

INDEX OF SHEETS

Sheet No. 1 Title Page
 Sheet No. 2 Summary
 Sheet No. 3 Typical P-Section
 Sheet No. 4 Plan View of Superstructure Sta 204+36
 Sheet No. 5 Plan View of Culverts
 Sheet No. 6 Plan View of Bridge
 Sheet No. 7 Plan View of Roadway
 Sheet No. 8 Plan View of Roadway
 Sheet No. 9 Plan View of Roadway
 Sheet No. 10 Plan View of Roadway
 Sheet No. 11 Plan View of Roadway
 Sheet No. 12 Plan View of Roadway

COLORADO STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. 267B

STATE HIGHWAY NO. 12

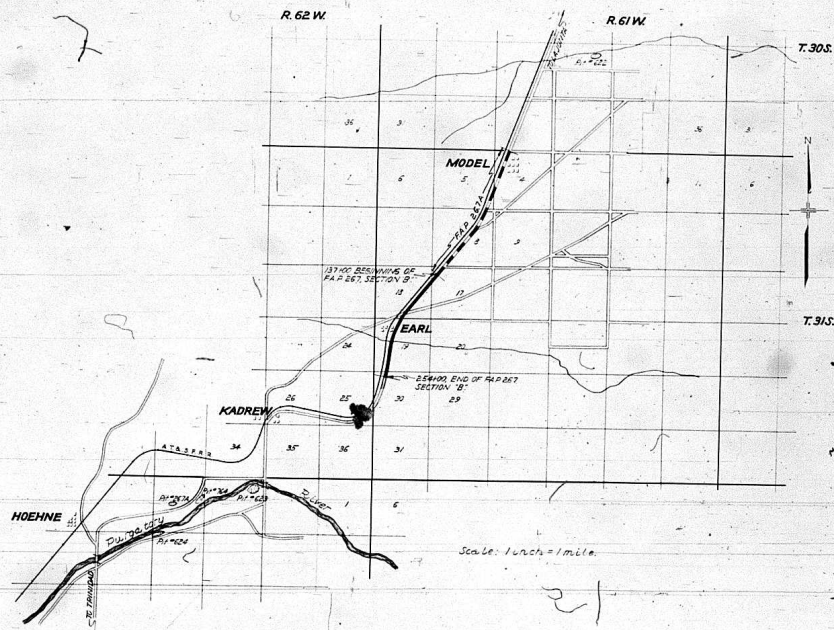
LAS ANIMAS COUNTY

CONVENTIONAL SIGNS

Street E
 Street W
 Street N
 Street S
 Street NE
 Street NW
 Street SE
 Street SW
 Street E
 Street W
 Street N
 Street S
 Street NE
 Street NW
 Street SE
 Street SW



SCALES
 ON PLAN, 1 IN. = 100 FT.
 ON PROFILE, 1 IN. = 100 FT. HORIZONTAL
 1 IN. = 10 FT. VERTICAL
 GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
 GROSS LENGTH OF PROJECT 11,700 ft = 2.216 mi.
 NET LENGTH OF PROJECT



RECOMMENDED FOR APPROVAL

APPROVED

RECOMMENDED FOR APPROVAL

CHIEF ENGR. BUREAU PUBLIC ROADS

RECOMMENDED FOR APPROVAL

APPROVED

CHIEF ENGR. BUREAU PUBLIC ROADS

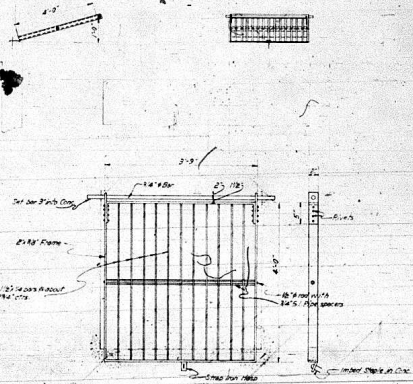
DIRECTOR BUREAU PUBLIC ROADS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SECTION NO.	POST MILE
1	COLORADO	2678	2	

Revised 1-5-76 RMA
Rev. as const. 12-26-76, K.M.M.

