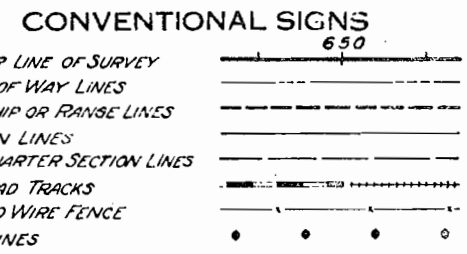


COLORADO

STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED



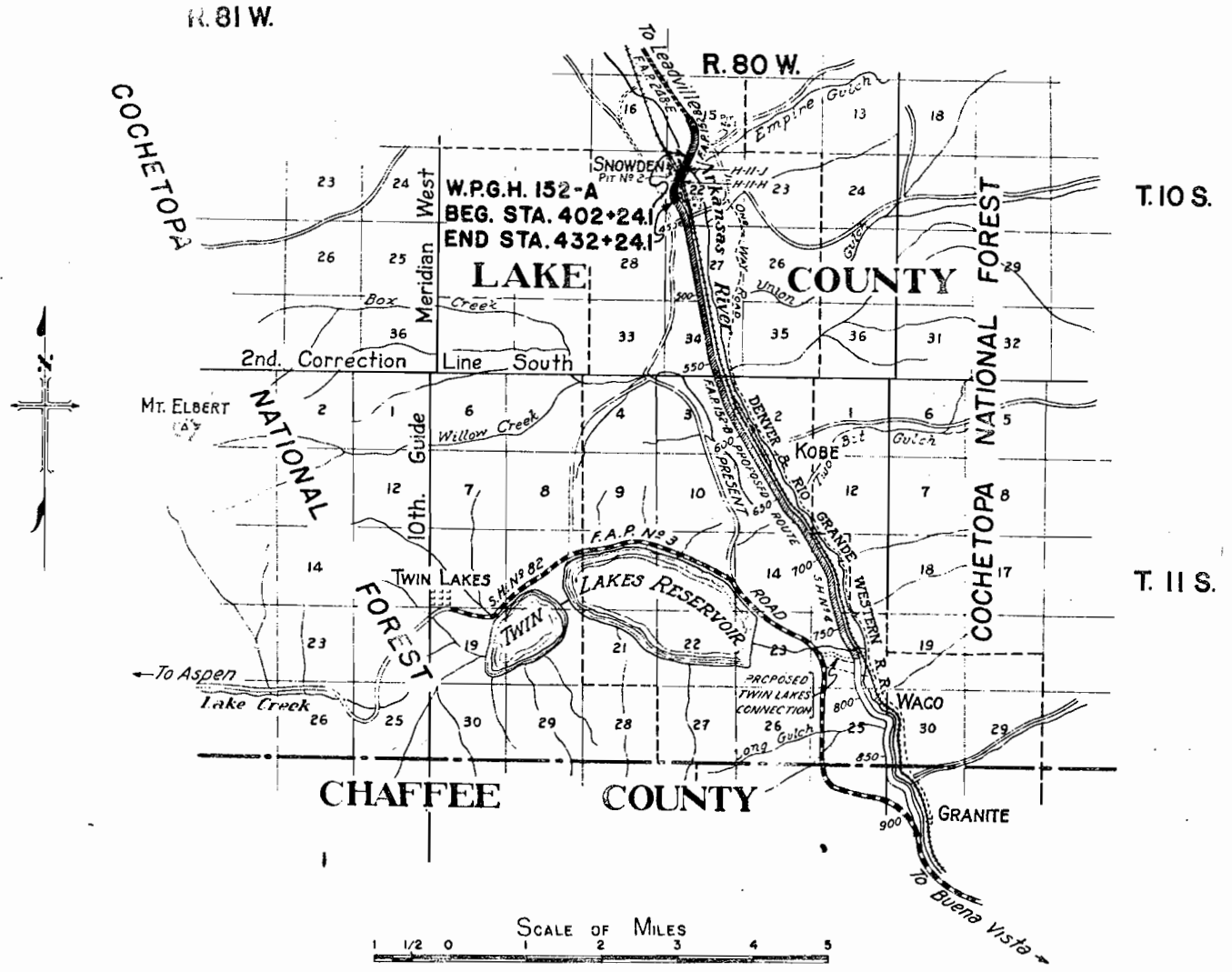
- #### INDEX OF SHEETS
1. SKETCH MAP AND TITLE SHEET.
 2. TYPICAL SECTION AND SUMMARY OF QUANTITIES.
 - 3 TO 7. DETAILS OF BRIDGE, STA. 407+
 - 8 TO 12. " " OVERPASS AND SPECIAL CONCRETE BOX CULV, STA. 415+
 13. " " SPECIAL PAVEMENT DRAINS.
 14. STANDARD WIRE CABLE GUARD FENCE M 20 G
 15. " WIRE FENCE (TREATED WOOD POSTS) AND MARKER POSTS M 24 F
 16. STANDARD STRUCTURE NUMBER LETTERING M 10 A
 17. " METHODS FOR SUPERELEVATION AND WIDENING OF CURVES M 1 A
 18. TYPICAL SIDE APPROACH ROADS / ROADWAY CONSTRUCTION TRAFFIC SIGNS M 2 B
 - 19 TO 20. ALIGNMENT PLAN AND PROFILE.
 - 21 TO 33. CROSS SECTIONS.

U.S. WORKS PROGRAM GRADE CROSSING PROJECT W.P.G.H. 152-A

STATE HIGHWAY NO. 4

LAKE COUNTY

SCALES OF ORIGINAL TRACINGS
 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 } 3,000 FEET = 0.568 MI.
 NET LENGTH OF PROJECT }



NOTE

It is recommended that bidders on this Project go over the plan details with one of the following field representatives of this department:

Ernest Montgomery Div. Engr. Colorado Springs
 E. W. Oviatt Res. Engr. Buena Vista

RECOMMENDED FOR APPROVAL 3/10/36

J. C. Montgomery
 ASSISTANT ENGINEER

APPROVED
Chas. D. Hill
 STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL

DIST. ENG. BUREAU PUBLIC ROADS
 RECOMMENDED FOR APPROVAL

CHIEF ENG. BUREAU PUBLIC ROADS
 APPROVED

DIRECTOR BUREAU PUBLIC ROADS

TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

GENERAL NOTES

This Project is to be constructed in accordance with the Standard Specifications of the Colorado State Highway Department, adopted August 1, 1935.

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

All roadway excavation required to construct the Project is 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 Tabulation 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 Section as shown are subject to change by the Engineer to fit embankment requirements actually encountered in construction.

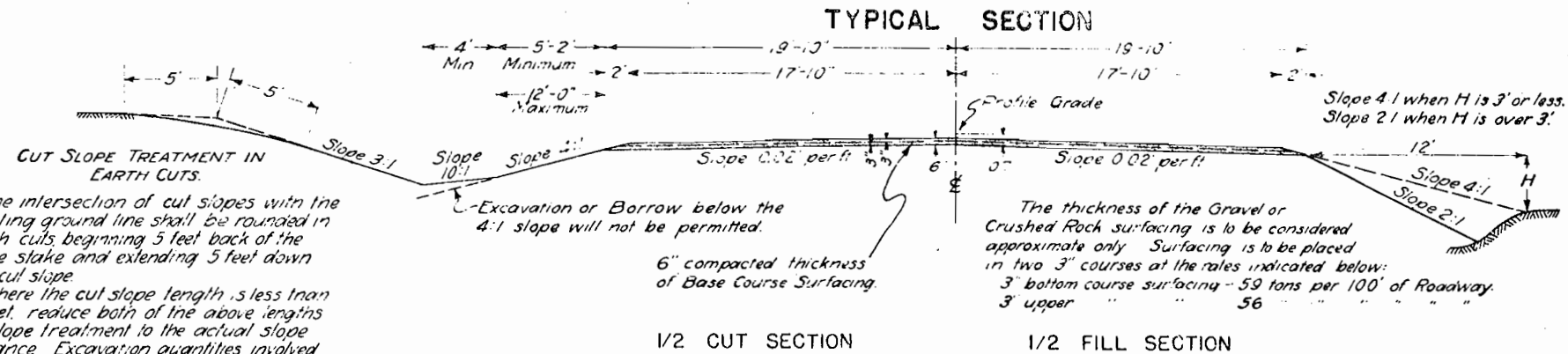
All curves are to be superelevated and widened as provided by the Standard Superelevation sheet.

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

Clearing and Grubbing shall be of variable width and be held to the minimum required for the construction of the road, borrow pits, and channel changes, and to accommodate visibility. Ordinarily the clearing shall not extend more than 8 feet beyond the toes of the fills or the tops of the cut slopes.

Provisions regarding the construction of roads to borrow pits are set forth in the Special Provisions.

Except as noted on plans, overhaul will be paid for as measured along center line of Project.



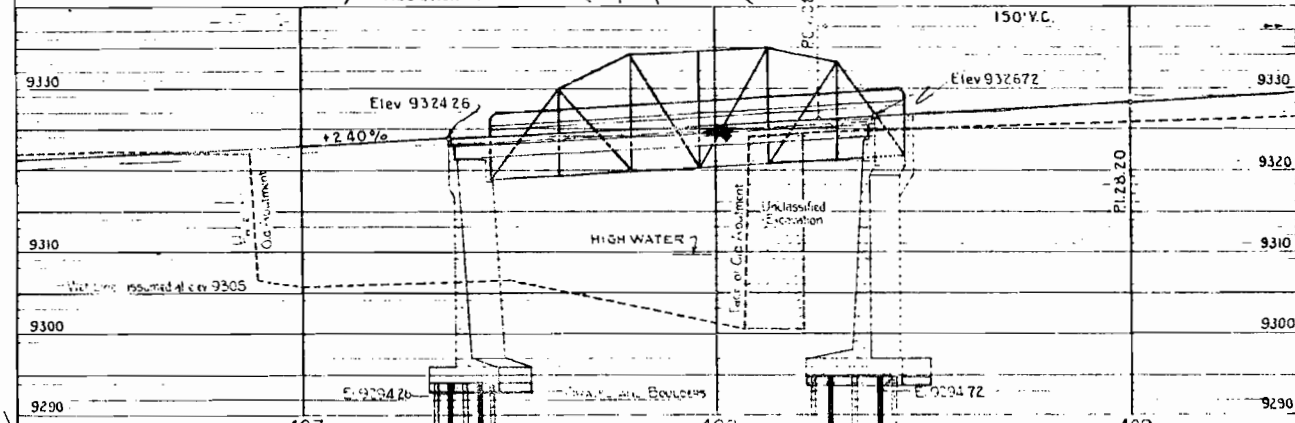
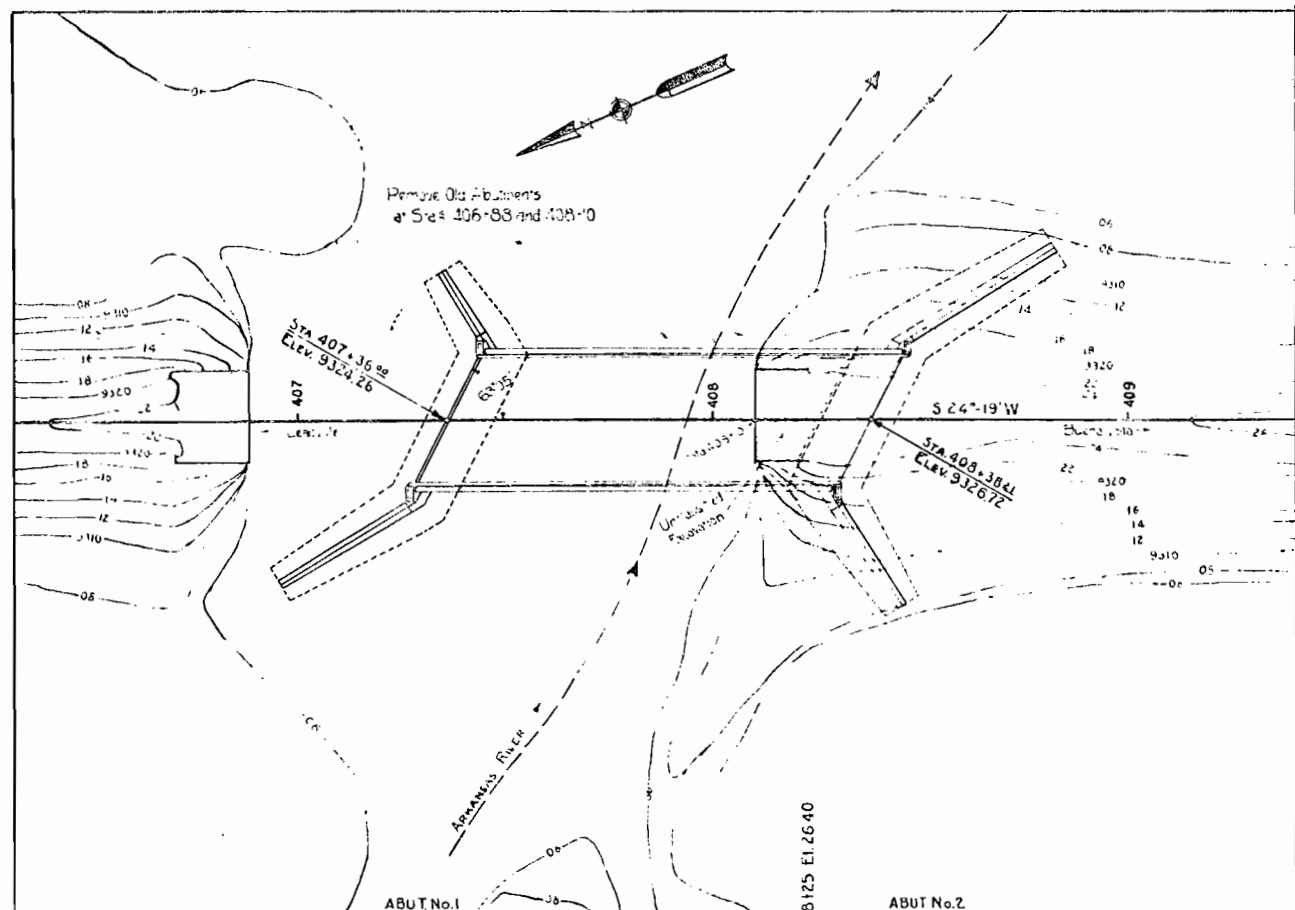
TABULATION OF STRUCTURES

STATION	ITEMS	WIRE CABLE	BARBED
		GUARD FENCE	WIRE FENCE
		LIN. FT.	LIN. FT.
402+24.1	Project Marker		
	Steel Truss Bridge (Quantities in Summary)		
407+36 to 408+38.2	Remove old Abutments		
	250 sq. yds. Dry Rubble Slope Paving 18" thick		
	Channel Improvement - 3000 cu. yds. uncl. excav.		
415+82.4 to 418+44.2	Railroad Overpass		
	6x3' Special Concrete Box Culvert (Quantities in Summary)		
	Remove old Abutments		
	Underclearance Improvmt. - 2000 cu. yds. uncl. excav.		
432+24.1	Project Marker		
404+99 to 407+41	Wire Cable Guard Fence, Left	242	
405+01 to 407+21	" " " " Right	226	
408+48 to 415+74.7	" " " " Left	727	
408+34 to 415+74.7	" " " " Right	741	
418+52 to 432+24	" " " " Left	1359	
418+52 to 432+24	" " " " Right	1385	
406+75 to 407+36	2000 Cu. Yds. of Selected Fill		500
402+24 to 407+10	Barbed Wire Fence, Right		950
407+70 to 414+60	" " " " "		1530
417+00 to 432+24	" " " " "		530
402+24 to 407+30	" " " " Left		1150
408+70 to 420+00	" " " " "		
409+42	Right of Way Marker, Left		
420+15	" " " " Right		
415+76 and 418+50	4 Special Reinforced Concrete Paving Drains: 4 cu. yds. Class "A" Conc. 580 lbs. Reinf. Steel 294 lin. ft. 10" Corr. Metal Culk Pipe & Trash Guards 60 cu. yds. Dry Common Structural Excav.		
	TOTALS	4680	4660

*Included in profile quantities for payment.

