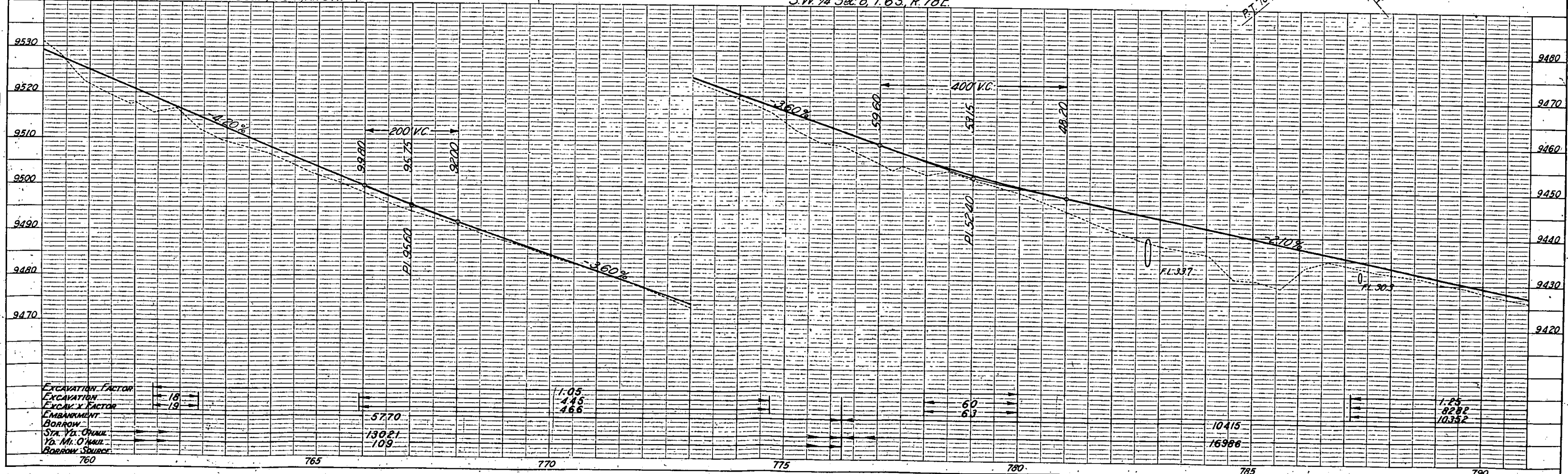
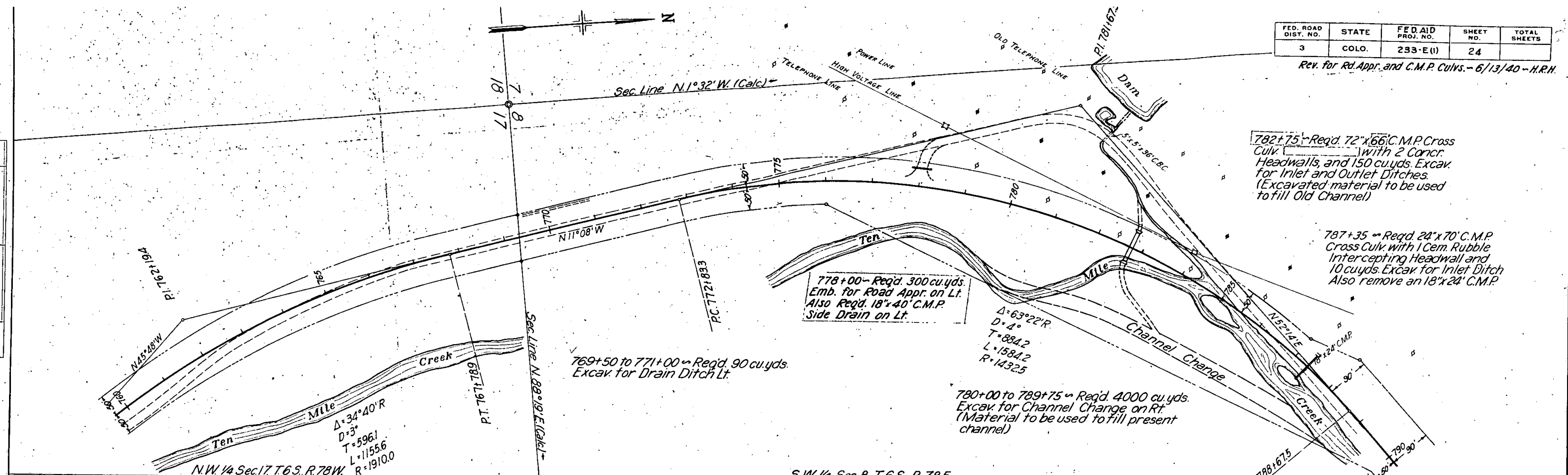
S.W. 1/4, Sec. 17, T. 6 S., R. 78 W.

