

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	F 12(17)	1950	3	20

DATE
BY
CHECKED
NOTED
NO.

DATE
BY
CHECKED
NOTED
NO.

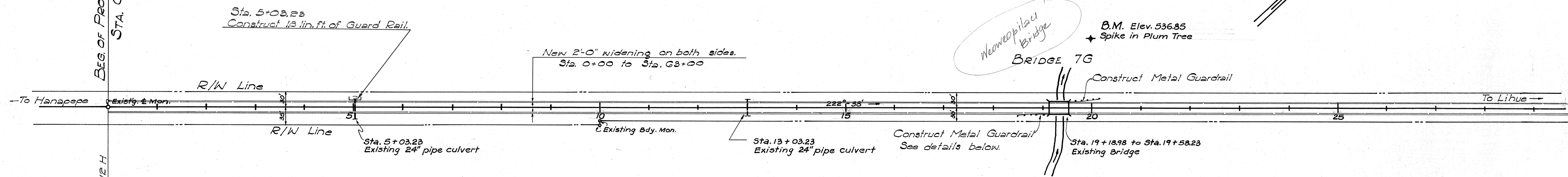
BEG. OF PROJ. NO. F 12 (17)
STA. 0+00
END OF PROJ. NO. NPH 12 H
STA. 53+03.23

Install additional number plate to F.A. Marker.

A.F. & E.A. KNUDSEN
(BISHOP TRUST CO.)

See Sheet 5455.2 for
Typical Section of Road
Along Project.

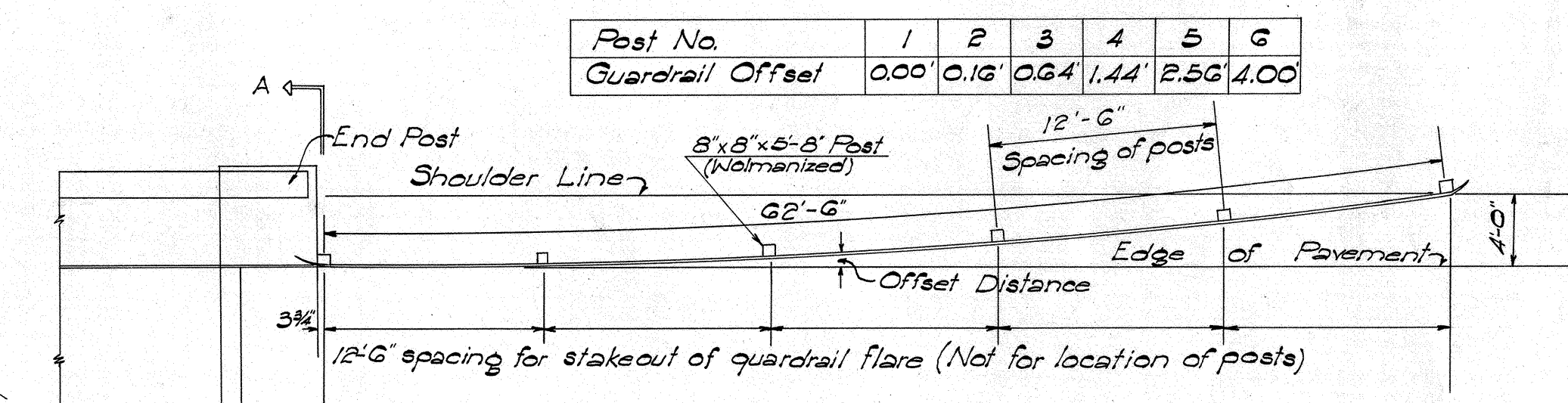
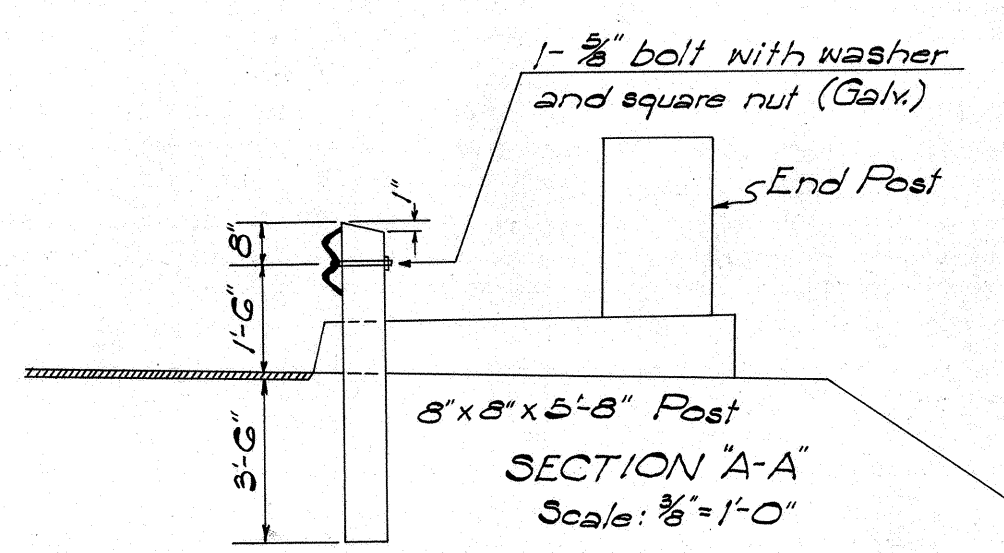
True North
Scale: 1" = 100'



NOTE: All existing centerline monuments shall be adjusted to new pavement elevations by the maintenance crew of the Terr. Highway Department. All existing wood guard rails to be removed and stockpiled at site and will become the property of the Territorial Highway Department.