SUMMARY OF APPROXIMATE QUANTITIES

NO.	ITEM	UNIT	ROADWAY	BRIDGE	OVERPASS	TOTAL
			STA. 407+	STA. 407+	STA. 415+	
10a	Clearing and Grubbing Entire Project	Lump Sum	•			•
11a	Removal of Old Abutments, Sta. 416+	" "				•
11b	" " " " Sta. 406+	" "				•
13c	Unclassified Excavation	Cu. Yd.	91,000	3000	2000	96,000
14a	Dry Rock Excavation (Structural)	" "		10	40	50
14b	" Common " "	" "	60	290	40	390
14c	Wet Rock " "	" "		10	40	50
14d	" Common " "	" "		1515	1230	2745
18a	Station Yard Overhaul	Sta. Yard	842,000			842,000
18b	Yard Mile Overhaul	Yd. Mile	7,200			7,200
26a	Gravel or Crushed Rock Surfacing	Ton	3,030			3,030
42a	Untreated Bridge Timber	M ft. bm		0.5	0.4	0.9
46a	Class "A" Concrete	Cu. Yd	4	786	757	1547
47	Reinforcing Steel	Lb.	580	81,770	131,290	213,640
48	Structural Steel	Lb.		133,620	157,780	291,400
53x	10" Corrugated Metal Culvert Pipe	Lin. Ft.	294			294
65	Dry Rubble Slope Paving 18" thick	Sq. Yd.	250			250
74	Wire Cable Guard Fence	Lin. Ft.	4680			4680
76a	Barbed Wire Fence with Treated Wooden Posts	" "	4700			4700
80b	Bronze Name Plates	Each		1	1	2
80c	Sheet Copper	Lb.			575	575
81a	Project Markers	Each	2			2
81b	Right of Way Markers	" "	2			2
85x	Trash Guards for Special Paving Drains	" "	4			4
89a	Drain Pipe (Concrete Floor)	" "		12		12
46r	Class "A" Concrete (Handrails)	Cu. Yd		1	23	24
15x	Selected Fill	" "	2000			2000



Summary of Approximate Quantities for Entire Bridge

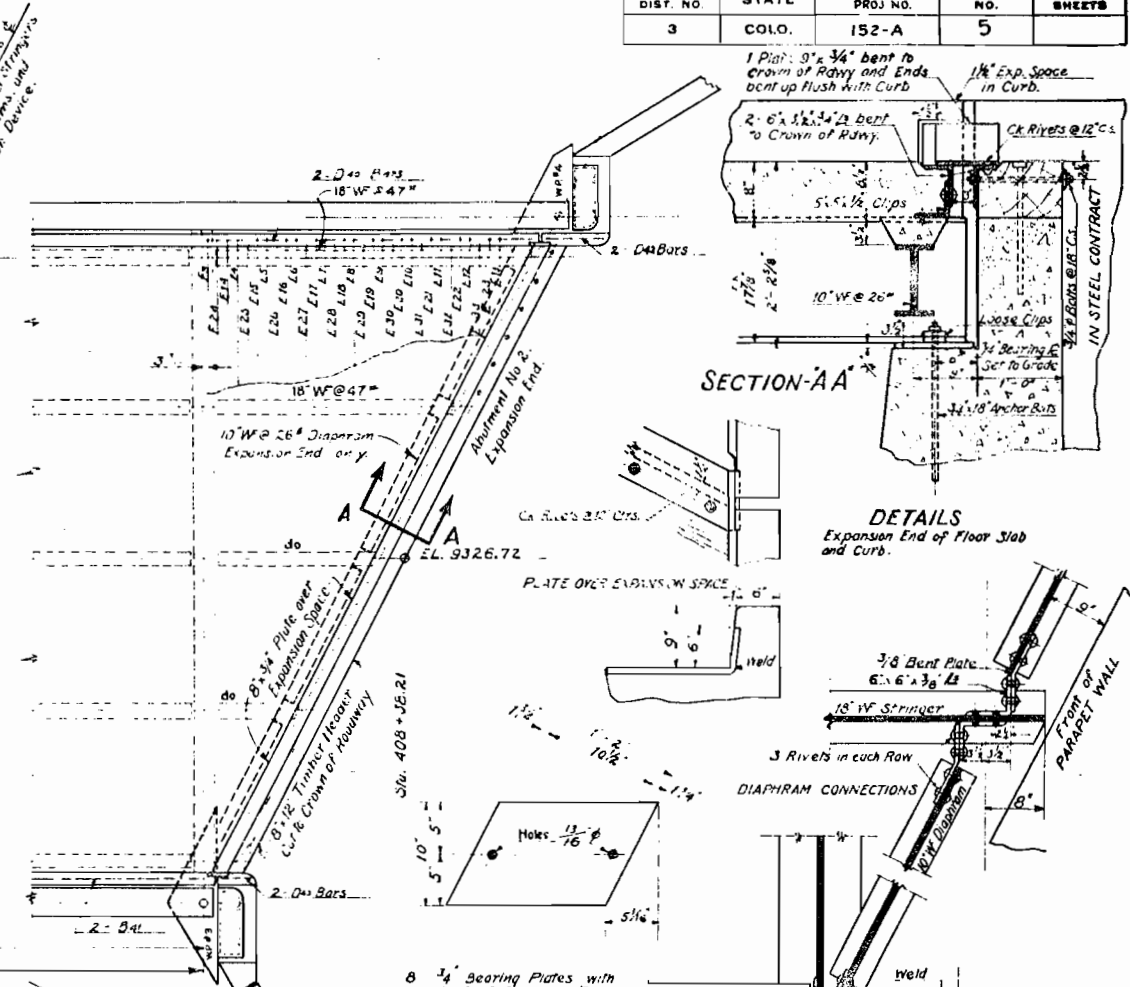
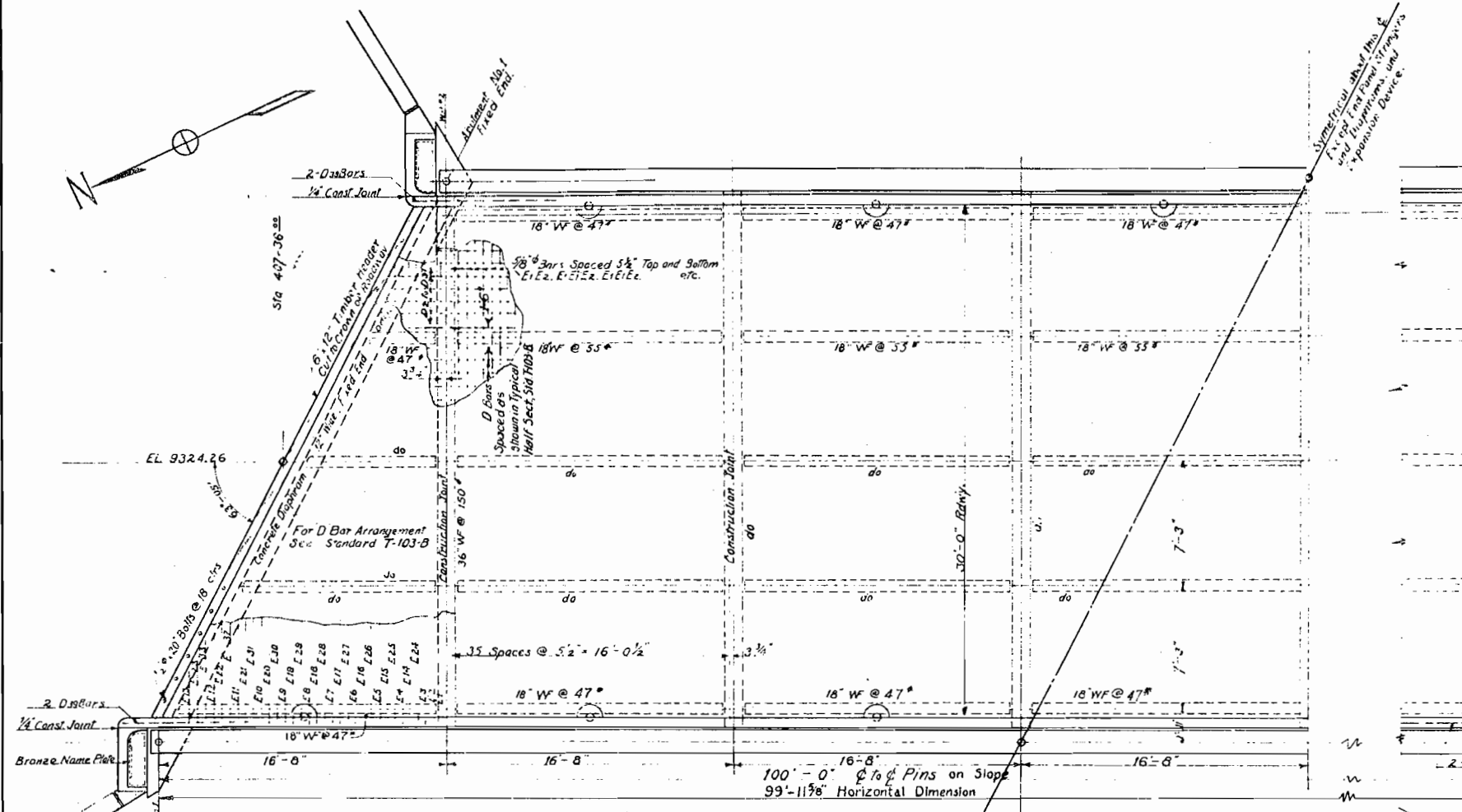
ITEM	DESCRIPTION	UNIT	SUPERSTRUCTURE	ABUTMENT No. 1	ABUTMENT No. 2	TOTALS
11b	Removal of Old Abutments	Imp Sum				
13c	Unclassified Excavation	Cu Yd				9566
14a	Dry Rock Excavation (Str)	Cu Yd				
14b	Dry Common	Cu Yd		5259		5259
14c	Wet Rock	Cu Yd				
14d	Wet Common	Cu Yd		7739	11567	19306
42a	Untreated Bridge Timber	M B m		0704	3280	0484
46a	Class A Concrete	Cu Yd	38	3669	4417	8966
47	Reinforcing Steel (incl. Overrun)	Lb	16383	29115	35205	80703
48	Structural Steel (incl. Overrun)	Lb	133200	60	60	133170
80b	Bronze Name Plate	Each		1		1
89a	Drain Pipe (Concrete Floor)	Each		12		12
	Expansion Joint Material	Lin Ft		55	55	115
46c	Class A Conc. P.P. & Posts	Cu Yd		35	05	1
60a	Treated Timber Piling	Lin Ft		16093	22076	38165
60c	Treated Tim. P. Cut-off	Lin Ft		6951	2814	9765

Contractor billed for 80703lb This amount prorated

BAR LIST - ABUTMENT No 1

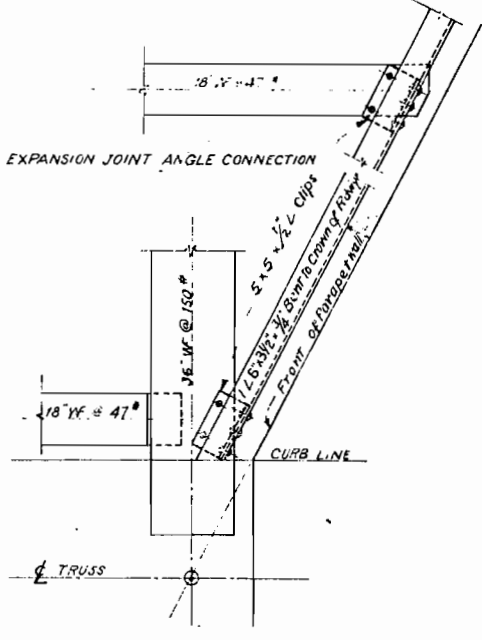
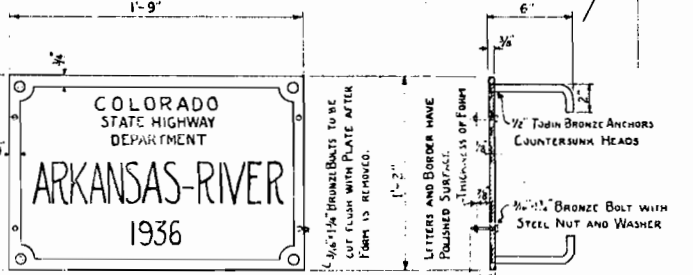
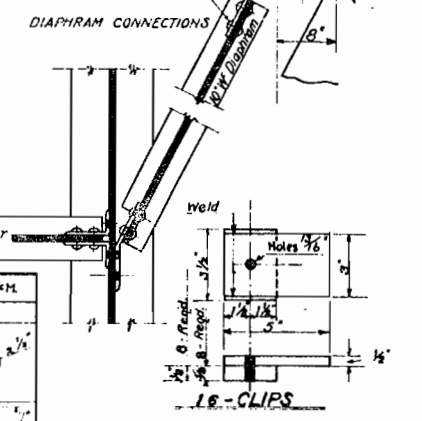
MARK	SIZE	LENGTH	NO.	TOTAL	WEIGHT	MARK	SIZE	LENGTH	NO.	TOTAL	WEIGHT
A1	1/2"	20'-0"	1	1	1.00	A1	1/2"	20'-0"	1	1	1.00
A2	1/2"	15'-0"	1	1	0.75	A2	1/2"	15'-0"	1	1	0.75
A3	1/2"	10'-0"	1	1	0.50	A3	1/2"	10'-0"	1	1	0.50
A4	1/2"	5'-0"	1	1	0.25	A4	1/2"	5'-0"	1	1	0.25
A5	1/2"	20'-0"	1	1	1.00	A5	1/2"	20'-0"	1	1	1.00
A6	1/2"	15'-0"	1	1	0.75	A6	1/2"	15'-0"	1	1	0.75
A7	1/2"	10'-0"	1	1	0.50	A7	1/2"	10'-0"	1	1	0.50
A8	1/2"	5'-0"	1	1	0.25	A8	1/2"	5'-0"	1	1	0.25
A9	1/2"	20'-0"	1	1	1.00	A9	1/2"	20'-0"	1	1	1.00
A10	1/2"	15'-0"	1	1	0.75	A10	1/2"	15'-0"	1	1	0.75
A11	1/2"	10'-0"	1	1	0.50	A11	1/2"	10'-0"	1	1	0.50
A12	1/2"	5'-0"	1	1	0.25	A12	1/2"	5'-0"	1	1	0.25
A13	1/2"	20'-0"	1	1	1.00	A13	1/2"	20'-0"	1	1	1.00
A14	1/2"	15'-0"	1	1	0.75	A14	1/2"	15'-0"	1	1	0.75
A15	1/2"	10'-0"	1	1	0.50	A15	1/2"	10'-0"	1	1	0.50
A16	1/2"	5'-0"	1	1	0.25	A16	1/2"	5'-0"	1	1	0.25
A17	1/2"	20'-0"	1	1	1.00	A17	1/2"	20'-0"	1	1	1.00
A18	1/2"	15'-0"	1	1	0.75	A18	1/2"	15'-0"	1	1	0.75
A19	1/2"	10'-0"	1	1	0.50	A19	1/2"	10'-0"	1	1	0.50
A20	1/2"	5'-0"	1	1	0.25	A20	1/2"	5'-0"	1	1	0.25
A21	1/2"	20'-0"	1	1	1.00	A21	1/2"	20'-0"	1	1	1.00
A22	1/2"	15'-0"	1	1	0.75	A22	1/2"	15'-0"	1	1	0.75
A23	1/2"	10'-0"	1	1	0.50	A23	1/2"	10'-0"	1	1	0.50
A24	1/2"	5'-0"	1	1	0.25	A24	1/2"	5'-0"	1	1	0.25
A25	1/2"	20'-0"	1	1	1.00	A25	1/2"	20'-0"	1	1	1.00
A26	1/2"	15'-0"	1	1	0.75	A26	1/2"	15'-0"	1	1	0.75
A27	1/2"	10'-0"	1	1	0.50	A27	1/2"	10'-0"	1	1	0.50
A28	1/2"	5'-0"	1	1	0.25	A28	1/2"	5'-0"	1	1	0.25
A29	1/2"	20'-0"	1	1	1.00	A29	1/2"	20'-0"	1	1	1.00
A30	1/2"	15'-0"	1	1	0.75	A30	1/2"	15'-0"	1	1	0.75
A31	1/2"	10'-0"	1	1	0.50	A31	1/2"	10'-0"	1	1	0.50
A32	1/2"	5'-0"	1	1	0.25	A32	1/2"	5'-0"	1	1	0.25
A33	1/2"	20'-0"	1	1	1.00	A33	1/2"	20'-0"	1	1	1.00
A34	1/2"	15'-0"	1	1	0.75	A34	1/2"	15'-0"	1	1	0.75
A35	1/2"	10'-0"	1	1	0.50	A35	1/2"	10'-0"	1	1	0.50
A36	1/2"	5'-0"	1	1	0.25	A36	1/2"	5'-0"	1	1	0.25
A37	1/2"	20'-0"	1	1	1.00	A37	1/2"	20'-0"	1	1	1.00
A38	1/2"	15'-0"	1	1	0.75	A38	1/2"	15'-0"	1	1	0.75
A39	1/2"	10'-0"	1	1	0.50	A39	1/2"	10'-0"	1	1	0.50
A40	1/2"	5'-0"	1	1	0.25	A40	1/2"	5'-0"	1	1	0.25
A41	1/2"	20'-0"	1	1	1.00	A41	1/2"	20'-0"	1	1	1.00
A42	1/2"	15'-0"	1	1	0.75	A42	1/2"	15'-0"	1	1	0.75
A43	1/2"	10'-0"	1	1	0.50	A43	1/2"	10'-0"	1	1	0.50
A44	1/2"	5'-0"	1	1	0.25	A44	1/2"	5'-0"	1	1	0.25
A45	1/2"	20'-0"	1	1	1.00	A45	1/2"	20'-0"	1	1	1.00
A46	1/2"	15'-0"	1	1	0.75	A46	1/2"	15'-0"	1	1	0.75
A47	1/2"	10'-0"	1	1	0.50	A47	1/2"	10'-0"	1	1	0.50
A48	1/2"	5'-0"	1	1	0.25	A48	1/2"	5'-0"	1	1	0.25
A49	1/2"	20'-0"	1	1	1.00	A49	1/2"	20'-0"	1	1	1.00
A50	1/2"	15'-0"	1	1	0.75	A50	1/2"	15'-0"	1	1	0.75
A51	1/2"	10'-0"	1	1	0.50	A51	1/2"	10'-0"	1	1	0.50
A52	1/2"	5'-0"	1	1	0.25	A52	1/2"	5'-0"	1	1	0.25
A53	1/2"	20'-0"	1	1	1.00	A53	1/2"	20'-0"	1	1	1.00
A54	1/2"	15'-0"	1	1	0.75	A54	1/2"	15'-0"	1	1	0.75
A55	1/2"	10'-0"	1	1	0.50	A55	1/2"	10'-0"	1	1	0.50
A56	1/2"	5'-0"	1	1	0.25	A56	1/2"	5'-0"	1	1	0.25
A57	1/2"	20'-0"	1	1	1.00	A57	1/2"	20'-0"	1	1	1.00
A58	1/2"	15'-0"	1	1	0.75	A58	1/2"	15'-0"	1	1	0.75
A59	1/2"	10'-0"	1	1	0.50	A59	1/2"	10'-0"	1	1	0.50
A60	1/2"	5'-0"	1	1	0.25	A60	1/2"	5'-0"	1	1	0.25
A61	1/2"	20'-0"	1	1	1.00	A61	1/2"	20'-0"	1	1	1.00
A62	1/2"	15'-0"	1	1	0.75	A62	1/2"	15'-0"	1	1	0.75
A63	1/2"	10'-0"	1	1	0.50	A63	1/2"	10'-0"	1	1	0.50
A64	1/2"	5'-0"	1	1	0.25	A64	1/2"	5'-0"	1	1	0.25
A65	1/2"	20'-0"	1	1	1.00	A65	1/2"	20'-0"	1	1	1.00
A66	1/2"	15'-0"	1	1	0.75	A66	1/2"	15'-0"	1	1	0.75
A67	1/2"	10'-0"	1	1	0.50	A67	1/2"	10'-0"	1	1	0.50
A68	1/2"	5'-0"	1	1	0.25	A68	1/2"	5'-0"	1	1	0.25
A69	1/2"	20'-0"	1	1	1.00	A69	1/2"	20'-0"	1	1	1.00
A70	1/2"	15'-0"	1	1	0.75	A70	1/2"	15'-0"	1	1	0.75
A71	1/2"	10'-0"	1	1	0.50	A71	1/2"	10'-0"	1	1	0.50
A72	1/2"	5'-0"	1	1	0.25	A72	1/2"	5'-0"	1	1	0.25
A73	1/2"	20'-0"	1	1	1.00	A73	1/2"	20'-0"	1	1	1.00
A74	1/2"	15'-0"	1	1	0.75	A74	1/2"	15'-0"	1	1	0.75
A75	1/2"	10'-0"	1	1	0.50	A75	1/2"	10'-0"	1	1	0.50
A76	1/2"	5'-0"	1	1	0.25	A76	1/2"	5'-0"	1	1	0.25
A77	1/2"	20'-0"	1	1	1.00	A77	1/2"	20'-0"	1	1	1.00
A78	1/2"	15'-0"	1	1	0.75	A78	1/2"	15'-0"	1	1	0.75
A79	1/2"	10'-0"	1	1	0.50	A79	1/2"	10'-0"	1	1	0.50
A80	1/2"	5'-0"	1	1	0.25	A80	1/2"	5'-0"	1	1	0.25
A81	1/2"	20'-0"	1	1	1.00	A81	1/2"	20'-0"	1	1	1.00
A82	1/2"	15'-0"	1	1	0.75	A82	1/2"	15'-0"	1	1	0.75
A83	1/2"	10'-0"	1	1	0.50	A83	1/2"	10'-0"	1	1	0.50
A84	1/2"	5'-0"	1	1	0.25	A84	1/2"	5'-0"	1	1	0.25
A85	1/2"	20'-0"	1	1	1.00	A85	1/2"	20'-0"	1	1	1.00
A86	1/2"	15'-0"	1	1	0.75	A86	1/2"	15'-0"	1	1	0.75
A87	1/2"	10'-0"	1	1	0.50	A87	1/2"	10'-0"	1	1	0.50
A88	1/2"	5'-0"	1	1	0.25	A88	1/2"	5'-0"	1	1	0.25
A89	1/2"	20'-0"	1	1	1.00	A89	1/2"	20'-0"	1	1	1.00
A90	1/2"	15'-0"	1	1	0.75	A90	1/2"	15'-0"	1	1	0.75
A91	1/2"	10'-0"	1	1	0.50	A91	1/2"	10'-0"	1	1	0.50
A92	1/2"	5'-0"	1	1	0.25	A92	1/2"	5'-0"	1	1	0.25
A93	1/2"	20'-0"	1	1	1.00	A93	1/2"	20'-0"	1	1	1.00
A94	1/2"	15'-0"	1	1	0.75	A94	1/2"	15'-0"	1	1	0.75
A95	1/2"	10'-0"	1	1	0.50	A95	1/2"	10'-0"	1	1	0.50
A96	1/2"	5'-0"	1	1	0.25	A96	1/2"	5'-0"	1	1	0.25
A97	1/2"	20'-0"	1	1	1.00	A97	1/2"	20'-0"	1	1	1.00
A98	1/2"										

