

INDEX OF SHEETS

F.A.P. 163-(2)

- 1 TITLE SHEET
- 2 TYPICAL SECTION AND SUMMARY
- 3 LIST OF STRUCTURES, SURFACING PLAN, ETC.
- 5 1/2 BRIDGE, STA 357+
- 17 STANDARD CONCRETE BOX CULVERTS M-103-E
- 18 " WIRE FENCES WITH METAL POSTS M-27-B
- 19 " STRUCTURE NUMBER LETTERING M-10-A
- 20 " YEAR NUMBER MARKING M-14-A
- 21 " METHODS FOR SUPERELEVATION AND WIDENING OF CURVES M-1-B
- 22 TYPICAL SIDE APPROACH ROADS - ROADWAY CONSTRUCTION TRAFFIC SIGNS M-2-B
- 23 STANDARD MARKER POSTS M-7-B
- 24 PLAN AND PROFILE
- 25-27 CROSS SECTIONS

F.A.P. 231-A(2)

- 1 TITLE SHEET
- 2 TYPICAL SECTION AND SUMMARY
- 3 LIST OF STRUCTURES, SURFACING PLAN, ETC.
- 5 1/2 BRIDGE, STA 628+
- 16 DETAILS OF ALTERATIONS FOR DETOUR BRIDGE
- 18 STANDARD WIRE FENCES WITH METAL POSTS M-27-B
- 19 " STRUCTURE NUMBER LETTERING M-10-A
- 21 " METHODS FOR SUPERELEVATION AND WIDENING OF CURVES M-1-B
- 22 TYPICAL SIDE APPROACH ROADS - ROADWAY CONSTRUCTION TRAFFIC SIGNS M-2-B
- 23 STANDARD MARKER POSTS M-7-B
- 24 PLAN AND PROFILE
- 25-27 CROSS SECTIONS

COLORADO
STATE HIGHWAY DEPARTMENT

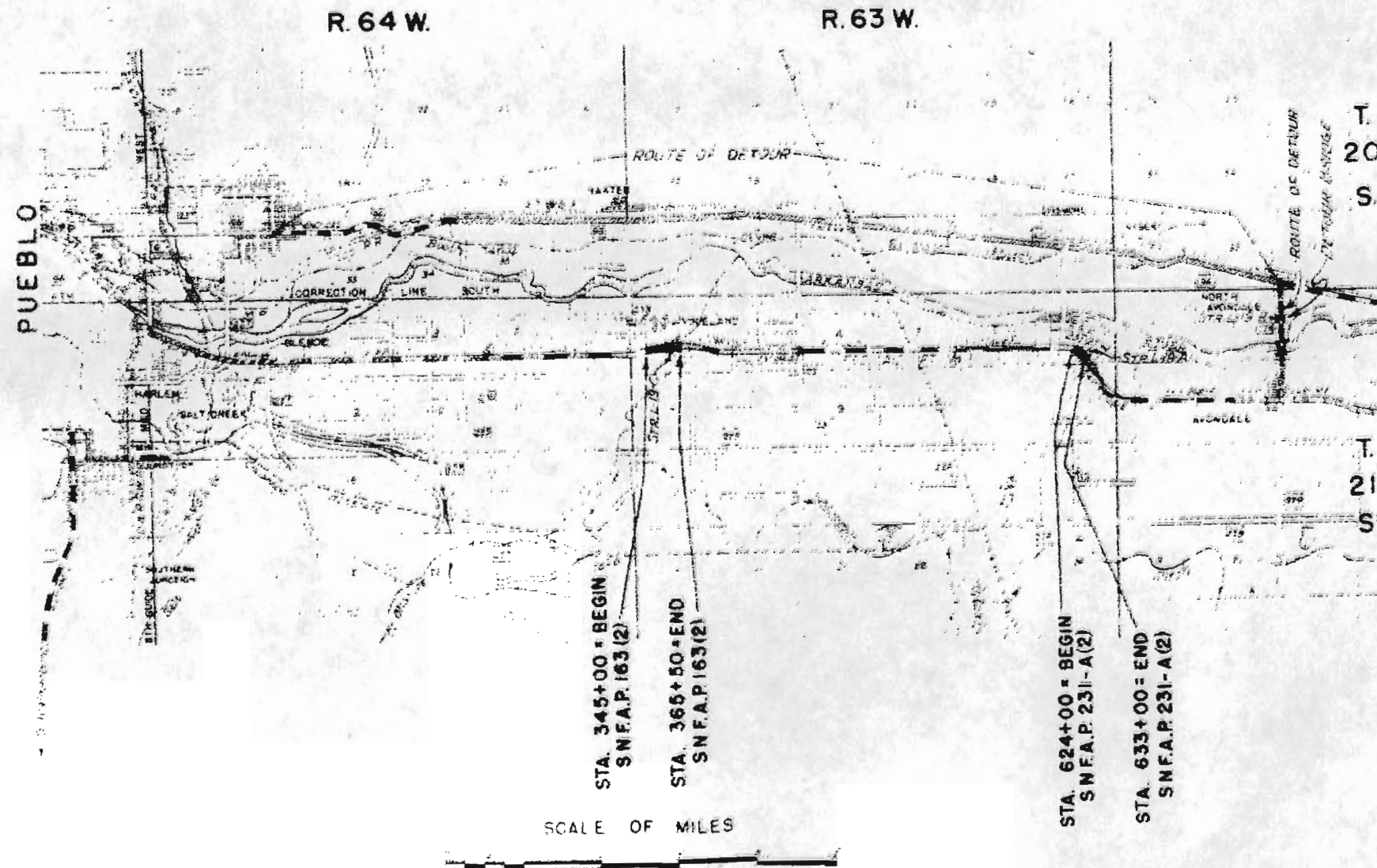
PLAN AND PROFILE OF PROPOSED
COMB. SN FEDERAL AID PROJECT NO. 163 (2) & 231-A (2)
STATE HIGHWAY NO. 6 ~~50~~
PUEBLO COUNTY

CONVENTIONAL SIGNS

- CENTER LINE
- RIGHT OF WAY LINE
- TOWNSHIP OR RANGE LINE
- SECTION LINE
- QUARTER SECTION LINE
- BARBED WIRE FENCE
- COMBINATION WIRE FENCE
- TELEPHONE LINE

SCALES OF ORIGINAL TRACINGS
ON PLAN 1 IN. = 40 FT.
ON PROFILE 1 IN. = 10 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL
GRADE LINE ON PROFILE & SHOWN AS GRADE OF FINISHED ROAD
GROSS LENGTH OF PROJECT 3.210 MILES
NET LENGTH OF PROJECT 3.210 MILES

INACTIVE



Project go over the plan on file with the following and representatives of this Department:
J.D. Ball Division Engineer Pueblo
R.S. Tilton Resident Engineer Pueblo

2-24-41

APPROVED FOR RECORD

APPROVED

COMMISSIONER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

VARIATIONS OF TYPICAL SECTION AND LIMITS OF PAVEMENT REMOVAL

[illegible]

PAYMENT REMINDER		DATE	STATUS
AMOUNT	PAYMENT	CHARGING	REMARKS
315.00	to 350.00	• NONE	
350.00	to 352.00	Top of South (Sandy) Ground	71
352.00	to 353.128		128
353.128	to 353.150		128
353.150	to 353.150	(353.150)	128
353.150	to 353.150		128
353.150	to 353.150		128
353.150	to 353.150		128

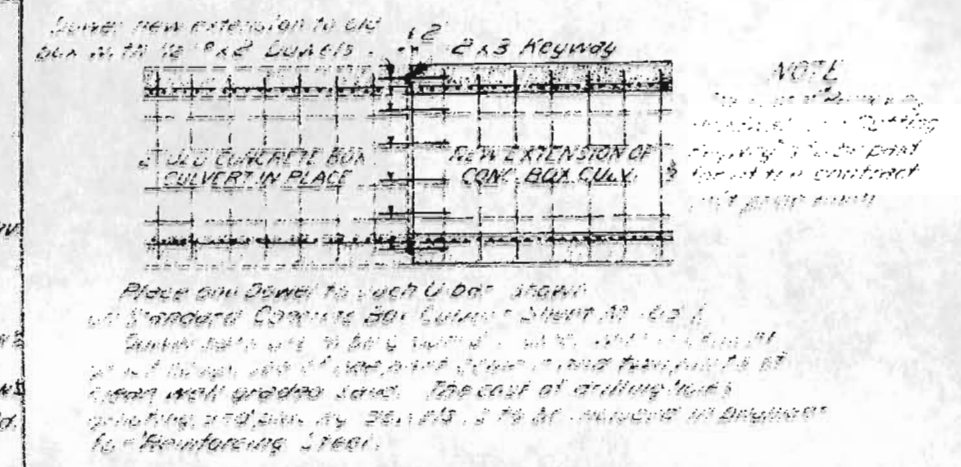
GENERAL NOTES

		SY - AP 163(2)			SY - AP 221-A(2)			TOTALS	
NO.	ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL	QUANTITY	UNIT PRICE	TOTAL	
1	Clearing 1/4" to 1/2" Topsoil	100	1.00	100				100	
2	Clearing 1/2" to 1" Topsoil	100	1.00	100				100	
3	Clearing 1" to 2" Topsoil	100	1.00	100				100	
4	Clearing 2" to 4" Topsoil	100	1.00	100				100	
5	Clearing 4" to 6" Topsoil	100	1.00	100				100	
6	Clearing 6" to 12" Topsoil	100	1.00	100				100	
7	Clearing 12" to 24" Topsoil	100	1.00	100				100	
8	Clearing 24" to 36" Topsoil	100	1.00	100				100	
9	Clearing 36" to 48" Topsoil	100	1.00	100				100	
10	Clearing 48" to 60" Topsoil	100	1.00	100				100	
11	Clearing 60" to 72" Topsoil	100	1.00	100				100	
12	Clearing 72" to 84" Topsoil	100	1.00	100				100	
13	Clearing 84" to 96" Topsoil	100	1.00	100				100	
14	Clearing 96" to 108" Topsoil	100	1.00	100				100	
15	Clearing 108" to 120" Topsoil	100	1.00	100				100	
16	Clearing 120" to 132" Topsoil	100	1.00	100				100	
17	Clearing 132" to 144" Topsoil	100	1.00	100				100	
18	Clearing 144" to 156" Topsoil	100	1.00	100				100	
19	Clearing 156" to 168" Topsoil	100	1.00	100				100	
20	Clearing 168" to 180" Topsoil	100	1.00	100				100	
21	Clearing 180" to 192" Topsoil	100	1.00	100				100	
22	Clearing 192" to 204" Topsoil	100	1.00	100				100	
23	Clearing 204" to 216" Topsoil	100	1.00	100				100	
24	Clearing 216" to 228" Topsoil	100	1.00	100				100	
25	Clearing 228" to 240" Topsoil	100	1.00	100				100	
26	Clearing 240" to 252" Topsoil	100	1.00	100				100	
27	Clearing 252" to 264" Topsoil	100	1.00	100				100	
28	Clearing 264" to 276" Topsoil	100	1.00	100				100	
29	Clearing 276" to 288" Topsoil	100	1.00	100				100	
30	Clearing 288" to 300" Topsoil	100	1.00	100				100	
31	Clearing 300" to 312" Topsoil	100	1.00	100				100	
32	Clearing 312" to 324" Topsoil	100	1.00	100				100	
33	Clearing 324" to 336" Topsoil	100	1.00	100				100	
34	Clearing 336" to 348" Topsoil	100	1.00	100				100	
35	Clearing 348" to 360" Topsoil	100	1.00	100				100	
36	Clearing 360" to 372" Topsoil	100	1.00	100				100	
37	Clearing 372" to 384" Topsoil	100	1.00	100				100	
38	Clearing 384" to 396" Topsoil	100	1.00	100				100	
39	Clearing 396" to 408" Topsoil	100	1.00	100				100	
40	Clearing 408" to 420" Topsoil	100	1.00	100				100	
41	Clearing 420" to 432" Topsoil	100	1.00	100				100	
42	Clearing 432" to 444" Topsoil	100	1.00	100				100	
43	Clearing 444" to 456" Topsoil	100	1.00	100				100	
44	Clearing 456" to 468" Topsoil	100	1.00	100				100	
45	Clearing 468" to 480" Topsoil	100	1.00	100				100	
46	Clearing 480" to 492" Topsoil	100	1.00	100				100	
47	Clearing 492" to 504" Topsoil	100	1.00	100				100	
48	Clearing 504" to 516" Topsoil	100	1.00	100				100	
49	Clearing 516" to 528" Topsoil	100	1.00	100				100	
50	Clearing 528" to 540" Topsoil	100	1.00	100				100	
51	Clearing 540" to 552" Topsoil	100	1.00	100				100	
52	Clearing 552" to 564" Topsoil	100	1.00	100				100	
53	Clearing 564" to 576" Topsoil	100	1.00	100				100	
54	Clearing 576" to 588" Topsoil	100	1.00	100				100	
55	Clearing 588" to 600" Topsoil	100	1.00	100				100	
56	Clearing 600" to 612" Topsoil	100	1.00	100				100	
57	Clearing 612" to 624" Topsoil	100	1.00	100				100	
58	Clearing 624" to 636" Topsoil	100	1.00	100				100	
59	Clearing 636" to 648" Topsoil	100	1.00	100				100	
60	Clearing 648" to 660" Topsoil	100	1.00	100				100	
61	Clearing 660" to 672" Topsoil	100	1.00	100				100	
62	Clearing 672" to 684" Topsoil	100	1.00	100				100	
63	Clearing 684" to 696" Topsoil	100	1.00	100				100	
64	Clearing 696" to 708" Topsoil	100	1.00	100				100	
65	Clearing 708" to 720" Topsoil	100	1.00	100				100	
66	Clearing 720" to 732" Topsoil	100	1.00	100				100	
67	Clearing 732" to 744" Topsoil	100	1.00	100				100	
68	Clearing 744" to 756" Topsoil	100	1.00	100				100	
69	Clearing 756" to 768" Topsoil	100	1.00	100				100	
70	Clearing 768" to 780" Topsoil	100	1.00	100				100	
71	Clearing 780" to 792" Topsoil	100	1.00	100				100	
72	Clearing 792" to 804" Topsoil	100	1.00	100				100	
73	Clearing 804" to 816" Topsoil	100	1.00	100				100	
74	Clearing 816" to 828" Topsoil	100	1.00	100				100	
75	Clearing 828" to 840" Topsoil	100	1.00	100				100	
76	Clearing 840" to 852" Topsoil	100	1.00	100				100	
77	Clearing 852" to 864" Topsoil	100	1.00	100				100	
78	Clearing 864" to 876" Topsoil	100	1.00	100				100	
79	Clearing 876" to 888" Topsoil	100	1.00	100				100	
80	Clearing 888" to 900" Topsoil	100	1.00	100				100	
81	Clearing 900" to 912" Topsoil	100	1.00	100				100	
82	Clearing 912" to 924" Topsoil	100	1.00	100				100	
83	Clearing 924" to 936" Topsoil	100	1.00	100				100	
84	Clearing 936" to 948" Topsoil	100	1.00	100				100	
85	Clearing 948" to 960" Topsoil	100	1.00	100				100	
86	Clearing 960" to 972" Topsoil	100	1.00	100				100	
87	Clearing 972" to 984" Topsoil	100	1.00	100				100	
88	Clearing 984" to 996" Topsoil	100	1.00	100				100	
89	Clearing 996" to 1008" Topsoil	100	1.00	100				100	
90	Clearing 1008" to 1020" Topsoil	100	1.00	100				100	
91	Clearing 1020" to 1032" Topsoil	100	1.00	100				100	
92	Clearing 1032" to 1044" Topsoil	100	1.00	100				100	
93	Clearing 1044" to 1056" Topsoil	100	1.00	100				100	
94	Clearing 1056" to 1068" Topsoil	100	1.00	100				100	
95	Clearing 1068" to 1080" Topsoil	100	1.00	100				100	
96	Clearing 1080" to 1092" Topsoil	100	1.00	100				100	
97	Clearing 1092" to 1104" Topsoil	100	1.00	100				100	
98	Clearing 1104" to 1116" Topsoil	100	1.00	100				100	
99	Clearing 1116" to 1128" Topsoil	100	1.00	100				100	
100	Clearing 1128" to 1140" Topsoil	100	1.00	100				100	
101	Clearing 1140" to 1152" Topsoil	100	1.00	100				100	
102	Clearing 1152" to 1164" Topsoil	100	1.00	100				100	
103	Clearing 1164" to 1176" Topsoil	100	1.00	100				100	
104	Clearing 1176" to 1188" Topsoil	100	1.00	100				100	
105	Clearing 1188" to 1200" Topsoil	100	1.00	100				100	
106	Clearing 1200" to 1212" Topsoil	100	1.00	100				100	
107	Clearing 1212" to 1224" Topsoil	100	1.00	100				100	
108	Clearing 1224" to 1236" Topsoil	100	1.00	100				100	
109	Clearing 1236" to 1248" Topsoil	100	1.00	100				100	
110	Clearing 1248" to 1260" Topsoil	100	1.00	100				100	
111	Clearing 1260" to 1272" Topsoil	100	1.00	100				100	
112	Clearing 1272" to 1284" Topsoil	100	1.00	100				100	
113	Clearing 1284" to 1296" Topsoil	100	1.00	100				100	
114	Clearing 1296" to 1308" Topsoil	100	1.00	100				100	
115	Clearing 1308" to 1320" Topsoil	100	1.00	100				100	
116	Clearing 1320" to 1332" Topsoil	100	1.00	100				100	
117	Clearing 1332" to 1344" Topsoil	100	1.00	100				100	
118	Clearing 1344" to 1356" Topsoil	100	1.00	100				100	
119	Clearing 1356" to 1368" Topsoil	100	1.00	100				100	
120	Clearing 1368" to 1380" Topsoil	100	1.00	100				100	
121	Clearing 1380" to 1392" Topsoil	100	1.00	100				100	
122	Clearing 1392" to 1404" Topsoil	100	1.00	100				100	
123	Clearing 1404" to 1416" Topsoil	100	1.00	100				100	
124	Clearing 1416" to 1428" Topsoil	100	1.00	100				100	
125	Clearing 1428" to 1440" Topsoil	100	1.00	100				100	
126	Clearing 1440" to 1452" Topsoil	100	1.00	100				100	
127	Clearing 1452" to 1464" Topsoil	100	1.00	100				100	
128	Clearing 1464" to 1476" Topsoil	100	1.00	100				100	
129	Clearing 1476" to 1488" Topsoil	100	1.00	100				100	
130	Clearing 1488" to 1500" Topsoil	100	1.00	100				100	
131	Clearing 1500" to 1512" Topsoil	100	1.00	100				100	
132	Clearing 1512" to 1524" Topsoil	100	1.00	100				100	
133	Clearing 1524" to 1536" Topsoil	100	1.00	100				100	
134	Clearing 1536" to 1548" Topsoil	100	1.00	100				100	
135	Clearing 1548" to 1560" Topsoil	100	1.00	100				100	
136	Clearing 1560" to 1572" Topsoil	100	1.00	100				100	
137	Clearing 1572" to 1584" Topsoil	100	1.00	100				100	
138	Clearing 1584" to 1596" Topsoil	100	1.00	100				100	
139	Clearing 1596" to 1608" Topsoil	100	1.00	100				100	
140	Clearing 1608" to 1620" Topsoil	100	1.00	100				100	
141	Clearing 1620" to 1632" Topsoil	100	1.00	100				100	
142	Clearing 1632" to 1644" Topsoil	100	1.00	100				100	
143	Clearing 1644" to 1656" Topsoil	100	1.00	100				100	
144	Clearing 1656" to 1668" Topsoil	100	1.00	100				100	
145	Clearing 1668" to 1680" Topsoil	100	1.00	100				100	
146	Clearing 1680" to 1692" Topsoil	100	1.00	100				100	
147	Clearing 1692" to 1704" Topsoil	100	1.00	100				100	
148	Clearing 1704" to 1716" Topsoil	100	1.00	100				100	
149	Clearing 1716" to 1728" Topsoil	100	1.00	100				100	
150	Clearing 1728" to 1740" Topsoil	100	1.00	100				100	
151	Clearing 1740" to 1752" Topsoil	100	1.00	100				100	
152	Clearing 1752" to 1764" Topsoil	100	1.00	100				100	
153	Clearing 1764" to 1776" Topsoil	100	1.00	100				100	
154	Clearing 1776" to 1788" Topsoil	100	1.00	100				100	
155	Clearing 1788" to 1800" Topsoil	100	1.00	100				100	
156	Clearing 1800" to 1812" Topsoil	100	1.00	100				100	
157	Clearing 1812" to 1824" Topsoil	100	1.00	100				100	
158	Clearing 1824" to								