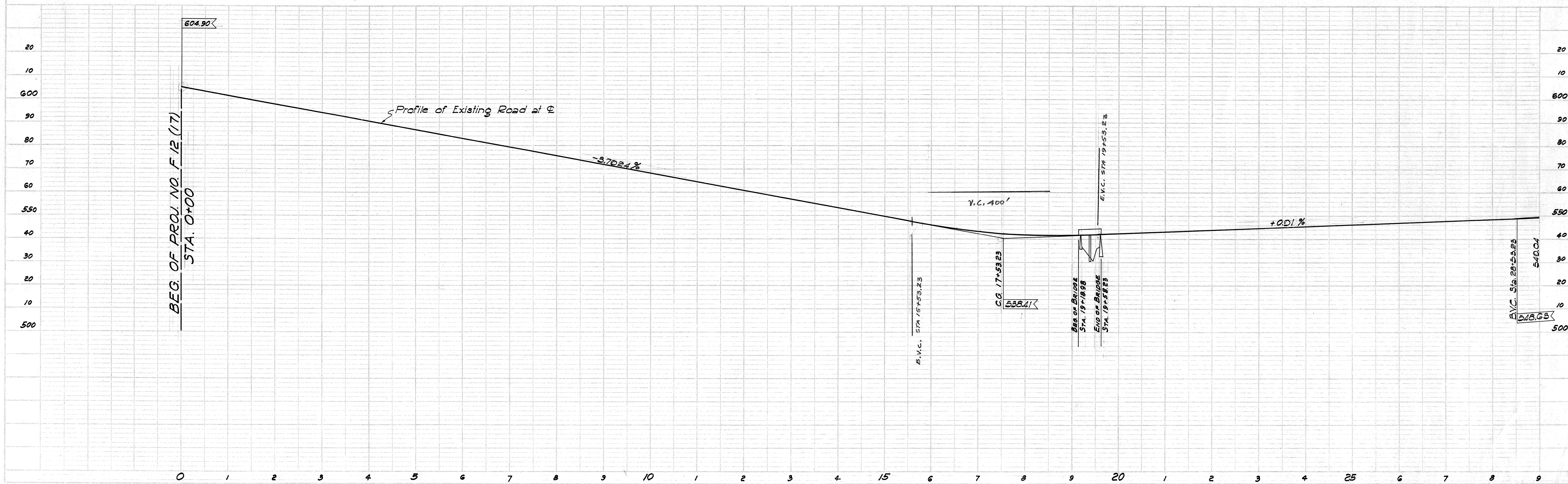
A.F. & E.A. KNUDSEN
(BISHOP TRUST CO.)

WPH 12 H



Post No.	1	2	3	4	5	6
Guardrail Offset	0.00'	0.16'	0.64'	1.44'	2.56'	4.00'

PLAN
DETAIL - METAL GUARDRAIL FLARE
Scale: 1/8" = 1'-0"



A.F. & E.A. KNUDSEN
(BISHOP TRUST CO.)

New 2'-0" widening on both sides of road.
Sta. 0+00 to Sta. 63+00

Sta. 28+53.23
Existing 24" pipe culvert

Sta. 28+53.23
Construct 18 lin.ft. of Guard Rail.

See Cross Section and Profile for lowering of vertical curve.
Sta. 28+53.23 to Sta. 40+53.23

A.F. & E.A. KNUDSEN
(BISHOP TRUST CO.)

Construct approx. 250 lin.
ft. of guard rail.
Sta. 43+40 to Sta. 44+30
Construct Standard
Guard Rail

Sta. 46+64 to Sta. 47+45
Construct Standard Guard Rail

B.M. Elev. 526.80
Iron rod in Hau Tree

Sta. 47+13.23
Existing 24" pipe culvert

Sta. 43+78.23
Existing 4'x4' Conc. Box Culvert

Sta. 43+13 to Sta. 44+21
Install 5 Guide Posts
Spaced 27'-0" o.c.

Install 7 guide posts
spaced 27'-0" o.c.

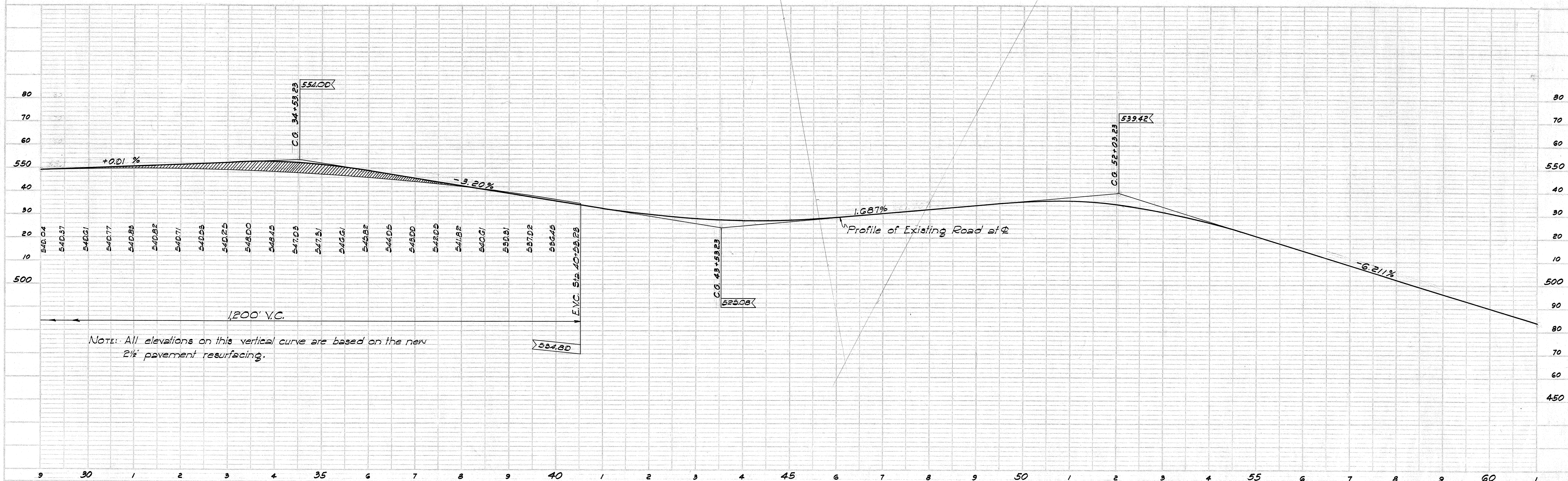
Sta. 46+03 to Sta. 47+52
Install 5 Guide Posts
Spaced 27'-0" o.c.