FED. ROAD DIST. NO.	STATE	W.P.G.H. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	152-A	5	



SECTION-AA

DETAILS
Expansion End of Floor Slab and Curb.



Mark	Size	No	Req'd	Length	W.M.M.
E1	3/8"	242	32'-0"	30'-4"	
E3	1/2"	40	30'-11"	29'-3"	
E11	3/8"	28	3'-10"	2'-2"	by 2'-8 1/2"
E4	3/8"	29	1'-2"	27'-3 1/2"	
E23	3/8"	2	1'-9"	3'-1"	by 2'-8 1/2"
E24	3/8"	2	30'-8"	4'-6"	3 Spaces @ 10'-6"
E25	3/8"	2	28'-8"	7'-10"	N-21'-9"
E26	3/8"	2	25'-0"	6'-3 1/2"	N-21'-9"
E27	3/8"	2	22'-4"	3'-7 1/2"	N-14'-6"
E28	3/8"	2	19'-5"	1'-0"	N-14'-6"
E29	3/8"	2	16'-8"	5'-3"	N-7'-3"
E30	3/8"	2	14'-0"	2'-9"	N-7'-3"
E31	3/8"	2	11'-4"	1'-0"	N-7'-3"
E2	3/8"	61	32'-9"	5'-6"	Space N-7'-3"
E32	3/8"	2	8'-4"	4'-6 1/2"	by 3'-3"
E33	3/8"	2	5'-8"	1'-10 1/2"	by 3'-3"

SUMMARY	
D1	200 16'-6"
D2 to D10	2 0'-6" to 3'-5" by 4 3/8"
D11 to D19	2 4'-2" to 7'-1" by 4 3/8"
D20 to D28	2 7'-10" to 10'-9" by 4 3/8"
D29 to D37	2 11'-6" to 14'-5" by 4 3/8"
D38	2 1'-5" to 2'-2"
D39	2 0'-6" to 1'-6"
D40	2 1'-5" to 1'-6"
D41	2 1'-6" to 1'-10"
D42	2 2'-9" to 2'-9"
D43	2 1'-4" to 1'-4"

15770 LIN. FT. OF 3/8" P BAR STEEL
@ 1.043 LBS PER FT. = 16448 LBS
+ 1% OVERRUN = 152
TOTAL = 16600 LBS

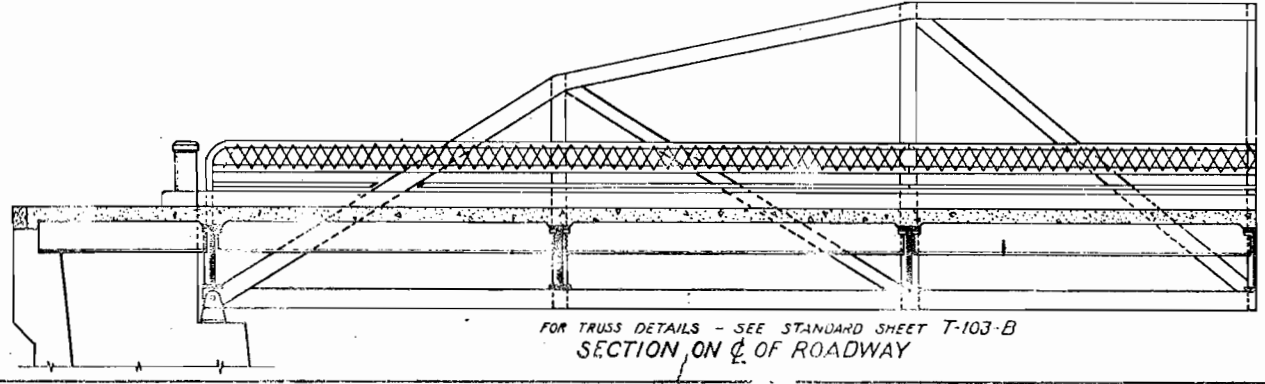
REFERENCE DRAWINGS
SHEET NO. 3 GENERAL LAYOUT, SUMMARY OF QUANTITIES, BAR LISTS FOR ABUTMENTS.
SHEET NO. 4 100 FT. SPAN STEEL LOW TRUSS STANDARD T-103-B
SHEET NO. 6 DETAILS OF ABUTMENT NO. 1
SHEET NO. 7 DETAILS OF ABUTMENT NO. 2

LOADING DATA.
LIVE LOAD A.S.H.O. 1933 CLASS A 'H-18'
DEAD LOAD ASSUMES 18 LBS. PER SQ. FT.
ADDITIONAL WEARING SURFACE WHICH INCLUDES THE 1/2" IN CONCRETE MONOLITHIC WEARING SURFACE SHOWN.

COLORADO STATE HIGHWAY DEPARTMENT
ADDITIONAL DETAILS
FOR
STANDARD T-103-B
ACROSS ARKANSAS RIVER
Sta. 407+36 to 408+38.21
Near MALTA Sec. 22, T. 10S. R. 80 W

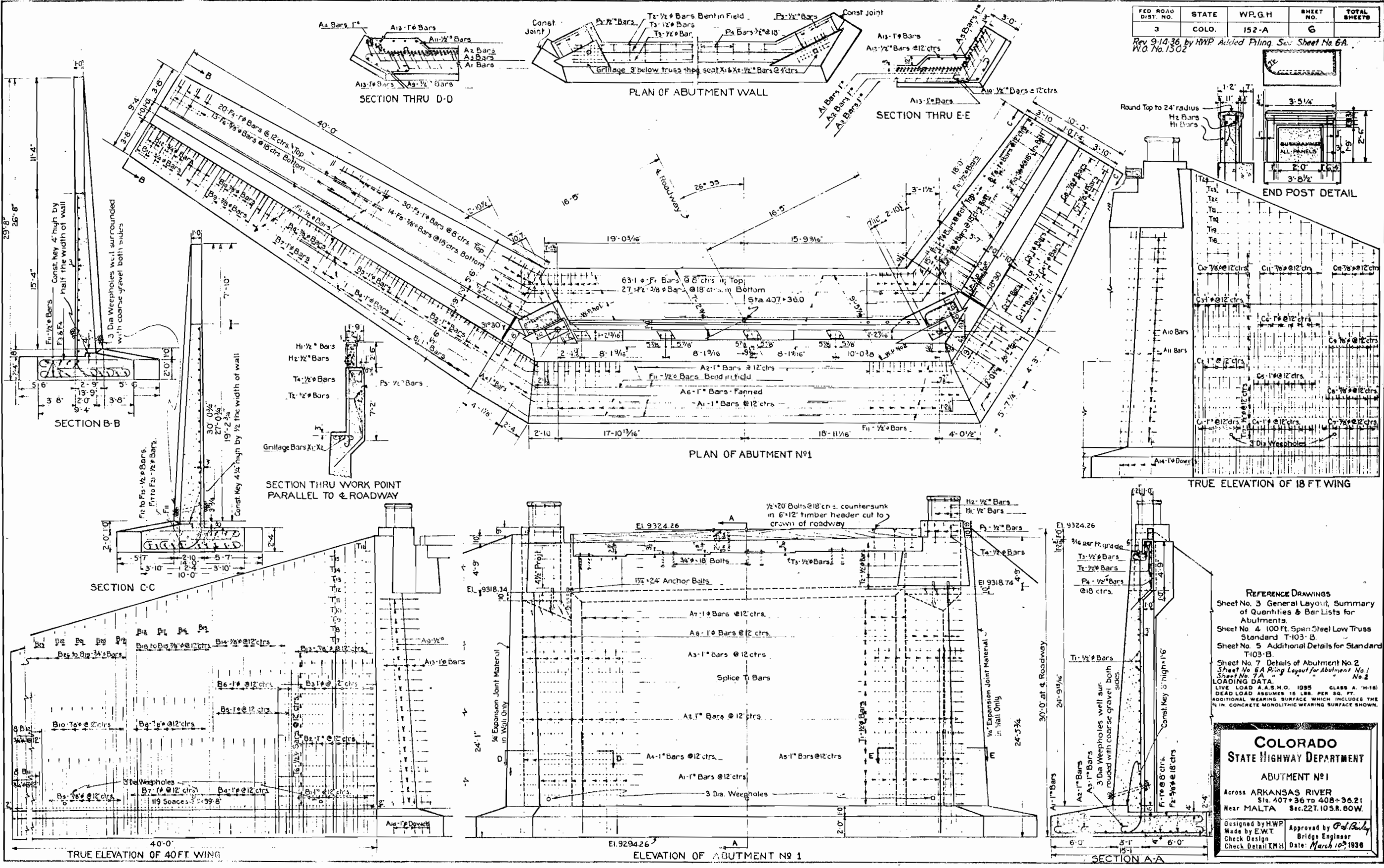
Designed by HWP
Made by GCD
Check Design
Check Detail WMM

Approved by O. J. Bailey
Bridge Engineer
Date: March 10, 1936



FED. ROAD DIST. NO.	STATE	WR. G.H.	SHEET NO.	TOTAL SHEETS
3	COLO.	152-A	6	

Rev 9-14-36 by HWP Added Piling See Sheet No. 6A.
W.O. No. 1502



REFERENCE DRAWINGS
 Sheet No. 3 General Layout, Summary of Quantities & Bar Lists for Abutments.
 Sheet No. 4 100 Ft. Span Steel Low Truss Standard T-103-B.
 Sheet No. 5 Additional Details for Standard T-103-B.
 Sheet No. 7 Details of Abutment No. 2.
 Sheet No. 6A Piling Layout for Abutment No. 1.
 Sheet No. 7A Details of Abutment No. 2.

LOADING DATA
 LIVE LOAD A.A.S.H.O. 1095 CLASS A (H-18)
 DEAD LOAD ASSUMES 15 LBS. PER SQ. FT.
 ADDITIONAL WEARING SURFACE WHICH INCLUDES THE 1/2" IN CONCRETE MONOLITHIC WEARING SURFACE SHOWN.