N.W. 1/4, Sec. 17, T. 6 S., R. 78 W.

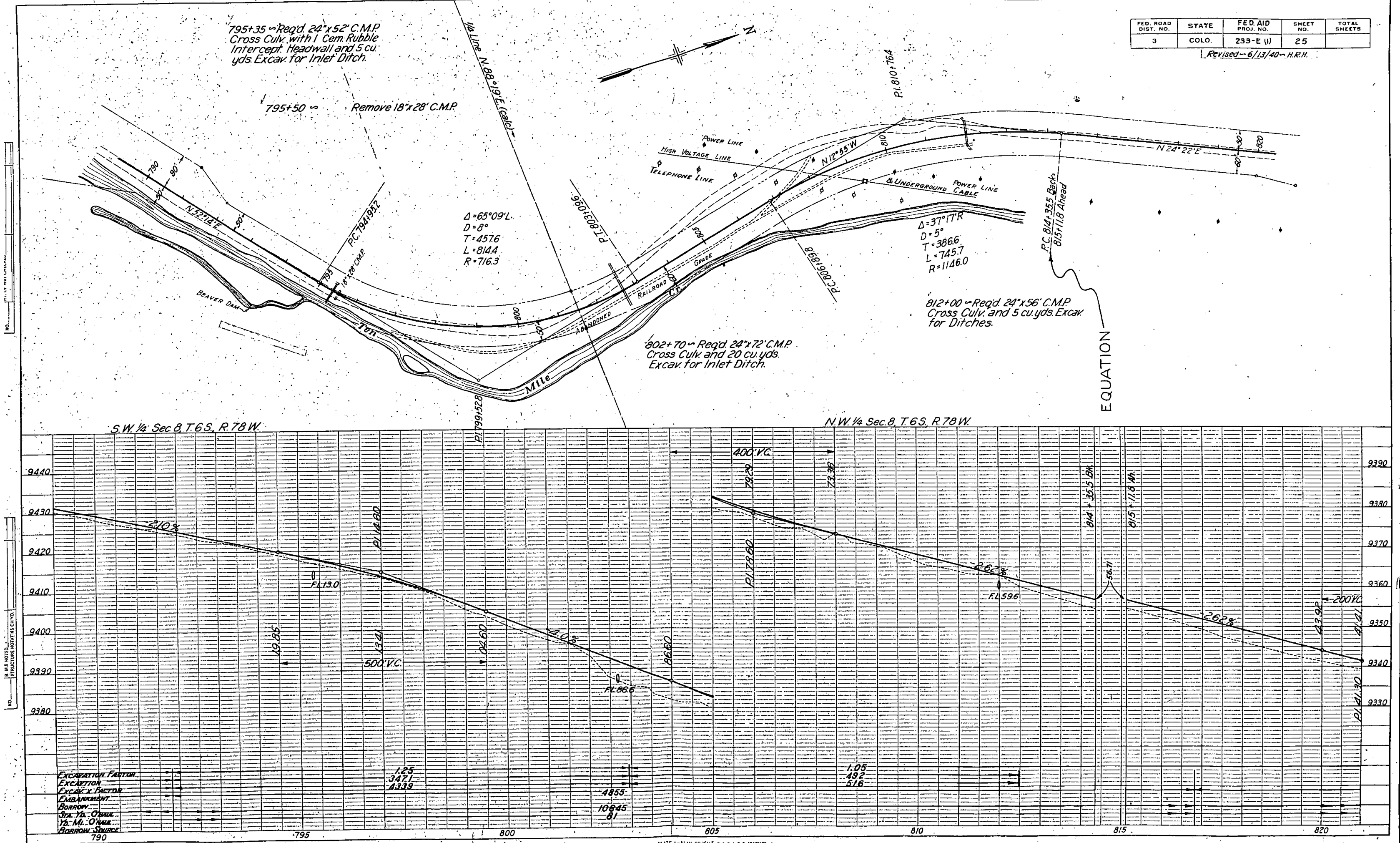


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	233-E(1)	24	

Rev. for Rd. Appr. and C.M.P. Culvs. - 6/13/40 - H.R.H.



Revised - 6/13/40 - H.R.H.



S.W. 1/4 Sec. 5, T. 6 S., R. 78 W.