R=1550
D=3.69

Koloa District
Lihue District

True North
Scale: 1"=100'

Sta. 60+53.23
Existing 4'x4' Conc.
Box Culvert



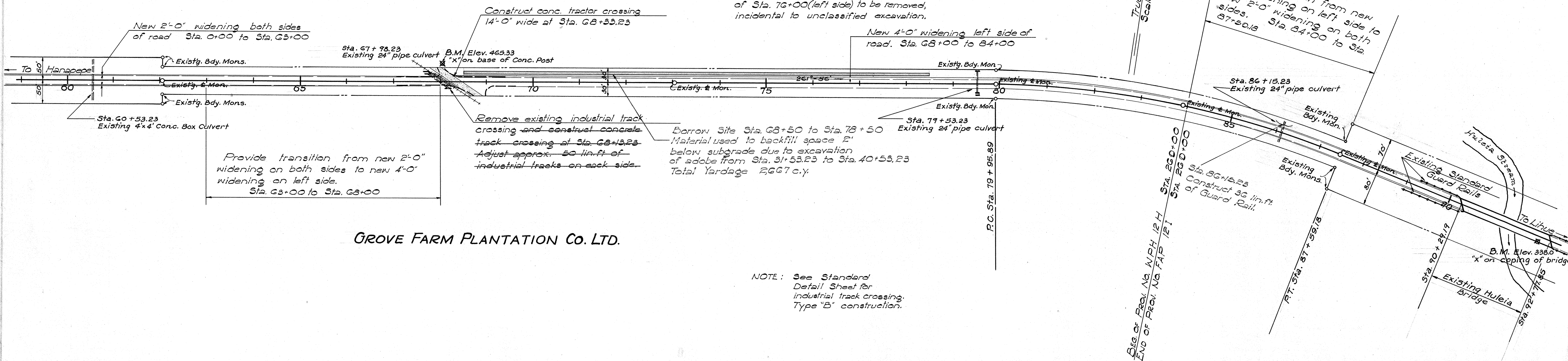
NOTE: All elevations on this vertical curve are based on the new 2 1/2" pavement resurfacing.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	Hawaii	F 12 (17)	1950	5	20

GROVE FARM PLANTATION CO. LTD.

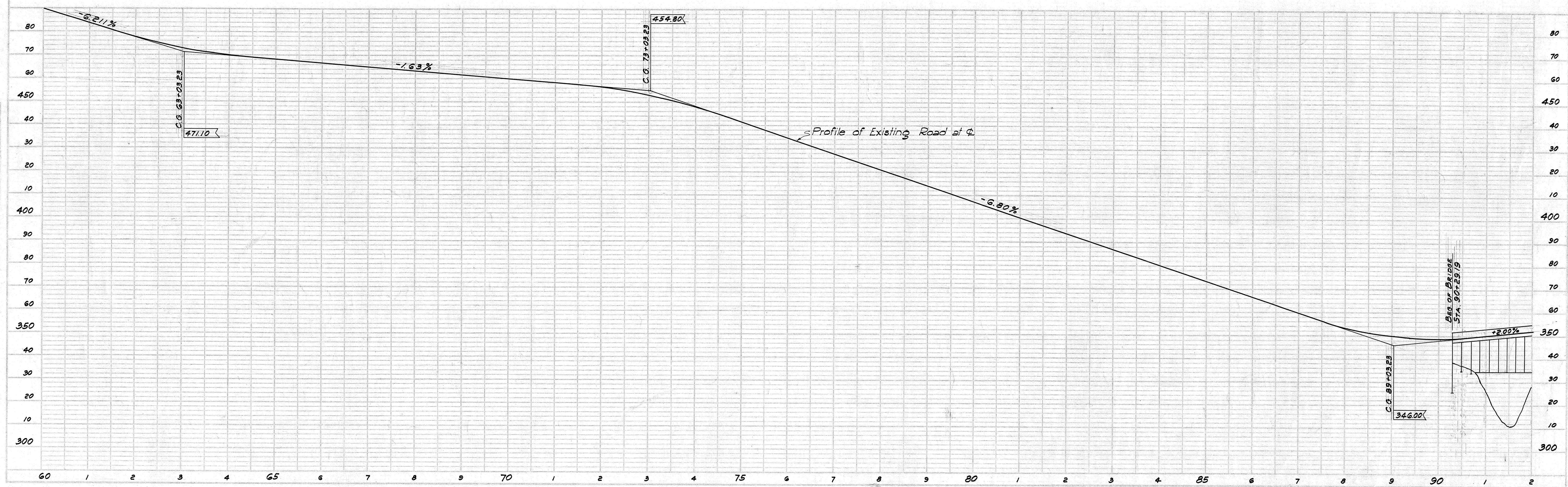
NOTE: Conc. tractor crossing shall be 8" thick, reinforced with wire mesh 40" per 100 sq. ft. Length shall span width of R/W and shall conform to pavement crown. See sheet 5455.2 for detail.

NOTE: Landscaping in the vicinity of Sta. 76+00 (left side) to be removed, incidental to unclassified excavation.



GROVE FARM PLANTATION CO. LTD.

NOTE: See Standard Detail Sheet for industrial track crossing; Type "B" construction.