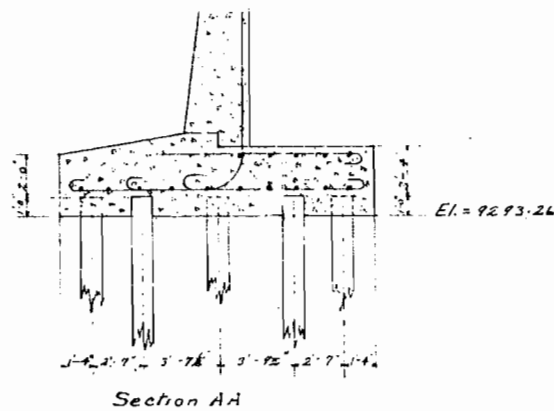
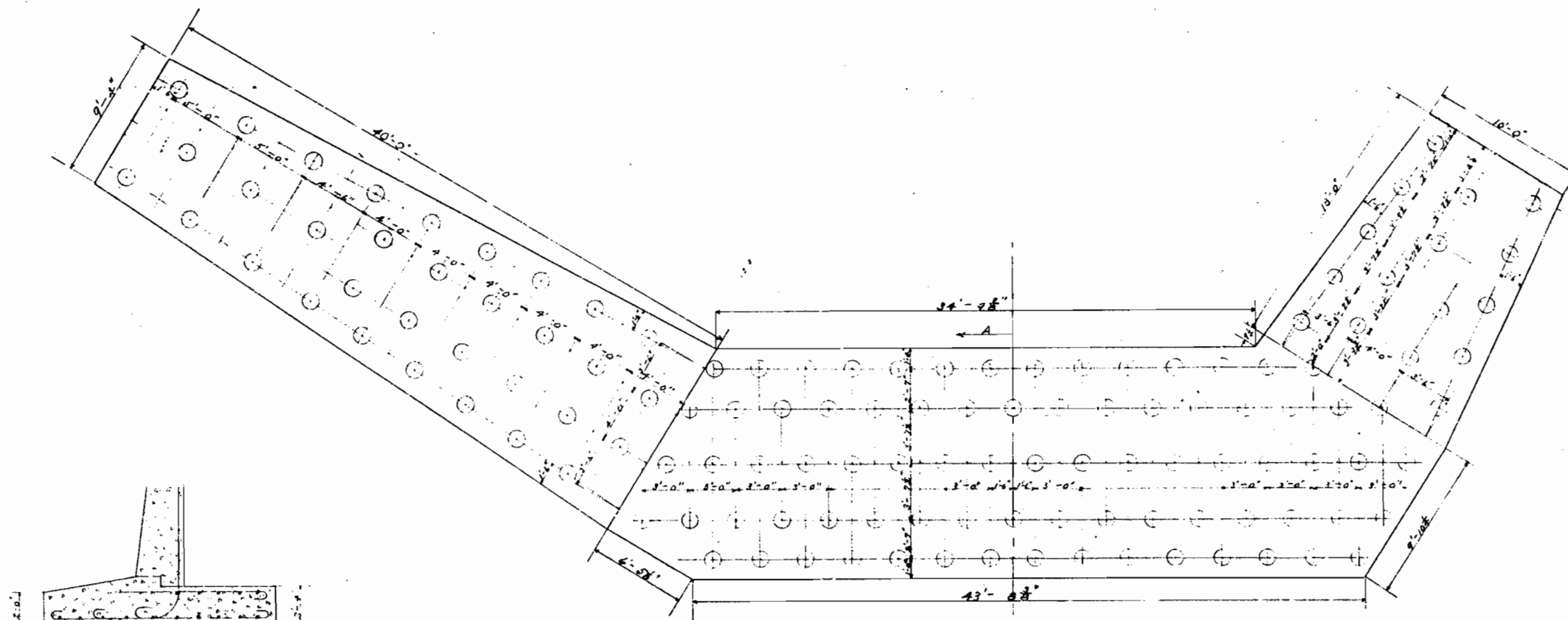
COLORADO STATE HIGHWAY DEPARTMENT
ABUTMENT N#1
 Across ARKANSAS RIVER
 Sta. 407+36.21 to 408+36.21
 Near MALTA Sec. 22, T109S. R. 80W.

Designed by HWP
 Made by E.W.T.
 Check Design
 Check Detail TMH

Approved by *Paul Bailey*
 Bridge Engineer
 Date: March 10, 1936

FED. ROAD DIST. NO.	STATE	PROJECT NO. W.P.G.M.	SHEET NO.	TOTAL SHEETS
3	COLO.	152-A	5-A	

Additional Sheet 9-14-36, See W.O. No. 1302
 Work with sheet No. 6
 Revised 4, Constructed 3-2-38 RAD.

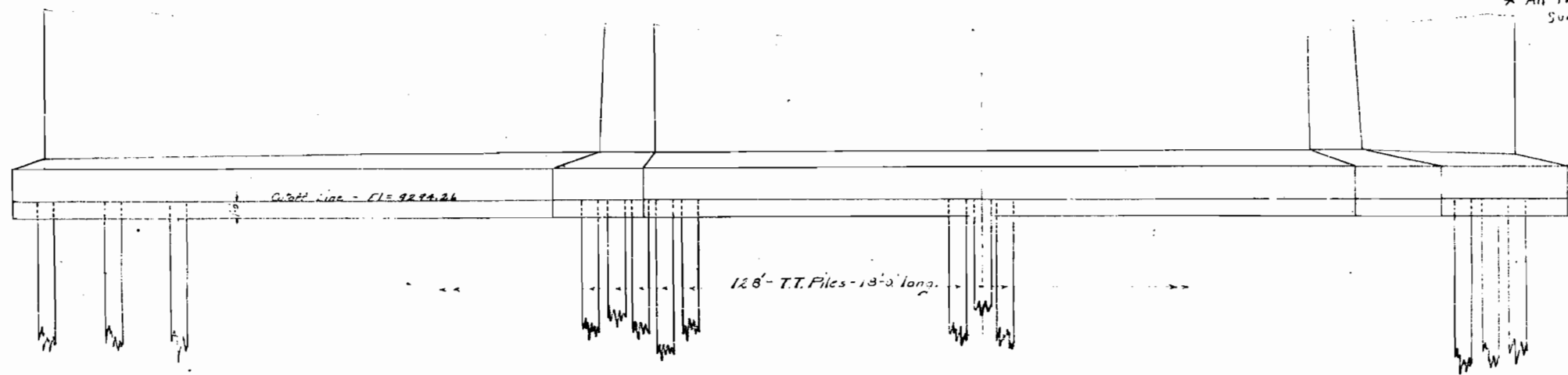


Plan of Pile Support - Abutment No. 1.

* Summary of Quantities in Pile Foundation

Item	Description	Unit	Abut. No. 1	Abut. No. 2	Totals
143	1 1/2" Diameter Exc. Co. Yd.		60.	68	128
442	Class A Concrete Co. Yd.		51.5	59.0	110.5
602	Treated Timber Piling Lin. Ft.		2,304'	2950'	4662'

* All the quantities shown in Summary on sheet #3.



COLORADO
 STATE HIGHWAY DEPARTMENT

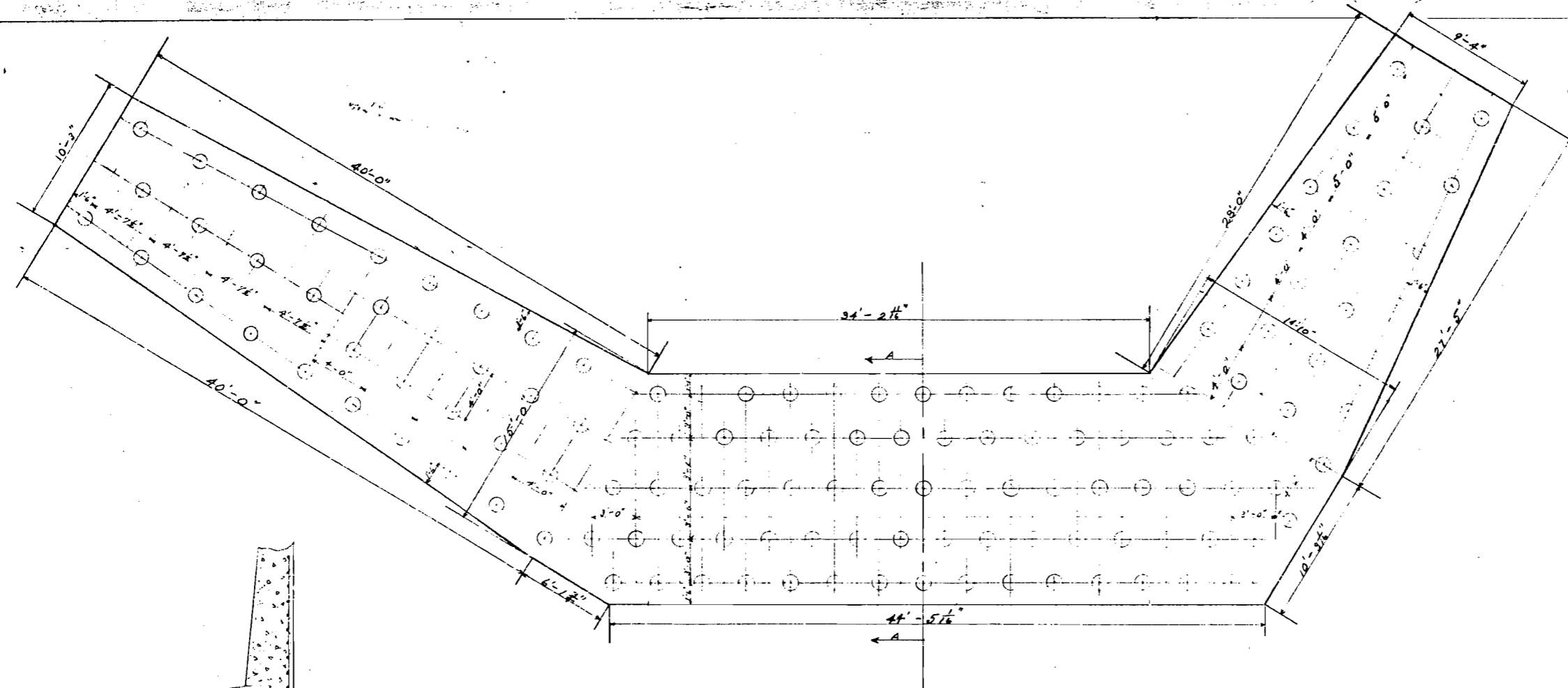
ABUTMENT NO. 1
 ACROSS ARKANSAS RIVER
 Sta. 407+36 to 408+38.21
 Near MALTA Sec. 22, T. 109, R. 80W

Designed by H.W.P.
 Made by H.W.P.
 Check Design
 Check Detail

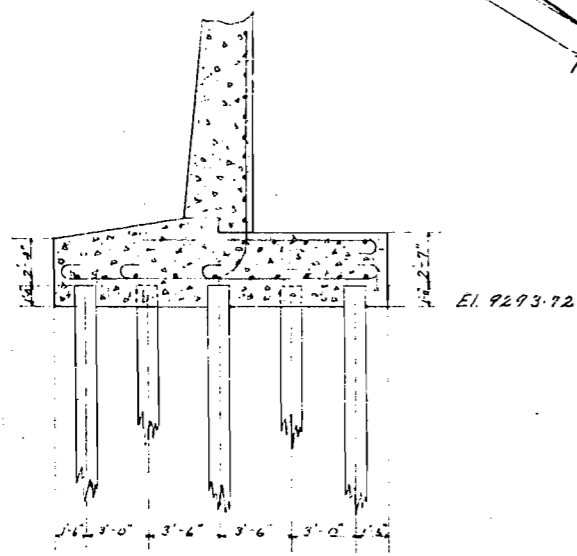
Approved by *P.D. Bailey*
 Bridge Engineer
 Date: *Sept 18, 1936*

FED. ROAD DIST. NO.	STATE	W. D. G. H. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLORADO	152-A	7-A	

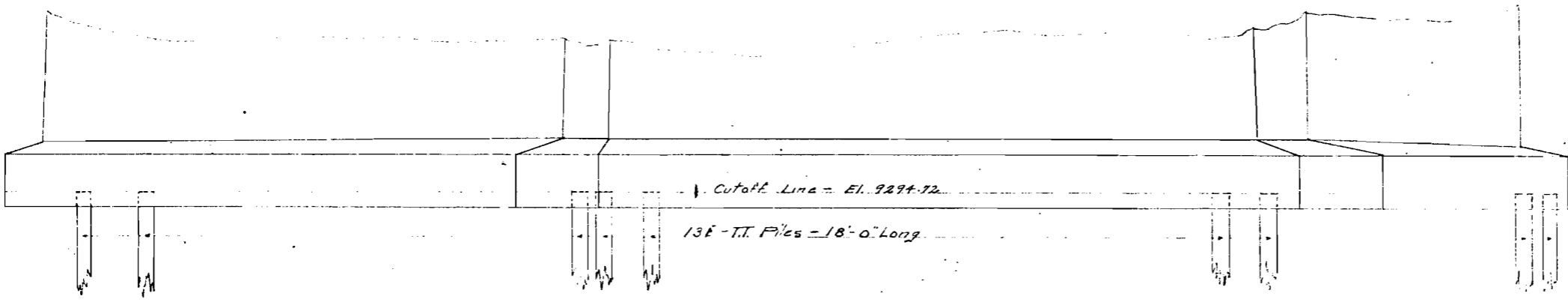
Additional Sheet 9-14-38. See WD. No. 1502
Work with sheet No. 7



Plan of Pile Support - Abutment No 2



Section AA



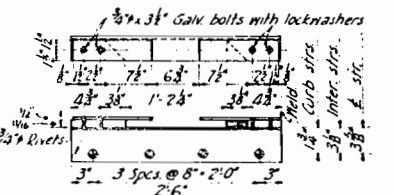
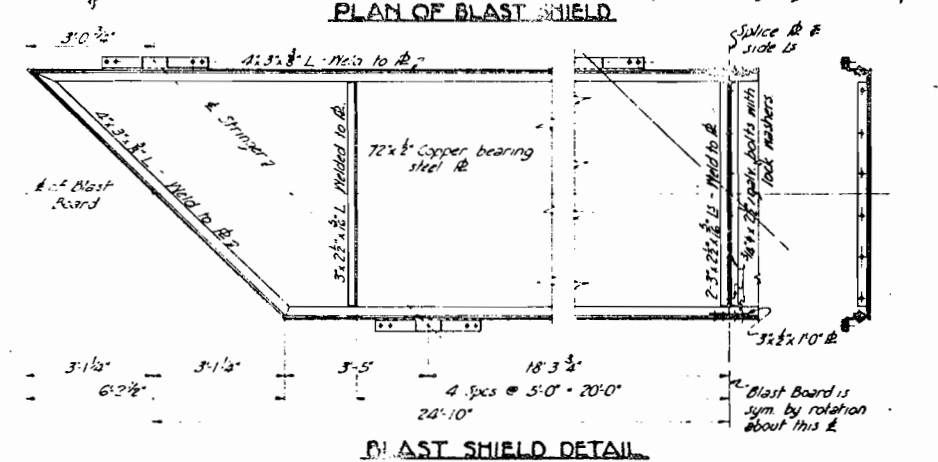
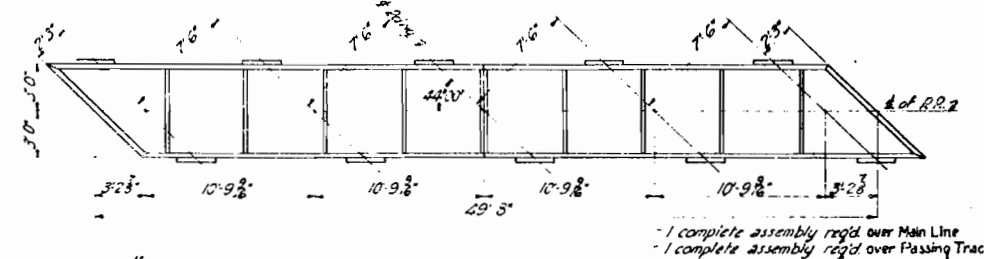
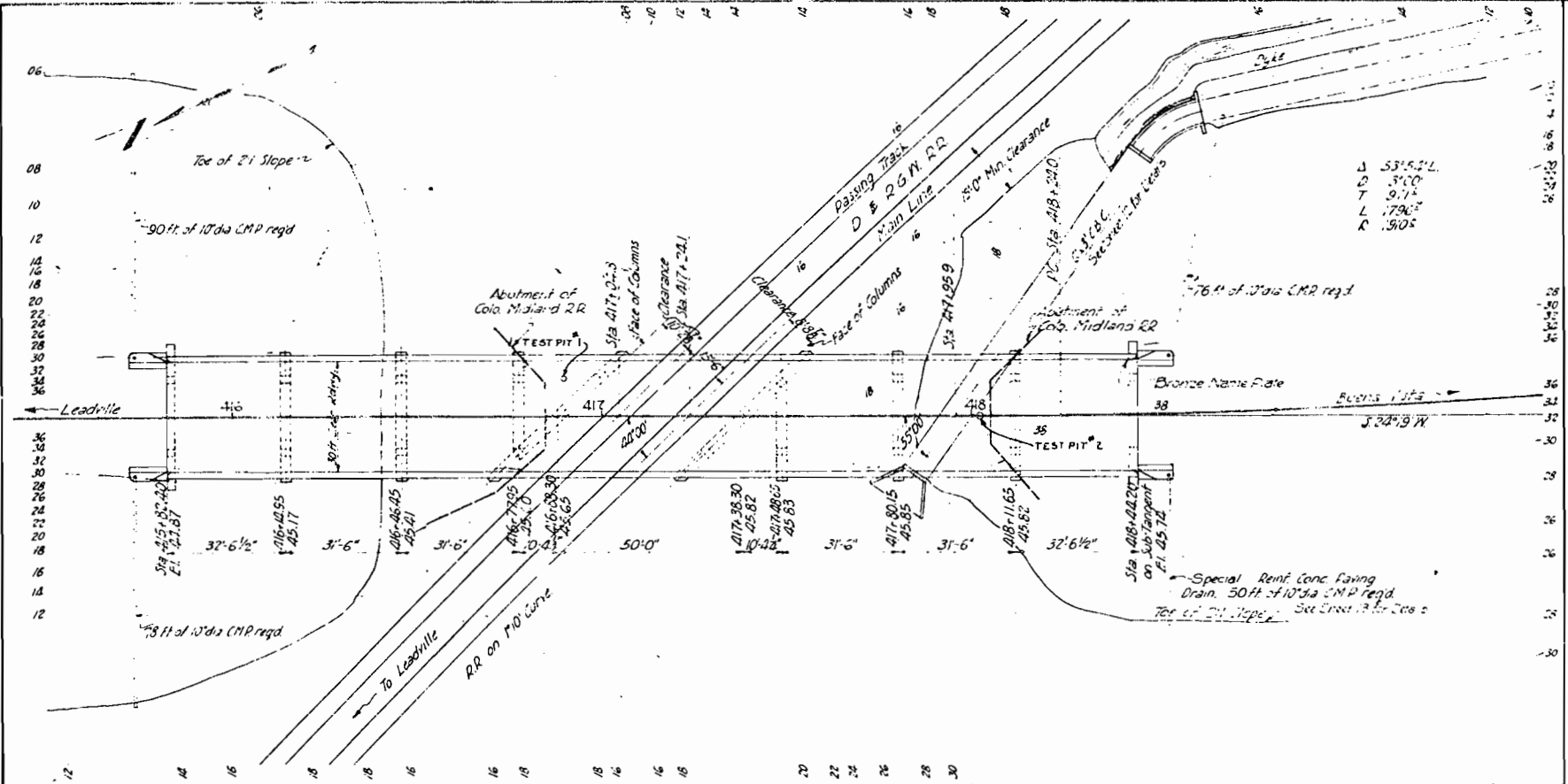
COLORADO
STATE HIGHWAY DEPARTMENT
ABUTMENT NO 2