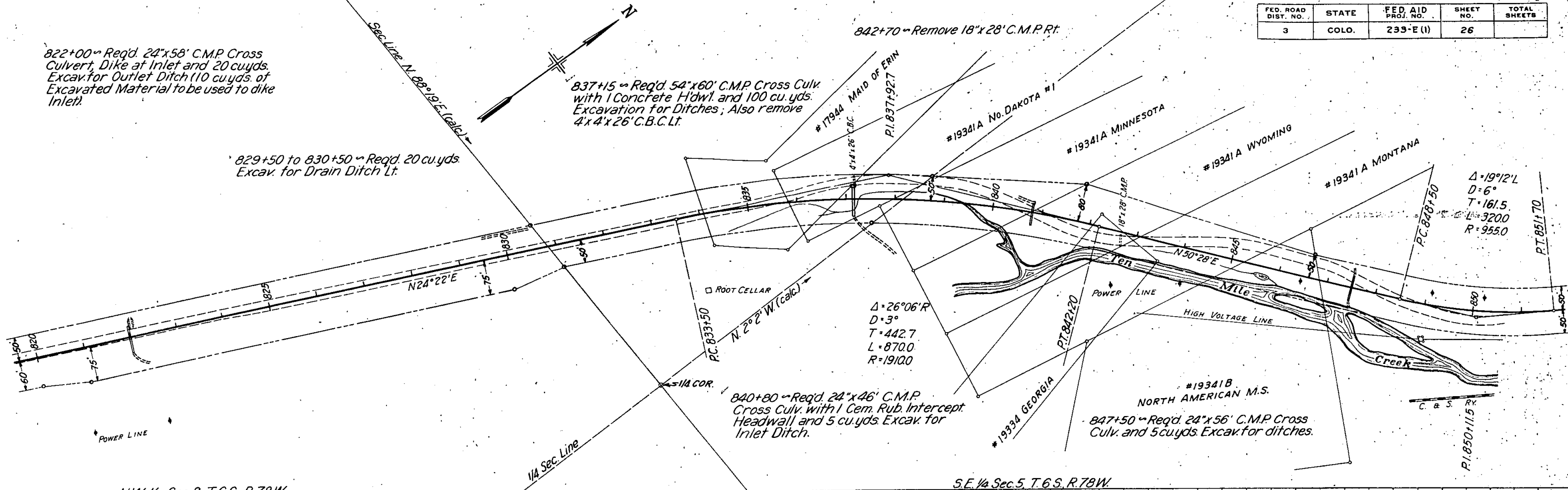
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	239-E (I)	26	

822+00 ~ Req'd. 24"x58' C.M.P. Cross Culvert, Dike at Inlet and 20 cu.yds. Excav. for Outlet Ditch (10 cu.yds. of Excavated Material to be used to dike Inlet).