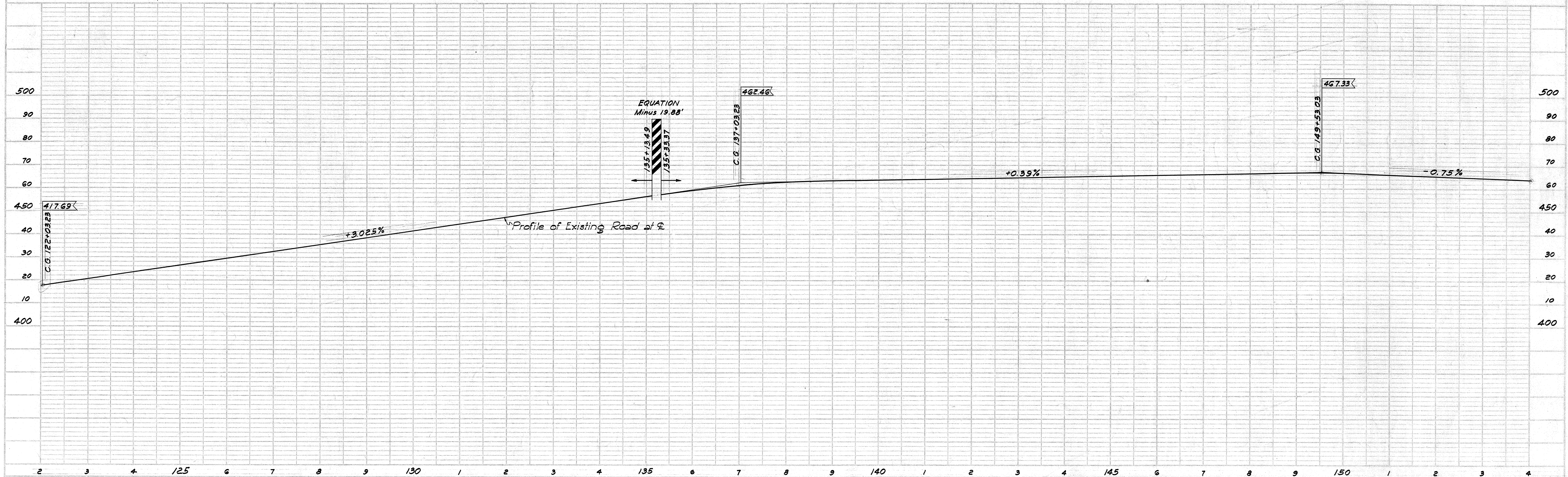
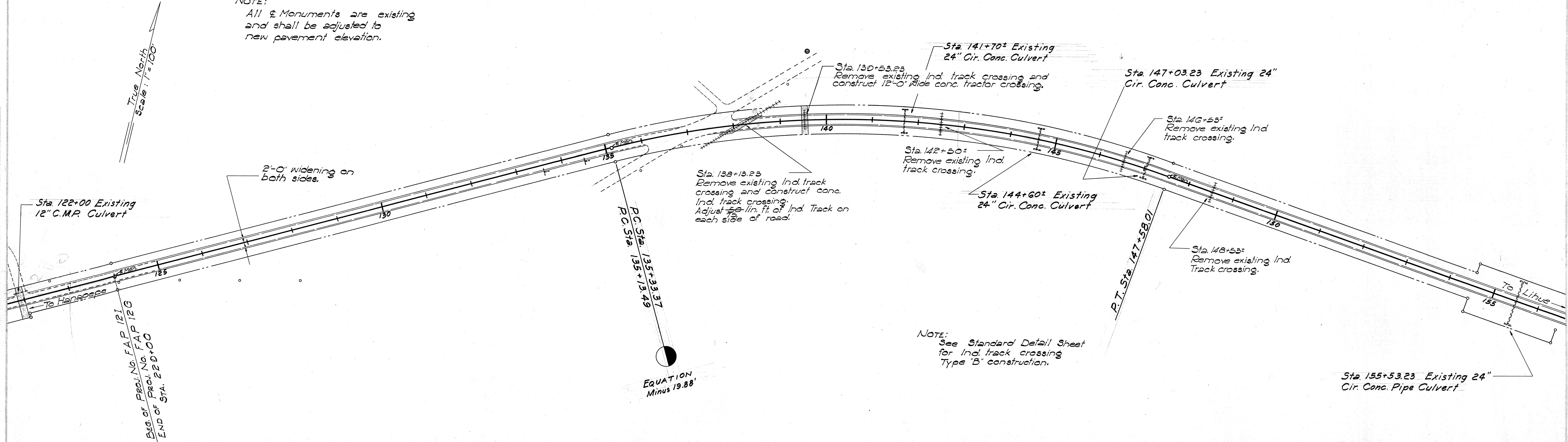
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	F12(17)	1950	7	20

PLAN	DATE
REVISIONS	
NOTE BOOK ALIGNED CHECKED	
NO. OF VAN CHECKED	

PROFILE	DATE
REVISIONS	
NOTE BOOK GRADES CHECKED	
NO. OF VAN CHECKED	

NOTE:
All $\pm$ Monuments are existing and shall be adjusted to new pavement elevation.

B.M. Elev. 468.14 Cross on conc. base of conc. fence left of Sta. 139+60 and left of old road.



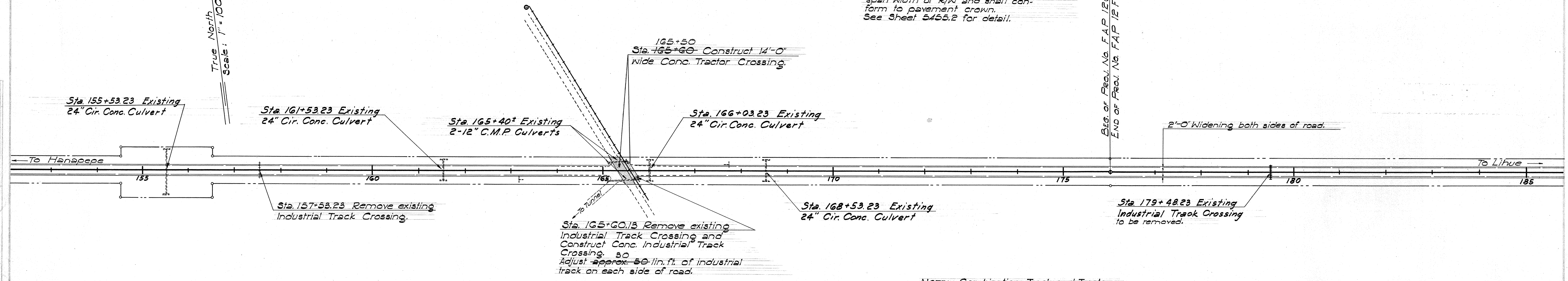
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F 12 (17)	1950	8	20

B.M. Elev. 462.99 Cross on base conc. fence post left of Sta. 163+30+ alongside dirt road.