LIST OF STRUCTURES

STATION	DESCRIPTION	REMOVE STRUCTURE NO.	UNCLASSIFIED EXCAVATION		UNCLASS. DITCH EXCAV. CU. YDS.	STRUCTURAL EXCAVATION		GRAVEL OR CR. ROCK SURFACING TONS	CONCRETE		REINFORCING STEEL LBS.	CORRUGATED METAL CULVERT PIPE		MISCELLANEOUS
			CU. YDS. EXCAV.	EMB.		CU. YDS.	CU. YDS.		CLASS CLASS			LIN. FT 18"	36"	
									A	B				
345+00 344+00 to 345+60	Project Marker Ditch Change on Rt.				20									1- Project Marker
347+05 346+50	Remove Sign on Rt. Remove Sign on Lt.	1 1												
348+70 349+25	Remove Sign on Lt. Remove Sign on Lt.	1 1												
349+40 to 350+00 350+20	Ditch Change on Rt. Remove 12"x18" C.M.P. Side Drain (2 Conc. Hdws.), Rd. Appr. & C.M.P. Side Drain Lt.	1	20		10	10		10				50		
350+35 351+45	Remove Sign on Lt. Remove Sign on Lt.	1 1												
352+00 to 353+80 352+00 to 352+92	Berm Reservoir on Lt. Remove Concrete Pavement.			200										Rem. 1488 Sq Yds. Conc. Pav.
352+95 353+05	Road Approach on Rt. Remove Sign on Rt.			10				10						
353+26 356+15	Extend Pres 2"x2" C.B.C. 5' Lt. & 7' Rt. Ditches, Road Hdws. & Cut Keyways. Extend Pres 3"x3" C.B.C. 9' Lt. & 7' Rt. Ditches, Road Hdws. & Cut Keyways.	1			10	26			8.88		872			Extend 1488 Sq Yds. Conc. Pav.
357+15 to 357+90 357+92 to 358+47	Remove & Reset Guard Posts Lt. & Rt. Rem. Pres. Br. Superstructure Remodel Pres. Abuts. & place New Superstructure.				50	50			15.21		1415			Rem. 1488 Sq Yds. Conc. Pav.
359+47 to 360+00 359+50 to 360+20	Remove Concrete Pavement Remove & Reset Guard Posts Lt. & Rt.													Rem. 1488 Sq Yds. Conc. Pav.
360+20 to 361+50 361+50	Drain Ditch & Dike on Lt. Remove Concrete Pavement. Approach to Project				80									Rem. 1488 Sq Yds. Conc. Pav.
TOTAL		8	200	210	170	65		320	2449		2257	50		

DETAIL OF JOINT FOR CONCRETE BOX CULVERT EXTENSION



SURFACING PLAN

It is estimated that material for Gravel Surfacing for the Project is available in the vicinity of the pits indicated in the following tabulation. Estimated quantities involved in this operation are shown below. No alteration of the Surfacing Plan as here outlined will be allowed without written permission from the Department.

FENCING REQUIREMENTS

STATION	SIDE	REMOVE FENCE	BUILD BARBED WIRE	BUILD COMBIN-ATION	GATES		
					BARBED WIRE	DRIVE WAY	REMOVE & REBUILD
		Lin. Ft.	Lin. Ft.	Lin. Ft.	No.	No.	No.
344+00 to 357+80	Lt.	1415					
344+00 to 357+70	Lt.		1400				
344+00 to 352+87	Rt.	900	900				
345+10	Lt.						1
350+20	Lt.						
352+95	Rt.					1	
353+03 to 357+45	Rt.	450		460			
360+35 to 363+18	Rt.	285					
360+75 to 363+18	Rt.		250				
TOTAL		3050	2550	460	1	1	1

ROW MARKERS

STATION	SIDE	NO.
345+00	Lt. & Rt.	2
351+00	Lt.	1
352+00	Lt.	1
356+00	Rt.	1
357+00	Rt.	1
357+50	Lt.	1
362+00	Rt.	1
363+18	Rt.	1
TOTAL		9

MATERIAL TO BE PLACED	SOURCE	QUANTITY		OVERHAUL TON MILES
		TONS AVAILABLE	TONS USED	
350+00 to 352+00	Surfacing Pit within	Ample	142	
352+00 to 357+92	R.O.W. Sta 346± to	"	747	
359+47 to 360+00	349±	"	760	
Rd. Appr. & Appr. to Proj.		"	320	
TOTAL			1969	

* Gate to be rebuilt in Cross Fence outside of Right of Way.

LIST OF STRUCTURES

STATION	DESCRIPTION	REMOVE STRUCTURE NO.	UNCLASSIFIED EXCAVATION	UNCLASS DITCH EXCAV.	STRUCTURAL EXCAVATION	GRAVEL OR CH. ROCK SURFACING TONS	PERF. C.M.P. UNDERDRAIN Lin. Ft. 6"	MISCELLANEOUS
			CU. YDS. EXCAV. EMB.	CU. YDS.	CU. YDS. *			
624+00	Project Marker & Appr. to Project		200			50		1- Project Marker
624+00 to 628+20	6" Perf. C.M.P. Underdrain & Outlet Ditch Lt.			5	130		420	
624+00 to 626+50	6" Perf. C.M.P. Underdrain & Outlet Ditch Rt.			5	80		250	
628+24 to 628+95	Remove & Reset Guard Posts Lt. & Rt.							Remove & Reset 20 Timber Guard Posts
628+97.2 to 629+62.4	Remove Pres. Br. Superstructure Remodel Pres. Abuts. & place New Superstructure							
624+00 to 628+97.9	Remove Concrete Pavement.							
629+65 to 630+36	Remove & Reset Guard Posts Lt. & Rt.							Reset 396 by this work. Per.
629+02 to 633+00	Remove Concrete Pavement. Approach to Project.		50			30		Remove & Reset 20 Timber Guard Posts Per. 176 by this work. Per.
TOTAL			250	10	210	180	670	

* See Summary for quantities of concrete removed for 6" Perf. C.M.P. Underdrain & Outlet Ditch Lt. & Rt.

SURFACING PLAN

It is estimated that material for Gravel Surfacing for the Project is available in the vicinity of the pits indicated in the following tabulation. Estimated quantities involved in this operation are shown below. No alteration of the Surfacing Plan as here outlined will be allowed without written permission from the Department.

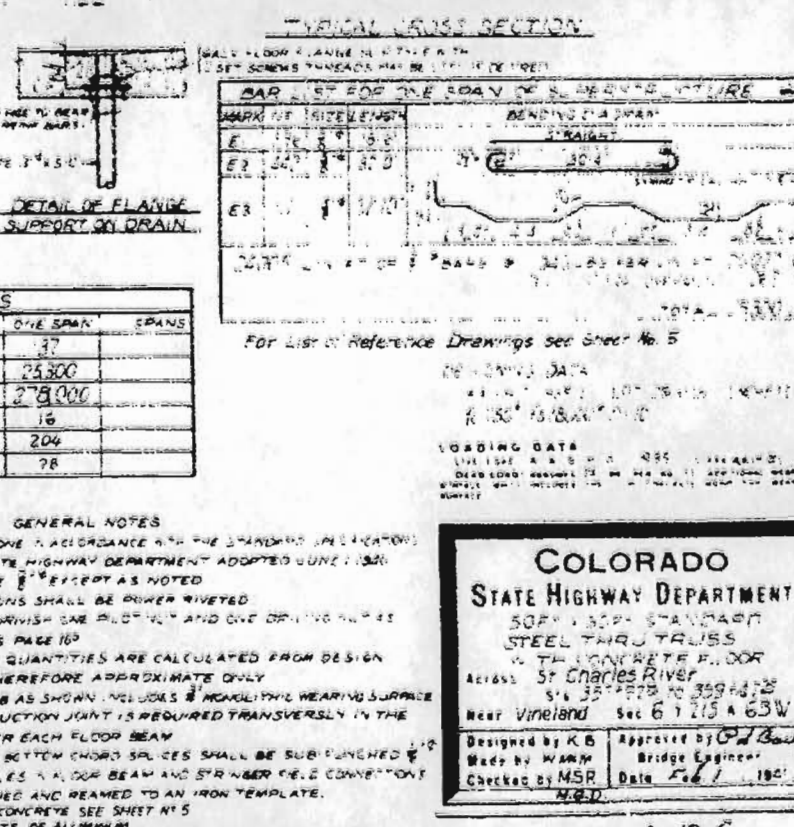
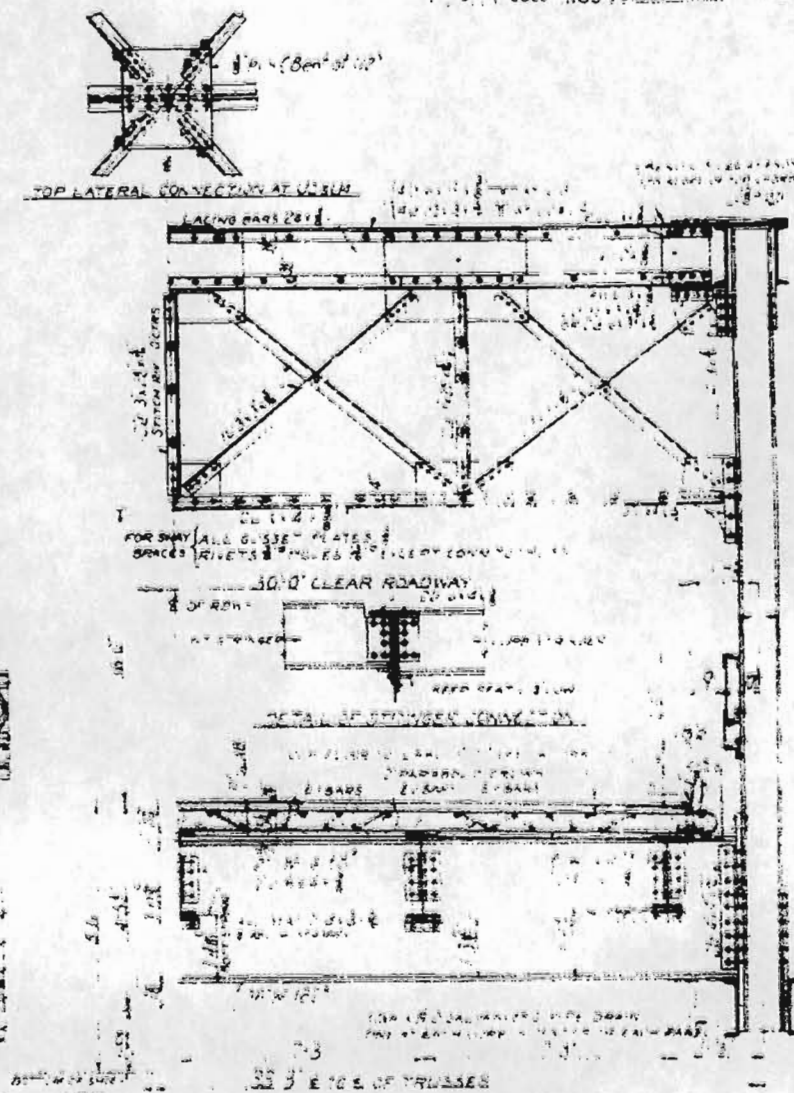
MATERIAL TO BE PLACED	SOURCE	QUANTITY		OVERHAUL TON MILES
		TONS AVAILABLE	TONS USED	
624+00 to 625+00	Surfacing Pit 500 ft. Lt. of Sta 625+00		126	
625+00 to 628+97.9			502	
629+62.1 to 630+50			111	
630+50 to 633+00			178	
Appr. to Project			100	
TOTAL			1017	