[illegible]

NOTE:- FOR TYPICAL CROSS SECTION SEE SHEET NO. 2A

[illegible]

End of Culvert

10'-0"

5'-0"

Remove Old headwall

Drill old box

Advised

Old box

PLAN

For OVER SIGHT SEE CONSTRUCTION AND PLANS

SECTION C-C

SECTION D-D

SECTION B-B

SECTION A-A

PROPOSED EXTENSION TO CULVERT, STA. 183+50

BAR LIST FOR EXTENSION

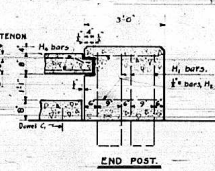
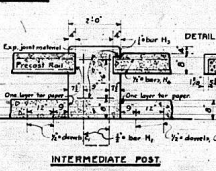
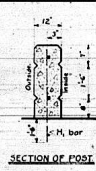
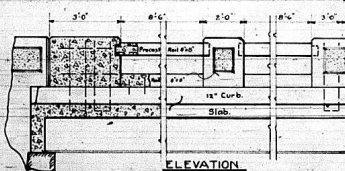
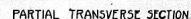
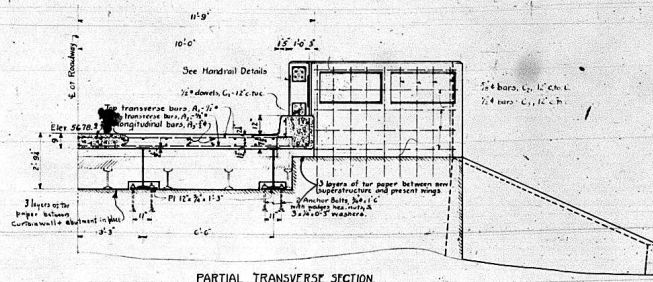
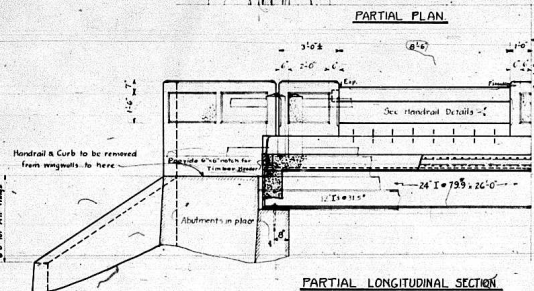
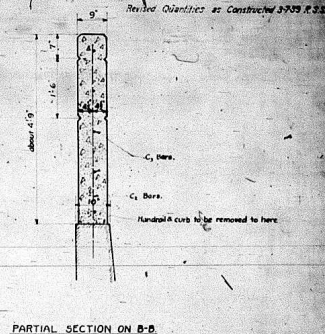
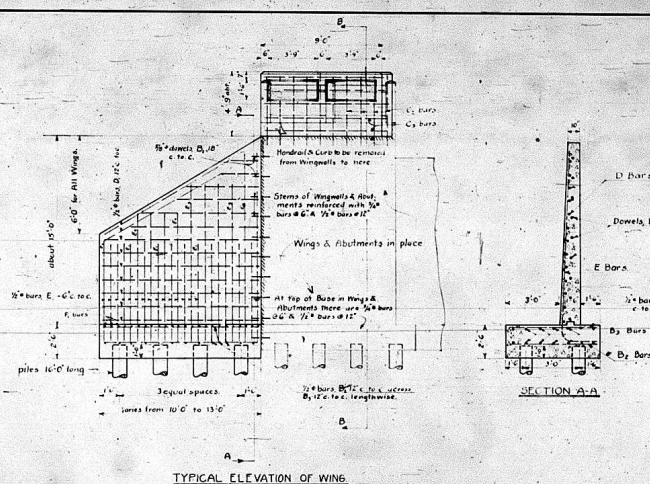
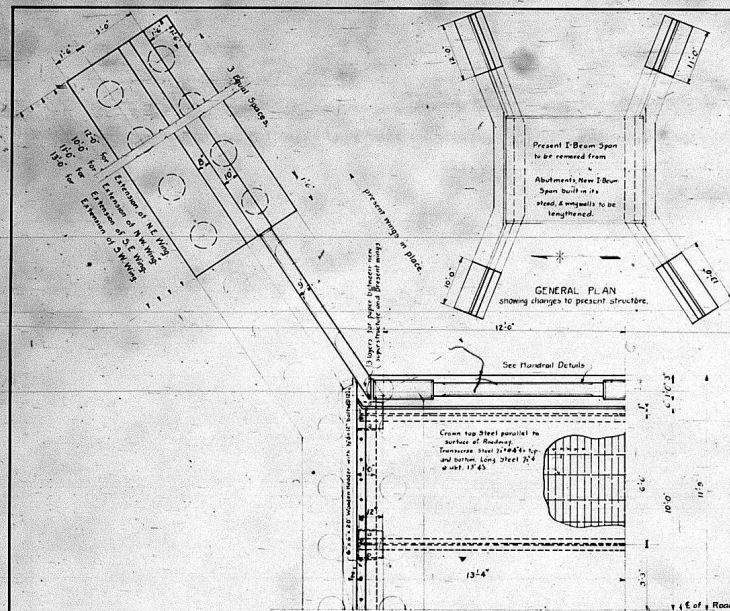
Material Take-Off			BENDING DIAGRAM		
Mix	Size	Number/Length	All dimensions are in % of bars		
C ₁	1/2"	6 - 3'		2nd bar	
C ₂	3/4"	16 - 5'9"			
C ₃	1"	10 - 4'4"			
F ₁	1/2"	18 - 4'4"			
F ₂	3/4"	6 - 13'9"			
F ₃	1"	10 - 9'0"			
E ₁	3/4"	20 - 1'4"			
D ₁	1/2"	10 - 10'0"			
37% for over run					
TOTAL					
488 lin ft 1/2" bars @ 485 lbs. per ft.			238,560 lbs.		
488 lin ft 3/4" bars @ 662 lbs. per ft.			322,856 lbs.		
			761 lbs.		
			35 lbs.		
			800 lbs.		