829+50 to 830+50 ~ Req'd. 20 cu.yds. Excav. for Drain Ditch Lt.

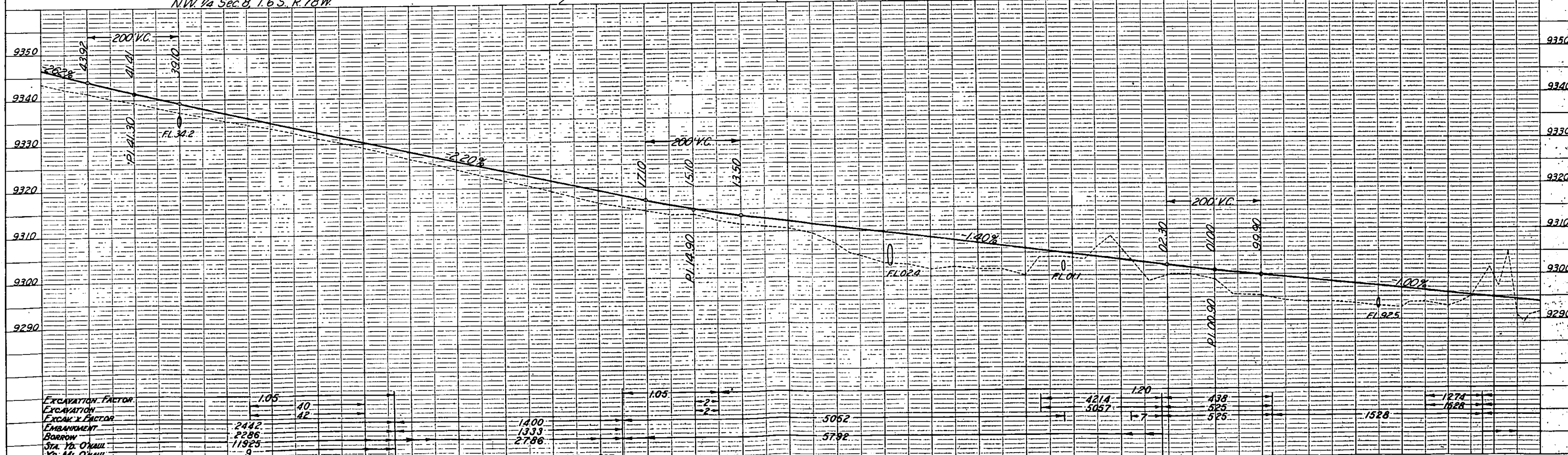
837+15 ~ Req'd. 54"x60' C.M.P. Cross Culv. with 1 Concrete Hdwl. and 100 cu. yds. Excavation for Ditches; Also remove 4'x4'x26' C.B.C. Lt.

842+70 ~ Remove 18"x28' C.M.P. R.I.