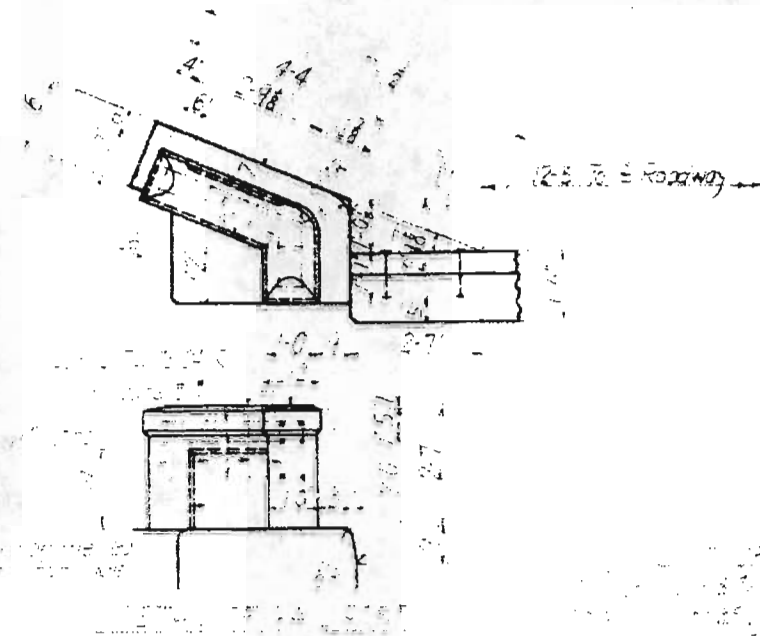
FENCING REQUIREMENTS

STATION	SIDE	REMOVE FENCE	BUILD BARBED WIRE
		200 FT.	100 FT.
622+ to 628+85	Rt.	680	680
628+ to 628+85	Lt.	590	610
629+70 to 632+70	Lt.	300	315
629+70 to 634+20	Rt.	180	160
TOTAL		1750	1765

R.O.W. MARKERS

STATION	SIDE	NO.
624+00	Lt. & Rt.	2
633+00	Lt. & Rt.	2
TOTAL		4

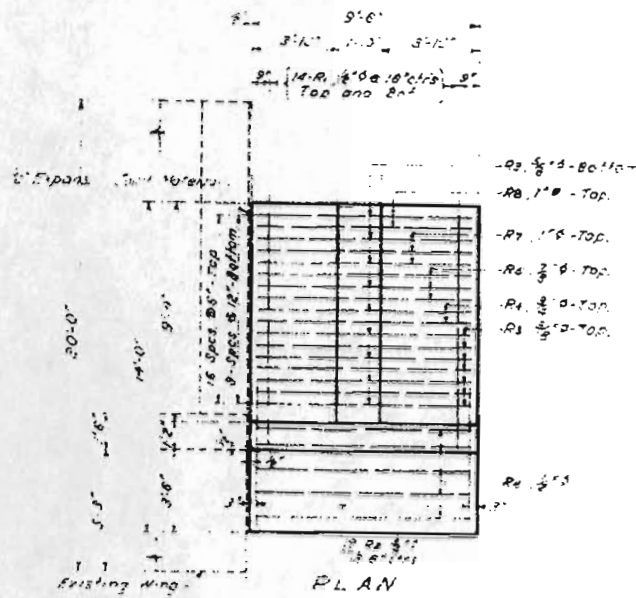




SECTION-A-A

COLORADO
STATE HIGHWAY DEPARTMENT
STEEL TRUSS
CONTRACT NO.
EST ABITMENT

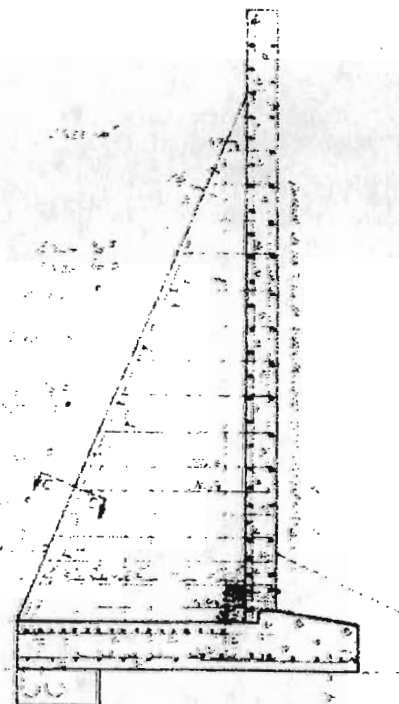
MAY 1968
MA 577-03
CITY OF DENVER
SEAL WIND A/C BY G CTS R-RAN
(Signature)
Made at [illegible]
Planked by M.G.D. Date MAY 2ND 1968



SECTION C-C



SECTION D-D



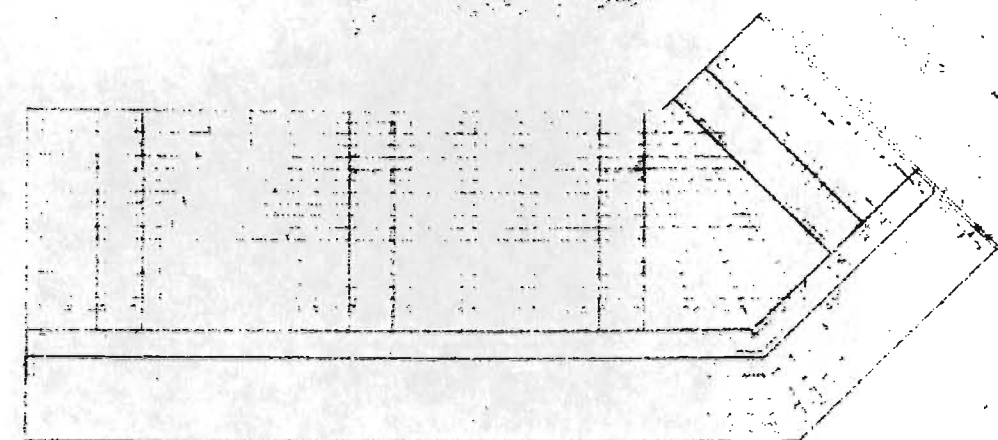
BAR LIST						BENDING DIAGRAMS		
BAR NO.	SIZE	NO. REQ'D	LENGTH	TYPE	1	2	I	II
1	5/8"	4	10'-3"	I	8'-7"	2'-6"		
2	5/8"	4	10'-3"	I	8'-7"	2'-6"		
3	5/8"	4	10'-3"	I	8'-7"	2'-6"		
4	5/8"	4	10'-3"	I	8'-7"	2'-6"		
5	5/8"	4	10'-3"	I	8'-7"	2'-6"		
6	5/8"	4	10'-3"	I	8'-7"	2'-6"		
7	5/8"	4	10'-3"	I	8'-7"	2'-6"		
8	5/8"	4	10'-3"	I	8'-7"	2'-6"		
9	5/8"	4	10'-3"	I	8'-7"	2'-6"		
10	5/8"	4	10'-3"	I	8'-7"	2'-6"		
11	5/8"	4	10'-3"	I	8'-7"	2'-6"		
12	5/8"	4	10'-3"	I	8'-7"	2'-6"		
13	5/8"	4	10'-3"	I	8'-7"	2'-6"		
14	5/8"	4	10'-3"	I	8'-7"	2'-6"		
15	5/8"	4	10'-3"	I	8'-7"	2'-6"		
16	5/8"	4	10'-3"	I	8'-7"	2'-6"		
17	5/8"	4	10'-3"	I	8'-7"	2'-6"		
18	5/8"	4	10'-3"	I	8'-7"	2'-6"		
19	5/8"	4	10'-3"	I	8'-7"	2'-6"		
20	5/8"	4	10'-3"	I	8'-7"	2'-6"		
21	5/8"	4	10'-3"	I	8'-7"	2'-6"		
22	5/8"	4	10'-3"	I	8'-7"	2'-6"		
23	5/8"	4	10'-3"	I	8'-7"	2'-6"		
24	5/8"	4	10'-3"	I	8'-7"	2'-6"		
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26	5/8"	4	10'-3"	I	8'-7"	2'-6"		
27	5/8"	4	10'-3"	I	8'-7"	2'-6"		
28	5/8"	4	10'-3"	I	8'-7"	2'-6"		
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30	5/8"	4	10'-3"	I	8'-7"	2'-6"		
31	5/8"	4	10'-3"	I	8'-7"	2'-6"		
32	5/8"	4	10'-3"	I	8'-7"	2'-6"		
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41	5/8"	4	10'-3"	I	8'-7"	2'-6"		
42	5/8"	4	10'-3"	I	8'-7"	2'-6"		
43	5/8"	4	10'-3"	I	8'-7"	2'-6"		
44	5/8"	4	10'-3"	I	8'-7"	2'-6"		
45	5/8"	4	10'-3"	I	8'-7"	2'-6"		
46	5/8"	4	10'-3"	I	8'-7"	2'-6"		
47	5/8"	4	10'-3"	I	8'-7"	2'-6"		
48	5/8"	4	10'-3"	I	8'-7"	2'-6"		
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99	5/8"	4	10'-3"	I	8'-7"	2'-6"		
100	5/8"	4	10'-3"	I	8'-7"	2'-6"		

LOADING DATA
 LIVE LOAD: 1000 LB. PER SQ. FT.
 DEAD LOAD: 100 LB. PER SQ. FT.
 WIND LOAD: 100 LB. PER SQ. FT.
 SEISMIC LOAD: 100 LB. PER SQ. FT.

DESIGNING DATA
 MATERIAL: 100% PORTLAND CEMENT CONCRETE
 STRENGTH: 3000 PSI
 DESIGNER: [Name]
 CHECKED: [Name]

COLORADO
 STATE HIGHWAY DEPARTMENT
 100' X 30' STEEL TRUSS
 WING EXTENSION
 NORTH SIDE OF WEST ABUT
 ST. CHARLES RIVER
 DATE: FEB. 18, 1941

DES. NO.	STATE	DATE
100	COLO.	1950



ELEVATION



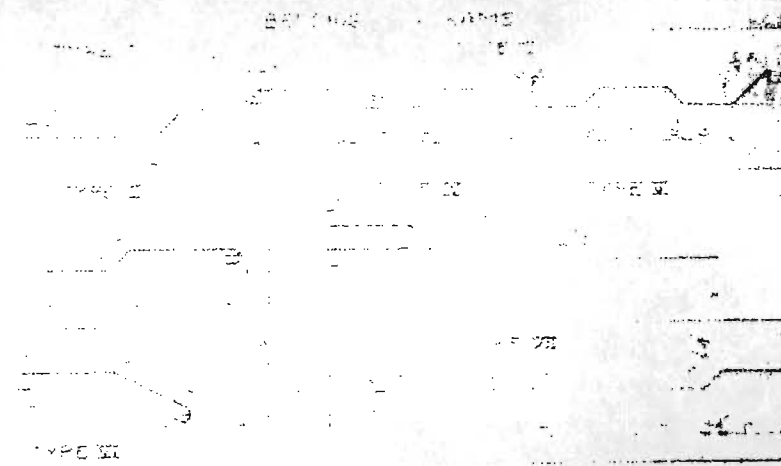
SECTION A-A

BAR SUMMARY

BAR LIST									
NO.	SIZE	LENGTH	TYPE	1	2	3	4	5	6
1	1/2"	12'-0"	TOP						
2	1/2"	12'-0"	TOP						
3	1/2"	12'-0"	TOP						
4	1/2"	12'-0"	TOP						
5	1/2"	12'-0"	TOP						
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100	1/2"	12'-0"	TOP						



