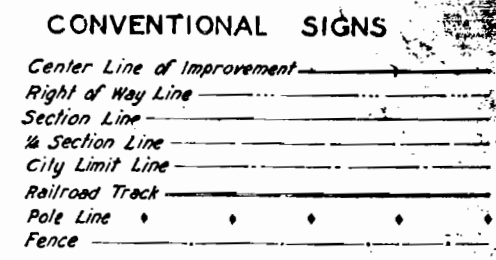


COLORADO STATE HIGHWAY DEPARTMENT PLAN AND PROFILE OF PROPOSED U. S. P. W. PROJECT N.R.H.-248-F AND N.R.M.-248-H STATE HIGHWAY NO. 4 LAKE COUNTY

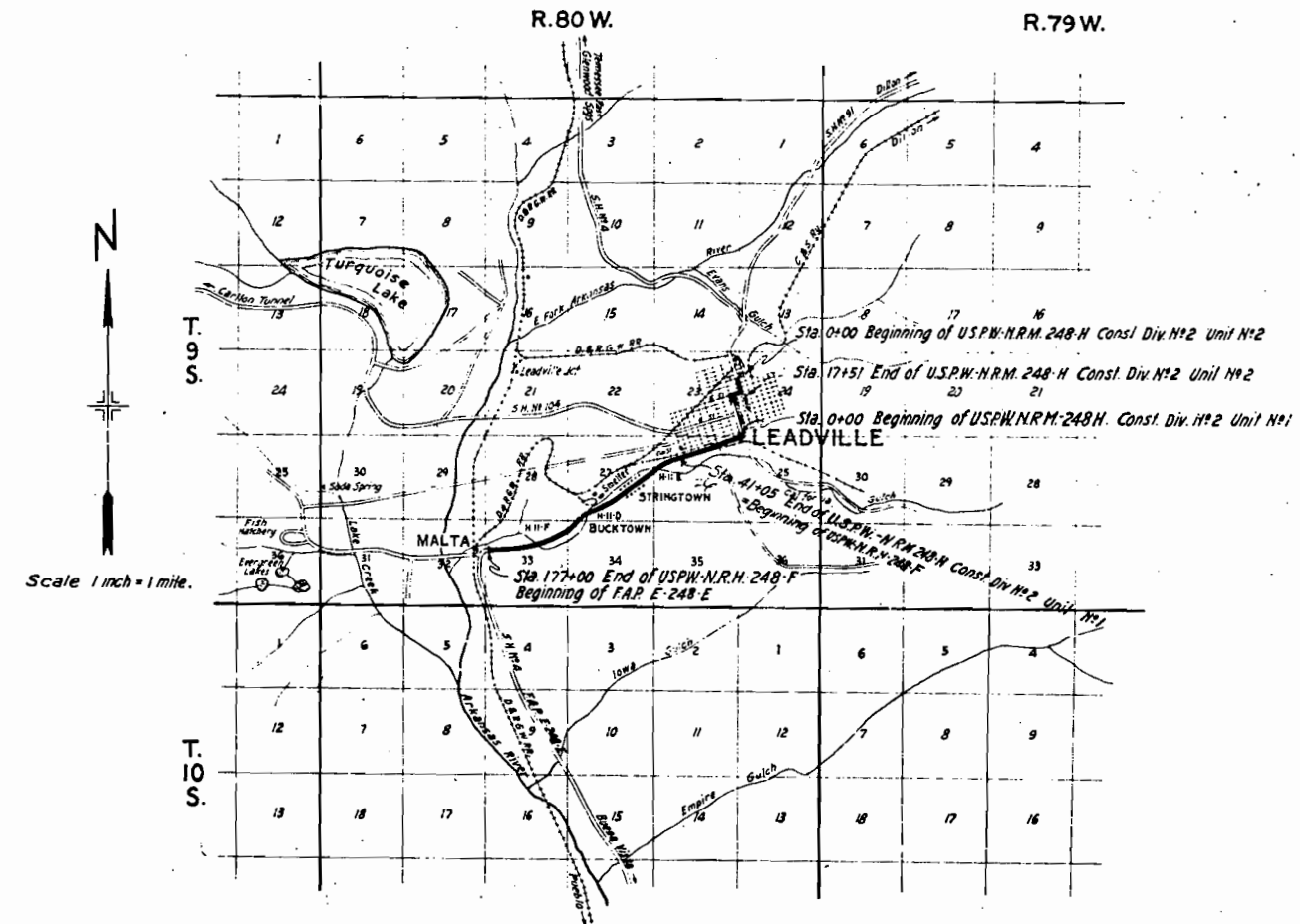
INDEX OF SHEETS

1	Title Sheet and Sketch Map	
2	Typical Section of Improvement and Summary of Quantities	
3	Details of Bridge Sta. 107+	
4	" " Sta. 60+ and Sta. 143+	M-1-A
5	Standard Superelevation of Curve Sheet	M-20-F
6	Standard Wire Cable Guard Fence	
7	Standard Wire Fences and Marker Posts	M-24-F
8-13	Plan and Profile Sheets.	
14-41	Cross Section Sheets.	

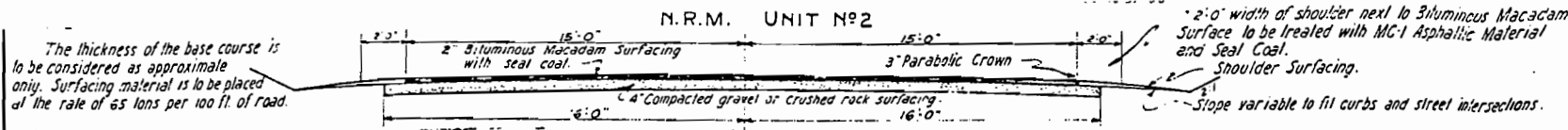


U.S.P.W.-N.R.M. 248-H CONST. DIV. NO. 2
 1 Title Sheet and Sketch Map.
 2 Typical Section of Improvement and Summary of Quantities.
 5 Superelevation of Curve M-1-A
 8-9 Plan and Profile. Unit No. 1
 9a " " " " No. 2

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 } N.R.H. 13,737.3 FT. = 2.602 MI.
 N.R.M. Const. Div. No. 2 Unit No. 1 4057.8 FT. = 0.7685 MI.
 NET LENGTH OF PROJECT } N.R.M. Const. Div. No. 2 Unit No. 2 1751.0 FT. = 0.3315 MI.
 Total 5808.8 FT. = 1.1000 MI.



RECOMMENDED FOR APPROVAL 6/15/33
 APPROVED *Chas. O. Vail*
 ASSISTANT ENGINEER
 STATE HIGHWAY ENGINEER
 RECOMMENDED FOR APPROVAL
 DIST. ENG. BUREAU PUBLIC ROADS
 RECOMMENDED FOR APPROVAL
 CHIEF ENG. BUREAU PUBLIC ROADS
 APPROVED
 DIST. ENG. BUREAU PUBLIC ROADS



GENERAL NOTES

This Project is to be constructed in conformity with the Standard Specifications of the Colorado State Highway Department adopted January 1, 1930

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

All roadway excavations required to construct this Project are to be obtained as indicated on the plans. Quantities involved beyond the limits of the ditch as shown on the Typical Section, either noted on profile as "Borrow" or on Structure tabulation 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 Section as shown, are subject to change by the Engineer to fit Embankment requirements actually met in Construction.

Unless otherwise noted on the plan sheets and list of Structures, the inlet ends of all corrugated metal cross culverts are to be protected by dry rubble slope paving 1 ft. thick placed about the end of the pipe. The approximate yardage of slope paving required is shown in the list of structures.

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

All curves are to be Super-elevated as provided for by the Standard Super-elevation Sheet included with the plans.

The entire project is to be cleared for the full width of the right-of-way, and the entire cost thereof is to be included in the Lump Sum Bid for Clearing & Grubbing the Entire Project. Approximate location and character of Clearing & Grubbing required are indicated in notes on the plans.

The upper 6" of the subgrade over the entire project is to be covered with selected material, which is to be classified and paid for as unclassified excavation. This material is to be used to fill the interstices in the rocky subgrade, and to prepare the subgrade for the gravel surface course. It is estimated that this material will be obtained approximately 1000 yds. per 100 linear ft. of roadway.

It is estimated that this operation involves the following quantities:

13c Unclassified Excavation 2,450 Cu. Yds. 8,250 Cu. Yds.
18a Station-Yard Overhaul 32,000 Sta. Yds. 105,000 Sta. Yds. N.R.H.
18b Yd.-Mile Overhaul 4,100 Yd. Mi. 4,600 Yd. Mi.

The detour for this project lies along the present travelled roadway, and where the new work and the present travelled roadway coincide, the Contractor shall, at his own expense, so prosecute construction that traffic can readily pass over the road. Also he shall maintain in safe condition, and at his own expense, all temporary approaches to, and crossings of, intersecting highways.

Except as limited by the special provisions, power equipment may be used on this project.