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES	
Remove old Headwall	1 1/2 Cu.Yd
Concrete Class "A"	9 Cu.Yd
Reinforcing Steel (1/2" included)	800 Lbs

SUMMARY			
NO	ITEM	UNIT	QUANTITY
1	Excavation	Cu Yds	
2	Backfill	cu Yds	12.82
3	2" Minimum Edge for Structures (Curbs)	cu Yds	100
4	Concrete on Gravel and Stone	cu Yds	44.80
5	Base Surface	cu Yds	44.80
6	Concrete on Gravel Surface	cu Yds	44.80
7	Base of Concrete	cu Yds	
8	Gravel Concrete		
9	Manhole Deck	Lbs	5.71
10	For Metal Deck Plate	Lbs	150
11	Marking of Manhole by use of "Red Poles"	hr	
12	For Concrete Deck	hr	23.86
13	2" DEAM SUPERSTRATE SL 224 LB		
14	Removal of concrete from Pans of Present Structure	Long Sct	
15	Gravel	Lbs	7.68
16	Non-Shoring Steel	Lbs	30.0
17	Structural Steel	Lbs	100
18	Unbraced Timber Piling	Lbs	20
19	Dry Common Edge for Structure (Bridge)	cu Yds	
20	Wet	cu Yds	
21	Interpret Time - minutes	hr	6.16
22	Removing Material Concrete Slab (18" Sd)	Long Sct	
23	Shoring	Long Sct	

Construction quantities are supported by plotted cross sections and notes on file.