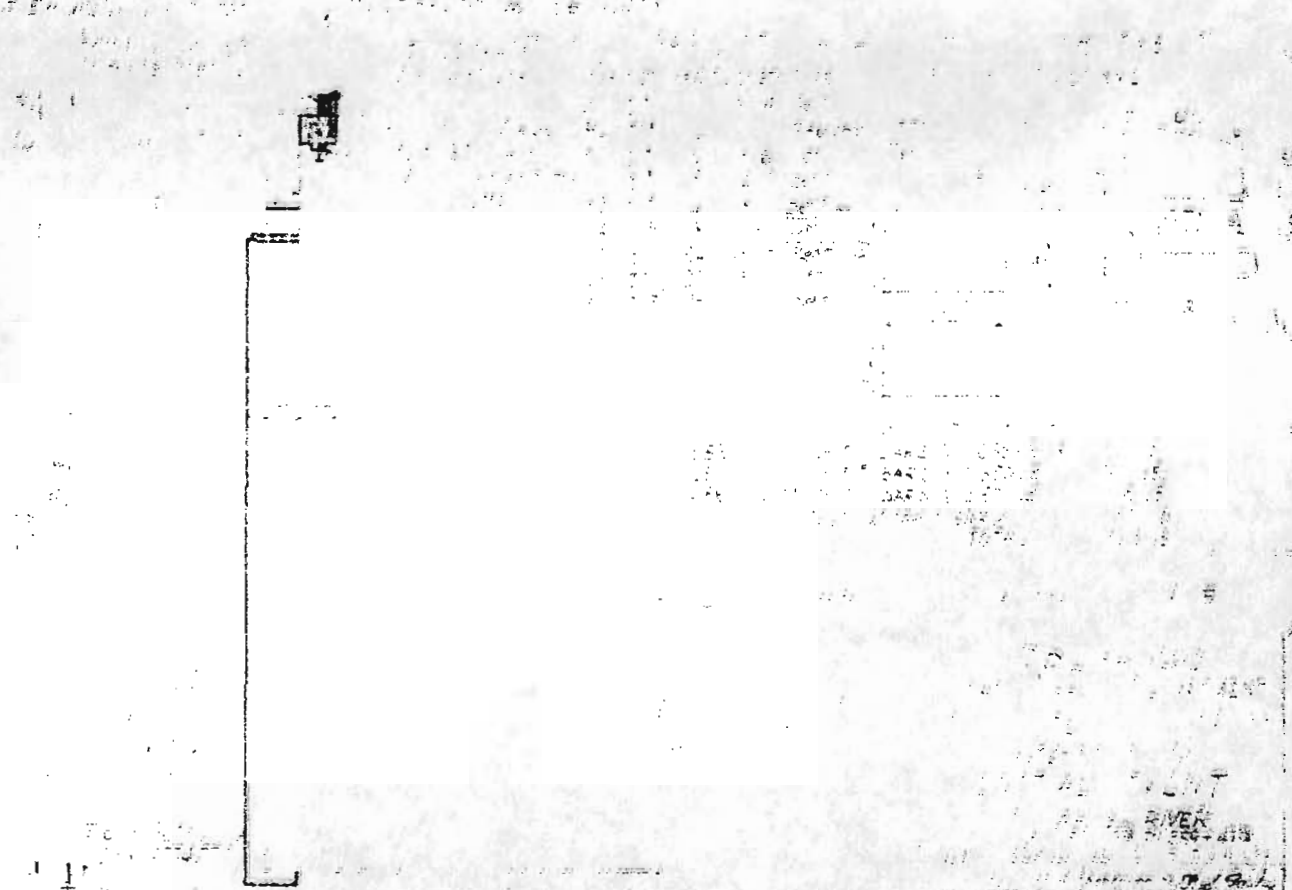
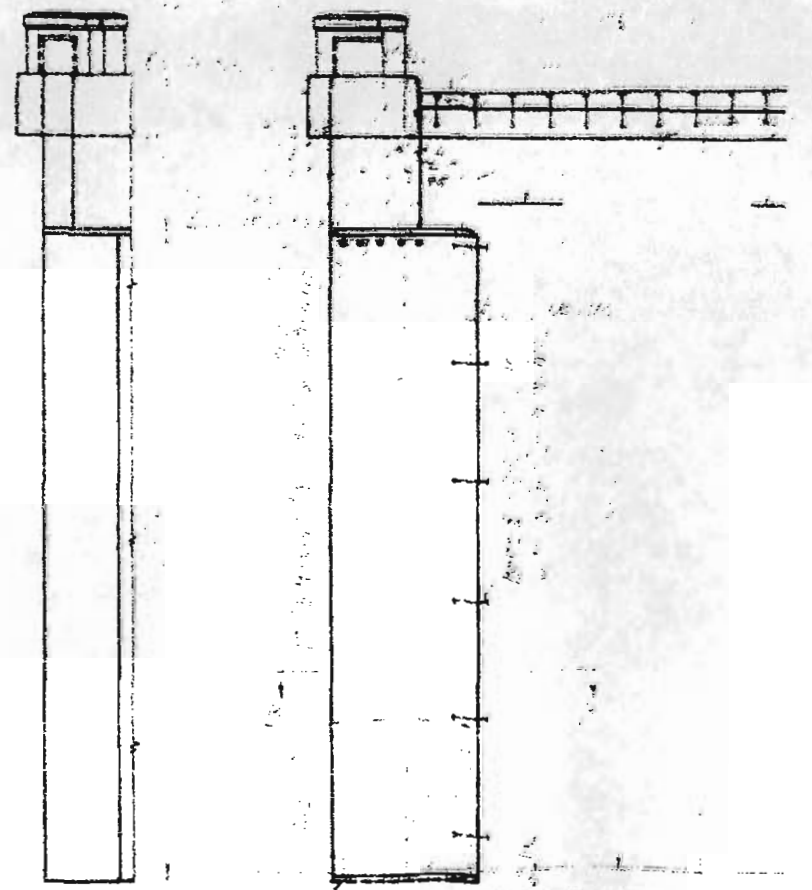
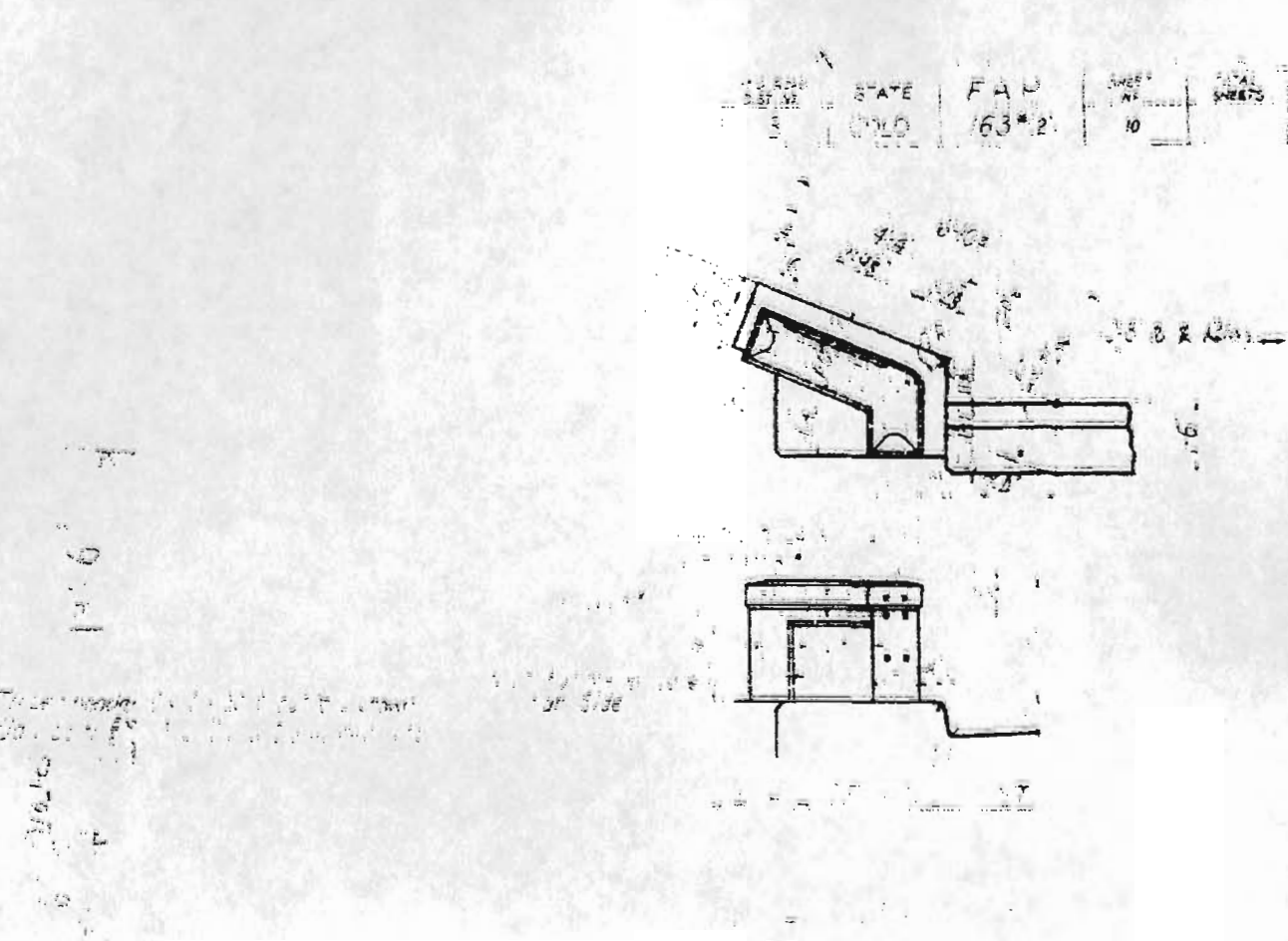
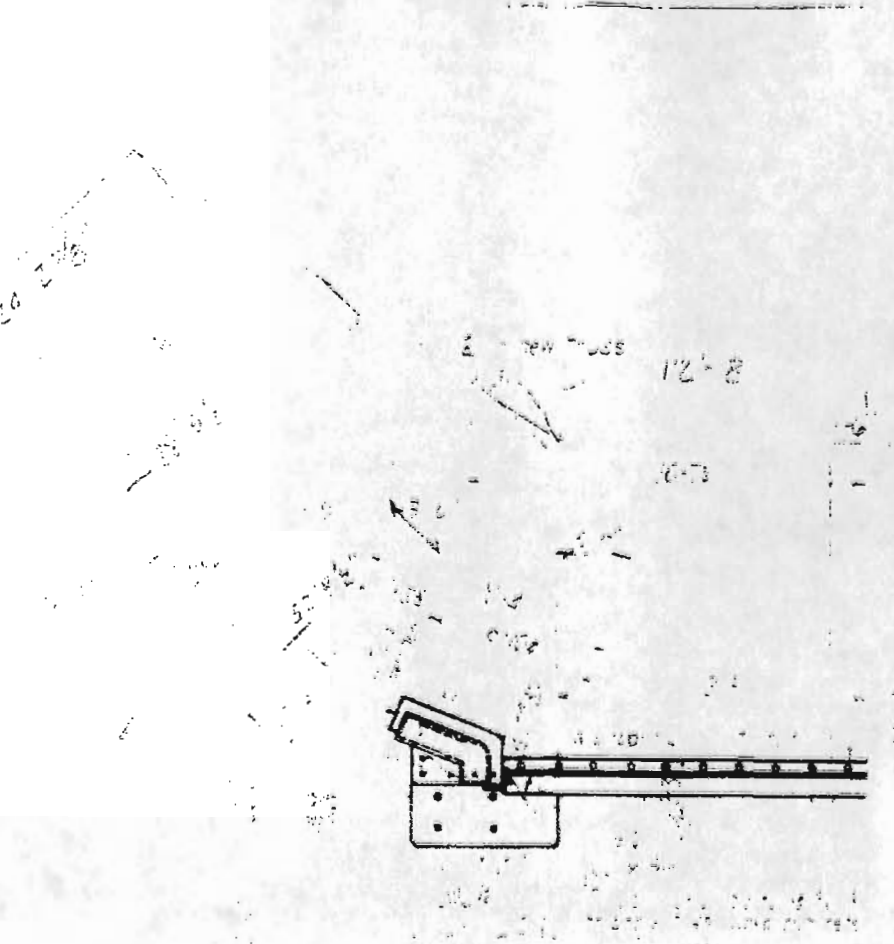
SECTION



COLORADO
STATE HIGHWAY DEPARTMENT
150'x30' STEEL THRU TRUSS
WING EXTENSION
SOUTH SIDE WEST ABUTMENT

FOR LIST OF REFERENCED DRAWINGS SEE SHEET No. 8

STRUCTURE No. L-23-C



Concrete pier having 5 deep
12' x 12' x 12' piers

SECTION-A-A

STRUCTURE NO. 100

BRIDGE ENGINEER
J. A. B. 100

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NO. 1456, THE BRISTOL BRASS STRUCTURE L19 C

SUMMARY - QUANTITIES PER ENTIRE BULKHEAD				
ITEM No	DESCRIPTION	UNIT	TOTAL	W/O TOTAL
11-0	DRY COMMON STRUCTURAL EXCAVATION	Cu Yd	110	210
11-1	WET COMMON STRUCTURAL EXCAVATION	Cu Yd	90	90
42-0	TREATED BRIDGE TIMBER	MBM	0.255	0.260
40-4	TREATED TIMBER PILING	LF	1008	490
40-6	RIPRAP ENCLOSED IN WIRE NETTING	CU YD	190	105
▲	1/2" GALV WIRE 290' 42' WIRE 100' 5' WIRE	94 FT	5740	2870
▲	NO. 9 GALV WIRE 140' 42' WIRE 132' 4" WIRE	272 FT	5300	1500
■	1/2" RIVW E BOLT AND WASTERO, GALV	LB	125	59

▲ 1994年12月10日，在加拿大蒙特利尔举行的世界环境与发展委员会第11次部长级会议上，与会部长一致通过了《蒙特利尔宣言》。

W.D. #3858

34. $YV = 356.2$

3852

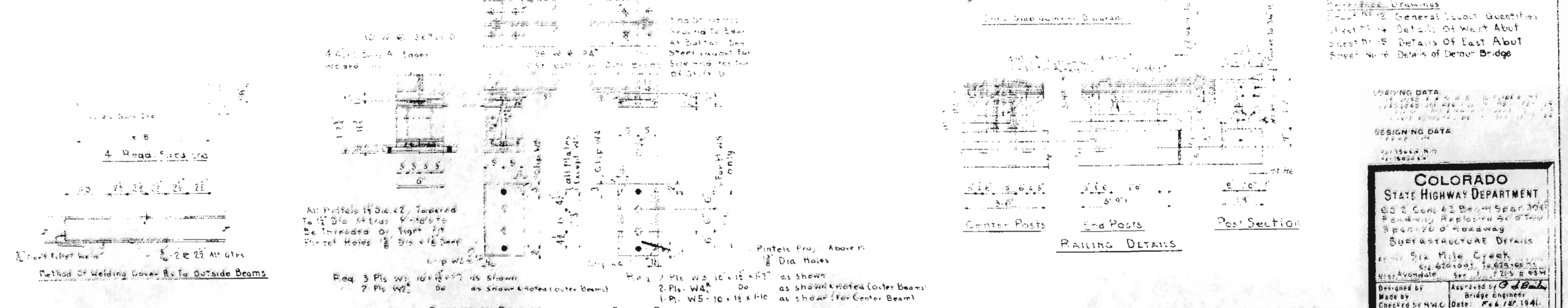
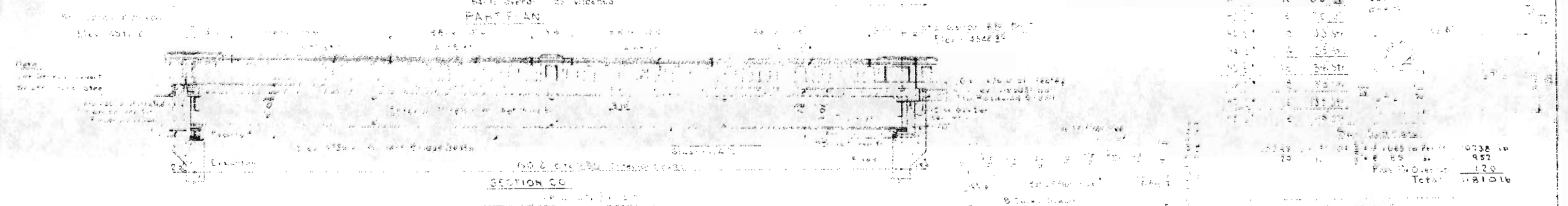
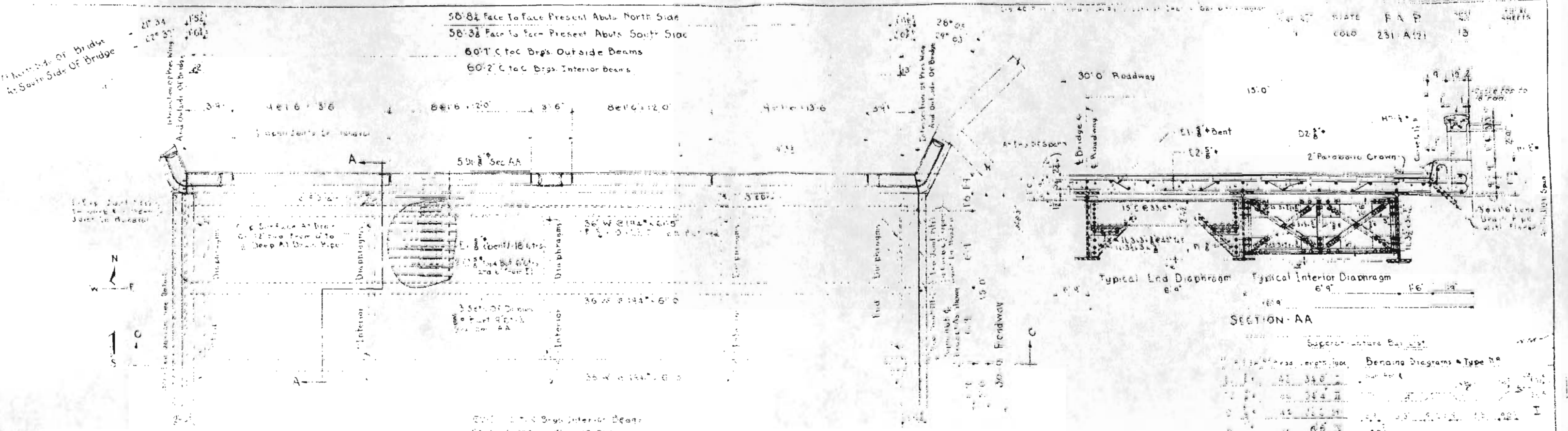
62-551-3553

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For a copy of the report
see page No 5

514-1084-1 L-19-C

COLORADO
STATE HIGHWAY DEPARTMENT
10000 STEEL TRUSS
STAINLESS STEEL RAIL PROTECT ON
STEEL RAIL DEPARTMENT
AT CHARTER RIVER
10000 STEEL TRUSS
STAINLESS STEEL RAIL PROTECT ON
STEEL RAIL DEPARTMENT
AT CHARTER RIVER
10000 STEEL TRUSS
STAINLESS STEEL RAIL PROTECT ON
STEEL RAIL DEPARTMENT
AT CHARTER RIVER



EXPANSION BEARING BEARING DETAILS

Method of Welding Cover Pls. To Outside Beams

Req. 3 Pls. W₈ 10 x 12 x 1/2 as shown & noted (outer beams)

FIXED BEARING

Req. 2 Pls. W₈ 10 x 12 x 1/2 as shown & noted (outer beams)

1 Pl. W₈ 10 x 12 x 1/2 as shown (for center beam)

RAILING DETAILS

Center Posts End Posts Post Section

LOADING DATA

DESIGNING DATA

COLORADO

STATE HIGHWAY DEPARTMENT

60' 2' Cent. & 2' Bent Span 30'