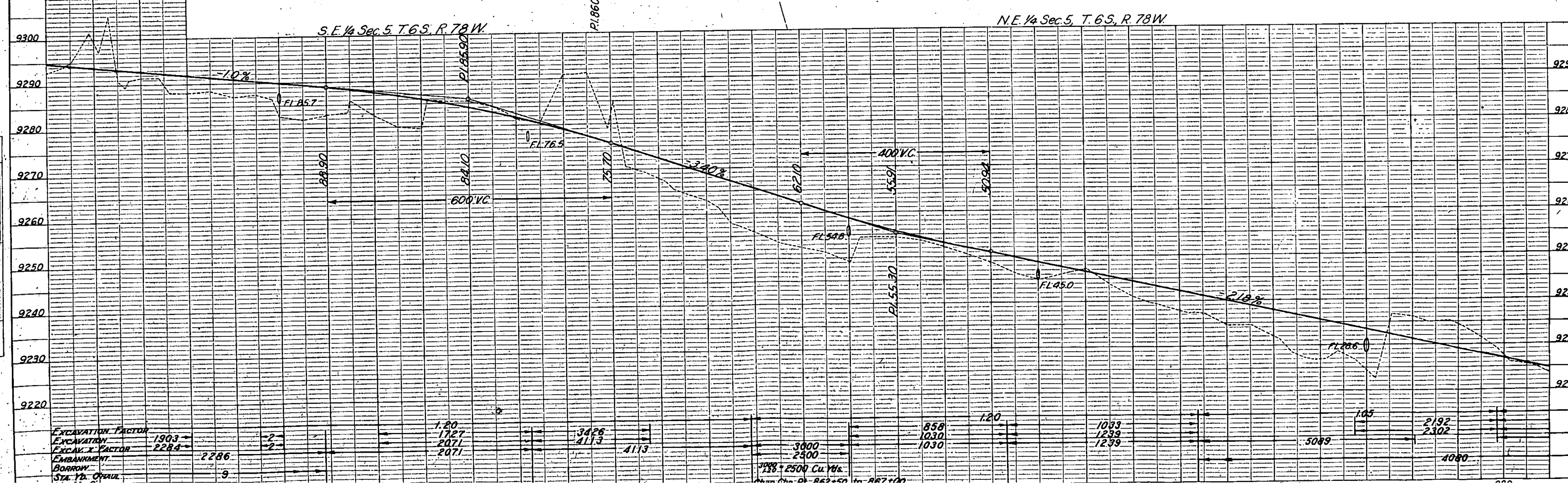
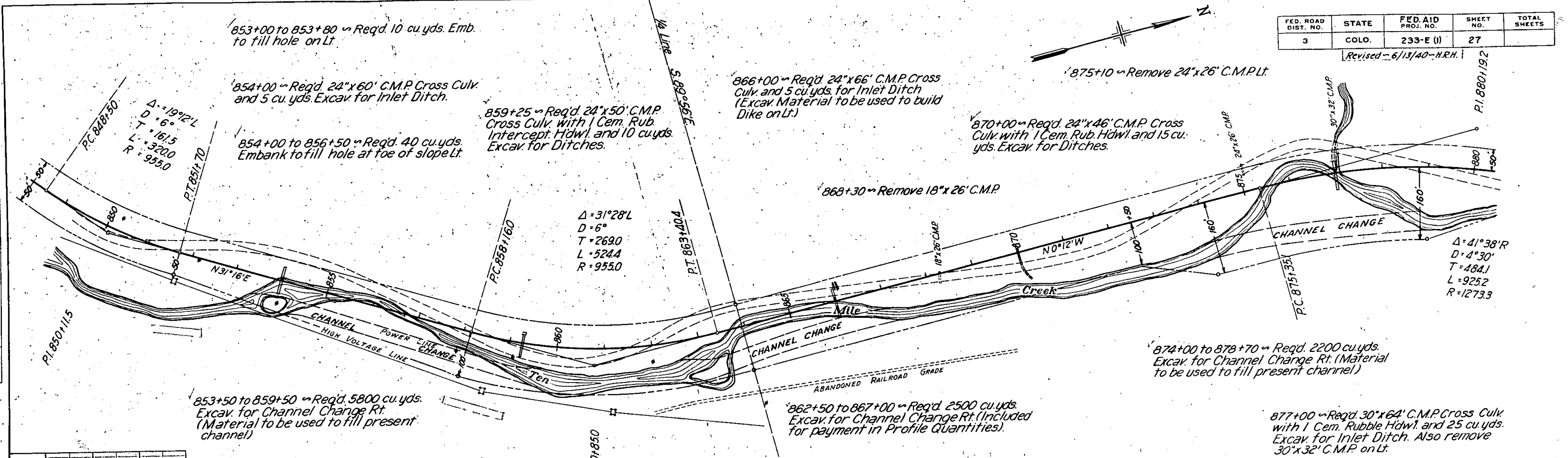
N.W. 1/4 Sec. 8, T. 6 S., R. 78 W.