NOTE: Concrete Tractor Crossing shall be 8" thick, reinforced with wire mesh 40" per 100 sq. ft. Length shall span width of R/W and shall conform to pavement crown. See Sheet 5455.2 for detail.

End of Proj. No. FAP 126 Sta. 177+00
End of Proj. No. FAP 127 Sta. 177+00

True North
Scale: 1"=100'



NOTE: Combination Track and Tractor Crossing similar to Standard Track Crossing, except for width. Minimum width to be 12'-0". Length shall span R/W width.

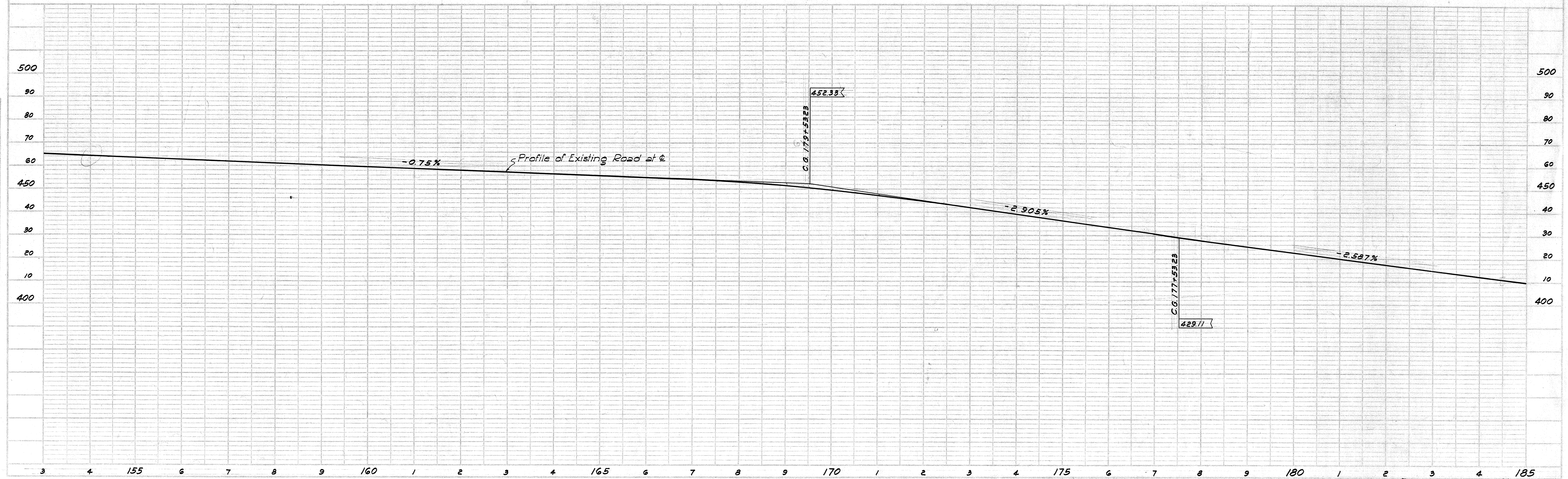


PLATE 1-PLAN-PROFILE O. P. & S. F. STANDARD
REMPPEL & BESSER CO., NEW YORK

K & E Co. No. 345-10
"PROFESSIONAL ENGINEER"