Spanway of Roadway

SURFACE STRUCTURE DETAILS

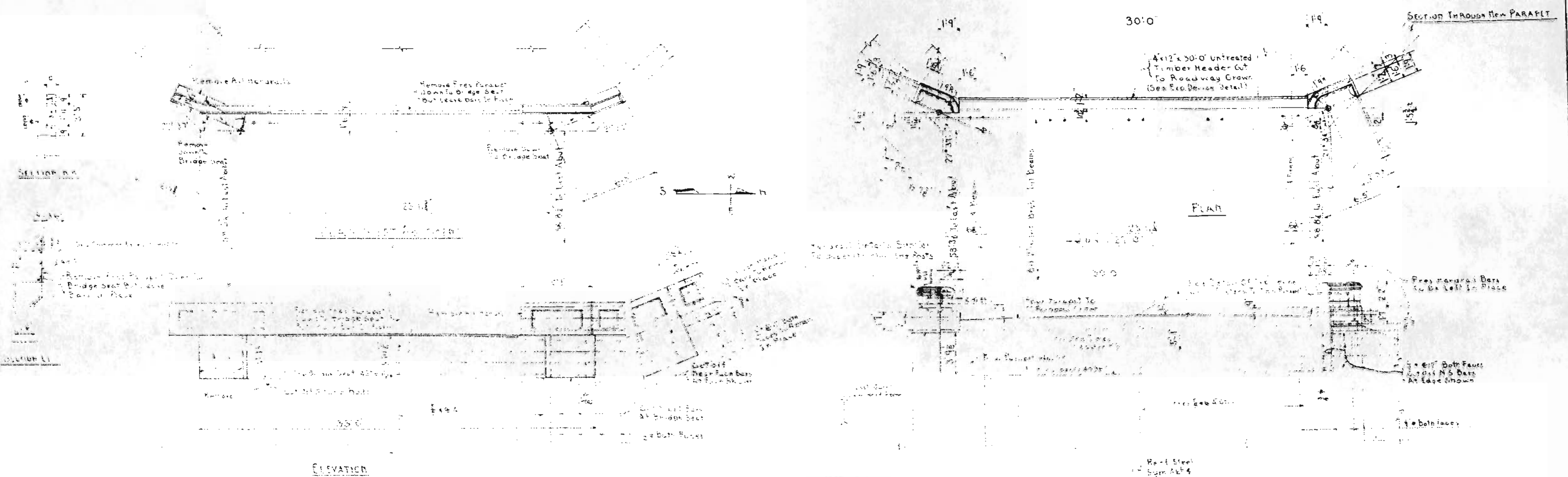
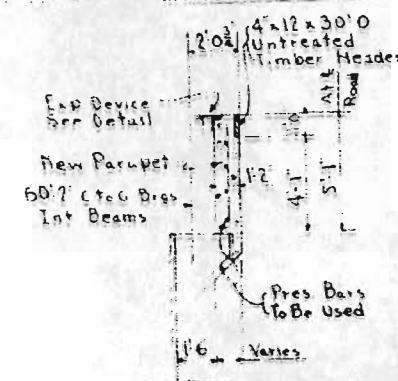
Six Mile Creek

Sta. 620+00 to 620+60

Avondale Sta. 725+00

Designed by	Approved by
Made by	Bridge Engineer
Checked by	Date: Feb. 1941

STRUCTURE NO. L-19-A



Details of Existing Abutment Showing Parts to Be Removed

Details of Attached Abutment

Reference Drawings
 Sheet No. 12 General Layout, Quantities
 Sheet No. 13 Superstructure Details
 Sheet No. 15 Details of East Abut
 Sheet No. 16 Details of Detour Bridge

Mark	Size	No. Reqd.	Length	Type	Bending Diagram
H2	1/2"	8	1'-0"	III	
H9	1/2"	12	2'-6"	Str.	

Bar Summary

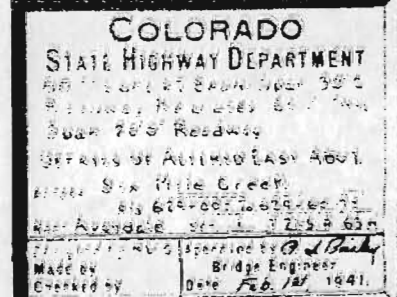
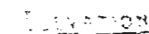
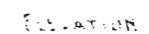
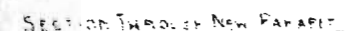
86 Lin. Ft. 1/2" Bars At 85 lb Per Lin. Ft. = 731 lb
 Plus 1% = 2
 Total = 75 lb

Note:
 See Structural Steel Layout
 For Anchor Bolt Settings, Four
 Rows of Bars to Parapet After
 Stem is Set.
 Note that Bars are Not
 Parallel But That Structural
 Steel is Set against Parapet
 is to be Built Parallel to the
 E Beams.
 H2 & H9 Bars are New Rein-
 Bars and Other Rein. is Present
 Steel to Be Used in Place.

LOADING DATA
 LIVE LOAD A & S 100' - 120'
 DEAD LOAD ASUMED 100' - 120'
 WINDING SURFACE WIND 100' - 120'
 DESIGN DATA
 A.B.S. 1945

COLORADO
STATE HIGHWAY DEPARTMENT
 60'7" Long x 1 Beam Span 30'0"
 Roadway Replacing 60'0" Truss
 Span 20'0" Roadway
DETAILS OF WEST ABUTMENT
 Approx. Six Mile Creek
 Sta. 624+00 to 624+60 ME
 near Avondale Sec. 1, T. 21 S. R. 63 W.
 Designed by H.W. G. Approved by C. A. Bailey
 Made by Bridge Engineer
 Checked by Date: Feb. 12, 1941.

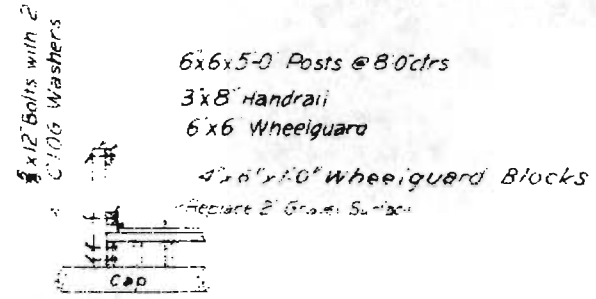
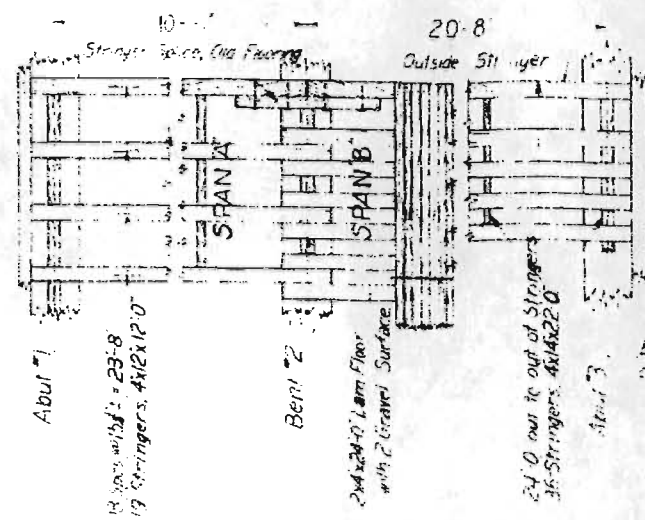
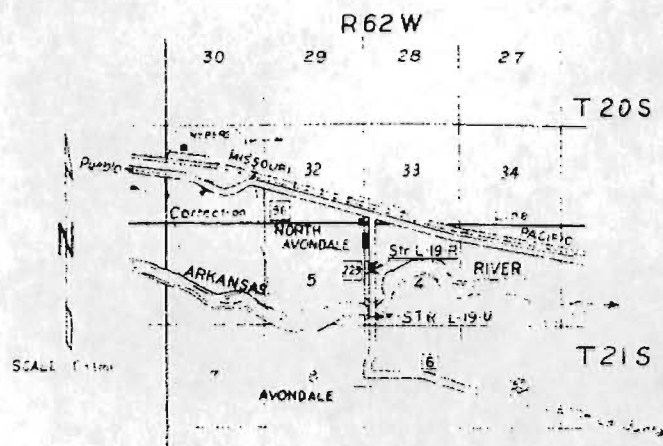
STRUCTURE NO. L-19-A



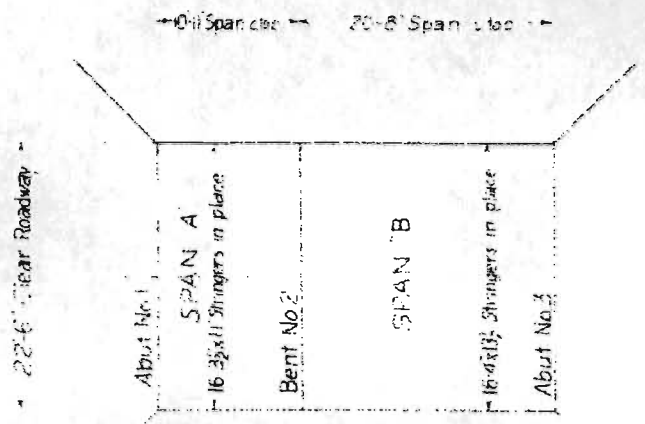
Bar Summary
118 Lin Ft. of 7 Bars @ .85 Lb Per Lin Ft. 49 Lb
Plus 120 Overhead Lb
Total 100 Lb

STRUCTURE NO L-19-A

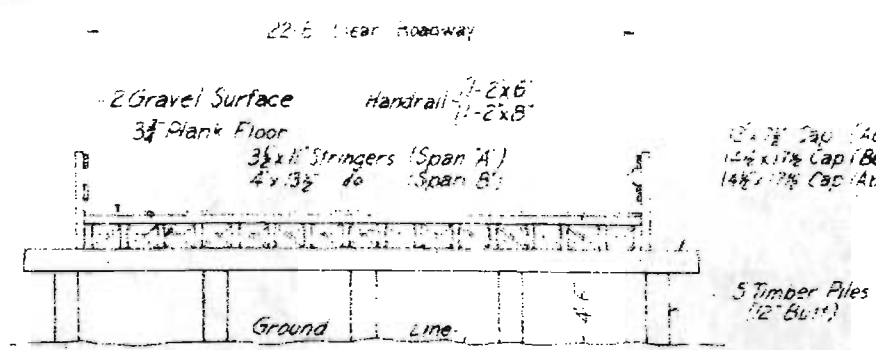
Preliminary Drawings	
Sheet No. 2	General Layout Quantities
Sheet No. 3	Superstructure Details
Sheet No. 4	Details Of West Abut
Sheet No. 5	Details Of Detour Bridge



TYPICAL DETAIL OF NEW HANDRAIL



GENERAL LAYOUT OF PRESENT STRUCTURE



TYPICAL SECTION THRU PRESENT STRUCTURE

PART SECTION OF NEW FLOOR

BILL OF MATERIAL

250	pieces	Flooring	2x4x24-0	4000 Bd Ft
2	do	Stringers	4x12x12-0	144 do
2	do	do	4x14x22-0	2054 do
4	do	Handrail S&S	3x8x18-0	144 do
4	do	Wheelguards	6x6x18-0	144 do
2	do	Planks	4x8x12-0	20 do
10	do	Handrail Posts S&S	6x6x15-0	50 do
		Total		6728 Bd Ft
Handrails	20	Nails	250 Lbs	
	47	Bolts 1/2x12	48 do	
	80	1/2 C.C.S. Washers	60 do	
		Total	358 Lbs	

Noting Directions:
Planks to run parallel to the center line of the bridge and the stringers to run parallel to the center line of the bridge. The floor planks to be 2" thick and the stringers to be 4" thick. The handrail posts to be 6" diameter and the handrail to be 3" thick. The wheelguards to be 6" thick and the wheelguard blocks to be 4" thick. The cap to be 12" thick and the abutment to be 24" thick. The bent to be 24" thick and the span to be 24" thick. The roadway to be 22-6" clear.

SUMMARY OF QUANTITIES

10	Removing & Replacing parts of structure.	Cum Sum
40	Untreated Timber.	6728 Bd Ft

LOADING DATA
LIVE LOAD 4.4 S.H.D. 1935 H-12

DESIGNING DATA
NEW SUPERSTRUCTURE TIMBER
1:1400%

GENERAL NOTES

All work shall be done according to the Standard Specifications of the Colorado State Highway Department. Adopted June 1, 1940.
All timber shall be dense Southern Pine or West Coast Douglas Fir.
All Handrail and Posts above the wheelguards shall be Painted White, and all Handrail Posts below the top of wheelguards shall be Painted Black as specified.

STRUCTURE NO. L-19-R

COLORADO
STATE HIGHWAY DEPARTMENT
ALTERATIONS
FOR DETOUR BRIDGE
S.H. NO. 229

Address: DRAW
Near AVONDALE, Sec. 4, T. 21S. R. 62W.
Designed by WWD Approved by *P. D. Bailey*
Made by WWD Bridge Engineer
Checked by Date: Feb 1st, 1941

REINFORCEMENT BAR LIST

W BARS	SPACING	NUMBER	USE BARS FOR	MARK	SIZE	NUMBER	DIMENSION P	DIMENSION Q	TOTAL LENGTH	BENDING DIAGRAM
H = 1'-0" TO 5'-0" INCL	17"	2L + 6	All Sizes	V	1/2"	6L + 14	S + 10"		S + 2'-2"	
H = 5'-0"	18"	2.82L + 6		W	1/2"	6	H + 7'		H + 1'-11"	
H = 7'-0"	6"	4L + 6		F	1/2"	4			N + 0'-3"	
				U	1/2"	4			L + 1'-8"	
				K	1/2"	4			3'-4"	
H = 2'-0" or more				K	3/8"	4			6'-6"	
H = 3'-0"				K	3/8"	4			12'-0"	
H = 5'-0"				K	1/2"	4			13'-4"	
H = 6'-0"				K	5/8"	4			16'-8"	
H = 7'-0"				K	1/2"	4			20'-0"	
			All Sizes	B	1/2"	2	S + 6'	H + 1'-0"		
				B	3/8"	2	S + 1'-11"	H + 0'-11"		
				B	3/8"	2	S + 2'-3"	H + 0'-9"		
				B	1/2"	2	S + 2'-6"	H + 0'-7"		
				B	5/8"	2	S + 3'-0"	H + 0'-5"		
				B	1/2"	2	S + 3'-5"	H + 0'-3"		
				B	1/2"	2	S + 4'-0"	H + 0'-1"		
				B	1/2"	2	S + 4'-7"	H + 0'-5"		
				B	5/8"	2	S + 5'-2"	H + 0'-6"		
H = 6' or more				B	1/2"	2	S + 6'-0"	H + 0'-11"		
H = 2'-0"				B	1/2"	2	S + 7'-6"	H + 1'-5"		
H = 3'-0"				B	1/2"	2	S + 8'-8"	H + 1'-10"		
H = 4'-0"				B	3/8"	2	S + 9'-10"	H + 2'-4"		
H = 5'-0"				B	1/2"	2	S + 11'-0"	H + 2'-9"		
H = 6'-0"				B	1/2"	2	S + 12'-2"	H + 3'-2"		
H = 7'-0"				B	1/2"	2	S + 13'-4"	H + 3'-7"		
H = 8'-0"				B	1/2"	2	S + 14'-6"	H + 4'-0"		
H = 9'-0"				B	1/2"	2	S + 15'-8"	H + 4'-5"		
H = 10'-0"				B	1/2"	2	S + 16'-10"	H + 4'-11"		
H = 11'-0"				B	1/2"	2	S + 18'-0"	H + 5'-4"		
H = 12'-0"				B	1/2"	2	S + 19'-2"	H + 5'-10"		
H = 13'-0"				B	1/2"	2	S + 20'-4"	H + 6'-5"		
			All Sizes	M	1/2"	5L + 4	H + 3'-0"		S + 5'-3"	

TABLE OF DIMENSIONS AND QUANTITIES													
STEEL QUANTITIES GIVEN BELOW INCLUDE A ALLOWANCE FOR OVERBURDEN OF 75													
TYPICAL QUANTITIES FOR ONE BOX HEADS THE QUANTITIES FOR THE HEADS ARE PLAIN (ALLOWANCE FOR ONE LINEAL FT. OF BOX													
BOX S	T	HEIGHT OF OFF. ALLOW.	DIMENSIONS			NO. OF PLATES	NO. OF PLATES PER BOX	QUANTITIES FOR ONE HEAD FT. OF BOX		QUANTITIES FOR TWO HEADS		STRUCTURAL ESTIMATION	
			M	N	D			CONCRETE CYDS	STEEL LBS.	CONCRETE CYDS	STEEL LBS.	TWO HEADS SQ. FT.	TWO CUT OFF W.L. CYLDS.
6	1	27.0	3.25	6.15	4.10	7	5	213	31.6	4.0	235	100	4
6	1	25.3	3.65	6.95	5.00	7	6	275	39.1	5.6	418	140	5
6	1	18.6	4.25	7.45	5.15	8	6	275	38.5	4.7	364	105	4
6	1	8.6	6.8	9.10	6.15	8	6	333	41.9	6.3	493	195	6
6	1	18.6	9.7	12.45	8.35	8	7	258	45.4	8.4	655	235	7
6	1	12.3	9.95	10.15	8.15	8	7	400	48.6	7.5	568	164	8
6	1	12.3	11.25	11.55	8.45	8	7	486	57.5	10.6	734	259	7
6	1	14.0	11.45	11.75	10.65	8	7	511	55.7	14.3	864	346	8
6	1	11.8	9.25	14.7	8.55	9	7	528	59.1	11.8	815	284	8
6	1	11.8	10.1	14.7	10.75	9	7	583	62.6	15.8	975	378	9
6	1	11.6	11.35	14.7	11.95	9	7	639	66.0	20.2	1190	477	10
6	1	10.0	11.35	14.7	11.95	10	7	575	57.5	9.9	709	227	7
6	1	10.0	11.35	14.7	11.95	10	7	631	64.5	13.4	894	313	8
6	1	10.0	11.35	14.7	11.95	10	7	688	69.5	18.1	1064	408	9
6	1	10.0	14.7	10.95	13.05	10	7	742	71.0	21.7	1291	516	11
6	1	10.0	14.7	10.95	13.05	10	7	797	81.5	28.5	1585	654	12
6	1	10.0	14.7	10.95	13.05	10	7	853	95.0	34.8	1845	765	13

GENERAL NOTES:
 1. This sketch was prepared according to the Standard Specifications of the Colorado
 Highway Department Adopted June 1945

A. Reinforced and plain concrete shall be placed free of form marks.

All exposed surfaces shall be finished free of form marks.