FENCING (N.R.H. Unit N°1)

LOCATION	SIDE	REMOVE LIN. FT.	BUILD LIN. FT.
16+80 - 17+05	X	225	
30+45 - 33+20	X	470	
TOTALS		695	

R.O.W. MARKERS

LOCATION	SIDE	NO.	LOCATION	SIDE	NO.
0+00 R.B.L.	2	114+60 R.B.L.	2		
3+75 " "	4	127+70 " "	2		
33+50 " "	4	155+30 " "	2		
36+45 " "	2	177+00 " "	2		
8+20 " "	2	65+40 " "	2		
23+34B " "	4	70+00 " "	4		
		97+10 " "	2		
		100+00 " "	4		
N.R.M. 248-H TOTAL	18	NRH 248-F TOTAL	20		

SUMMARY OF CONSTRUCTED QUANTITIES

NO.	ITEM	UNIT	N.R.H. 248-F		N.R.M. 248-H
			Roadway	Bridges	
10	Clear & Grub the Entire Project	Lump Sum	(a) •	(b) •	(c) •
11	Removing Structures	"	(a) 6 Structs.	(b) str.	(c) str.
12a	Removing Fence	Lin. Ft.			655
13c	Unclassified Excavation	Cu. Yards	35,722.8		2184.3
14a	Dry Rock (Structural)	"			
14b	" Common	"	230.4	456.5	456
14c	Wet Rock Excavation	"			
14d	" Common	"	64.9	240.9	
18a	Station-Yard Overhaul	Sta.-Yards	12,848.8		41578
18b	Yd.-Mile Overhaul	Yd.-mile	2,476.2		320.6
30x	Gravel or Crushed Rock Surfacing	Ton	8,294.3		2429
42b	Treated Bridge Timber	M. Ft. & M.		1,132	
46a	Class "A" Concrete	Cu. Yards		132	
46b	Class "B" Concrete	"		430.9	
47	Reinforcing Steel	Pounds		15,600	
48	Structural Steel	"		43,960	
53b	18" Corrugated Metal Culvert Pipe	Linear Ft.	102		284
53c	24" " "	"	144		176
53d	30" " "	"	330		
63a	Rip-Rap	Cu. Yards	552.1		
65	Dry Rubble Slope Paving	Sq. Yards	22.4		123
72	Wire Cable Guard Fence	Linear Ft.	600		
78	Project Markers	Each			1
79	Right-of-Way Markers	"	20		18
84	Removal of disused bridges, Sta. 60+	"			
11c	Removing Buildings	Lump Sum	107+ & 143+		
11d	Removing Buildings	"			
11e	Moving Fire Hydrant, Sta. 20+	"			
CONST. DIV. N°2 BITUMINOUS SURFACING			UNIT N°1		Unit N°1
31f	Shoulder Surfacing	Cu. Yd.			32.4
38a	MC-1 Asphaltic Material	Gal.			5712
39a	Coarse Stone	Ton			905.25
39b	Key Rock	"			223.9
39c	Stone Chips	"			249.8
39d	Asphaltic Material 95+	"			74.1
CONST. DIV. N°2 BITUMINOUS SURFACING			UNIT N°2		Unit N°2
11a	Remove 3 Culverts	Lump Sum			
11b	Remove 2 Structures Sta. 4+	"			
13c	Unclassified Excavation	Cu. Yd.			2777.2
14a	Dry Rock Excavation Structural	"			
14b	" Common	"			140.1
14c	Wet Rock	"			
14d	" Common	"			
30x	Gravel or Crushed Rock Surfacing	Ton			1386.3
31f	Shoulder Surfacing	Cu. Yd.			230.1
38a	MC-1 Asphaltic Material	Gal.			380.8
39a	Coarse Stone	Ton			613.2
39b	Key Rock	"			152.65
39c	Stone Chips	"			193.5
39d	Asphaltic Material 95+	"			479.5
53c	24" Corrugated Metal Culvert Pipe	Lin. Ft.			287
78	Project Marker	Each			1
	Plant Mix Material	Ton			24.33

1+50	Remove 2 buildings				
2+58	Remove Structure				
3+50	Side Drain & Approach			110.2	96
6+00	Cross Culvert, Outlet		07		126
10+35	Cross Culvert		15		24
10+40	Road Approach			35.2	
10+85	Remove Conc. Foundation				
14+75	Cross Culvert, Outlet		22		21
15+20	Remove buildings				
18+70	Side drain				
20+00	Cross Culvert & outlet		5.9		10.4
20+50 - 24+00	Remove Platform				30.1
31+00 - 32+00	Remove 4 buildings				
31+20	Approach			51.5	
33+17	Cross Culvert				10
32+10	Approach			34.0	
52+00	2 Side Drains & approaches				299
60+84.5-61+15.2	Bridge (See Summary)				1363 99.4
66+25	Remove 2 buildings				
67+00 - 68+00	" 4 "				
68+00	Cross Culvert & Ditches		137		31
69+50	Remove 2 buildings & Road App.			11.3	6.4
70+00	Side Drain; approach			16.9	13.8
71+20	Remove Structure				
71+30	Side drain & Road App.		1		17.5
72+20	" " "				11.5
72+48	" " "				
74+10-74+20	Road App. 91+11			15.3	
76+42	Side drain				25.1
76+53	Remove Structure		1		
84+50	Side drain; approach, rem. struct.			2.16	10.8
88+50	Side drain; approach			12.6	8.8
89+90	" " "			28.5	13.8
91+30	" " "			17.0	76
92+10	Side drain; Approach; Rem. Struct.		1		
93+90	" " "			16.2	12.1
98+00	Rip-Rap				27.7
103+10	Remove building				
103+10	Side drain; Approach; Rem. Struct.		1	77.7	15.7
104+00	Rip-rap				33.6
107+27 - 107+58	Bridge (See Summary)				1987 75.8
110+50-112+20	Remove 3 buildings				
113+25	Cross Culvert			15.8	
114+40	Remove pig pen				56
118+50	Cross Culvert & Outlet			19	15.1
120+00-130+00	Diversion ditch			104.0	
143+84.5-144+15.2	Bridge (See Summary)				100.5 65.7
165+67	Cross Culvert; ditch excavation			11.7	166
177+00	Approach				100
19+55	Cross Culvert & Outlet			17.8	19.0
20+00	Move Fire Hydrant				
29+10	Road Approach			89.2	
30+50	" " "			8.7	
0+00	Project Marker; Rem. Culv. Place C.M.P. App.		1		
0+25	Remove Culvert, Place C.M.P.		1		20.4
8+65	Extend present C.M.P.				22.4
8+80	Remove Culvert, Place C.M.P.		1		12.3
14+70	Cross Culvert				38.7
4+00	Remove 2 Gas Pumps				
2+20	Relay 24+48 C.M.P.				26.9
3+25	" 24+42 "				19.4
N.R.M. TOTALS, Div. N°2 Unit N°2			5		140.1
N.R.M. TOTALS, Div. N°1 Unit N°1			1	44.4	740.4
N.R.H. TOTALS Div. N°1			6	146.9	2669 307.2

* Structural Excavation is estimated to be 50% Rock & 50% Common, each of which

FINAL SUMMARY OF QUANT

LIST OF ST

GRAVEL DISTRIBUTION

Book No.	TICKET NO.		STATION NO.		TONNAGE	
	FROM	TO	FROM	TO	BOOK	TOTAL
1	F92401	F92421	81'-	17'00	501.10	
	G92421	H92450	69'-	81'-	773.40	1274.50
	E92451	H92453	68'00	69'-	78.30	
2	F92454	F92481	81'-	93'00	784.00	
	G92481	F92484	Smaller R.L. App.		80.40	
	G92484	H92500	93'00	100'-	446.20	1388.80
3	F92751	H92800	100'-	124'-	1415.70	1415.70
4	F92801	H92850	124'-	148'-	1427.45	1427.45
5	F92881	H92900	148'-	172'-	1435.65	1435.65
6	F92901	F92911	172'-	177'00	301.15	
	F92911	F92926	2'00	8'-	408.30	
	F92926	F92943	17'00	27'00	494.98	
	F92943	F92948	Low Spoil Fill line		56.23	
	F92948	H92950	48'-	47'-	138.25	1418.50
7	F92951	F92989	27'00	43'-	1064.70	
	F92989	H93000	47'-	52'00	324.10	1388.80
	F37701	F37719	52'-	61'-	500.65	
	F37719	F37733	61'-	68'00	414.25	
	F37733	F37738	0'00	2'00	116.35	
8	G37738	G37742	Low Spoil Fill line		113.85	
	H37742	E37745	Extra gravel bridges		65.20	
	F37745	G37747	Stock pile @ bridge		65.00	
						1275.30
Total					11,024.80	11,024.80

FENCING

Station	Side	Remove	Reference
From To		Lin. Ft.	Book Page
16'80 17'05	Cross	225	
30'45 33'20	"	470	
TOTAL		695	1 46

R.O.W MARKERS

LOCATION	SIDE	No.	LOCATION	SIDE	No.
0'00	R.L.	2	63'40	R.L.	2
3'75	"	4	70'00	"	4
			97'10	"	2
8'20	"	2	100'00	"	4
			113'13	"	2
23'34.5	"	4	127'70	"	2
			155'30	"	2
33'50	"	4	177'00	"	2
36'45	"	2			
Total					36