ACROSS ARKANSAS RIVER
Sta 407+36 TO 408+38.21
Near MALTA Sec. 22, T10S, R. 80W.

Designed by HW P. Approved by *R. B. [Signature]*
Made by HW P. Bridge Engineer
Check Design Date: *5-15-1936*
Check Detail

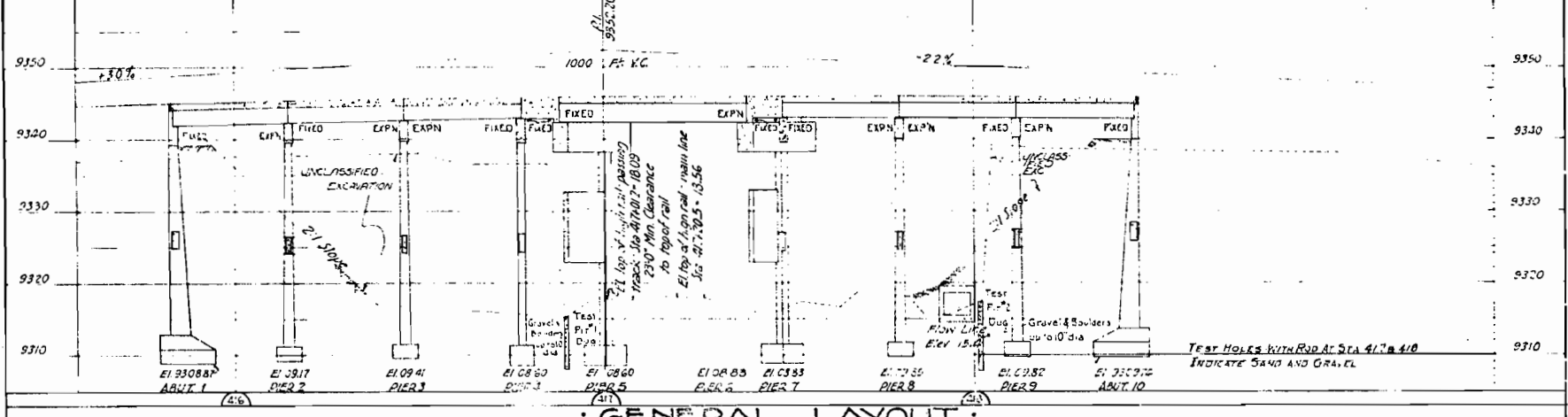
FED. ROAD DIST. NO.	STATE	PROJ. NO. W.P.G.M.	SHEET NO.	TOTAL SHEETS
3	COLO.	152-A	8	

REVISED 4-17-36 - TEST PITS ADDED - T.G.
 REVISED 4-27-36 - CLASS A CONC QUANTITIES IN 2 ITEMS - T.G.
 Rev 7-13-36 Hand rail conc. H.E.S.
 Rev 7-23-36 by E.G. Summary of Quantities See W.O. #225
 Revised As Constructed 3-2-38 RAD



CLIP ANGLE DETAIL
 4'-3 1/2" x 3'-3 3/4" reqd for curb stringers
 6'-5" x 3 1/2" x 3/8" I.B. reqd for all other stringers

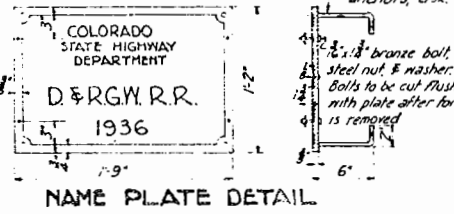
REFERENCE DRAWINGS
 Details of Superstructure - Sheet No. 9
 Details of Abutments 1 & 10 and Piers 2, 3, 8, 9, & Superstructure B - List - Sheet No. 10
 Details of Piers 4, 5, 6, & 7 - Sheet No. 11
 Details of Special Box Culvert - Sheet No. 12



GENERAL LAYOUT

ITEM NO.	ITEM	UNIT	SUPERSTRUCT.	SPECIAL BOX CULVERT	ABUTS 1 & 10	PIERS 2,3,8,9	PIERS 4,5,6,7	TOTAL
11-2	REMOVAL OF OLD ABUTMENTS	CU YDS						
11-3	200' ROCK STRUCTURAL EXCAVATION ON	CU YDS						
11-4	600' COMMON STRUCTURAL EXCAVATION	CU YDS		170.7	508.1	271.3	32.7	1032.8
11-5	100' ROCK STRUCTURAL EXCAVATION	CU YDS						
11-6	100' COMMON STRUCTURAL EXCAVATION	CU YDS		42	54.4	59.2	71.2	188.3
11-7	CLASSED BRIDGE TIMBER	CU YDS	0.524					0.524
11-8	TRANSPORTING STEEL (185 CY 2000M INCLD)	CU YDS	20.82		103.8	132.0	157.0	413.6
11-9	1/4" MILD STEEL (172.5 CY 2000M INCLD)	CU YDS	8.5	53.604	198.1	132.0	220.9	513.0
11-10	CLASS A CONCRETE TAND RAILS & POSTS	CU YDS	21.8					21.8
11-11	BRIDGE NAME PLATE	CU YDS						
11-12	SHEET COPPER (38-0/10)	CU YDS						
11-13	UNCLASSIFIED EXCAVATION	CU YDS						2115.5
	1/2" EAPN JOINT MATERIAL - 12" WIDE	LIN FT		67				67
	3/4" EAPN JOINT MATERIAL - 12" WIDE	LIN FT		11.3				11.3

* Includes 6200 lbs. Copper bearing steel blast plate
 † Calculated according to amounts shown on contractors invoices



NAME PLATE DETAIL

LOADING DATA.
 LIVE LOAD A.A.S.H.O. 1935, CLASS A, H-15
 DEAD LOAD ASSUMES 15 LBS. PER SQ. FT.
 ADDITIONAL WEARING SURFACE WHICH INCLUDES THE
 1/4" CONCRETE MONOLITHIC WEARING SURFACE SHOWN

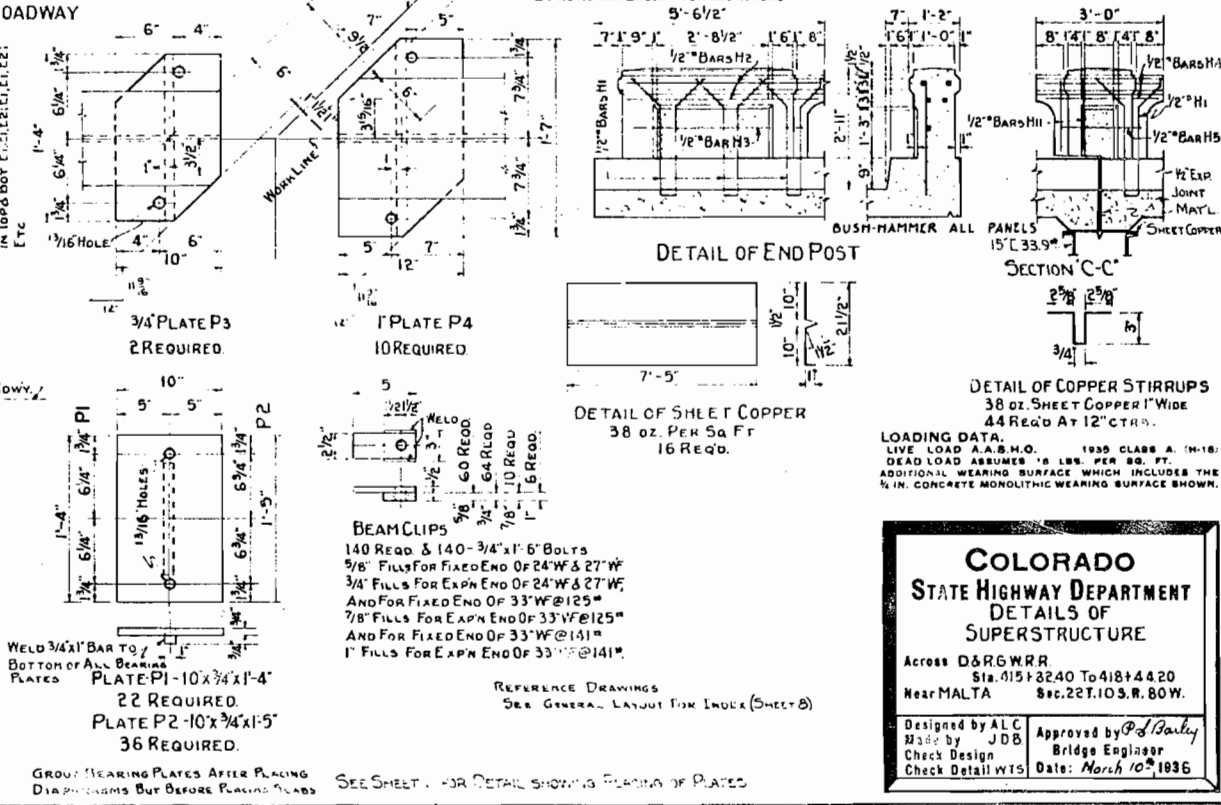
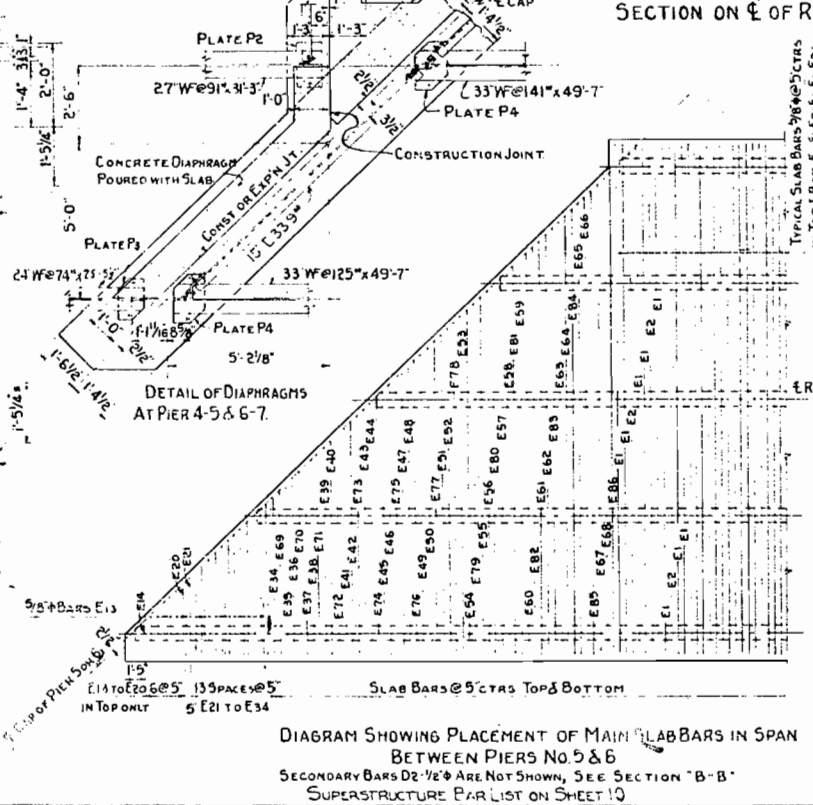
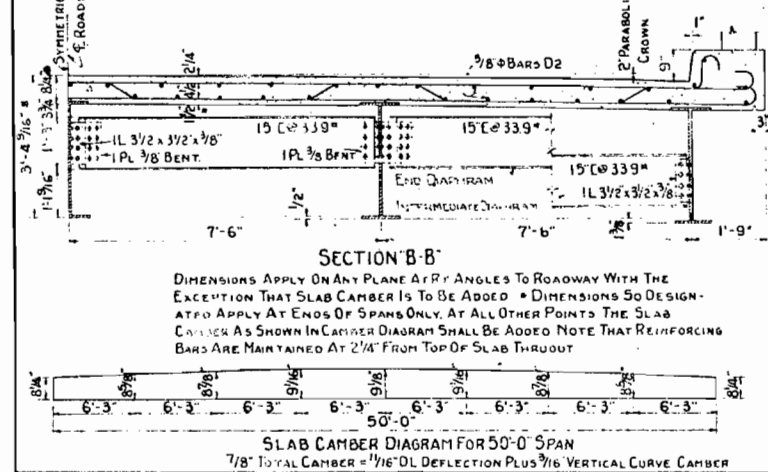
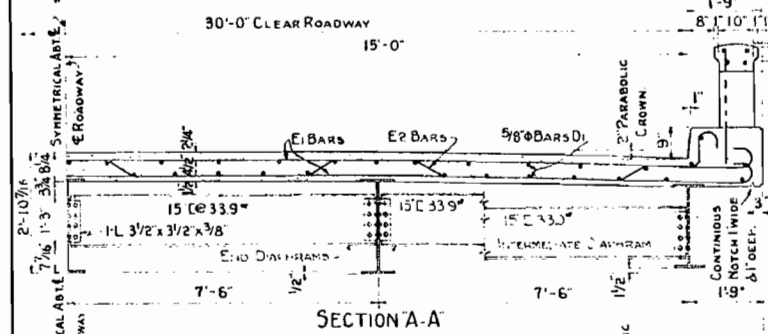
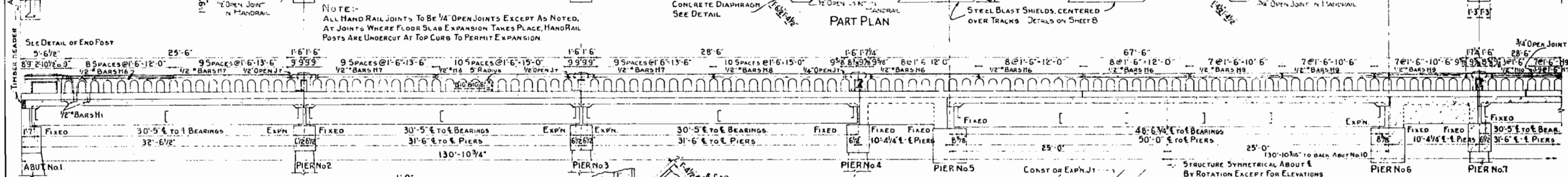
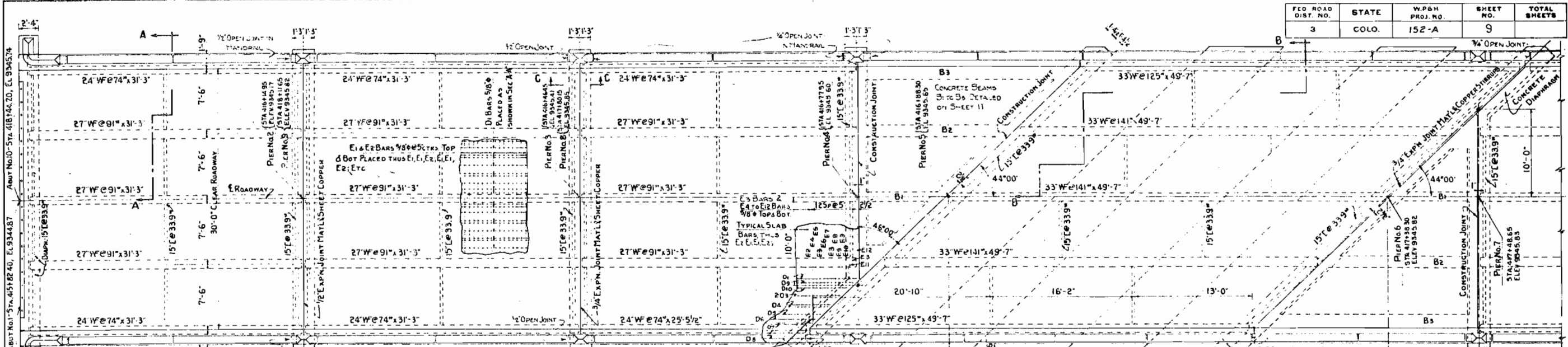
GENERAL NOTES:
 ALL WORK SHALL BE DONE ACCORDING TO THE STANDARD SPECIFICATIONS OF THE
 COLORADO STATE HIGHWAY DEPARTMENT, ADOPTED AUG. 1, 1935.
 ALL CONCRETE SHALL BE CLASS A
 FORMS FOR CONCRETE SURFACES FINISHED IN THE FINISHED WORK SHALL BE LUBRICATED
 WITH OIL OR SOAP OR TONGUE AND GROOVE LUMBER 8" UNLESS FACED WITH
 PANEL BOARD.
 CONCRETE JOISTS, CURB SLABS AND CURB SHALL BE POURED MONOLITHICALLY
 FOOTINGS IN ROCK SHALL BE POURED INTO THE ROCK AND NOT FORMED.
 ALL REINFORCING BARS SHALL BE DEFORMED AND TAPPED WITH THE STATION NUMBER
 AND LETTER DESIGNATION. MAIN BARS SHALL NOT BE SPLICED.
 SOUNDINGS AND DEPTH OF FOOTINGS SHOWN ARE ACCORDING TO THE BEST AVAILABLE
 DATA. ESSENTIALLY DIFFERENT CONDITIONS ARE ENCOUNTERED THE BRIDGE
 ENGINEER WILL INQUIRE AND DETERMINE. FOUNDATION IS NECESSARY.
 ALL PILES SHALL BE 8" Ø, FIELD PILES SHALL BE POWER DRIVEN.