All walls shall have forms on both sides.

At least one joint between concrete members on edge of concrete to be finished.

All construction joints shall be thoroughly cleared before fresh concrete is poured.

Footings in rock shall be poured out to the rock and not formed.

For culverts, required and governing dimensions are sheet No 2.

All reinforcing bars shall be deformed.

All reinforcing bars shall be lapped with the flat lap overlap and letter designation.

Secondary bars when spaced shall be given a lap of 50 diameters.

Main bars shall not be spliced.

Scourlines and depth of foot not shown are according to the best available data, whenever different conditions are encountered, the engineer will inspect and determine if redesign is necessary.

Four wing footings must be placed with floor of box.

The use of additional construction joints, if desirable, showing field conditions require.

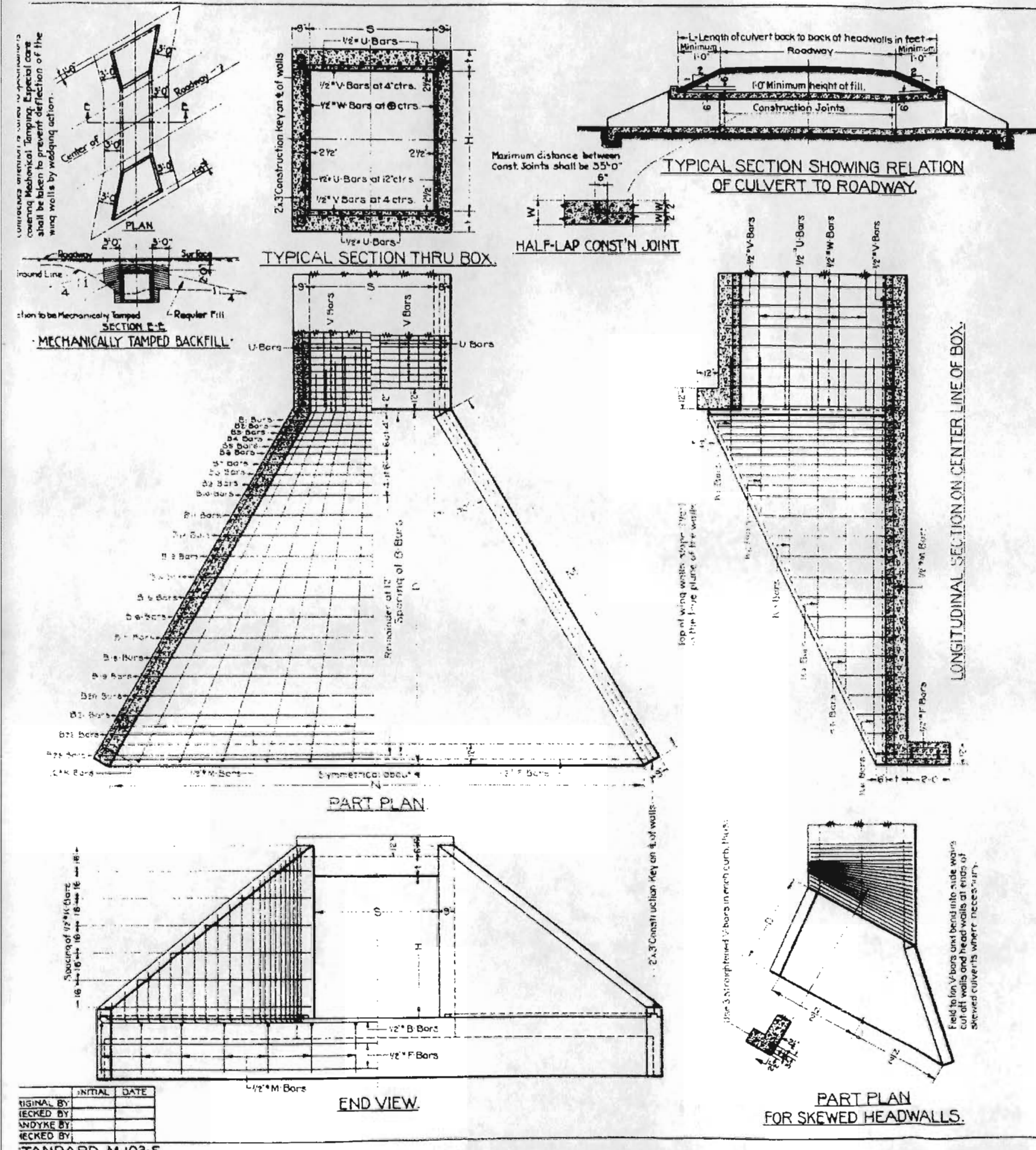
Construction joints may be made on a vertical plane perpendicular to centerline of culvert and shall be half-lap joint as shown in detail.

This design not to be used when height of fill exceeds the allowable tabulated.

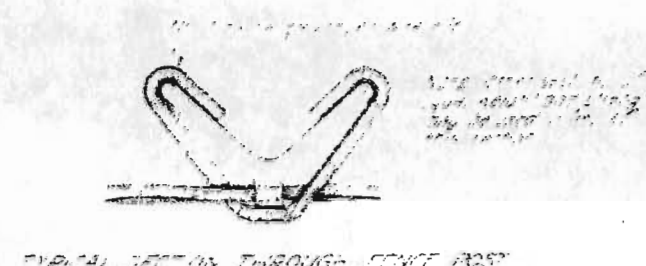
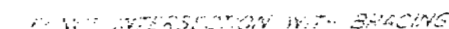
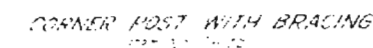
Supporting sand for a culvert must be composed of firm and uniform material throughout.

All backfilling in approaches, top and over culverts, shall be laid in layers not exceeding six inches in depth and each layer shall be compacted in accordance with the illustration for Mechanically Tamped Backfill shown on this drawing.

COLORADO STATE HIGHWAY DEPARTMENT CONCRETE BOX CULVERTS			
18'-0"	4'-2	5'-4	6'-4
2'-2	4'-3	5'-5	6'-5
3'-1	4'-4	6'-2	6'-6
3'-2	5'-3	6'-3	6'-7
3'-3			
Designed by K.B. Made by AGK		Approved by <i>Ed. Thack</i> Bridge Engineer Date: <i>July 18, 1940</i>	



Rev. 4-16-40 F.B.I. Alternate for End and Corner Posts.
Rev. 6-28-40-A.Z. -1940 Specs.



PHYSICAL SECTION THROUGH STAGE 4253

PLANT TREATMENT AT STRUCTURES
RE. DALL 2. STRUCTURES 4, 5, 6 AND OVER

[illegible]

WALK GATE

1. The first part of the document is a list of names and their corresponding dates. The names are: "John Doe", "Jane Smith", "Bob Johnson", "Alice Brown", "Charlie White", "David Green", "Eve Black", "Frank Gray", "Grace Pink", "Henry Blue", "Ivy Yellow", "Jack Purple", "Karen Red", "Leo Orange", "Mia Silver", "Noah Gold", "Olivia Bronze", "Peter Copper", "Quinn Iron", "Rachel Steel", "Sam Tin", "Tina Lead", "Uma Zinc", "Victor Nickel", "Wendy Platinum", "Xavier Silver", "Yara Gold", "Zoe Bronze". The dates are: "1990-01-01", "1990-02-01", "1990-03-01", "1990-04-01", "1990-05-01", "1990-06-01", "1990-07-01", "1990-08-01", "1990-09-01", "1990-10-01", "1990-11-01", "1990-12-01", "1991-01-01", "1991-02-01", "1991-03-01", "1991-04-01", "1991-05-01", "1991-06-01", "1991-07-01", "1991-08-01", "1991-09-01", "1991-10-01", "1991-11-01", "1991-12-01", "1992-01-01", "1992-02-01", "1992-03-01", "1992-04-01", "1992-05-01", "1992-06-01", "1992-07-01", "1992-08-01", "1992-09-01", "1992-10-01", "1992-11-01", "1992-12-01".

1. The first step is to identify the main topic of the document. This is often found in the title or the first few lines of the text.

All wire shall be King or equivalent with the Standards of Specification of the United States Highway Department adopted June 1 1960.
Galvanized wire shall be of standard make not lighter than No. 12 gauge galvanized with two point barbs spaced not more than 6" across span.
Wire mesh must be galvanized and not lighter than shown and noted on this plan.
All line posts to be structural steel to weigh not less than 200 pounds per lineal foot.
Suitable anchor plates shall be securely riveted or welded to each line post.
All posts to be painted with an approved waterproof asphalt or mineral paint or hot dip galvanized.
All corner, end, and gate posts including braces are to be structural steel 2" x 2" x 1/4" angles to weigh not less than 315 lbs per lineal foot, except post supporting driveway gate item No 76h.
All footings or bases shall be of class "A" concrete with minimum 400 and shall be included in the price bid per lineal foot of fence with metal posts.
If knee braces are omitted from end, corner, and gate posts the vertical post must be at least 2 1/2" x 2 1/2" x 1/4".
Corner posts are to be of the same detail for bracing as End Posts and shall be provided with bracing on both legs of the corner angle.
In lieu of the end and corner posts shown hereon, A.S. & W. Co. Expanding Anchor End and Corner Posts (Extra Heavy Duty, 7' or) or an acceptable equivalent of similar type may be used, concrete omitted.

COLORADO
STATE HIGHWAY DEPARTMENT
STANDARD
WIRE FENCE WITH
METAL POSTS

Designed by R.L.L. Approved by
Made by F.B.B. J.H. Marshall
Checked by R.L.L. Date Apr 27 1993



STANDARD M-10-A

FED. ROAD DIST. NO.	STATE	S.N.E.A.P. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLORADO	165 (1) 231 A (2)	19	

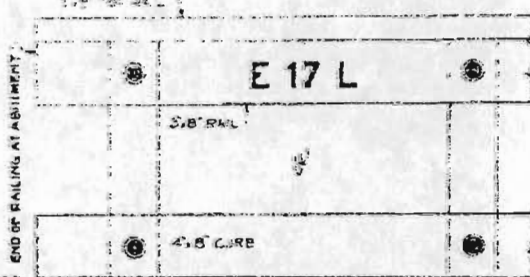
1935 A.S.T. changed to 1935 Specifications
1936 A.S.T. changed to 1937 Specifications
1937 A.S.T. changed to 1938 Specifications
1938 A.S.T. changed to 1939 Specifications
1939 A.S.T. changed to 1940 Specifications

A B C D E F G H I J
K L M N O P Q R S T
U V W X Y Z I 1 4 K
1 2 3 4 5 6 7 8 9 0 .

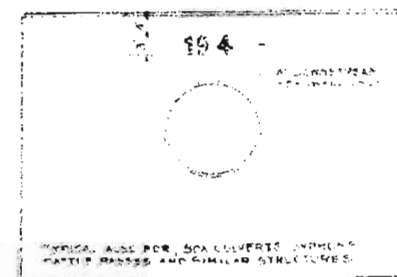
SAMPLE BRIDGE NUMBER



TYPICAL CONCRETE ENDPOST.



TYPICAL TIMBER WING



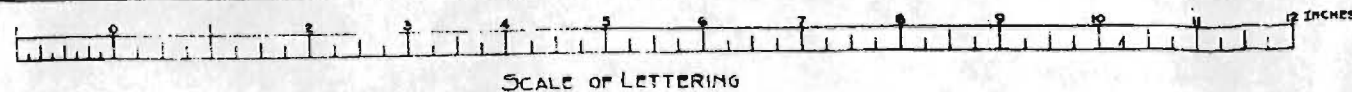
TYPICAL CULVERT HEADWALL.

NOTES:
1. THE YEAR NUMBER SHALL BE INCISED INTO THE PANEL OF THE ENDPOST AT THE RIGHT HAND SIDE OF EACH BRIDGE-END AND INTO THE FACE OF THE DOWNSTREAM HEADWALL OF CULVERTS ETC. A MINIMUM OF 1/8" AS SHOWN.
2. THE NUMBER FOR EACH STRUCTURE SHALL CORRESPOND WITH THE PARTICULAR YEAR IN WHICH THE CONCRETE IS POURED. NUMBERS TO BE OF SIZE, SHAPE AND SPACING AS SHOWN ON THIS SHEET, MADE OF WOOD OR METAL AND ATTACHED TO THE FORMS BEFORE CONCRETE IS POURED.
3. THE CORRECT NUMBER FOR EACH BRIDGE IS SHOWN IN THE LOWER RIGHT HAND CORNER OF THE STRUCTURE NUMBER AND AS SPECIFIED.
4. THE CORRECT NUMBER FOR EACH BRIDGE IS SHOWN IN THE LOWER RIGHT HAND CORNER OF THE STRUCTURE NUMBER AND AS SPECIFIED.
5. THE CORRECT NUMBER FOR EACH BRIDGE IS SHOWN IN THE LOWER RIGHT HAND CORNER OF THE STRUCTURE NUMBER AND AS SPECIFIED.
6. THE CORRECT NUMBER FOR EACH BRIDGE IS SHOWN IN THE LOWER RIGHT HAND CORNER OF THE STRUCTURE NUMBER AND AS SPECIFIED.
7. THE CORRECT NUMBER FOR EACH BRIDGE IS SHOWN IN THE LOWER RIGHT HAND CORNER OF THE STRUCTURE NUMBER AND AS SPECIFIED.
8. THE CORRECT NUMBER FOR EACH BRIDGE IS SHOWN IN THE LOWER RIGHT HAND CORNER OF THE STRUCTURE NUMBER AND AS SPECIFIED.
9. THE CORRECT NUMBER FOR EACH BRIDGE IS SHOWN IN THE LOWER RIGHT HAND CORNER OF THE STRUCTURE NUMBER AND AS SPECIFIED.
10. THE CORRECT NUMBER FOR EACH BRIDGE IS SHOWN IN THE LOWER RIGHT HAND CORNER OF THE STRUCTURE NUMBER AND AS SPECIFIED.

COLORADO
STATE HIGHWAY DEPARTMENT
STANDARD STRUCTURE
NUMBER, LETTERING
AND
YEAR NUMBER MARKING.

Designed by *[Signature]*
Made by *[Signature]*
Check Design *[Signature]*
Check Detail *[Signature]*

Approved by *[Signature]*
Bridge Engineer
Date Feb. 6, 1939.