Refer to Book 1, Page 40

SUMMARY OF FINAL QUANTITIES

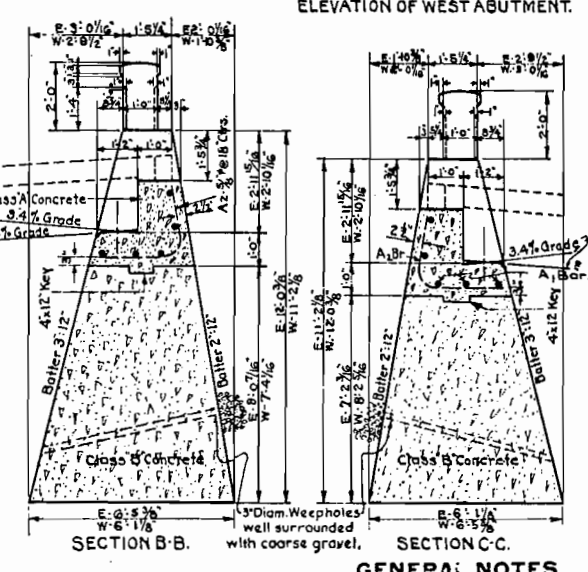
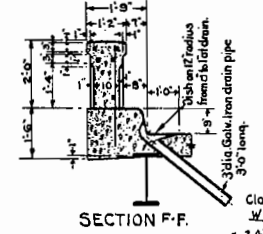
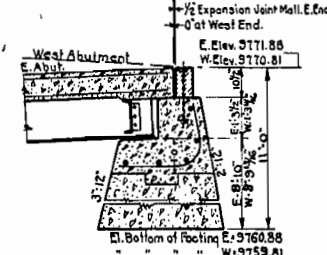
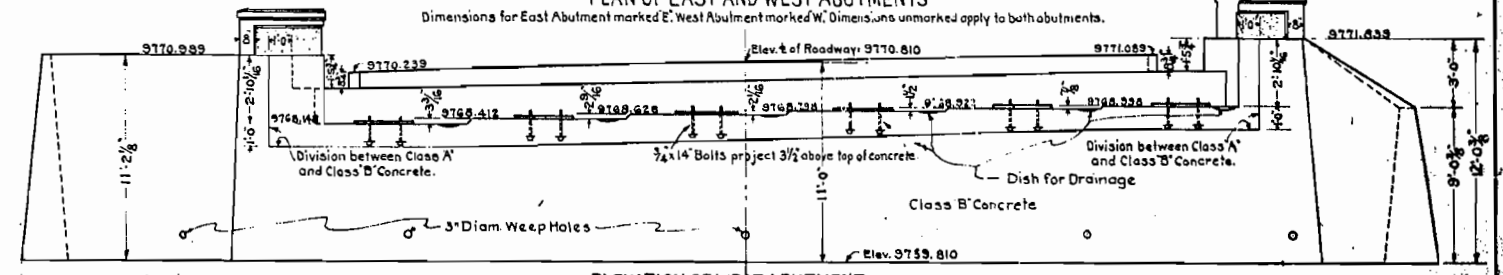
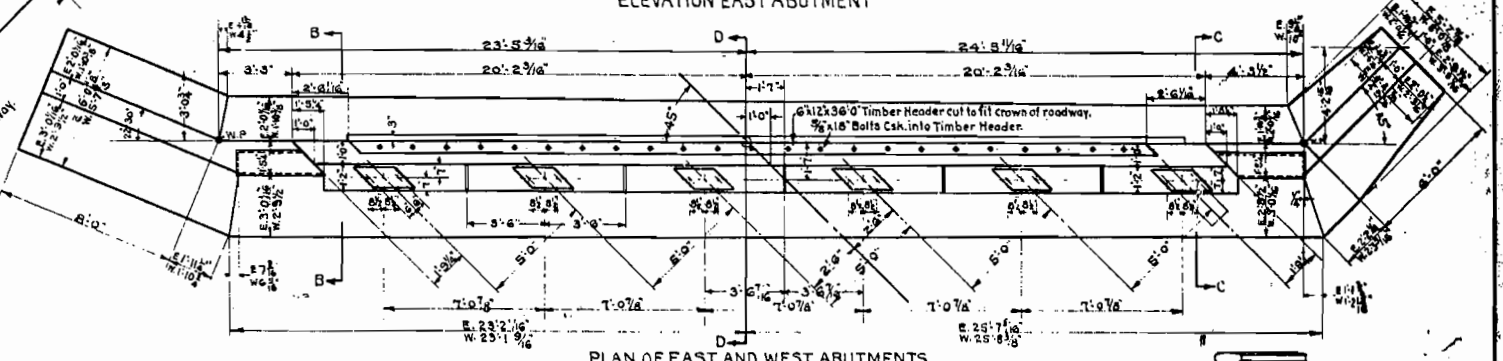
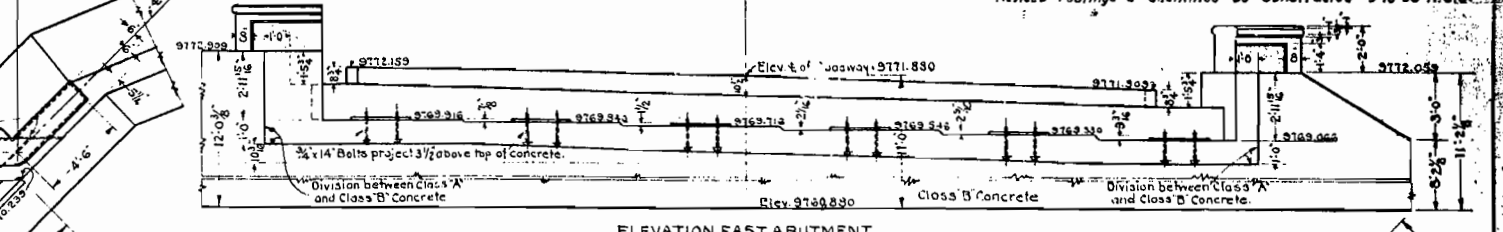
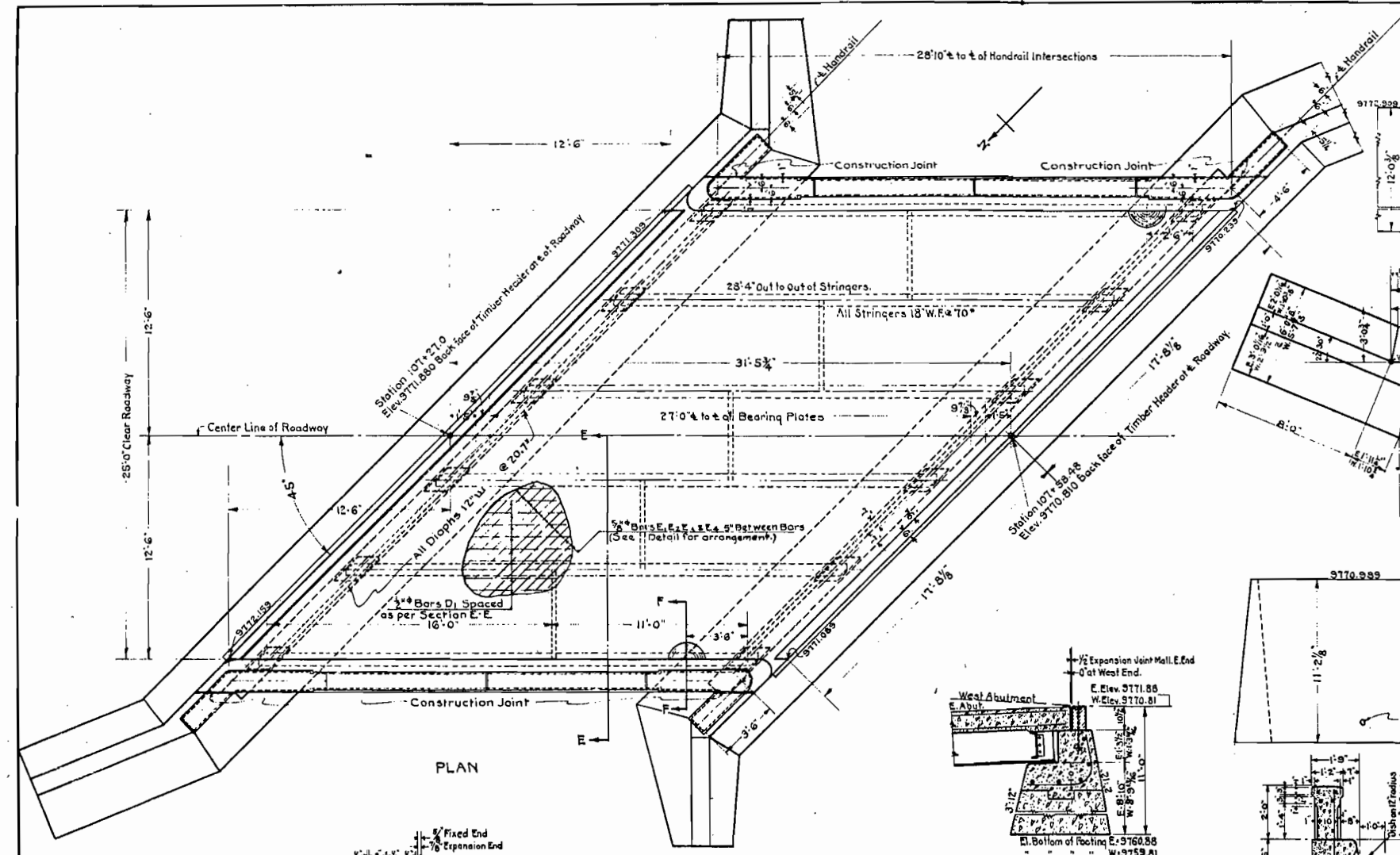
No.	ITEM	UNIT	N.R.H.		N.R.M.	
			ROADWAY	BRIDGES		
10	Clear & grub the entire project	Lump sum	•		•	
11	Removing structures	"	•		•	
11a	Removing buildings 64'x7'x9'x103'x114' from R.O.W	"	•		•	
11d	Removing buildings 1'x10'x15'x20'x31' from R.O.W	"	•		•	
11e	Moving fire hydrant, Sta. 20'	"	•		•	
12a	Removing fence	Lin. ft.			695	
13c	Unclassified excavation	Cu. yd.	35732.8		91843	
14b	Dry common excavation structural	"	230.4	4365	1400	
14d	Wet	"	66.9	2469		
16a	Station-yard overhaul	Sta.-yd.	198088		41578	
18b	Yard-mile overhaul	Yd.-mile.	21670.2		3566	
30x	Crushed rock surfacing	Ton.	25943		2429	
42b	Treated bridge timber	M ft. B.M.		1.132		
46a	Class "A" concrete	Cu. yd.		132.0		
46b	" "B" concrete	"		430.8		
47	Reinforcing steel	Pounds		18,450		
48	Structural	"		43960		
53b	18" corrugated metal culvert pipe	Lin. ft.	102		284	
53c	24" " " " "	"	144		176	
53d	30" " " " "	"	390			
63a	Riprap	Cu. yd.	3521			
65	Dry rubble slope paving	Sq. yd.	22.4		18.9	
72	Wire cable guard fence	Lin. ft.	600.0			
78	Project marker	Each			1	
79	Right of way markers	"	20		18	
84	Removal of disused bridges, 60'x107'x143'	Lump sum.	•			