FED. ROAD DIST. NO.	STATE	FED. RD. PROJ. NO.	SURVEY NO.	DATE
3	COLO.	267-B	3	

Revised 6-22-55 H.W.A.

BAR LIST.

PIER	SIZE	LENGTH	Bending Diagrams.
			Dimensions are for centers of steel
A	14"	81' 22' 6"	20'-0" Top A ₁
A ₁	14"	81' 25' 6"	15'-0" Top A ₁
B	16"	42' 24' 0"	
B ₁	16"	42' 27' 0"	
C	16"	40' 5' 0"	
C ₁	16"	40' 5' 0"	
D	16"	40' 5' 0"	
E	16"	40' 5' 0"	
F	16"	40' 5' 0"	
G	16"	40' 5' 0"	
H	16"	40' 5' 0"	
I	16"	40' 5' 0"	
J	16"	40' 5' 0"	
K	16"	40' 5' 0"	
L	16"	40' 5' 0"	
M	16"	40' 5' 0"	
N	16"	40' 5' 0"	
O	16"	40' 5' 0"	
P	16"	40' 5' 0"	
Q	16"	40' 5' 0"	
R	16"	40' 5' 0"	
S	16"	40' 5' 0"	
T	16"	40' 5' 0"	
U	16"	40' 5' 0"	
V	16"	40' 5' 0"	
W	16"	40' 5' 0"	
X	16"	40' 5' 0"	
Y	16"	40' 5' 0"	
Z	16"	40' 5' 0"	

2630 lb. feet of 7/8" bars @ 6.68 lbs. per ft. = 1737 lb.
 5739 lb. feet of 7/8" bars @ 0.850 lbs. per ft. = 4879 lb.
 280 lb. feet of 7/8" bars @ 1.043 lbs. per ft. = 292 lb.
 357 lbs. Total = 7328 lbs.

SUMMARY OF QUANTITIES	
Removing part of present structure -	Lump Sum
Timber Piling (untreated)	512 lin.ft.
Excavation (Dry, Compacted) 4' Depth Assumed	66 cu. yd.
Excavation (Wet, Compacted) 4' Depth Assumed	80 cu. yd.
Concrete (Class A)	78 cu. yd.
Structural Steel (incl. 3% overrun)	8310 lbs.
Reinforcing Steel (incl. 3% overrun)	7200 lbs.
Untreated Timber Headings	2800 lbs.