S.E. 1/4 Sec. 5, T. 6 S., R. 78 W.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	233-E (II)	27	

Revised 6/13/40-H.R.H.



N.E. 1/4 Sec. 5, T. 6 S., R. 78 W.

S.E. 1/4 Sec. 33, T. 5 S., R. 78 W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	233-E (1)	28	

883+30 ~ Req'd. 24"x 62' C.M.P. Cross Culv. (Skew 60° Rt.) and 10 cu.yds. Excav. for Ditches. Also 1 Cem. Rubble Headwall.

881+40 ~ Remove 18"x 24' C.M.P. Rt.

883+15 ~ Req'd. 30 cu.yds. Embank. for Road Approach Rt.

893+50 to 894+50 ~ Req'd. 25 cu.yds. Excav. for Drain Ditch Lt.

894+00 ~ Req'd. 5 cu.yds. Excav. for Drain Ditch through old R.R. Fill on Rt.

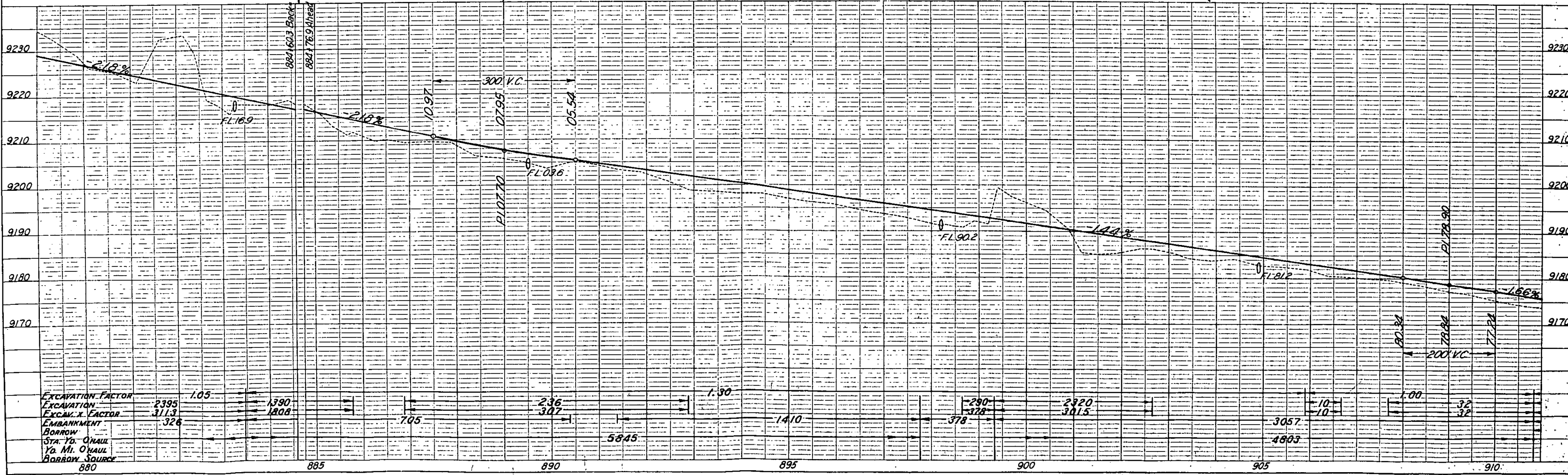
898+20 ~ Req'd. 24"x 52' C.M.P. Cross Culv. with 1 Cem. Rub. Hdwl. and 10 cu.yds. Excav. for Ditches.

904+90 ~ Req'd. 24"x 58' C.M.P. Cross Culv. and 5 cu.yds. Excav. for Ditches.

889+50 ~ Req'd. 24"x 52' C.M.P. Cross Culv. and 35 cu.yds. Excav. for Ditches.

890+05 ~ Remove 18"x 24' C.M.P. Rt.