Unclassified excavation includes ditches, channel changes, borrow pits, plating pit and roadway cross-sections

	N.R.H.	N.R.M.
Roadway and channel changes	22,874.8 cu. yds.	81,820 cu. yds.
Culvert outlets	42.9 "	14.4 "
Plating	11,041.3 "	1,015.5 "
Dike 107'	240.1 "	
Diversions ditch 120'-130'	104.0 "	
TOTAL	35,322.4 "	11,246.9 "
Borrow from N.R.H.	610.4	
	35,932.8	

LOCATION OF STRUCTURE	DESCRIPTION
0'00	Project marker and d
0'43	Side drain
1'50	Remove buildings
2'68	Remove structure
3'50	Side drain and road
6'00	Cross culvert and
10'35	"
10'40	Road approach
10'85	Remove concrete fr
14'75	Cross culvert and
15'20	Remove buildings
18'70	Side drain
19'55	Cross culvert and
20'00	Remove fire hydrant, Cross
20'50 to 24'00	" platform
29'10	Road approaches
30'50	"
31'00 to 32'00	Remove buildings
31'20	Road approach
32'10	"
33'17	Cross culvert and
52'00	Side drains
60'84.6 to 61'15.3	Bridge (see summa
66'25	Remove buildings
67'00 to 68'00	"
68'00	Cross culvert
69'15	Road approach
69'50	Remove buildings
70'00	Side drain and road
71'20	" " " "
71'90	Remove structure
72'29	Side drain and roa.
72'48	" " " "
74'10	" " " "
74'80	" " " "
76'47	" " " "
76'55	Remove structur
84'50	Side drain and road ap
88'50	" " " "
89'90	" " " "
91'30	" " " "
92'40	" " " "
93'90	" " " "
98'00	Riprap
103'10	Remove building
103'10	Side drain and road appro
104'00	Riprap
107'27.0 to 107'58.5	Bridge (see summa
110'50 to 112'20	Remove buildings
113'25	Cross culvert
114'40	Remove riprap
118'50	Cross culvert and
143'84.5 to 144'15.2	Bridge (see summa
165'67	Cross culvert
120'00 to 130'00	Diversions Ditch

Revised By HWD-T-28-33 Changed Brqts Soded notes.
Revised Footings & Quantities as Constructed 5-18-38 R.S.S.



MARK	SIZE	Nº	LENGTH BENDING DIAGRAM (All dimensions are to c/c of bars)
E1	3/8"	68	18'-4"
E2	3/8"	68	25'-5"
E3	5/8"	17	11'-11"
E4	5/8"	17	25'-2"
D1	1/2"	41	29'-8"
H1	1/2"	32	6'-6"
H2	1/2"	8	3'-4"
H3	1/2"	2	4'-11"
H4	1/2"	10	6'-8"
H5	1/2"	8	5'-6"
H6	1/2"	2	5'-1"
H7	1/2"	20	2'-6"

3107 Lin. ft. 3/8" Bars @ 1.043 Lbs. per Lin. Ft. = 3666 Lbs.
 634 Lin. ft. 1/2" Bars @ 0.85 Lbs. per Lin. Ft. = 539 Lbs.
 1216 Lin. ft. 1/2" Bars @ 0.668 Lbs. per Lin. Ft. = 812 Lbs.
 17' Additional for Overrun = 33 Lbs.
TOTAL = 5270 LBS.

MARK	SIZE	Nº	LENGTH BENDING DIAGRAM (All dimensions are to c/c of bars)
A1	3/8"	20	23'-0"
A2	3/8"	56	4'-2"

694 Lin. ft. 3/8" Bars @ 1.043 Lbs. per Lin. Ft. = 724 Lbs.
 17' Additional for Overrun = 33 Lbs.
TOTAL = 730 LBS.

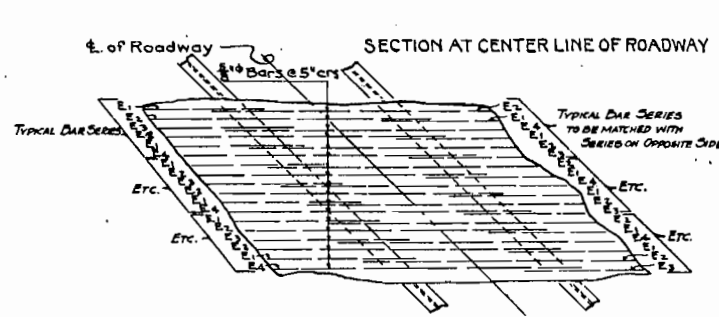
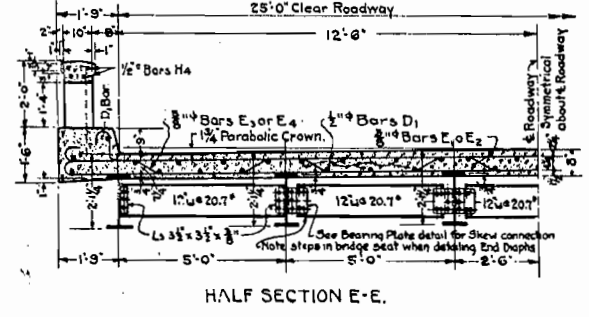
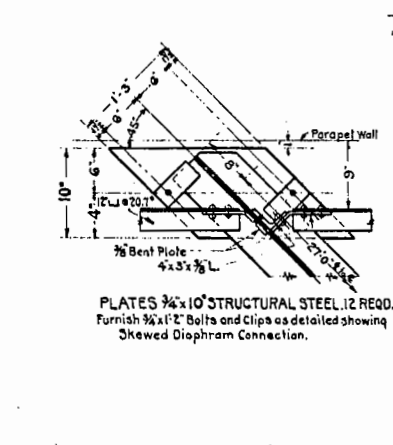
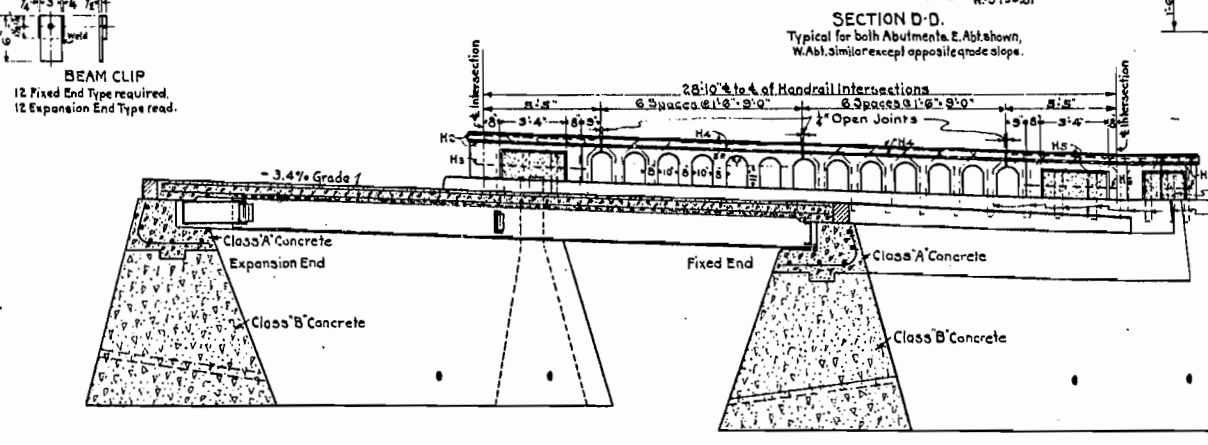
GENERAL NOTES