STANDARD M-14-A

FED. ROAD DIST. NO.	STATE	SURF. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	163(2)	20	

A B C D E F G H I J

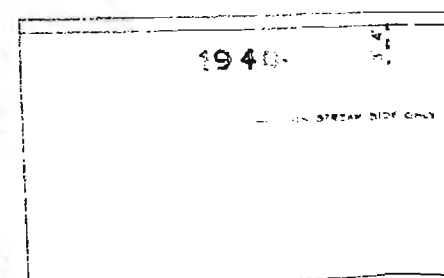
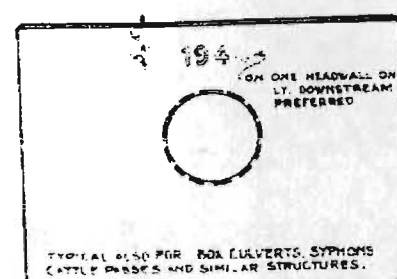
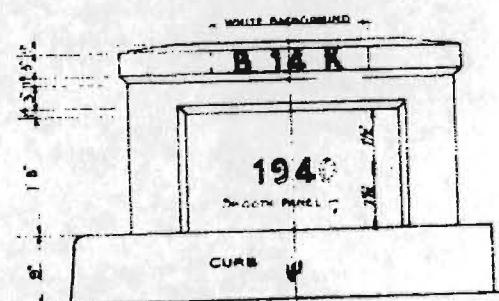
K L M N O P Q R S T

U V W X Y Z

1 2 3 4 5 6 7 8 9 0

SAMPLE YEAR NUMBER

SECTION



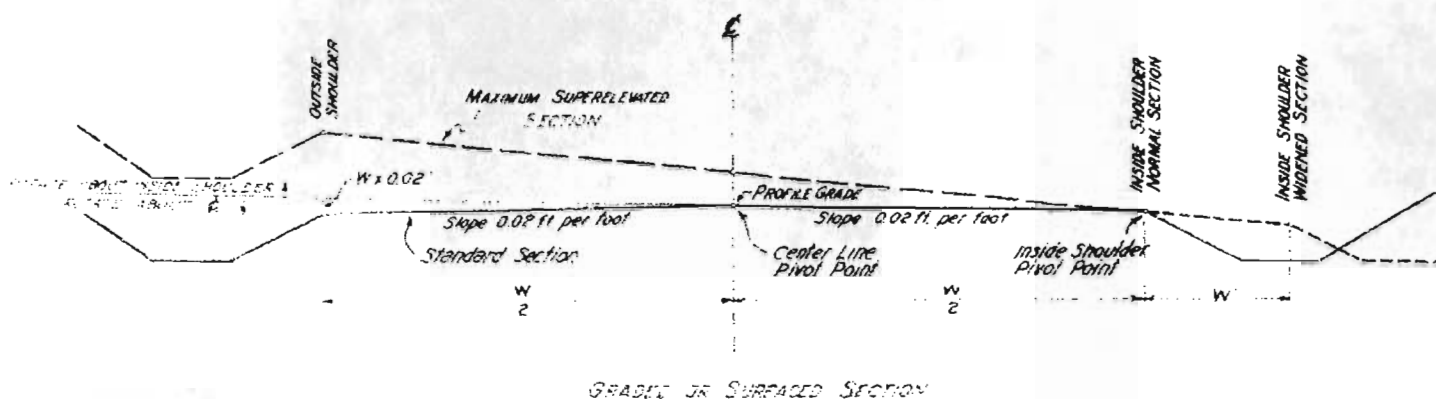
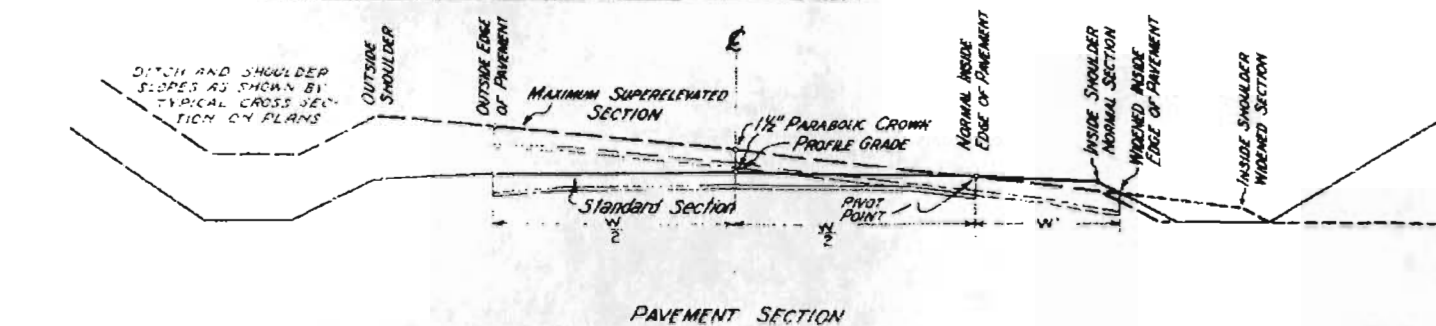
GENERAL NOTES

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE COLORADO STATE HIGHWAY DEPARTMENT, ADOPTED JUNE 1, 1940.
THE SIZE, SHAPE AND SPACING OF THE NUMBERS SHALL BE IDENTICAL WITH THE FULL SIZE SHOWN ON THIS SHEET. ADDITIONAL COPIES OF THIS FULL SIZE SHEET CAN BE OBTAINED FROM THE DEPARTMENT WITHOUT CHARGE.
THIS WORK WILL NOT BE PAID FOR AS A SEPARATE ITEM. COMPENSATION SHALL BE INCLUDED IN THE ORIGINAL CONTRACT ITEMS.
THE YEAR NUMBER SHALL BE RECESSED INTO THE PANEL OF THE ENDPPOST AT THE RIGHT HAND SIDE OF EACH BRIDGE-END AND INTO THE FACE OF THE DOWNSTREAM HEADWALL OF CULVERTS, SYPHONS, RETAINING WALLS ETC. A MINIMUM OF 3/8" AS SHOWN.
THE YEAR NUMBER FOR EACH STRUCTURE SHALL CORRESPOND WITH THE PARTICULAR YEAR IN WHICH THE CONCRETE IS POURED.
NUMBERS TO BE MADE OF WOOD, METAL OR ANY OTHER SUITABLE MATERIAL AND ATTACHED TO THE FORMS BEFORE CONCRETE IS POURED.

COLORADO
STATE HIGHWAY DEPARTMENT
STANDARD STRUCTURE
YEAR NUMBER MARKING

Designed by AND	Approved by Pd B
Made by AND	Bridge Engineer
Check Design	Date June 1977
Check Detail	

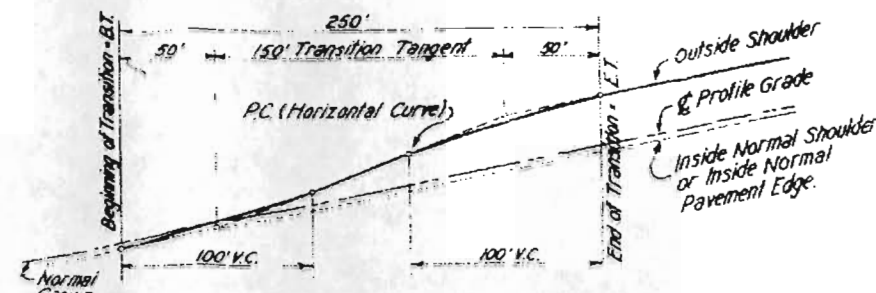
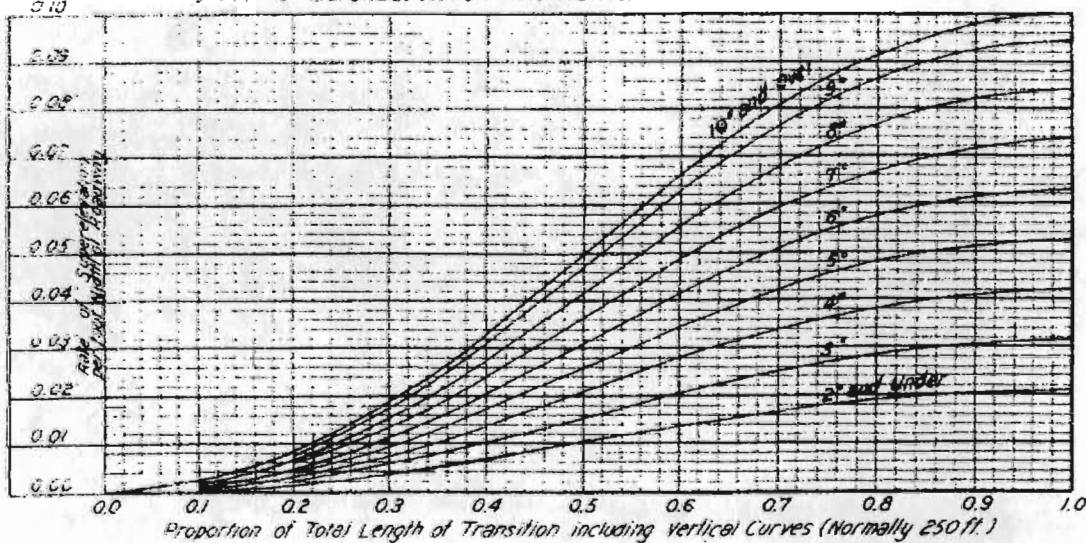
STRUCTURE NO. _____



SUPERELEVATION AND WIDENING TABLES

Grade of Curve	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	Mag. 1.0
Rate of Superelevation in Feet per Foot Width of Roadway										
2° and Under	0.0044	0.0075	0.0099	0.0100	0.0105	0.0100	0.0106	0.0125	0.0206	0.0210
3°	0.0046	0.0063	0.0059	0.0105	0.0157	0.0210	0.0259	0.0288	0.0304	0.0315
4°	0.0048	0.0050	0.0078	0.0100	0.0210	0.0280	0.0343	0.0385	0.0413	0.0420
5°	0.0049	0.0048	0.0084	0.0150	0.0262	0.0350	0.0426	0.0483	0.0514	0.0525
6°	0.0051	0.0052	0.0101	0.0200	0.0315	0.0400	0.0519	0.0577	0.0619	0.0630
7°	0.0053	0.0063	0.0138	0.0240	0.0367	0.0490	0.0597	0.0678	0.0719	0.0735
8°	0.0075	0.0270	0.0157	0.0280	0.0420	0.0560	0.0685	0.0770	0.0825	0.0840
9°	0.0097	0.0078	0.0172	0.0310	0.0425	0.0560	0.0678	0.0663	0.0823	0.0840
10° and Over	0.0090	0.0083	0.0187	0.0333	0.0500	0.0667	0.0825	0.0916	0.0972	0.1000
Offsets for Widening - W' (in Feet)										
Over 10° Under 12°	0.05	0.12	0.27	0.48	0.75	1.08	1.47	1.92	2.43	3.00
12° - 15°	0.04	0.15	0.36	0.64	1.00	1.44	1.96	2.56	3.24	4.00
15° - 20°	0.05	0.20	0.45	0.80	1.25	1.80	2.45	3.20	4.05	5.00
20° and Over	0.06	0.24	0.54	0.96	1.50	2.16	2.94	3.84	4.86	6.00

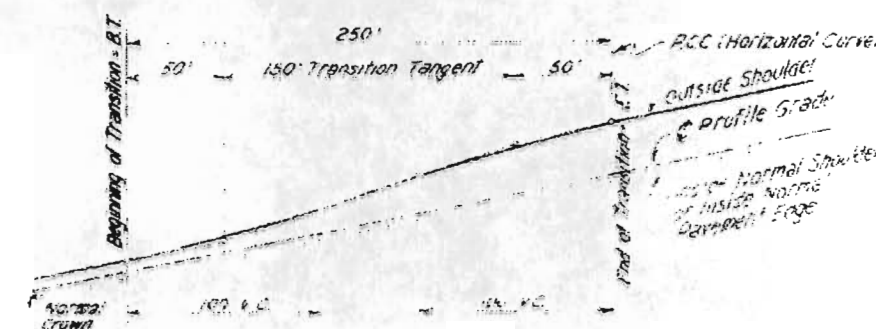
GRAPH OF SUPERELEVATION TRANSITION FIGURES



CASE I: SIMPLE CURVE WITH UNLIMITED TANGENT APPROACH

NOTE CASE I

The transition in this case, from crowned section to super-elevated section, shall proceed uniformly by raising the outside shoulder, over a distance of 250 ft. as shown, beginning at a point on the tangent 150 ft. from the end of the curve, and acquiring full super-elevation at a point 100 ft. inside the curve.



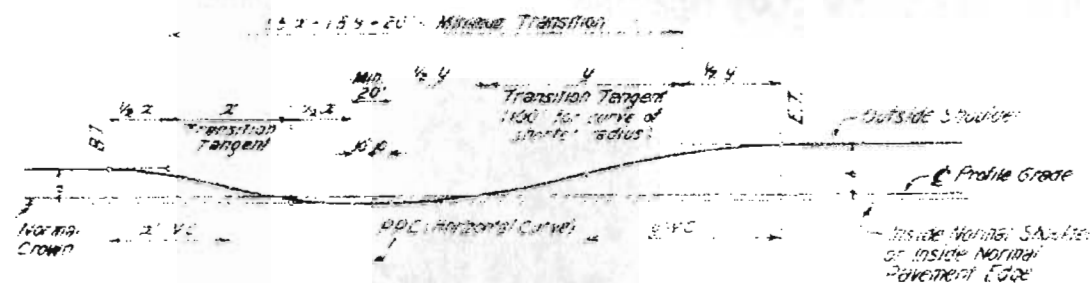
CASE II. COMPOUND CURVE

VOTE CASE 11

Super-elevation transitions at the outside ends of compound curves shall be constructed in accordance with rules given under CASE 1.

Super-elevation transition between the arcs of different radii shall be made as in CASE 1, except that the entire transition shall lie within the limits of the curve of the longer radius.

In cases where curves in the same direction have a tangent distance of less than 300 ft between points of curve, the intervening tangent shall be super-elevated an amount equal to that of the curve of greater radius and the transition shall be made as in the case of a true compound curve.



CASE III: REVERSE CURVES

NOTE CASE III

Transitions between true reverse curves shall be accomplished as shown on the above diagram.

Transition tangents shall be directly proportional to the amount of superelevation of the respective curves

EXAMPLE: Let α represent the amount of superelevation on 1st curve;

EXAM-PL: 2	1	express the emotion	of surprise	expression of	2 nd
	2	"	"	transition	target on 1st
	4	"	"	"	2 nd

then, $a:b = 1:4$.
The transition tangent of the curve having the shorter radius shall be set at 100 ft.
A normal crowned section 20 ft long, 10 ft on each side of the P.R.C. shall be used
in cases where curves in opposite directions are in such proximity that a standard
transition cannot be had, the practice outlined for true reversing curves shall be used.
The total distance between the P.T. of the first curve and the P.C. of the succeeding
curve shall be prorated into the transition distance of the respective curves until
a maximum of 150 ft. of transition tangent for each curve is achieved.

GENERAL NOTES

Curves on projects using the Sections shown are to be superelevated and widened as indicated in the accompanying drawings and tables.

The normal inside edge of the Pavement slab is to remain at the standard elevation of 0.125 ft below the profile grade, and the outside edge of the slab is to be superelevated at the rate per foot width of roadway, given in the table. The Section is to be rotated about the normal inside edge of the Pavement, with a $1/4$ " parabolic crown for curves of 10° and under and a flat crown for widened Sections.

The normal inside edge of the Graded or Sub-grade Section is to remain at the standard elevation of 0.02 ft. per foot width of roadway below the profile grade or as shown on the Typical Section for the Project. Also, the centerline pivot point is to be used until the super-elevation equals 0.02 ft. per foot width of roadway, but when this elevation is exceeded the normal inside shoulder pivot point is to be used.

When the degree of curvature exceeds 10° the inside edge of the Pavement slab or the inside shoulder of the Graded or Surfaced Section is to be widened from the normal inside edge or shoulder, respectively, as shown by the table and plan or by cross-sections. Curves of 10° or less are not to be widened.

The slope of the shoulders and widened sections shall conform to the rate per foot width of roadway required except that the inside shoulder of paved sections shall maintain the Typical Section slope until this slope is exceeded by the required superelevation slope.

The width of a super-elevated section is to be modified, where necessary, to provide drainage. Otherwise this ditch shall conform to normal ditch section shown for Project.