5455.8

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

PROFILE	DATE	BY
NOTE BOOK GRADES CHECKED		
STRUCTURE LOCATIONS CHECKED		

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F12 (17)	1950	9	20

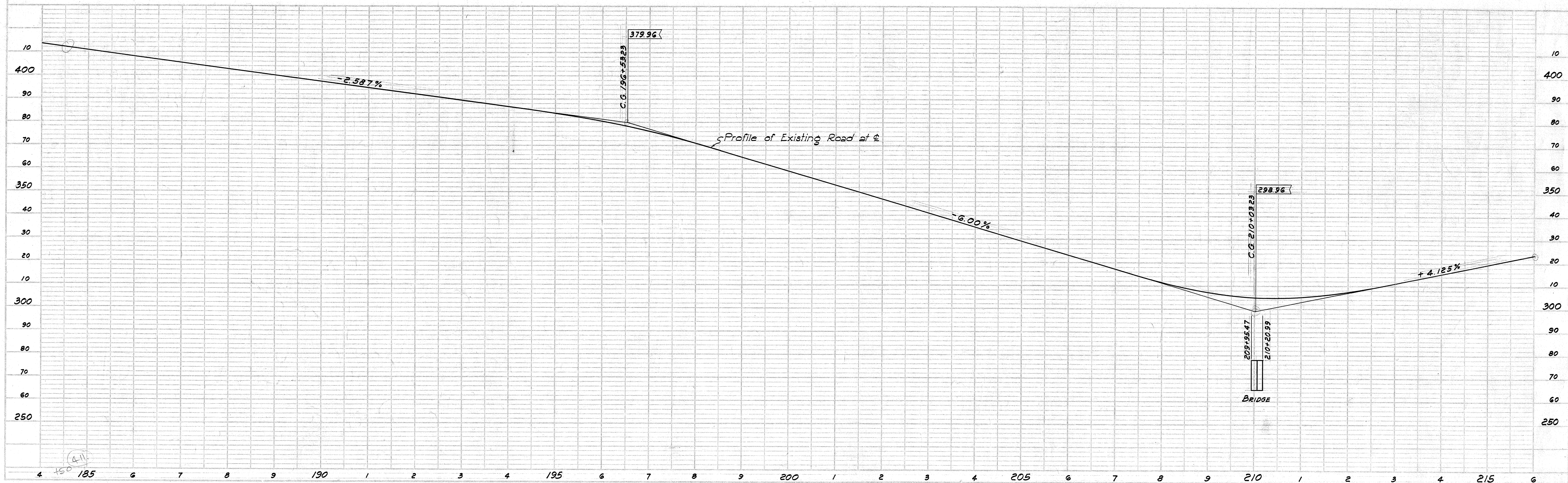
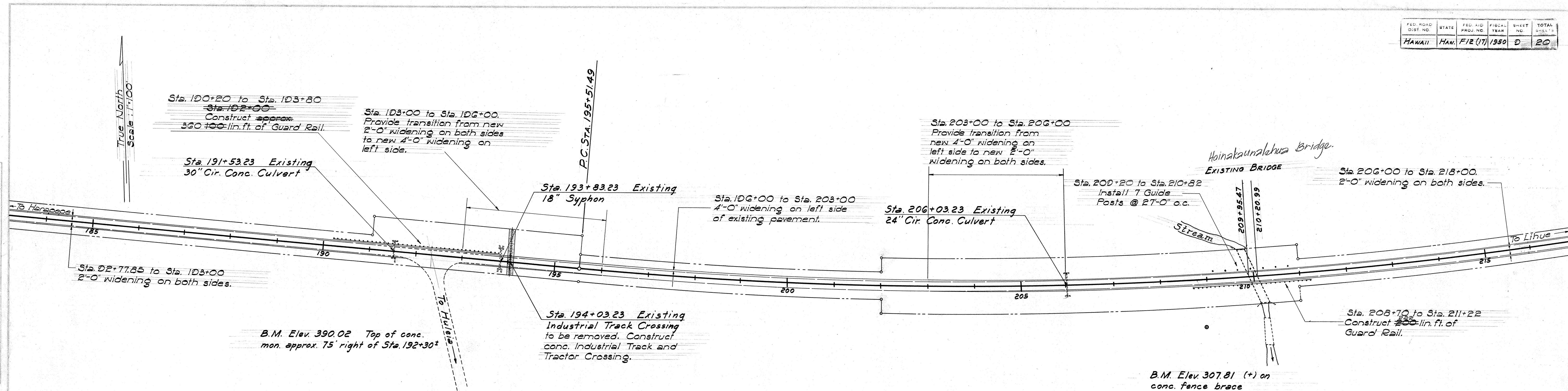
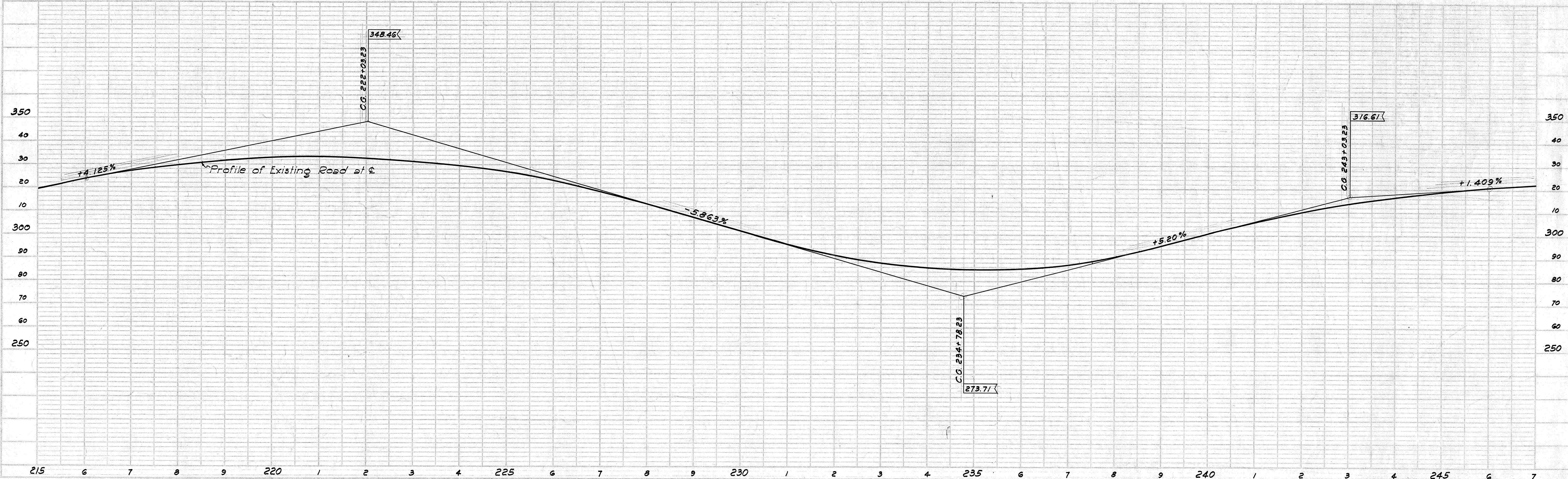
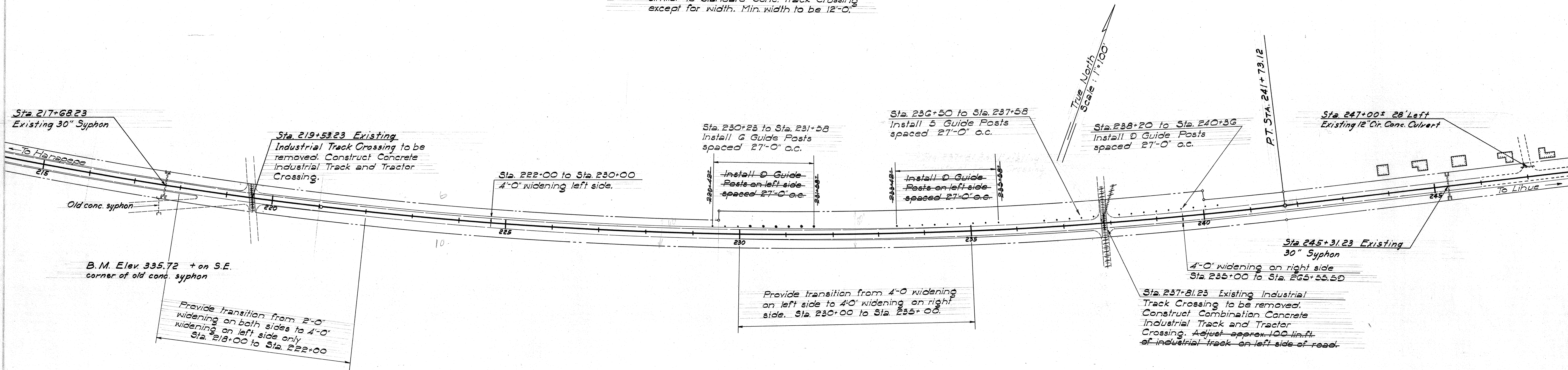