ALL WORK SHALL BE DONE ACCORDING TO THE STANDARD SPECIFICATIONS OF THE COLORADO STATE HIGHWAY DEPARTMENT.
 ALL CONCRETE SHALL BE CLASS "A".
 ALL EXPOSED SURFACES SHALL BE RUBBED FREE OF FORM MARKS.
 ALL EXPOSED CORNERS, EXCEPT ON HANDRAILS, SHALL BE REVEALED TO A 2" FACE.
 GIRDERS, FLOOR SLAB AND CURB SHALL BE POURED MONOLITHICALLY.
 ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED BEFORE FRESH CONCRETE IS POURED.
 FOOTINGS IN ROCK SHALL BE POURED OUT TO THE ROCK AND NOT FORMED.
 STRUCTURE IS DESIGNED FOR A "W" CONCRETE WEARING SURFACE.
 ALL REINFORCING BARS SHALL BE ROUNDED OR SQUARE, PLAIN OR DEFORMED AS SHOWN AND NOTED.
 ALL REINFORCING BARS SHALL BE TAGGED WITH THE STATION NUMBER AND LETTER DESIGNATION.
 SECONDARY BARS WHEN SPICED SHALL BE GIVEN A LAP OF 50 DIAMETERS.
 MAIN BARS SHALL NOT BE SPICED.
 SOUNDINGS AND DEPTH OF FOOTINGS SHOWN ARE ACCORDING TO THE BEST AVAILABLE DATA. IF ESSENTIALLY DIFFERENT CONDITIONS ARE ENCOUNTERED, THE BRIDGE ENGR. NEAR WILL INSPECT AND DETERMINE IF REDESIGN IS NECESSARY.
 ALL RIVETS TO BE 3/4"
 HOLES 1 1/2"
 FORMS FOR CONCRETE SURFACES EXPOSED IN FINISHED WORK SHALL BE CONSTRUCTED OF SHIP LAP OR T&G 3-3-3.

SUMMARY OF QUANTITIES FOR ENTIRE BRIDGE

ITEM Nº	DESCRIPTION	UNIT	SUPER-STRUCTURE	TWO ABUTMENTS	TOTAL
14 a	Dry Rock Structural Excavation	Cu.Yd.			
14 b	Dry Common "	"		199.7	199.7
14 c	Wet Rock "	"			
14 d	Wet Common "	"		75.8	75.8
42 b	Treated Bridge Timber	M.F.B.M.	0.432	0.432	0.864
46 a	Class "A" Concrete	Cu.Yd.	29.5	185	480
46 b	Class "B" Concrete	Cu.Yd.		170.9	170.9
47	Reinforcing Steel (overrun incl.)	Lb.	5270	730	6000
48	Structural Steel (overrun incl.)	Lb.	15388		15388
84	Removal of disused Bridge	L.S.			
	Expansion Joint Mat. 12' x 12'	Lin. Ft.	36		36

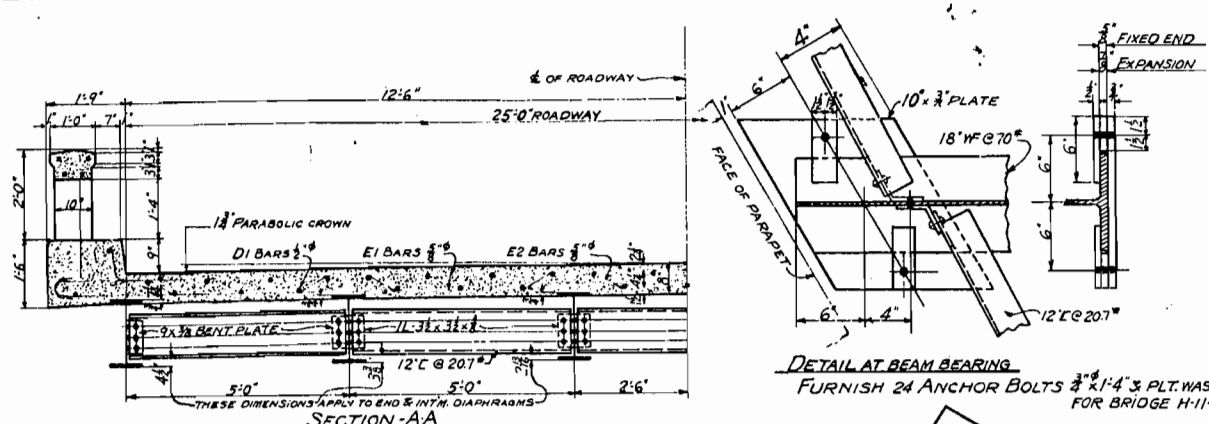
* For Excavation, Water, etc. Final Plans



LL - A.A.S.H.O. Aug. 1928. CLASS "A" (H19)
 DL - ASSUMES 15 LBS PER SQ. FT. ADDITIONAL WEARING SURFACE. THIS INCLUDES 3/8\"/>

COLORADO
STATE HIGHWAY DEPARTMENT
 ONE SPAN 27'-0" x 25'-0" ROADWAY
 CONCRETE T-BEAM BRIDGE
 ON CONCRETE GRAVITY ABUTMENTS
 ACROSS CALIFORNIA GULCH
 Sta. 107+27 TO 107+58.48
 Near LEADVILLE, Sec. 27 T. 9 S. R. 80 W.
 Designed by A.L.C. Approved by R. Bailey
 Made by A.L.C. Bridge Engineer
 Checked by RMA Date: Oct. 3rd, 1932