COLORADO STATE HIGHWAY DEPARTMENT
GENERAL LAYOUT, GENERAL NOTES, SUMMARY OF QUANTITIES, DETAILS OF BLAST SHIELD & NAME PLATE
 Across D & R G W. R. R.
 Sta. 415+82.00 to 418+44.20
 Near Malla, Sec. 22 T. 10 S. R. 80 W.

Designed by HES
 Made by HES
 Check Design
 Check Detail T.M.H.

Approved by P. J. Lynch
 Bridge Engineer
 Date: March 10, 1936

FED. ROAD DIST. NO.	STATE	W.P.G.H. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	152-A	9	



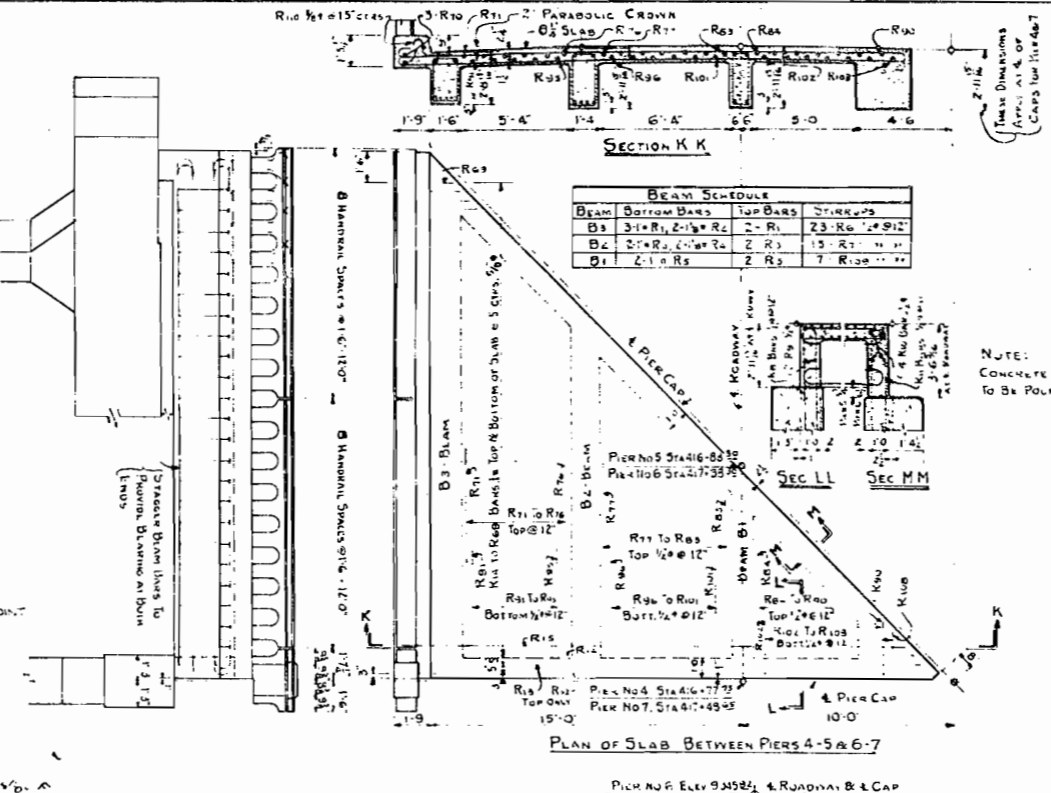
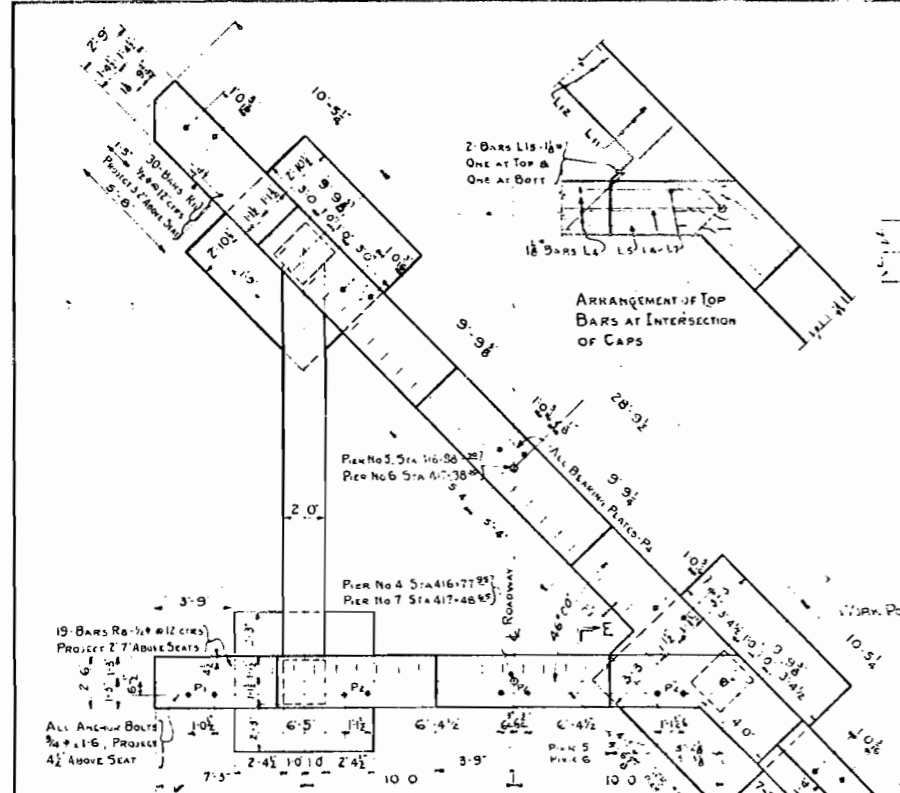
COLORADO
STATE HIGHWAY DEPARTMENT
DETAILS OF
SUPERSTRUCTURE

Across D&RG WRR Sta. 415+3240 To 418+4420
Near MALTA Sec. 22, 103.R. 80W.

Designed by ALC
Checked by JDB
Check Detail WTS

Approved by P. J. Barley
Bridge Engineer
Date: March 10, 1936

Rev. 4-27-36 by RA. Top bars pier cap from 1" to 1 1/2"



BEAM SCHEDULE

Beam	Bottom Bars	Top Bars	Stirrups
B3	3# R, 2# L	2# R, 2# L	2# R @ 12"
B4	2# R, 2# L	2# R, 2# L	2# R @ 12"
B5	2# R, 2# L	2# R, 2# L	2# R @ 12"

BENDING DIAGRAMS

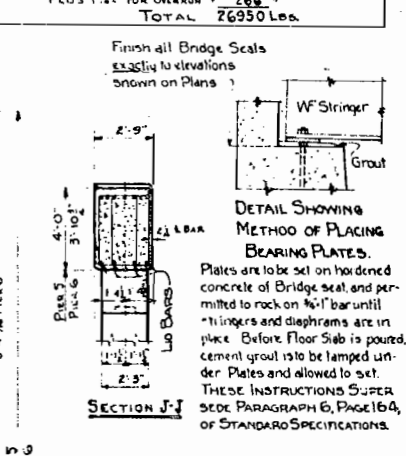
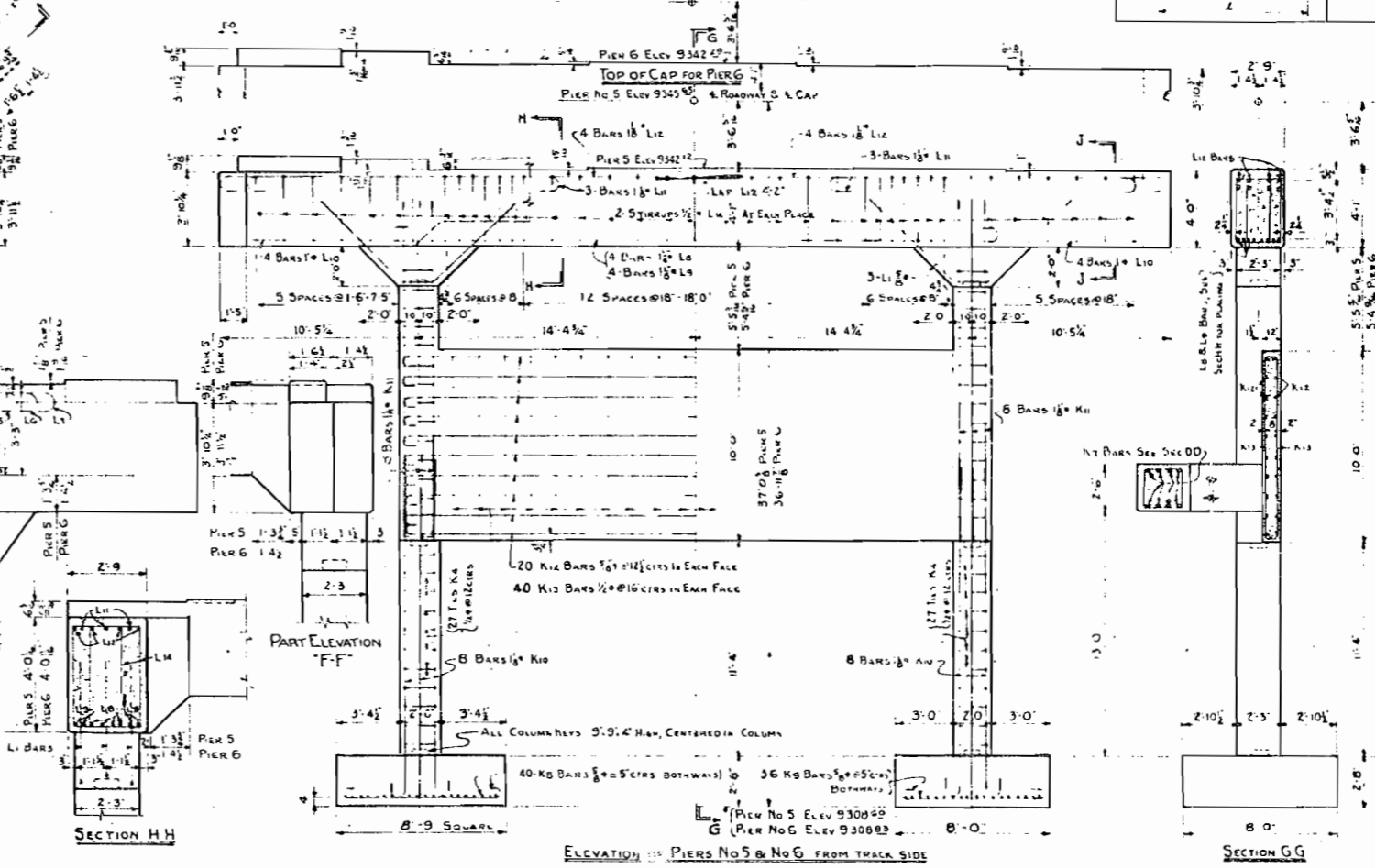
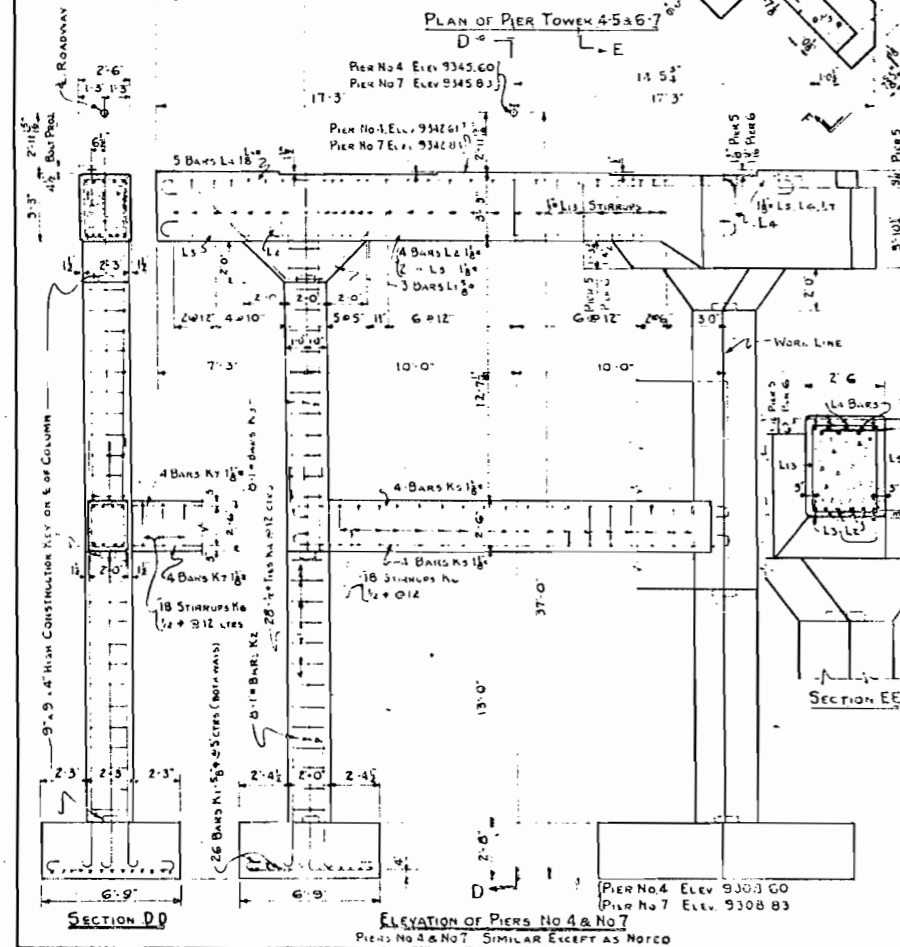
BAR LIST FOR PIERS 4-5&6-7 (2 PIERS)