PLATE 1—PLAN—PROFILE C. R. S. & R. E. STANDARD
HEUPPEL & ESSER CO., NEW YORK

K & E Co. No. 345-10

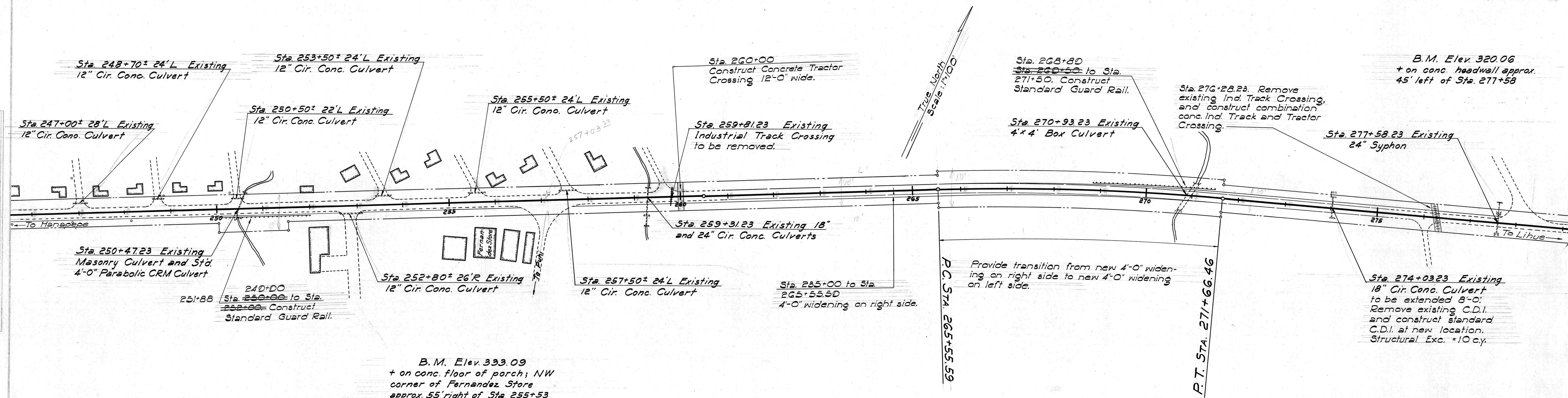
5455.9

NOTE: Combination Track and Tractor Crossing similar to Standard Conc. Track Crossing except for width. Min. width to be 12'-0".