LOADING:-
LIVE LOAD: AA.S.H.Q. CLASS I-15

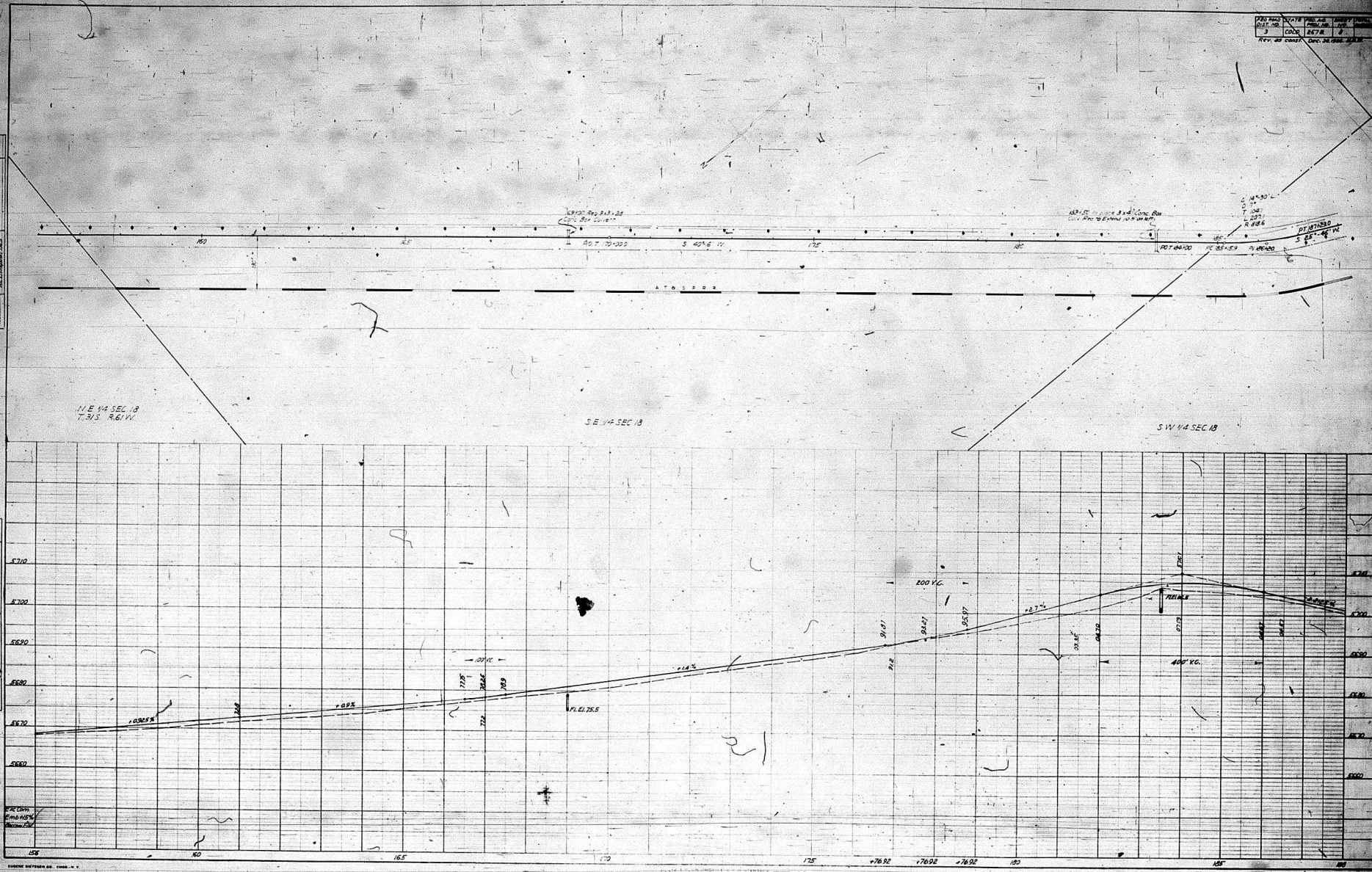
THE UNIVERSITY OF CHICAGO

COLORADO STATE HIGHWAY DEPARTMENT <u>NEW 24'-0" I-BEAM SUPERSTRUCTURE</u> AND <u>WINGWALL ADDITIONS</u> Bridge across Arroyo at Sta 224+ Near Earl Sec 30-T3S-R	
Designed by H.G.S. Made by H.G.S. Checked by LAM	Approved by <i>[Signature]</i> Bridge Engineer Date <i>1-5-81</i>

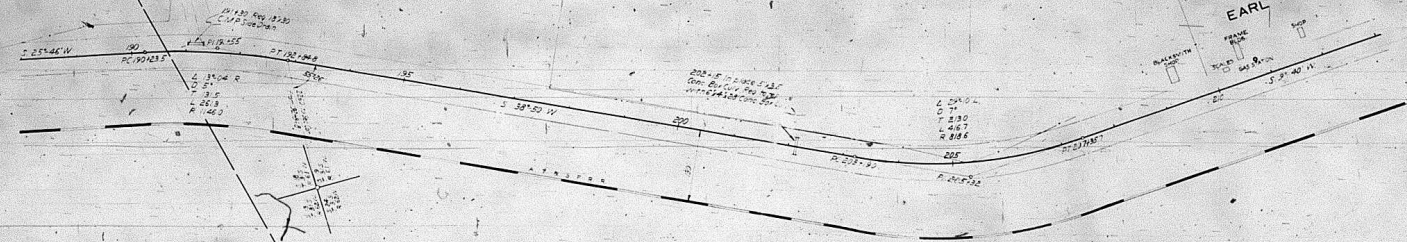
Structure No. 9-15

PLAN	DATE	BY	CHECKED
10/28/58	W. J. H.	W. J. H.	W. J. H.
NOTE: ROAD TO BE CONSTRUCTED TO BE 12' WIDE AND 12' HIGH.			