N.W. 1/4 Sec. 4, T. 6 S., R. 78 W.



EXCAVATION FACTOR
EXCAVATION
EXCAV. X FACTOR
EMBANKMENT
BORROW
STA. TO CHAUL
Yd. MI. CHAUL
BORROW SOURCE

2395
3113
326

1.05
1.05
1.05

1390
1808

236
307

1410

378

290
328

2320
3015

3057
4803

80.24
70.24

32.32

1.00

1.00

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S.E. 1/4 Sec. 33, T.5S, R.78W.

S.W. 1/4 Sec. 34, T.5S, R.78W.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	293-E (I)	29	

910+90 ~ Req'd. 24"x74" C.M.P. Cross Culvert.

923+00 to 923+50 ~ Req'd. 10 cu.yds. Excav. for Drain Ditch Lt.

Sec Line N.0°32'W. (Calc.)

924+30 ~ Req'd. 24"x76" C.M.P. Cross Culv. and 15 cu.yds. Excav. for Outlet Ditch.

933+25 ~ Req'd. 125 cu.yds. Embank. for Road Approach Lt.

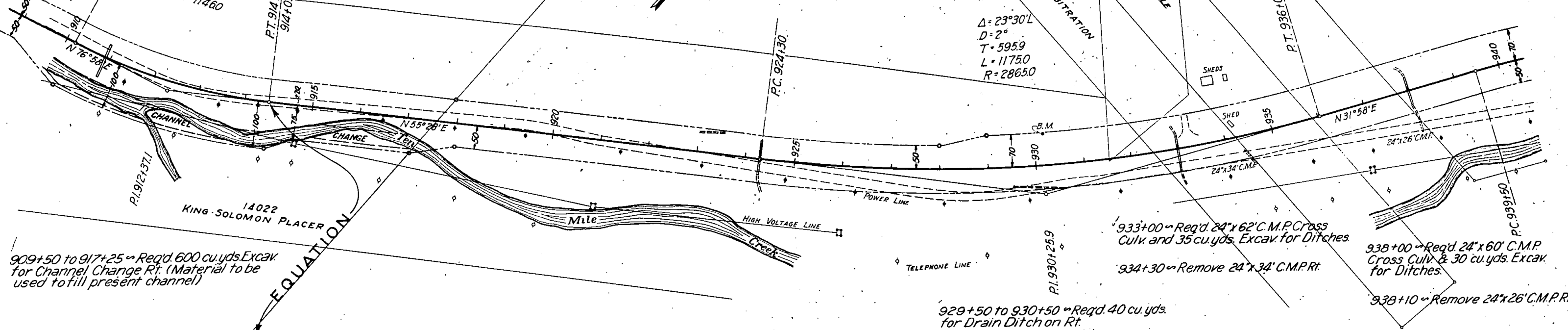
934+20 ~ Remove Shed on Lt.

$\Delta = 21^{\circ}30' L$
 $D = 5^{\circ}$
 $T = 217.6$
 $L = 430.0$
 $R = 11480$

P.T. 914+49.5 Back = 914+09.8 Ahead

$\Delta = 23^{\circ}30' L$
 $D = 2^{\circ}$
 $T = 595.9$
 $L = 1175.0$
 $R = 28650$

P.T. 936+05.0



909+50 to 917+25 ~ Req'd. 600 cu.yds. Excav. for Channel Change Rt. (Material to be used to fill present channel)