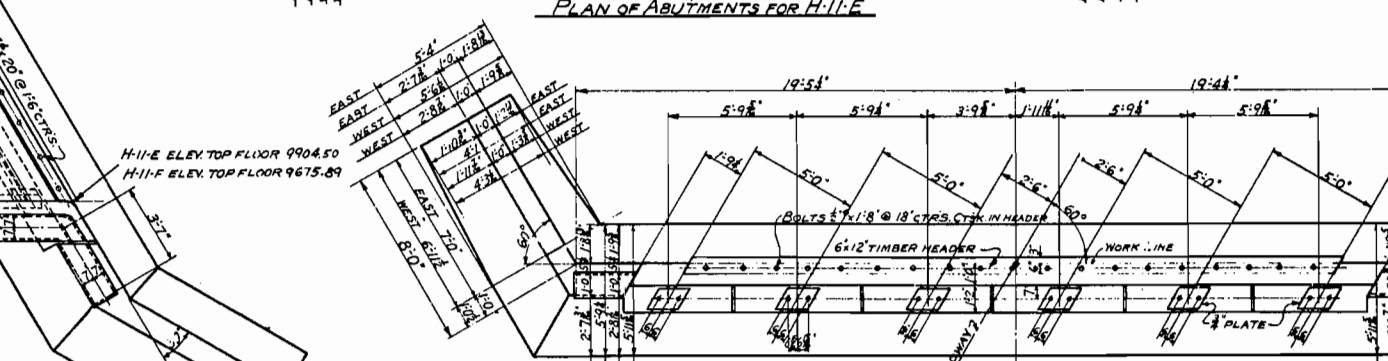
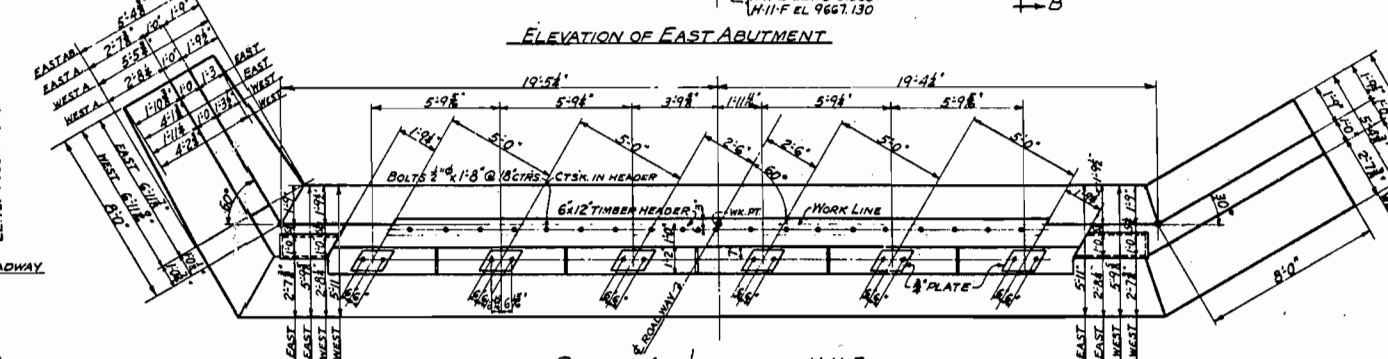
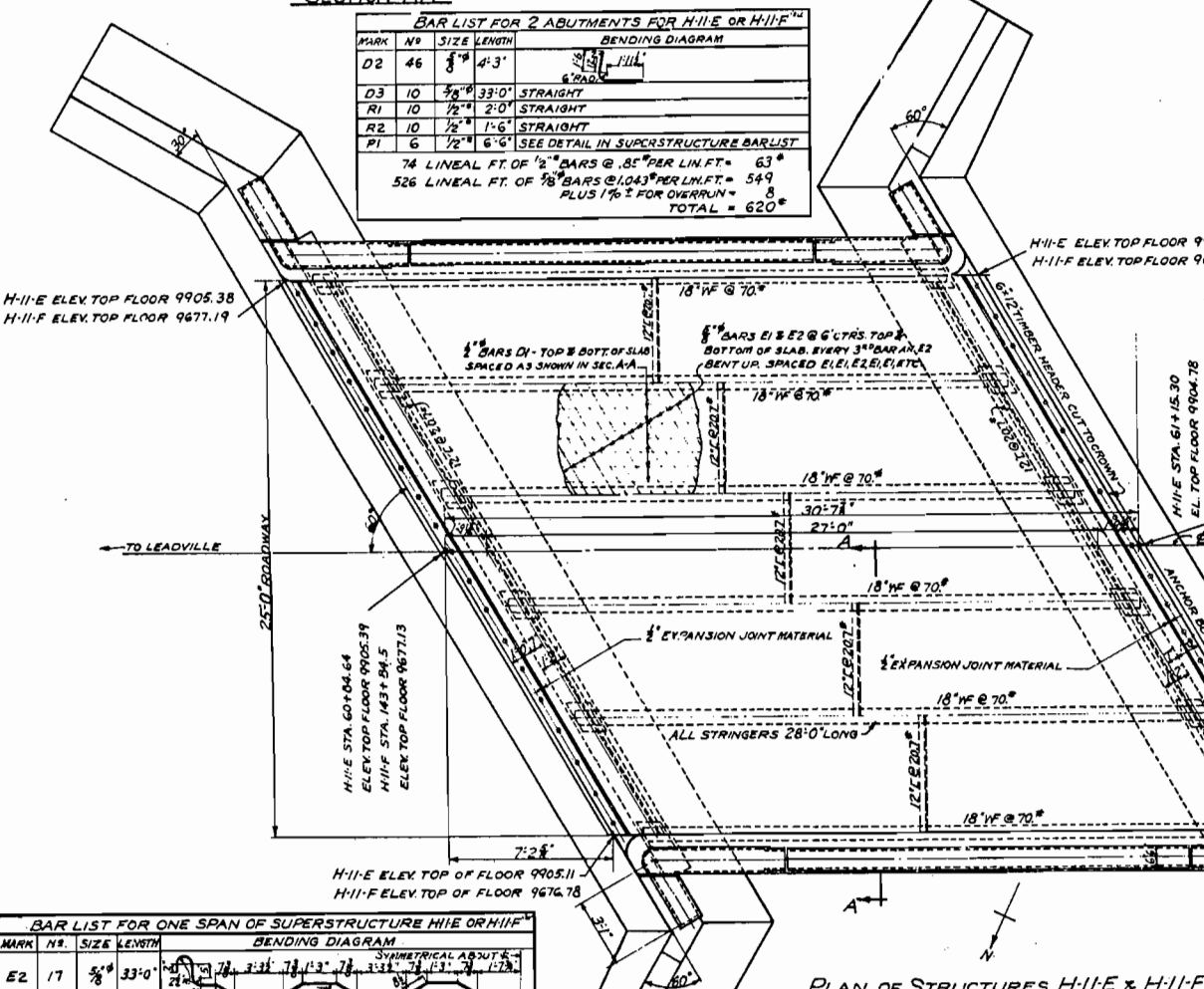
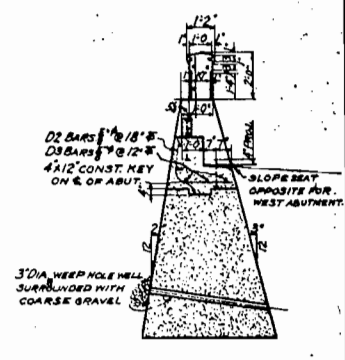
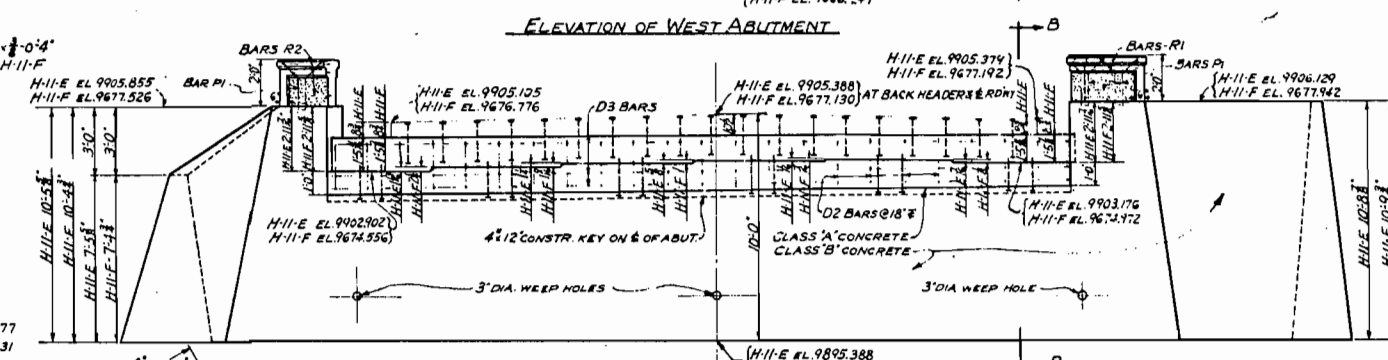
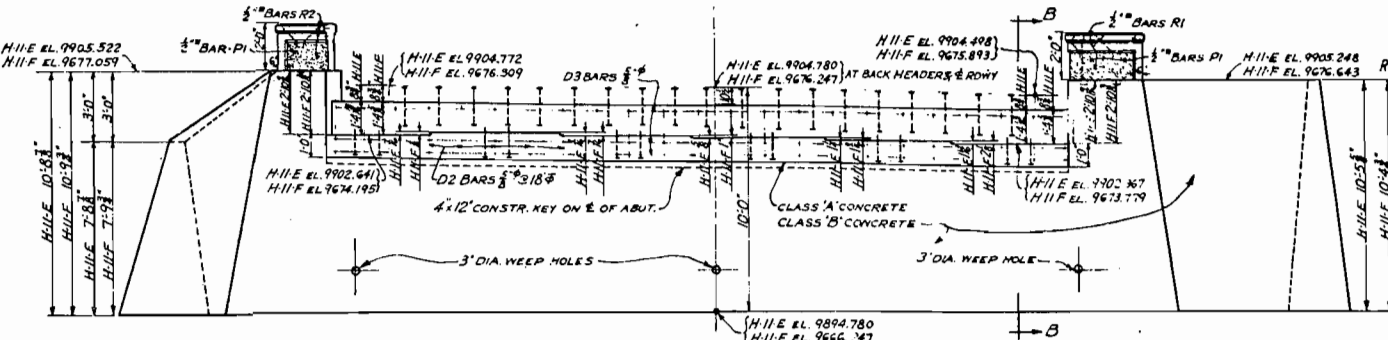
Revised By H.M.D. 7-28-33 Changed Bar R's & Added Notes
Revised Quantities as Constructed 3-10-38 R.S.S.



BAR LIST FOR 2 ABUTMENTS FOR H-11-E OR H-11-F

MARK	NO.	SIZE	LENGTH	BENDING DIAGRAM
D2	46	5/8"	4'-3"	
D3	10	5/8"	33'-0"	STRAIGHT
R1	10	7/8"	2'-0"	STRAIGHT
R2	10	7/8"	1'-6"	STRAIGHT
R3	6	7/8"	6'-6"	SEE DETAIL IN SUPERSTRUCTURE BARLIST

74 LINEAL FT. OF 5/8" BARS @ .85" PER LIN. FT. = 63'
526 LINEAL FT. OF 7/8" BARS @ .1043" PER LIN. FT. = 54.9'
PLUS 1% FOR OVERRUN = .8'
TOTAL = 620'



BAR LIST FOR ONE SPAN OF SUPERSTRUCTURE H-11-E OR H-11-F

MARK	NO.	SIZE	LENGTH	BENDING DIAGRAM
E2	17	5/8"	33'-0"	
E1	68	5/8"	33'-0"	
D1	39	1/2"	29'-0"	STRAIGHT
P1	36	1/2"	6'-6"	
R3	8	1/2"	17'-8"	STRAIGHT
R4	20	1/2"	5'-0"	STRAIGHT

173' LIN. FT. 5/8" BARS @ .64" PER LIN. FT. = 111.5'
475' LIN. FT. 1/2" BARS @ .85" PER LIN. FT. = 404'
2856' LIN. FT. 7/8" BARS @ .1043" PER LIN. FT. = 2979'
PLUS 1% FOR OVERRUN = .41'
TOTAL = 4180'