MARK	SIZE	NO REQ	LENGTH	TYPE	L	M	T
L1	1 1/2"	8	24'-6"	II	21'-6"		4 1/2"
L2	1 1/2"	4	30'-0"	II	27'-0"		4 1/2"
L3	1 1/2"	10	31'-7"	III	26'-6"	3'-0"	4 1/2"
L4	1 1/2"	2	10'-4"	IV	1'-11"	2'-6"	4 1/2"
L5	1 1/2"	2	11'-1"	IV	2'-0"	3'-6"	4 1/2"
L6	1 1/2"	8	34'-2"	II	30'-10"		5"
L7	1 1/2"	8	33'-10"	II	30'-10"		4 1/2"
L8	1 1/2"	16	12'-2"	II			4 1/2"
L9	1 1/2"	12	20'-0"	II	17'-0"		4 1/2"
L10	1 1/2"	16	28'-9"	II	25'-9"		4 1/2"
L11	1 1/2"	56	10'-1"	V	2'-8 1/2"	2'-0"	4 1/2"
L12	1 1/2"	144	11'-11"	V	3'-4 1/2"	2'-3"	4 1/2"
L13	1 1/2"	4	7'-0"				
K1	1 1/2"	52	7'-4"	II	5'-8"		2 1/2"
K2	1 1/2"	16	20'-4"	II	19'-0"		4"
K3	1 1/2"	16	17'-0"	II	17'-0"		3 1/2"
K4	1 1/2"	164	7'-8"	V	1'-10 1/2"	1'-7 1/2"	4 1/2"
K5	1 1/2"	16	23'-4"	V	20'-4"		4 1/2"
K6	1 1/2"	72	7'-8"	V	2'-0"	1'-6"	4 1/2"
K7	1 1/2"	16	24'-0"	V	21'-0"		4 1/2"
K8	1 1/2"	80	9'-4"	II	7'-8"		2 1/2"
K9	1 1/2"	72	8'-7"	G-II	7'-8"		2 1/2"
K10	1 1/2"	32	16'-10"	V	17'-4"		4 1/2"
K11	1 1/2"	32	17'-0"	V	17'-0"		4 1/2"
K12	1 1/2"	40	31'-6"	II	29'-10"		2 1/2"
K13	1 1/2"	40	10'-6"	II	9'-2"		2"

BAR SUMMARY FOR BOTH PIERS

274	1 1/2"	14	4,513	1428	1428
3618	1 1/2"	4,303	15568	15568	
606	1 1/2"	3,400	2060	2060	
196	1 1/2"	2,670	524	524	
3254	1 1/2"	1,045	3,394	3,394	
2282	1 1/2"	850	1,940	1,940	
2650	1 1/2"	1,680	1,770	1,770	
Plus 1 1/2" FOR OVERLAP					266
TOTAL					26,950

NOTE: CONCRETE BEAMS & SLABS TO BE POURED MONOLITHICALLY



REFERENCE DRAWINGS: - SEE GENERAL LAYOUT FOR INDEX OF DRAWINGS (SHEET D)

FOOTING PRESSURES: DEAD LOAD ONLY 3,000 LBS/SQ FT
 MAX. DL & LL 4,100 - / - / -
 " DL & LL TAKING 5,400 - / - / -

LOADING DATA:
 LIVE LOAD A.A.S.H.L. 1935 CLASS A, M-16.
 DEAD LOAD ASSUMES 16 LBS. PER SQ. FT.
 ADDITIONAL WEARING SURFACE WHICH INCLUDES THE 4 IN. CONCRETE MONOLITHIC WEARING SURFACE SHOWN.

COLORADO STATE HIGHWAY DEPARTMENT

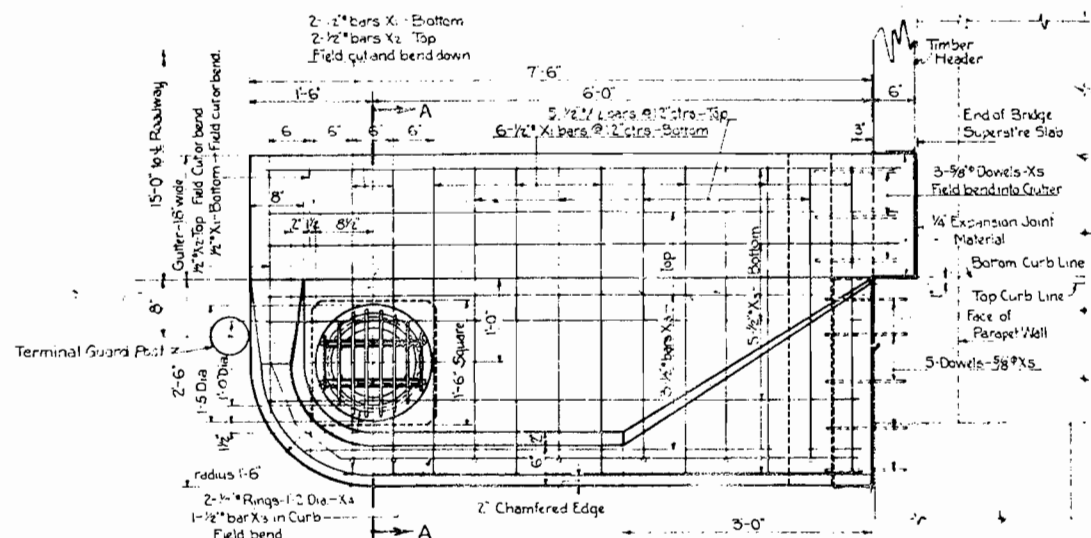
DETAIL OF PIERS 4-5 & 6-7 AND ROADWAY SLAB

ACROSS D.B. & R.G.W. R.R.
 STA. 415+82.40 TO 418+44.20
 NEAR MALTA SEC. 22, T. 105 N., R. 60 W.

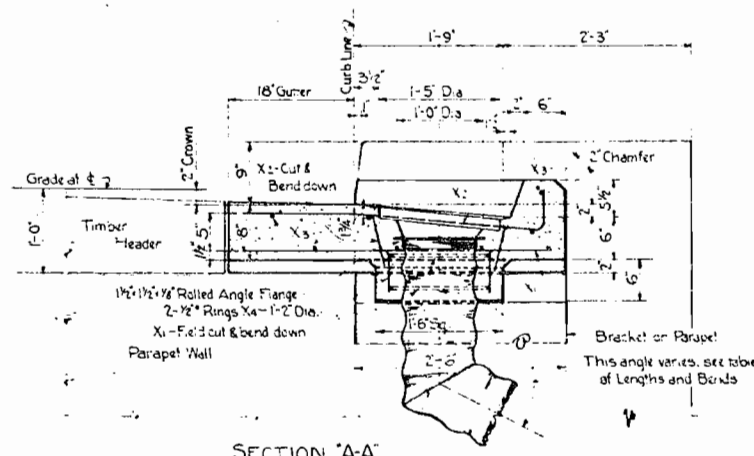
Designed by ALC
 Made by W.T.S.
 Check Design
 Check Detail KTD

Approved by J.P. Peckley
 Bridge Engineer
 Date: March 10, 1936

Revised As Constructed 3 2 38 R.A.D.



STA 415+76.4
STA 418+50.2



SECTION 'A-A'

BAR LIST FOR ONE DRAIN

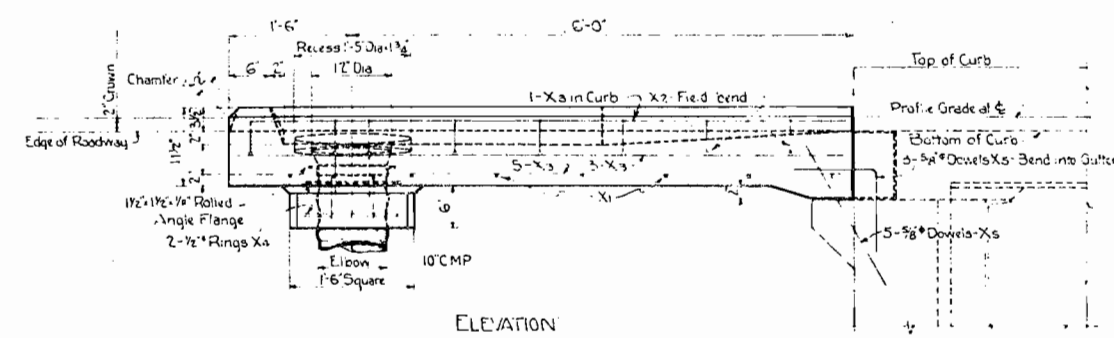
Mark	Size	No. Req'd	Length	BENDING DIAGRAM
X1	2"	16	3'-8"	Field Cut and Bend to clear Pipe, etc.
X2	2"	8	4'-0"	
X3	2"	9	7'-8"	
X4	2"	2	5'-0"	Field Bend as shown in ELEVATION
X5	2"	8	2'-0"	

DAB SUMMARY
 144 lin ft 1/2" bar @ 0.850" lin ft. = 123 lbs
 16 lin ft 3/8" bar @ 1.043" lin ft. = 17 lbs.
 Plus 1" for Over-run = 5 lbs.
 Total Reinforcing Steel = 145 lbs

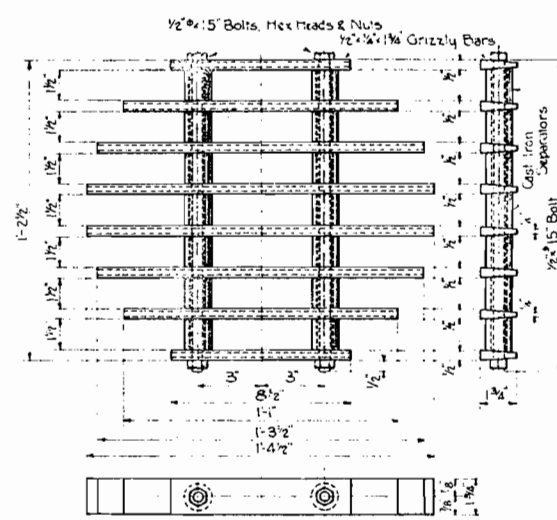
SUMMARY OF QUANTITIES FOR FOUR DRAINS

Item	Description	Quantity	Unit	Weight
46a	Class A Concrete	4 at 1.0 CuYd each =	4.0	CuYds
47	Reinforcing Steel	4 at 144 Lbs each =	576	Lbs.
53 x	10" Dia-16Ga Corrugated Metal Pipe	See table of lengths	294	Lin. Ft.
85 x	Trash Guards	4 at one each =	4	
	1/4" Expansion Joint Material 12" wide	4 at 5 lin ft. each =	20	Lin. Ft.
14b	Dry Common Structural Exc.	Total for 4 Drains	41.3	CuYds

0 Prorated as per contractors invoices

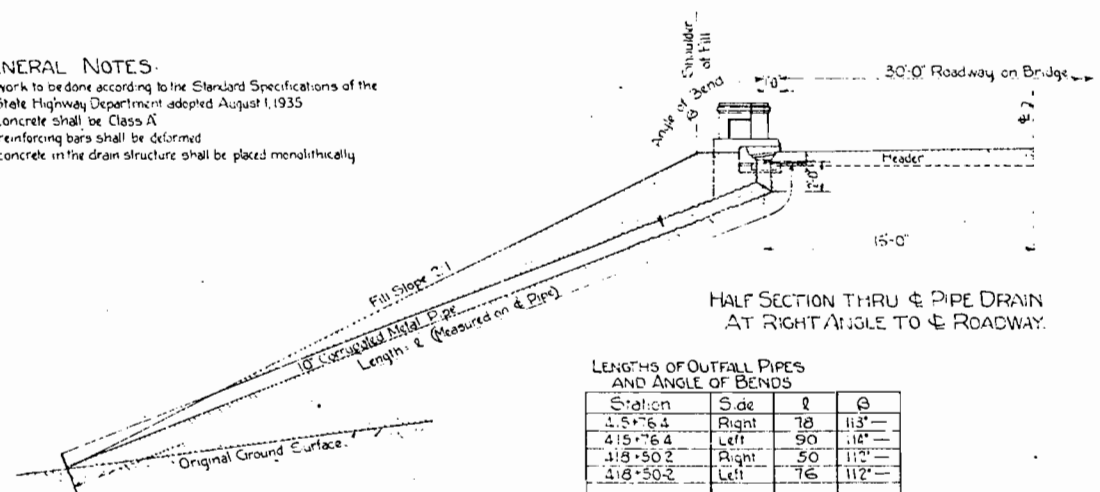


ELEVATION



TRASH-GUARD DETAIL
WEIGHT 35 LBS.

GENERAL NOTES:
 All work to be done according to the Standard Specifications of the Colorado State Highway Department adopted August 1, 1935
 All concrete shall be Class A
 All reinforcing bars shall be deformed
 All concrete in the drain structure shall be placed monolithically



LENGTHS OF OUTFALL PIPES AND ANGLE OF BENDS

Station	Side	L	θ
415+76.4	Right	78	113°
415+76.4	Left	90	110°
418+50.2	Right	50	112°
418+50.2	Left	76	112°

Total for 4 Drains 294 lin ft.
 Elbows, and Connecting Bands if required, shall be included in price bid for 10" Corrugated Metal Pipe
 Rolled Angle Flange shall be either welded or riveted to Corrugated Metal Pipe Elbow

REFERENCE DRAWINGS:
 See General Layout for Index.

LOADING DATA:
 LIVE LOAD A.A.S.H.O. AUG. 1928 CLASS A (H-10)
 DEAD LOAD ASSUMES 16 LBS. PER SQ. FT.
 ADDITIONAL WEARING SURFACE WHICH INCLUDES THE 1/4" IN. CONCRETE MONOLITHIC WEARING SURFACE SHOWN.

COLORADO
STATE HIGHWAY DEPARTMENT
 SPECIAL REINFORCED CONCRETE
 PAVING DRAIN
 -OVER-105-
 Across D&G W.R.R.
 Sta. 415+76 & 418+50
 Near Malta Dec. 27, 1937 R.O.W.

Designed by W.C.C. Made by W.C.C. Approved by O.L. Parley
 Check Design EWT. Bridge Engineer
 Check Detail EWT. Date: Dec 10, 1936

DATA REQUIRED TO ACCOMPANY SITUATION PLAN.

I. GENERAL REMARKS.

Fill out all blanks with care, giving information on all points listed, and supplementary remarks on features not listed. High water and foundation conditions are especially important and should be thoroughly investigated.

II. PROFILE.

Plot profile of centerline of roadway. Use natural scale, preferably 1"=10', or multiple of 10'. At proper locations show section of test pits, noting material encountered, if available at time of survey. Show present, and if possible, proposed finished grade noting elevations and gradients.

III. MAP.

Show present and proposed alignment of bridge and all approaches, as far as affected. Extend cross sections at least 100-ft. each side of C.L., giving location and elevation of points so that at least 2-foot contours may be accurately plotted. Show edge of water, islands, shoals, other obstructions, and direction of current at high water and at low water. Plot location of test pits, position and pointing of camera for each photo, all buildings, fences, and other features affected. Establish bench marks and give location of same. Reference C.L. and show North point. Give a C.L. profile of stream-bed for 500 feet up-stream and 500 feet down-stream from center line of survey. Plot proposed structure in soft pencil only. Do not ink.

IV. REPORT OF EXAMINATION OF BRIDGE-SITE.

Div. _____ County _____ Route _____ Sec. _____ Sta. _____
Date of survey _____ To be built by _____

1. Bridge Site

Location _____
Sec. 22 Twp. 103 Range 80 W Local name Jordan
Over Arkansas River Creek _____
Distance from nearest shipping point 3 MI. to Malta

2. Source of materials

Material	Length of haul to site	miles
Sand	" " " "	" "
Gravel	" " " "	" "
Stone	" " " "	" "
Falsework Timber	" " " "	" "
Piling	" " " "	" "

3. Cost Data.

Material	Per Bbl.	Cu. Yd.	Ft. B. M.	Lin. Ft.
Portland Cement	"	"	"	"
Sand, coarse and clean	"	"	"	"
Gravel	"	"	"	"
Stone	"	"	"	"
Falsework Timber	"	"	"	"
Piling	"	"	"	"

Cost per ton-mile for hauling _____

4. Waterway.

Drainage area in Sq. Miles (approximate) 2.40 (32.65 Dunn)
Character of watershed Mountainous
Elevation of Highest water _____ Date _____
Source of information on water elevation _____
Elevation of ordinary high water _____
Elevation of low water Max. Stream Flow = 2200 sec. 11.9 10 per sec. (State Eng. Office)
Elevation of permanent ground-water _____
Is stream ever dry? _____ During what months? _____
Will all flood water pass through recommended structure? _____
Can channel be cleaned to afford more waterway? _____
Is stream-bed cutting or silting up? Some scour at present South Abutment
Is stream stable in its banks? _____ Depth of scour? _____
Does stream carry light, medium, or heavy drift? Light
What clearance above high water should be allowed? _____
Is channel change necessary? _____
If channel change is necessary, illustrate location on sketch map.