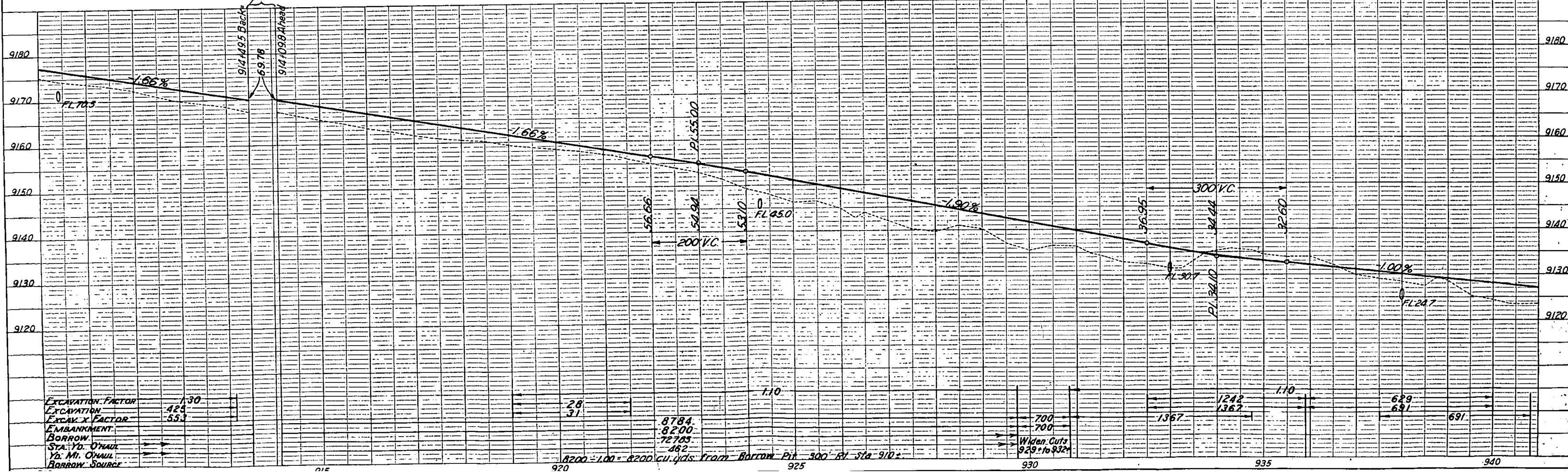
933+00 ~ Req'd. 24"x62" C.M.P. Cross Culv. and 35 cu.yds. Excav. for Ditches

934+30 ~ Remove 24"x34" C.M.P. Rt.

938+00 ~ Req'd. 24"x60" C.M.P. Cross Culv. & 30 cu.yds. Excav. for Ditches.

938+10 ~ Remove 24"x26" C.M.P. Rt.

929+50 to 930+50 ~ Req'd. 40 cu.yds. for Drain Ditch on Rt.



EXCAVATION FACTOR	1.30
EXCAVATION	425
EXCAV. X FACTOR	553
EMBANKMENT	
BORROW	
STA. YD. O'HALL	
YD. MI. O'HALL	
BORROW SOURCE	

8200 = 100' = 8200 cu.yds. from Borrow Pit 300' Rt. Sta 910+

700
700
Widen Cuts
929+70 to 932+

1367

1242
1362

629
631

691

940

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	233-E (1)	31	

FLORA PLACER
1362

978+00 ~ Req'd. 24'x54' C.M.P. Cross
Culv. and 55 cu. yds. Excav. for Outlet
Ditch.

$\Delta = 11^\circ 44' L$
 $D = 2^\circ$
 $T = 294.4$ 294.36
 $L = 586.7$
 $R = 2865.0$

FRISCO

AVE.

MAIN STREET

THIRD

EQUATION IN BEARING
 $N 78^\circ 44' E$ Bk. $N 79^\circ 06' E$
Ref. points for Monument

973+20 ~ Req'd. 24'x58' C.M.P. Cross
Culv. and 5 cu. yds. Excav. for Ditches.
(Excavated Material to be used to
build Dike on Rt)

979+21.4 ~ Req'd. Project Marker.
979+21.4 to 980+81.3 ~ Req'd 224
cu. yds. Excav. for Approach to
Project (Included for Payment
in Profile Quantities)

N.E. 1/4 Sec. 34, T.5S, R.78W.

N.W. 1/4 Sec. 35, T.5S, R.78W.