SUMMARY OF QUANTITIES FOR STRUCTURE H-11-E

ITEM	DESCRIPTION	UNIT	SUPERSTR.	2 ABUTS.	TOTAL
14a	DRY ROCK STRUCTURAL EXCAVATION	CUYD.			
14b	DRY COMMON STRUCTURAL EXCAVATION	CUYD.	136.3		136.3
14c	WET ROCK STRUCTURAL EXCAVATION	CUYD.			
14d	WET COMMON STRUCTURAL EXCAVATION	CUYD.	99.4		99.4
42b	TREATED BRIDGE TIMBER	MFTBM	0.350		0.350
46a	CLASS 'A' CONCRETE	CUYD.	28	14	42
46b	CLASS 'B' CONCRETE	CUYD.	130	130	
47	REINFORCING STEEL (INCL. 1% OVER RUN)	LBS.	4180	620	4800
48	STRUCTURAL STEEL (INCL. 1% OVER RUN)	LBS.	14016	770	14786
84	REMOVAL OF DISUSED BRIDGE	LUMP SUM			
EXPAN.	ON JOINT MATERIAL 1/2" x 12"	LIN. FT.	58	58	

SUMMARY OF QUANTITIES FOR STRUCTURE H-11-F

ITEM	DESCRIPTION	UNIT	SUPERSTR.	2 ABUTS.	TOTAL
14a	DRY ROCK STRUCTURAL EXCAVATION	CUYD.			
14b	DRY COMMON STRUCTURAL EXCAVATION	CUYD.	100.5		100.5
14c	WET ROCK STRUCTURAL EXCAVATION	CUYD.			
14d	WET COMMON STRUCTURAL EXCAVATION	CUYD.	65.7		65.7
42b	TREATED BRIDGE TIMBER	MFTBM	0.350		0.350
46a	CLASS 'A' CONCRETE	CUYD.	28	14	42
46b	CLASS 'B' CONCRETE	CUYD.	130	130	
47	REINFORCING STEEL (INCL. 1% OVER RUN)	LBS.	4180	620	4800
48	STRUCTURAL STEEL (INCL. 1% OVER RUN)	LBS.	14016	770	14786
84	REMOVAL OF DISUSED BRIDGE	LUMP SUM			
EXPAN.	ON JOINT MATERIAL 1/2" x 12"	LIN. FT.	58	58	

GENERAL NOTES

ALL WORK SHALL BE DONE ACCORDING TO THE STANDARD SPECIFICATIONS OF THE COLORADO STATE HIGHWAY DEPARTMENT, ADOPTED JAN. 1, 1930.

ALL CONCRETE SHALL BE CLASS "A" AND CLASS "B".

ALL EXPOSED SURFACES SHALL BE RUBBED FREE OF FORM MARKS.

ALL EXPOSED CORNERS, EXCEPT ON HANDRAILS, SHALL BE BEVELED TO A 2" FACE.

GIRDERS, FLOOR SLAB AND CURB SHALL BE POURED MONOLITHICALLY.

ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED BEFORE FRESH CONCRETE IS POURED.

FOOTINGS IN ROCK SHALL BE POURED OUT TO THE ROCK AND NOT FORMED.

STRUCTURE IS DESIGNED FOR A "V" CONCRETE WEARING SURFACE.

ALL REINFORCING BARS SHALL BE ROUNDED OR SQUARE, PLAIN OR DEFORMED AS SHOWN AND NOTED.

ALL REINFORCING BARS SHALL BE TACED WITH THE STATION NUMBER AND LETTER DESIGNATION.

SECONDARY BARS WHEN SPLICED SHALL BE GIVEN A LAP OF 50 DIAMETERS.

MAIN BARS SHALL NOT BE SPLICED.

BOUNDING AND DEPTH OF FOOTINGS SHOWN ARE ACCORDING TO THE BEST AVAILABLE DATA. IF ESSENTIALLY DIFFERENT CONDITIONS ARE ENCOUNTERED, THE BRIDGE ENGINEER WILL INSPECT AND DETERMINE IF REVISION IS NECESSARY.

HOLES 12" x 9"

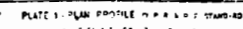
FORMS FOR CONCRETE SURFACES EXPOSED IN FINISHED WORK SHALL BE CONSTRUCTED OF SHUPLAP OR T.E.G. 5-S-5

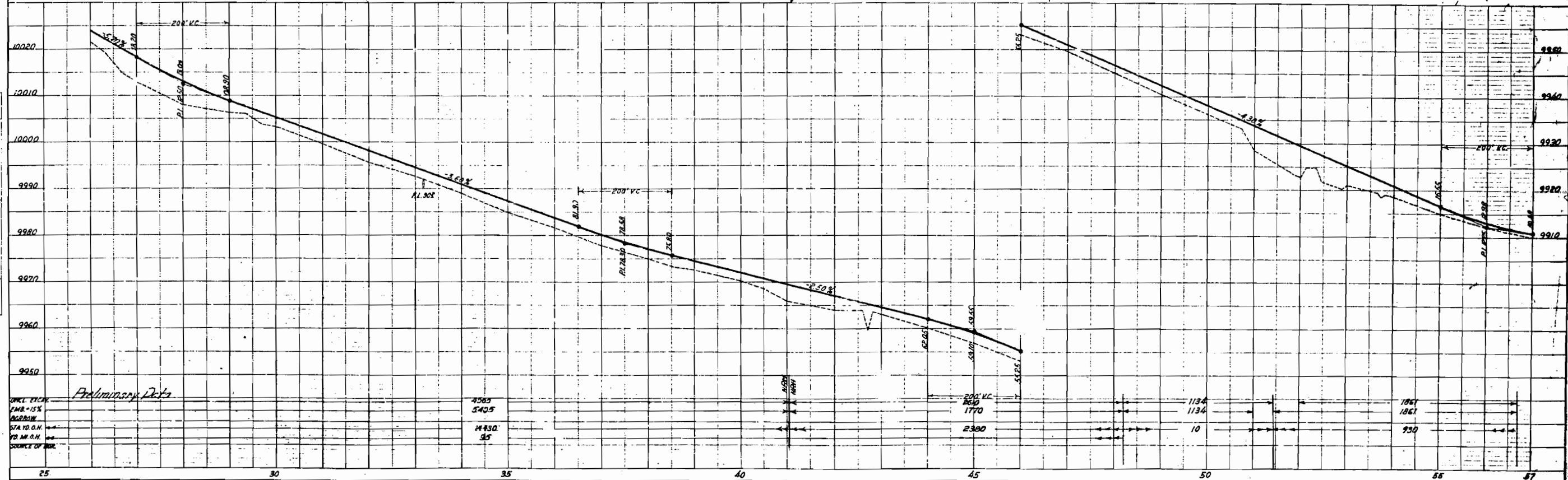
* H-11-E WATER LINE - SEE FINAL PLANS
* H-11-F WATER LINE - SEE FINAL PLANS

COLORADO
STATE HIGHWAY DEPARTMENT
27 FT. SPANS SKEWED BRIDGES
25 FT. ROADWAY CONCRETE GRAVITY ABUTMENTS
ACROSS CALIFORNIA CULCH
SIS. SEE PLAN ABOVE
Near LEADVILLE S80.34 T.9S R.80W
Designed by H.M.M. Approved by R.L. Bailey
Made by H.M.M. Bridge Engineer
Checked by A.L.C. Date: Oct 10 1932

PLAN	QUARTERED	BY	DATE
NOTE BOOK	PLEATED		
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

PROFILE	SEARCHED _____	BY _____	LATE _____
PLOTTED _____			
INDEXED _____			
SERIALIZED _____			
FILED _____			
NOV 1968			
FBI - MEMPHIS			



[illegible]



PLAN	DATE	BY	CHECKED
PLAN	1917	W. H. B.	W. H. B.
DATE	1917	BY	CHECKED
1917	1917	W. H. B.	W. H. B.

PROFILE	DATE	BY	CHECKED
PROFILE	1917	W. H. B.	W. H. B.
DATE	1917	BY	CHECKED
1917	1917	W. H. B.	W. H. B.

Note -
Pole lines encroaching on construction are
to be removed by owners.

Sta. 0+00 Beginning of USPW-NRM 240-H
Const. Div. No. 2 Unit No. 2

City limits of
Sta. 0+00 Proj. Marker



Sta. 1490 Road
24' x 50' C.M.P.
HARRISON AVE.

Sta. 91 Road 24' x 40' C.M.P.
Remains 12' x 36' C.P.