5. Foundation Data.

Character of material Bed sounding at Sta. 40+100 to 41+225 shows gravel & boulders
Distance from stream-bed to solid foundation _____
Recommended depth of footings _____
Should piles be used? _____ What length? _____ Pile Shoes? _____

6. Old Bridge. 1/4 Mile down stream

If there is no bridge at the present location include here data on nearest bridge over same stream. If possible show location of such bridge or bridges on the map. Photographs if available.
Type _____ Roadway Width _____ Number and length of spans 2 x 40'-0"
Area of waterway provided under old structure 360 Sq. Ft., Elev. of Underclearance 7'
Has this area proved sufficient at flood times? Yes Skew Angle _____
Is it too large? _____ Disposition of Existing Structure _____

7. Give foundation data on bridges in vicinity. When possible, get pile driving data, logs of borings, etc., for adjoining structures, and where considered advantageous procure plans.

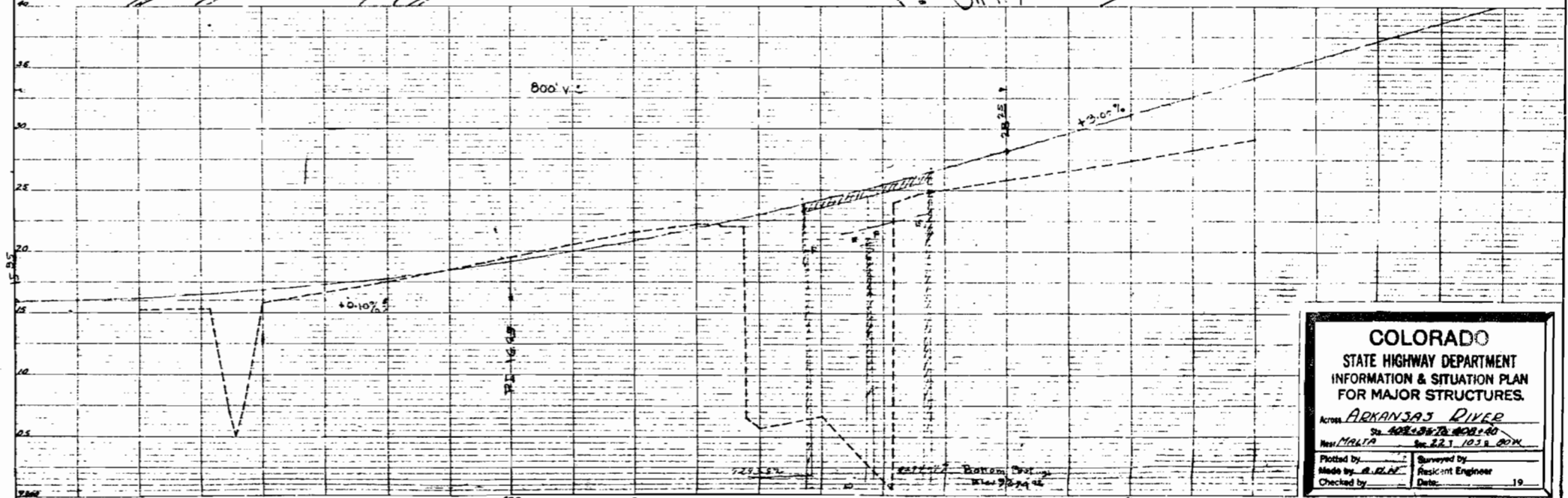
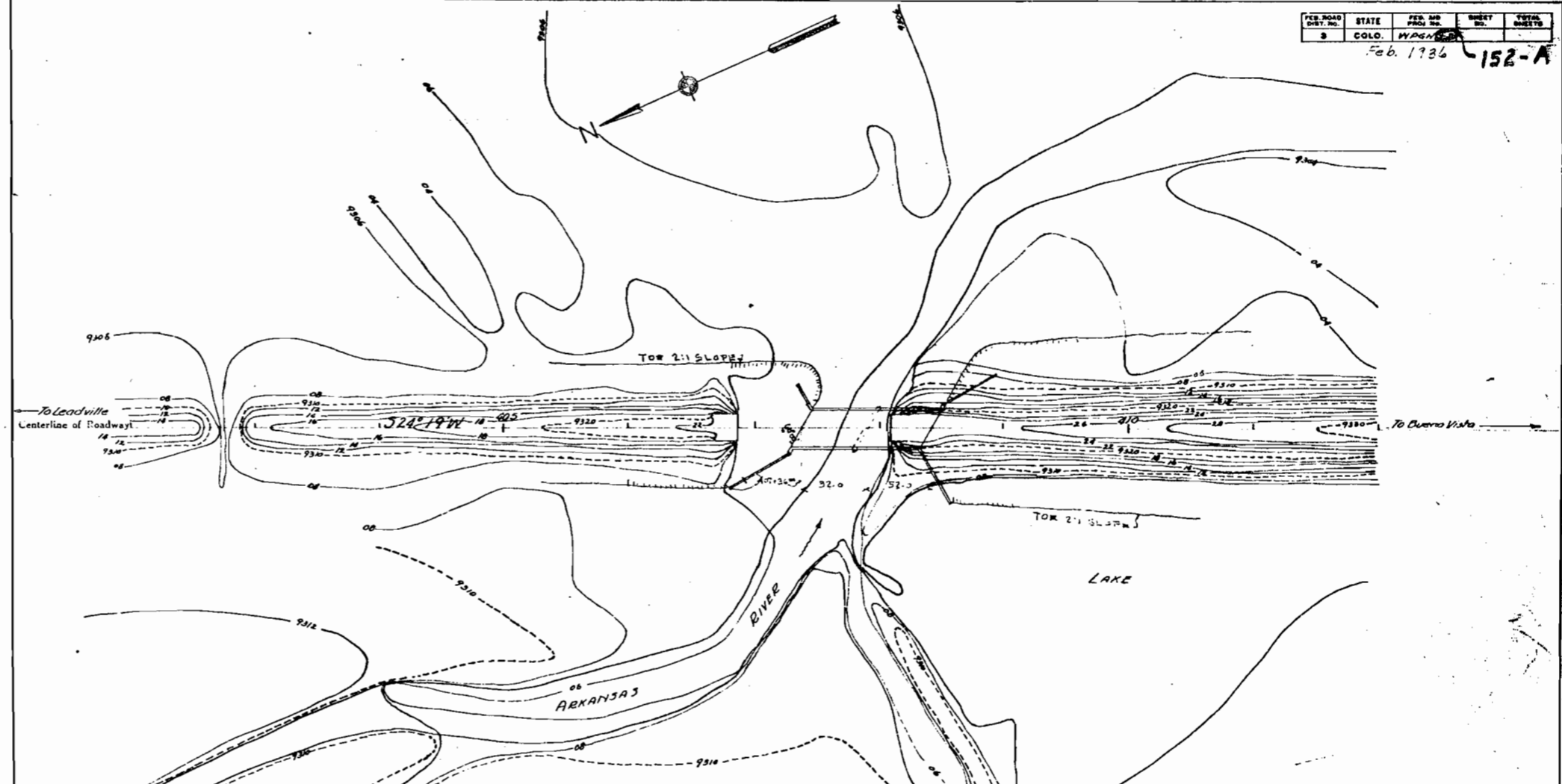
Sketch profile of Rail Road Crossing if within 1000 ft. of Highway. (Show X-section of entire waterway.)
Elevation of base of Rail _____ Elevation of Rail Road Underclearance _____
Remarks _____

8. Recommendations for New Structure.

Type Concrete Width curb to curb 30'-0" Number and length of spans 2 x 52'-0"
What is the least clear span permissible? _____
Are sidewalks desired? No Lighting conduit? No Light standards? No
Angle of Skew recommended 60° 00'
Will approaches be desired, or will same be filled? _____
Approximate cost per Cu. Yd. of approach-filling at bridge site? _____
Is it necessary to maintain traffic alongside old structure? _____
If so, how shall it be done? _____

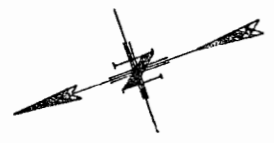
R. R. Siding _____ Haul to Bridge Site _____ MI.
Remarks _____
Submitted by _____ Engineer.

NOTE.—When bridge is recommended to be left in place, complete structural details shall be procured from the bridge itself or from existing plans of the structure. When possible these plans shall be forwarded with the plans of the project.



BY	DATE
SHEET DATA	NO. PAGE
FIELD	OFFICE

COLORADO STATE HIGHWAY DEPARTMENT
INFORMATION & SITUATION PLAN FOR MAJOR STRUCTURES.
Across ARKANSAS RIVER
Near Malta Sec. 22 T. 103 R. 80 W.
Plotted by A. R. L. Surveyed by _____
Made by A. R. L. Assistant Engineer
Checked by _____ Date _____ 19 _____



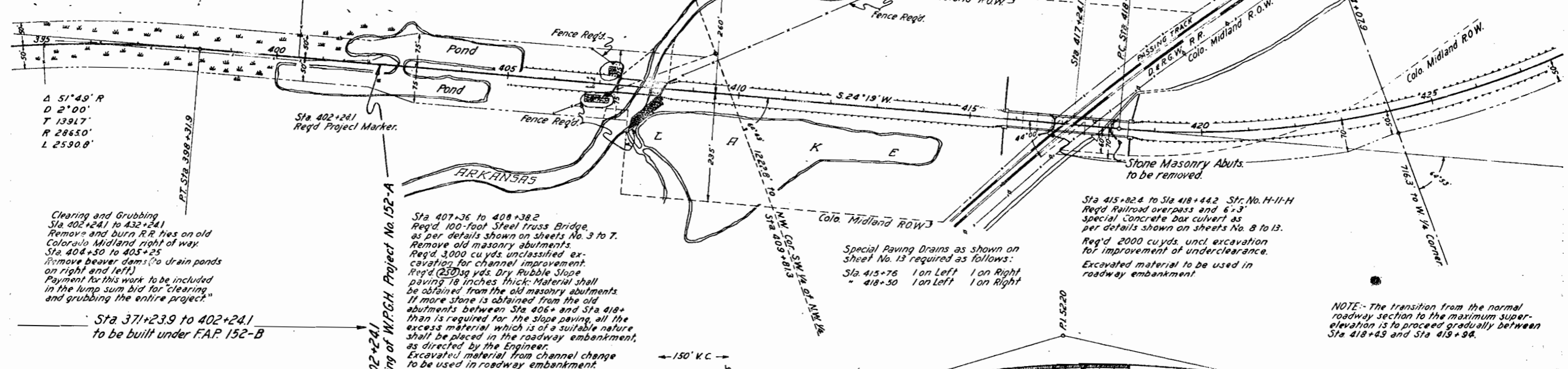
N. 1/4 NW 1/4 SECTION 22
T. 10S. R. 80W.

Wire Cable Guard Fence Required as follows:
 Sta 404+39 to 407+41, Left, 242 Lin. Ft.
 405+01 - 407+27 Right, 226
 408+48 - 415+74.7 Left, 727
 408+34 - 415+74.7 Right, 741
 418+52 - 432+24, Left, 1359
 418+32 - 432+24, Right, 1383
 Total 4580

406+75 to 407+36 - Req'd 2000 Cu Yds of Selected Fill

S. 1/4 NW 1/4 SECTION 22

W.R.B.H.
152-A 19
Revised-4-27-36-JWS
 $\Delta 53^{\circ}51'$
 $D 3^{\circ}00'$
 $T 971.1'$
 $R 1910.0'$
 $L 1796.7'$



Clearing and Grubbing
 Sta 402+24.1 to 432+24.1
 Remove and burn RR ties on old Colorado Midland right of way.
 Sta 404+50 to 405+25
 Remove beaver dams (to drain ponds on right and left)
 Payment for this work to be included in the lump sum bid for clearing and grubbing the entire project.

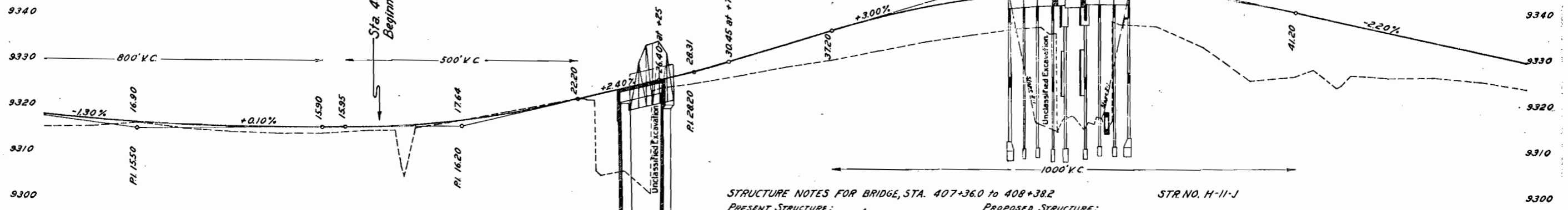
Sta 371+23.9 to 402+24.1 to be built under F.A.P. 152-B

Sta 407+36 to 408+38.2
 Req'd. 100-foot Steel truss Bridge, as per details shown on sheets No. 3 to 7.
 Remove old masonry abutments.
 Req'd. 3,000 cu yds. unclassified excavation for channel improvement.
 Req'd. 250 sq yds. Dry Rubble Slope paving 18 inches thick. Material shall be obtained from the old masonry abutments.
 If more stone is obtained from the old abutments between Sta. 406+ and Sta. 418+ than is required for the slope paving, all the excess material which is of a suitable nature shall be placed in the roadway embankment, as directed by the Engineer.
 Excavated material from channel change to be used in roadway embankment.

Special Paving Drains as shown on sheet No. 13 required as follows:
 Sta 415+76 1 on Left 1 on Right
 418+50 1 on Left 1 on Right

Sta 415+82.4 to Sta 418+44.2 Str. No. H-11-H
 Req'd Railroad overpass and 6'-3" special concrete box culvert as per details shown on sheets No. 8 to 13.
 Req'd 2000 cu yds. uncl. excavation for improvement of underclearance.
 Excavated material to be used in roadway embankment.

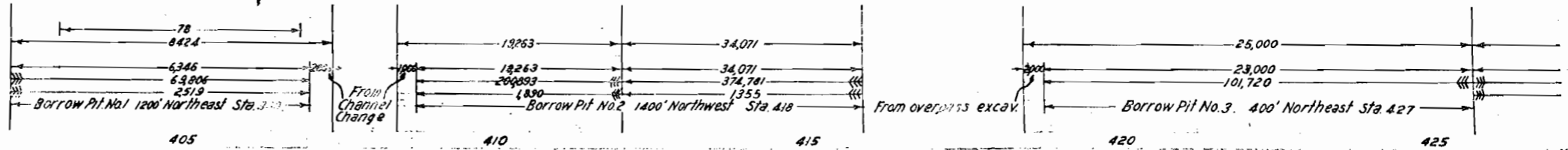
NOTE: The transition from the normal roadway section to the maximum super-elevation is to proceed gradually between Sta 418+49 and Sta 419+94.



STRUCTURE NOTES FOR BRIDGE, STA. 407+36.0 to 408+38.2 STR. NO. H-11-J

PRESENT STRUCTURE:	PROPOSED STRUCTURE:
Span	Position referred to present structure
Clear Roadway	Span ~ 1 @ 100' Span - Steel Low Truss
Clear Waterway	Clear roadway ~ 30'-0"
Type of Superstructure	Clear waterway ~ 1500'
Type of Substructure	Type of Superstructure - Steel Truss & Concrete Floor
Requirements as to removal	Type of Substructure - Concrete Cantilever Abutments
STREAM DATA:	Detour Structure requirements - None
Drainage area in Sq. Miles - 240	R.R. Siding - Malta
Velocity during high water - 2500 Sec. Ft. 10 Ft. per Sec.	Haul to bridge site ~ 5 Miles
Elevation of:	Nearby structures on same stream:
Maximum high water	Location
Normal Stage	Waterway
Drift - Light	Record during floods
Low water	
Stream bed - 9300.5	
Scour - Some	

EXCAV. EMBANK. +15%
 BORROW STA. ID. OVERHAUL
 ID. M. OVERHAUL
 BORROW SOURCE



395 400 405 410 415 420 425