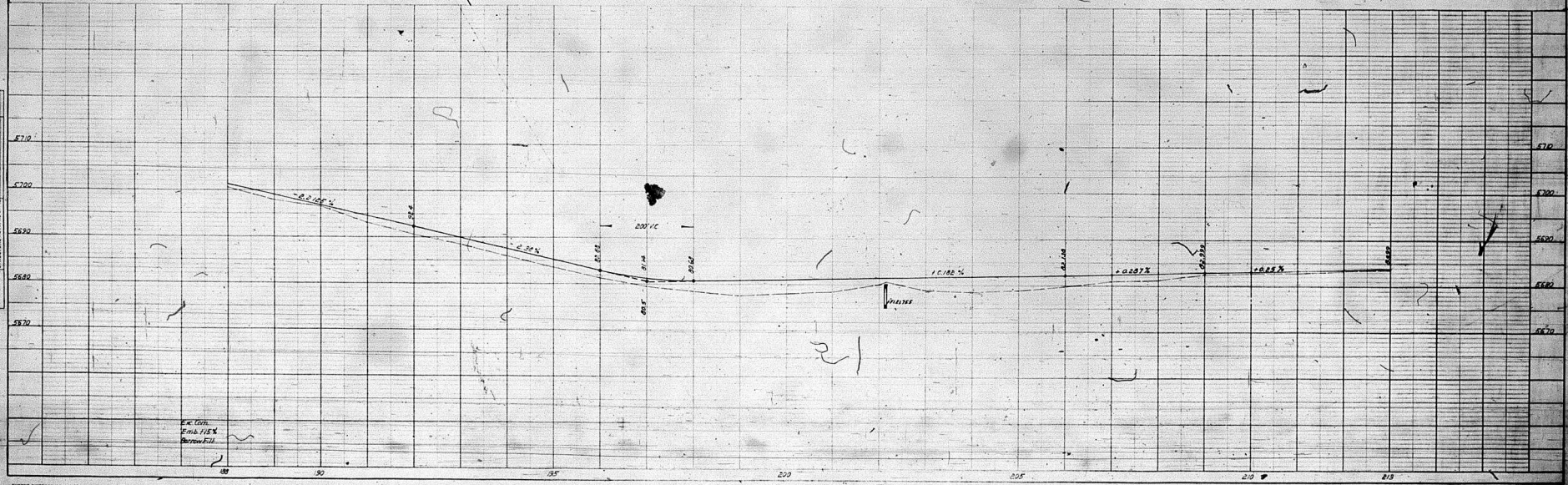
PROFILE	DATE	BY	CHECKED
10/28/58	W. J. H.	W. J. H.	W. J. H.
NOTE: ROAD TO BE CONSTRUCTED TO BE 12' WIDE AND 12' HIGH.			