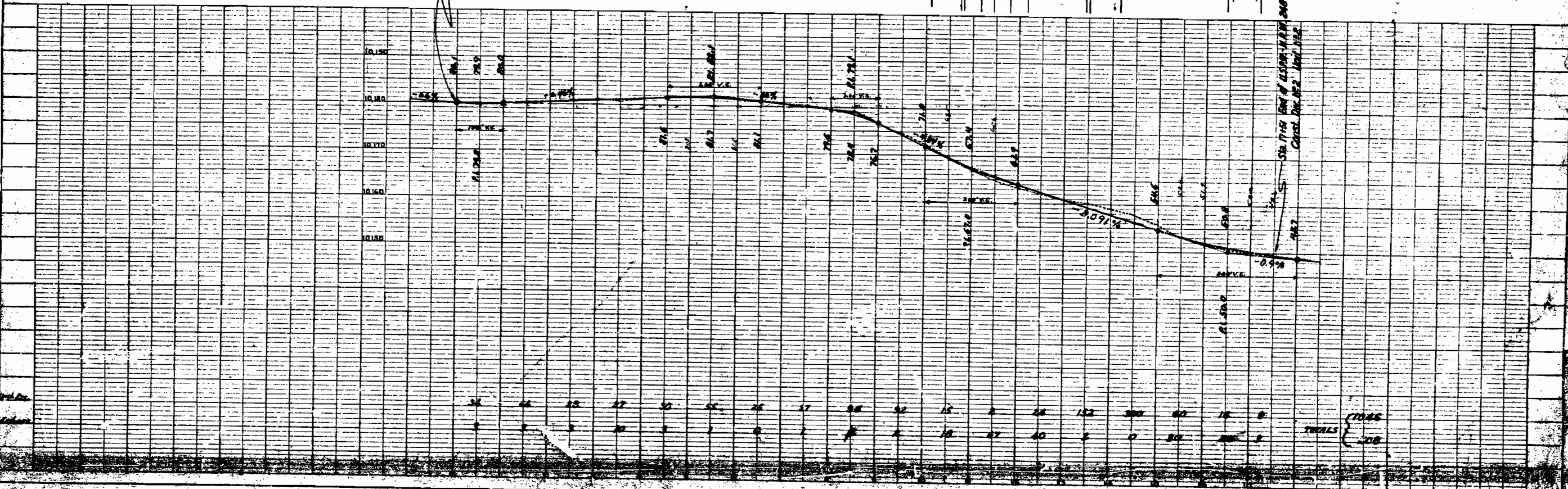
9th St School

POPLAR ST

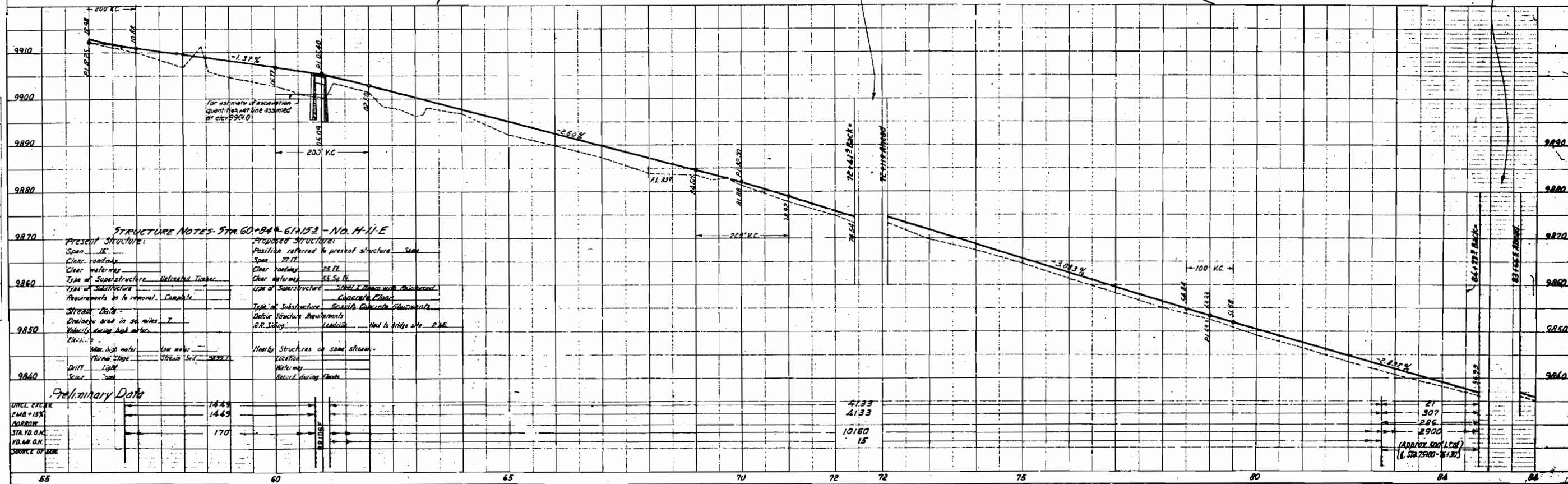
Station PT. 9+20.8

Sta. 17451 End of USPW-NRM 240-H
Const. Div. No. 2 Unit No. 2

LEADVILLE.



PROFILE	BY	DATE
SURVIVED _____		
PLOTTED _____		
GRADUATES CHECKED _____		
NOTE BOOK _____		
B M'S NOTED _____		
STUDENT LIBRARY NOTED _____		
NO _____		



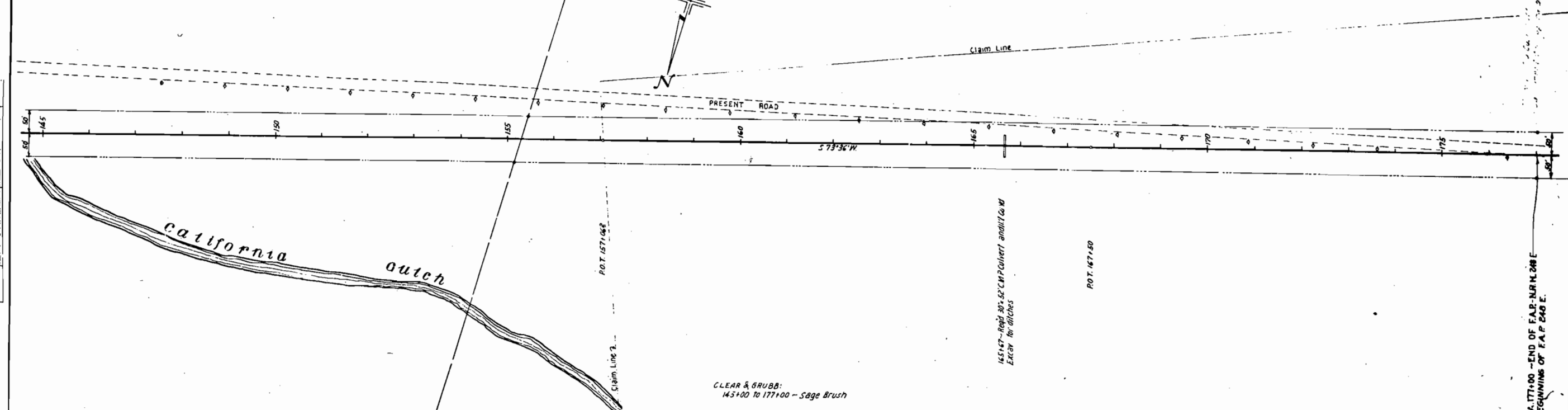
NE 4 SEC 33
T9S. R.80W.

NW 4 SEC 33

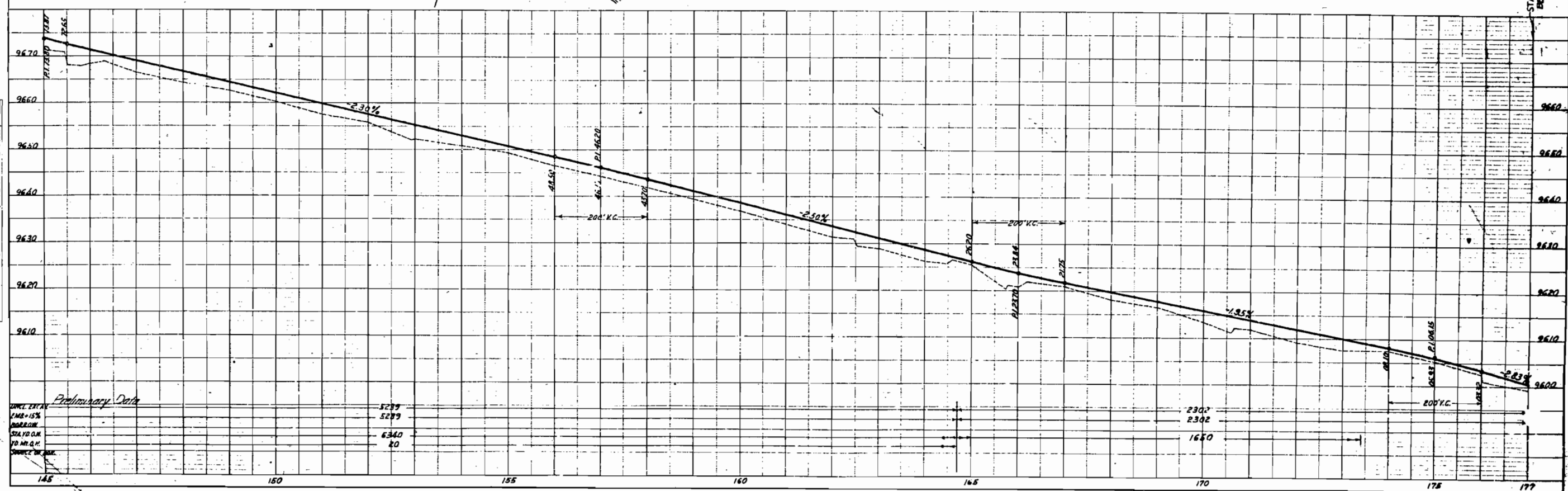
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	1071248	13	

Per Const. 2-23-37 PPH

PLAN	DATE
SURVEYED	
NOTED	
ALIGNED	
CHECKED	
BY	



PROFILE	DATE
SURVEYED	
NOTED	
GRADES CHECKED	
BY	



STA. 177+00 - END OF F.A.P. - N.H. 248 E
BEGINNING OF F.A.P. 248 E