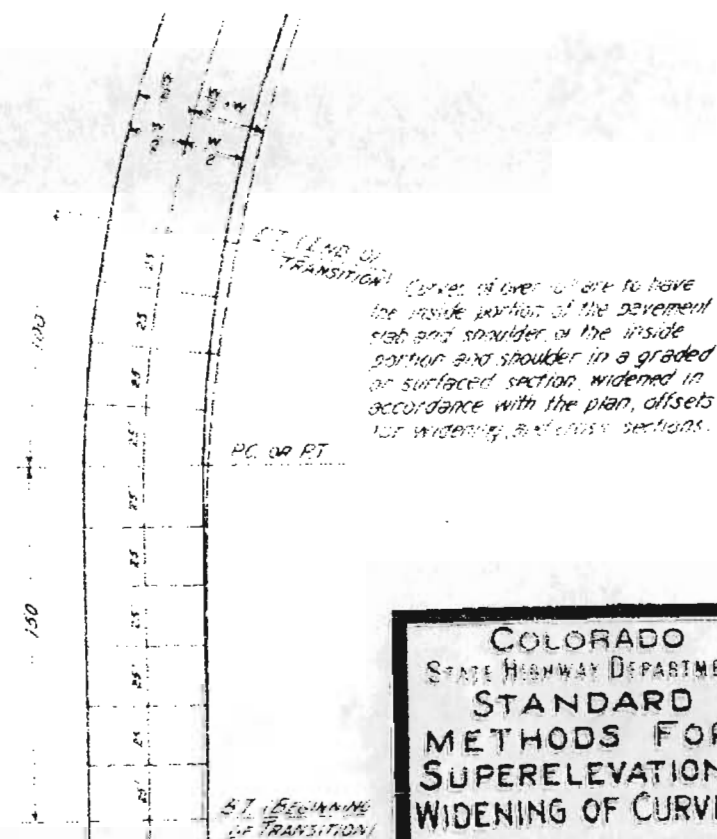
The rate of super-elevation for foot width of roadway to be applied at the outside shoulder of the roadway is computed as follows:

The full super-elevation for half width of roadway rate for a given degree of curvature is

0.0105 ft : Degree of saturation

The max diff superposition of 0.10 is the total weight, giving 10% of 10% and 10% is the final weight.

These transactions cannot be covered by any standard sheet that
is covered by administrative rules initiated with current date or digits



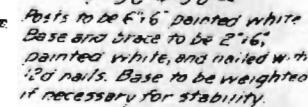
GENERAL PLAN OF
WIDENING

COLORADO
STATE HIGHWAY DEPARTMENT
STANDARD
METHODS FOR
SUPERELEVATION &
WIDENING OF CURVES

RECEIVED
PBB
MAR 23 1937

FED ROAD DIST. NO.	STATE	FED AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO	44-1-101	22	

TYPICAL PLANS FOR SIDE APPROACH ROADS



Side drains shall be placed at the greatest feasible distance from the roadway shoulder consistent with good practice. A minimum of 20 feet from shoulder should be adhered to wherever possible.

*** MAJOR ROAD APPROACH**

SLOPE TO SUIT MATERIAL

SLOPE 2:1

SLOPE 0.02' PER FT.

SLOPE 1/4 TO 1

MIN. 30 FT.

1/2 CUT SECTION

1/2 FILL SECTION

R.O.W. LINE

50'

400'

50'

10' LANE FOR ACCELERATION

NORMAL SHOULDER LINE

10' LANE FOR DECELERATION

⁶ "Minor Road Approaches shall be used at all places which are not indicated as "Major Road Approaches." The width of crowned section shall not be less than the existing crowned width of the approaching road, but in no case shall it be less than 16 feet.

Diagram illustrating the cross-section of a road with a super-elevated section, showing the transition from a cut section to a fill section.

Top Diagram (CUT SECTION and FILL SECTION):

- Left Side (CUT SECTION):**
 - Shoulder Line 2m
 - SLOPE 0.02' PER FT.
 - 40' VERT. CURVE
 - 20' (twice)
 - NOT STEEPER THAN 8%
- Right Side (FILL SECTION):**
 - Shoulder Line 2m
 - SLOPE 0.02' PER FT.
 - 40' VERT. CURVE
 - 20' (twice)
 - NOT STEEPER THAN 8%

Bottom Diagram (CUT SECTION and FILL SECTION):

- Left Side (CUT SECTION):**
 - Shoulder Line 2m
 - SLOPE 0.02' PER FT.
 - 40' VERT. CURVE
 - 15' (twice)
 - 5' 5"
 - NOT STEEPER THAN 8%
- Right Side (FILL SECTION):**
 - Shoulder Line 2m
 - SLOPE 0.02' PER FT.
 - 40' VERT. CURVE
 - 20' (twice)
 - NOT STEEPER THAN 8%

Labels and Notes:

- 1/2 CUT SECTION** (Top Left)
- 1/2 FILL SECTION** (Top Right)
- SUPERELEVATED SECTION** (Center)
- CUT SECTION** (Bottom Left)
- FILL SECTION** (Bottom Right)
- DOWN SLOPE EXTENDED - NOT MORE THAN -0.1' PER FT.** (Bottom Right)
- NOT STEEPER THAN 8%** (Multiple locations)
- NOT STEEPER THAN 10%** (Bottom Right)

in such cases, methods used, and maximum grades, shall be as indicated on the plans or provided by work order.

- (1) All barricade material it shall always be well repaired as per sketch, and well maintained.
- (2) A reflectorized arrow of an approved type for each barricade at the ends of the Project and at other barricades required where traffic is permitted or road under construction.
- (3) "SLOW ROAD UNDER CONSTRUCTION" signs as required.
- (4) Any special signs the Department may deem necessary for the protection of traffic over the Project.
- (5) At least three (3) flares or torches for each barricade, and other flares to illuminate such signs as are called for on these plans, or as the Department may direct.

Flares or torches shall be placed between 3 and 5 feet ahead of the sign or object to be illuminated, and shall be kept burning from sunset to sunrise.

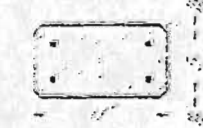
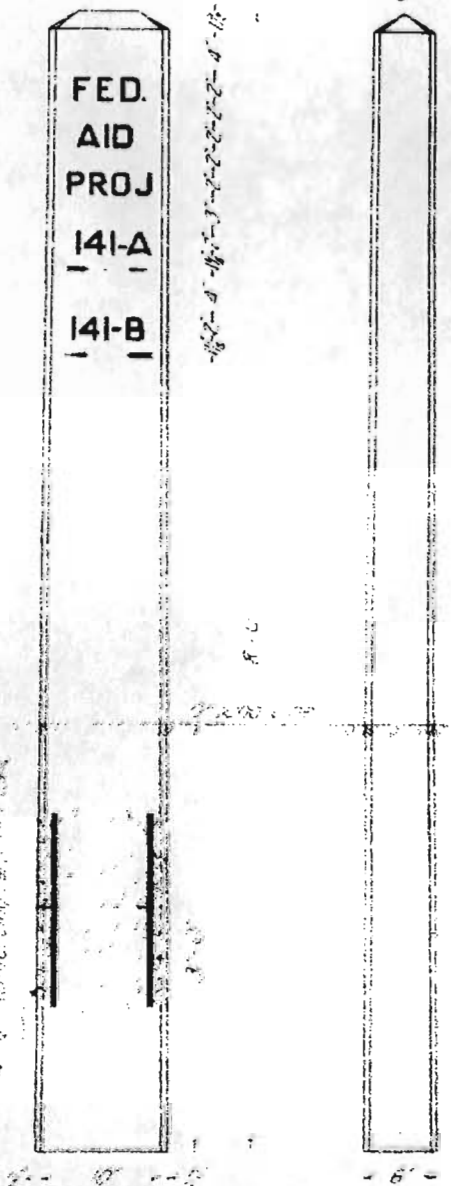
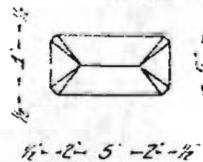
Costs of all of the foregoing materials and work by the Contractor shall be included in the original contract prices for the Project.

The Highway Department will furnish all standard signs not required to be furnished by the Contractor.

CONTRACTOR'S NAME

[illegible]

PROJECT MARKER POST ITEM N° 818



NOTES FOR PROJECT MARKER POSTS

All work shall be done in accordance with the Standard Specifications of the Colorado State Highway Department, adopted June 1, 1940.
Posts shall be made of Class "A" concrete except use White Portland Cement.
All exposed surfaces shall be rubbed free of form marks.
All letters and numbers shall be 2" plain upright black, painted or stenciled on the concrete with a good quality of black paint. See Item N° 41, "Second Field Coat - Dark".
Numbers and arrows shall show the proper numbers and directions of the projects each way from where the post is placed.
Post to be set with sign facing the road at the end of the project, two feet inside the R.O.W. line or at a point amply protected from traffic in such a position that the sign will indicate properly the projects to which it refers.

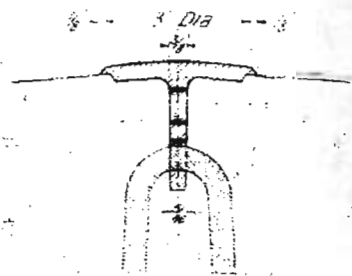
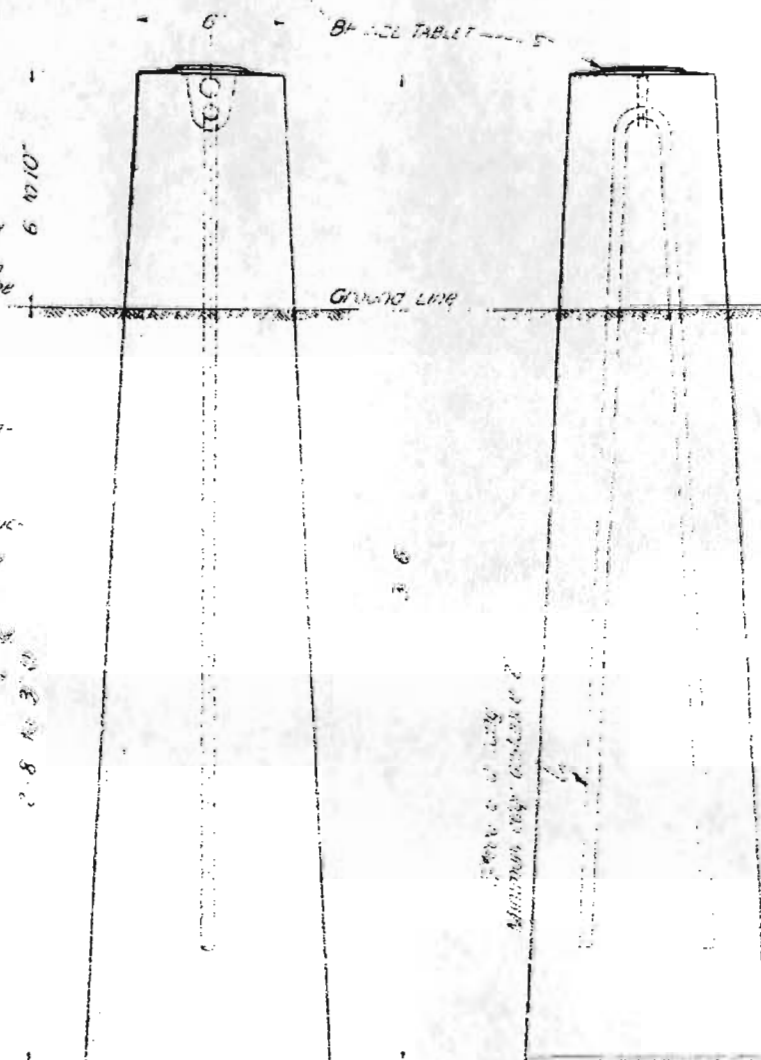
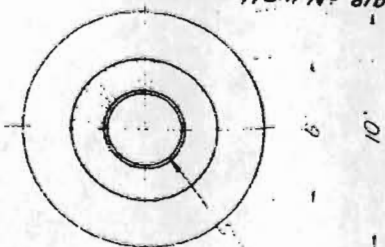
NOTES FOR ROW MARKER POSTS

All work shall be done in accordance with the Standard Specifications of the Colorado State Highway Department, adopted June 1, 1940.
Posts shall be made of Class "A" concrete.
The top of the post shall be rubbed free of form marks and the top surface of the post must be constructed to drain thoroughly.
All exposed surfaces of the bronze tablet are to be rubbed to a smooth surface.
The tablet is to be supported by a minimum of 1/2" thick steel material on the bronze tablet mounted by bolt and nut, to be embedded in the top of the concrete. The post is to be set in the field of the engineering party, and the post is to be set in the field of the engineering party, and the post is to be set in the field of the engineering party.
The letters and figures to be used.
Project designations in figures shall be properly shown. Thus "A.P." for Federal Aid Projects, "S.P." for State Projects and "R.O.W." for Right of Way Projects.



SECTION B-B

RIGHT OF WAY MARKER POST ITEM N° 816



SECTION A-A

DETAIL OF BRONZE TABLET
FOR RIGHT OF WAY MARKER POST

REVISIONS
Per 6-15-40 A.C.C. Specs.
STANDARD M-7-B

FED. ROAD DIST. NO.	STATE	SHEET NO.	TOTAL SHEETS
3	COLO.	23	23

COLORADO
STATE HIGHWAY DEPARTMENT
STANDARD
MARKER POSTS

Designed by G.F.I.
Made by FRS
Checked by R.E.L.

Approved by
Date
4/1/53

STA 345+00 - BEGIN SN F.A.P. 163 (2)

345+00 - Remove Sign on Rt
344+00 to 345+50 - Reqd 20
cu yds Excav for Ditch Change
on Rt

347+05 - Remove Sign on Rt

349+00 to 350+00 - Reqd 10 cu yds
Excav for Ditch Change on Rt

350+00 to 351+00 - Reqd 60 cu yds
Excav for Ditch Change on Rt (Use
10' x 30' C.M.P. Side Drain
for Road Approach on Lt)

351+00 to 352+00 - Reqd 10 cu yds Embank
on Rt for Road Approach on Rt

353+00 - Remove Sign on Rt

353+00 to 354+00 - Reqd 10 cu yds
Excav for Ditch Change on Rt
and Reqd 10 cu yds Excav for Inlet
and Outlet Ditches Remove Headwalls
and Inlet Keyways

357+00 to 357+90 - Remove and Reset
20 T-Beam Guard Posts on Lt and Rt

348+50 - Rem Sign on Lt
348+70 - Rem Sign on Lt

349+25 - Remove Sign on Lt

350+00 - Remove 12" x 8"
C.M.P. Side Drain (2' Conc
Headwalls) on Lt Reqd
20 cu yds Excav and
18" x 30" C.M.P. Side Drain
for Road Approach on Lt

351+45 - Remove Sign
on Lt

352+00 to 353+80 - Reqd
200 cu yds Embankment
Term Reservoir on Lt

352+00 to 357+92.8 - Rem 1186
sq yds Concrete Pavement

356+15 - Extend present 3' x 3'
Conc Box Culv 9 ft on Lt and 7
ft on Rt and Reqd 50 cu yds
Excav for Inlet and Outlet Ditches
Remove Headwalls and Inlet
Keyways

357+00 to 359+07.3 - Remove
Present Bridge Superstructure
Remodel Present Abut. and
Place New Superstructure as
per details on Sheet No. 3

359+07.3 to 365+50 - Remove
1206 sq yds Concrete
Pavement

359+50 to 360+20 - Remove
Bent and Reset 20 T-Beam
Guard Posts on Lt & Rt

365+50 - Reqd 190 cu yds
Excav and remove
400 sq yds Conc Pavt
for Approach to Project

NOTE: Plans prepared on basis of field data to be used as a guide only. Changes
in location and Right of Way Markers required are shown on
Sheet No. 3.
Alignment and Grades as shown are subject to
revision during construction and approval of the Engineer
Office.

STRUCTURE NOTES FOR BRIDGE STA 357+00 TO 359+07.3
SPAN 80' STRUCTURE NO. 1 - B.C.

STA 365+50 - END SN F.A.P. 163 (2)

355 cu yds. Excav to be
wasted along Toe of Fill
Sta. 360+ to 363+

535 cu yds. Excav to be
wasted along Toe of Fill
Sta. 355+ to 357+