PLAN	DATE
PROJECTED	
NOTE BOOK	
DATE	

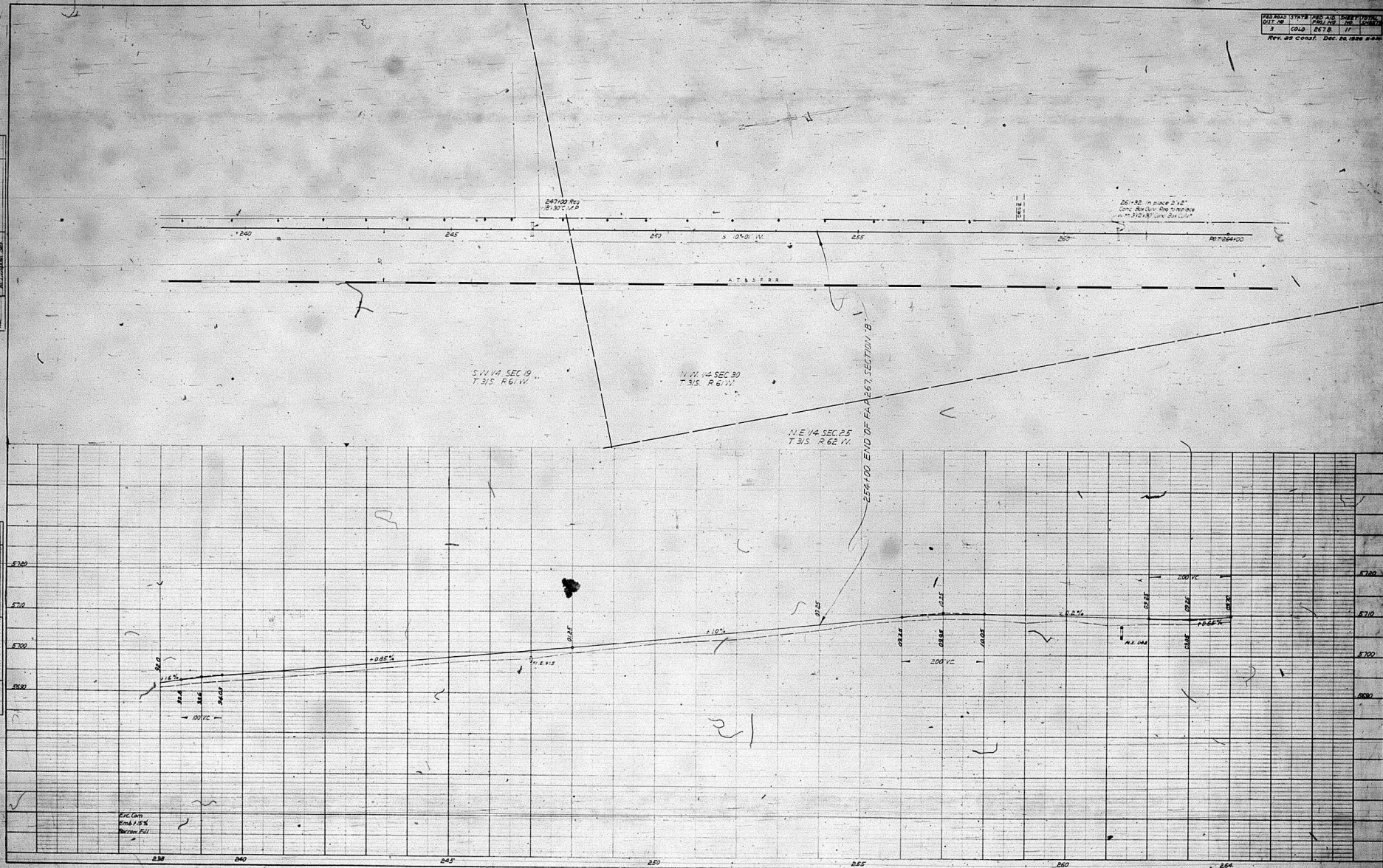


PROFILE	DATE
PROJECTED	
NOTE BOOK	
DATE	



PLAN	NOTES
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10

PROFILE	NOTES
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10



RECEIVED
28 OCT 1945

PLAN
 DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 NOTE BOOK: _____
 IN UP OF NO. _____

PROFILE
 DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 NOTE BOOK: _____
 IN UP OF NO. _____

ADP 237-E
 Corrected Profile 574 148 2 30
 old line in red
 corrected line in black
 Work Order #101 10-16-25