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F/12(17)	1950	11	20

PLAN
 SURVEYED BY
 PLATTED BY
 NOTE BOOK GRADES CHECKED
 NO. _____
 STRUCTURE NO. 1111111111



PROFILE
 SURVEYED BY
 PLATTED BY
 NOTE BOOK GRADES CHECKED
 NO. _____
 STRUCTURE NO. 1111111111

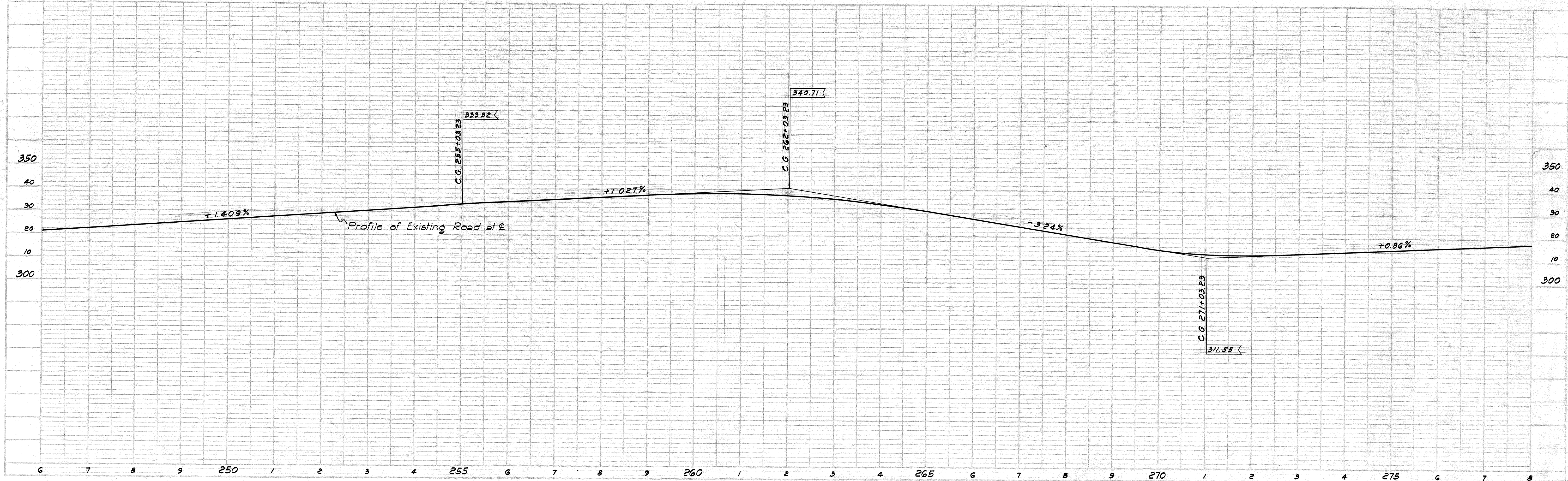


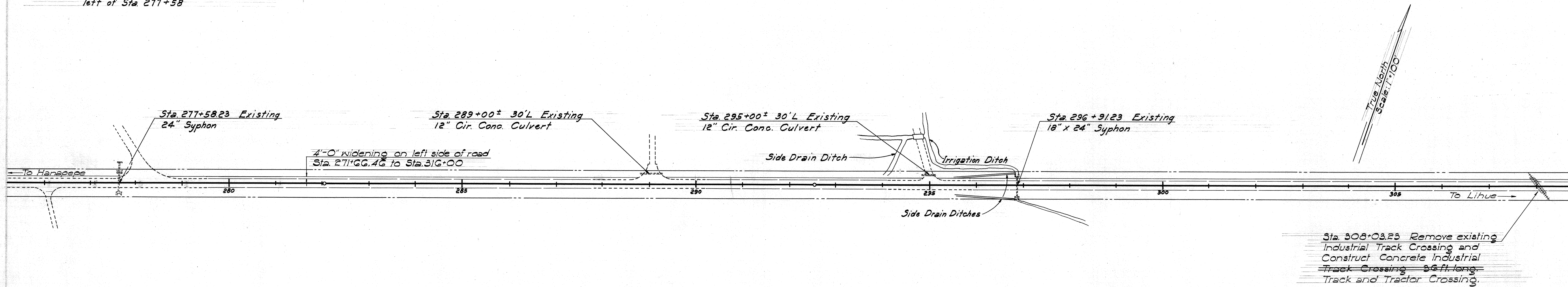
PLATE 1-PLAN-PROFILE C. R. & R. E. STANDARD
 REUFEL & SUTHER CO., NEW YORK

5455.11

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	F 12(17)	1950	12	20

B.M. Elev. 320.06
+ on conc. headwall approx. 45'
left of Sta. 277+58

PLAN	DATE
DESIGNED BY	
CHECKED BY	
NOTED BY	
DATE	



NOTE: All Concrete Industrial Track Crossing to be of Type 'B' Construction. See Standard Details

PROFILE	DATE
DESIGNED BY	
CHECKED BY	
NOTED BY	
DATE	

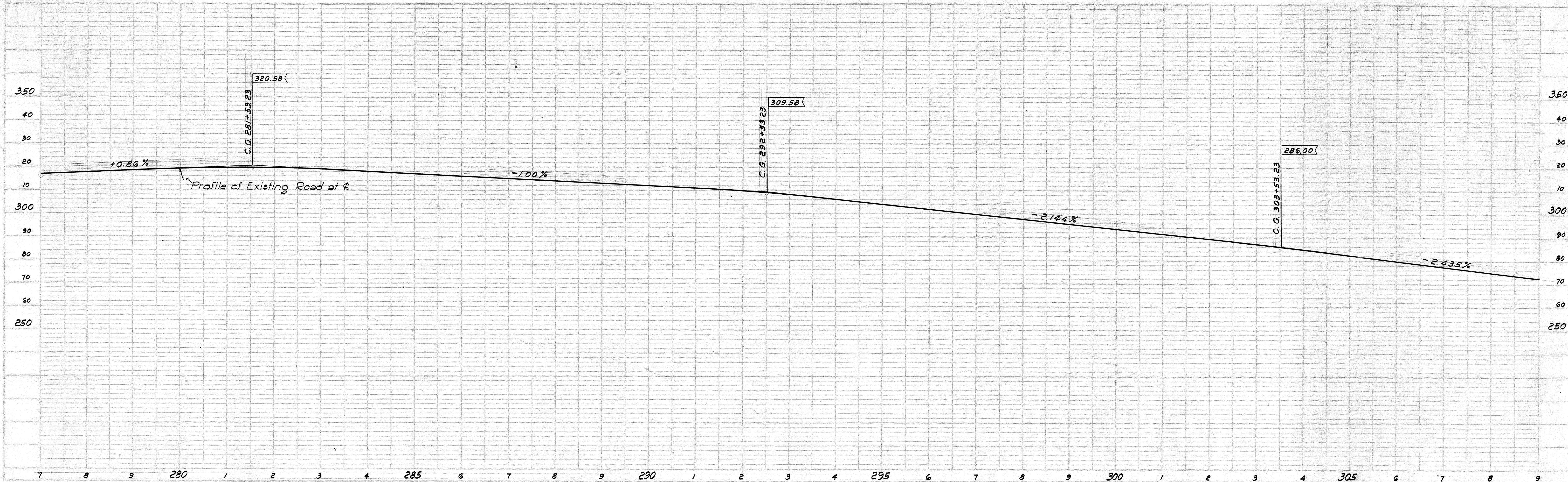


PLATE 1 - PLAN - PROFILE O. P. R. & S. E. STANDARD
REUPPEL & SONS CO., NEW YORK

K & S Co. No. 346-10
PRINTED - 1950

5455.12

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F 12(17)	1950	13	20

PLAN	DATE	BY	CHKD.
STATE RD.			
NOTE: ROAD ALIGNMENT CHECKED			
NO. _____			
BY _____			

PROFILE	DATE	BY	CHKD.
STATE RD.			
NOTE: ROAD GRADES CHECKED			
NO. _____			
BY _____			

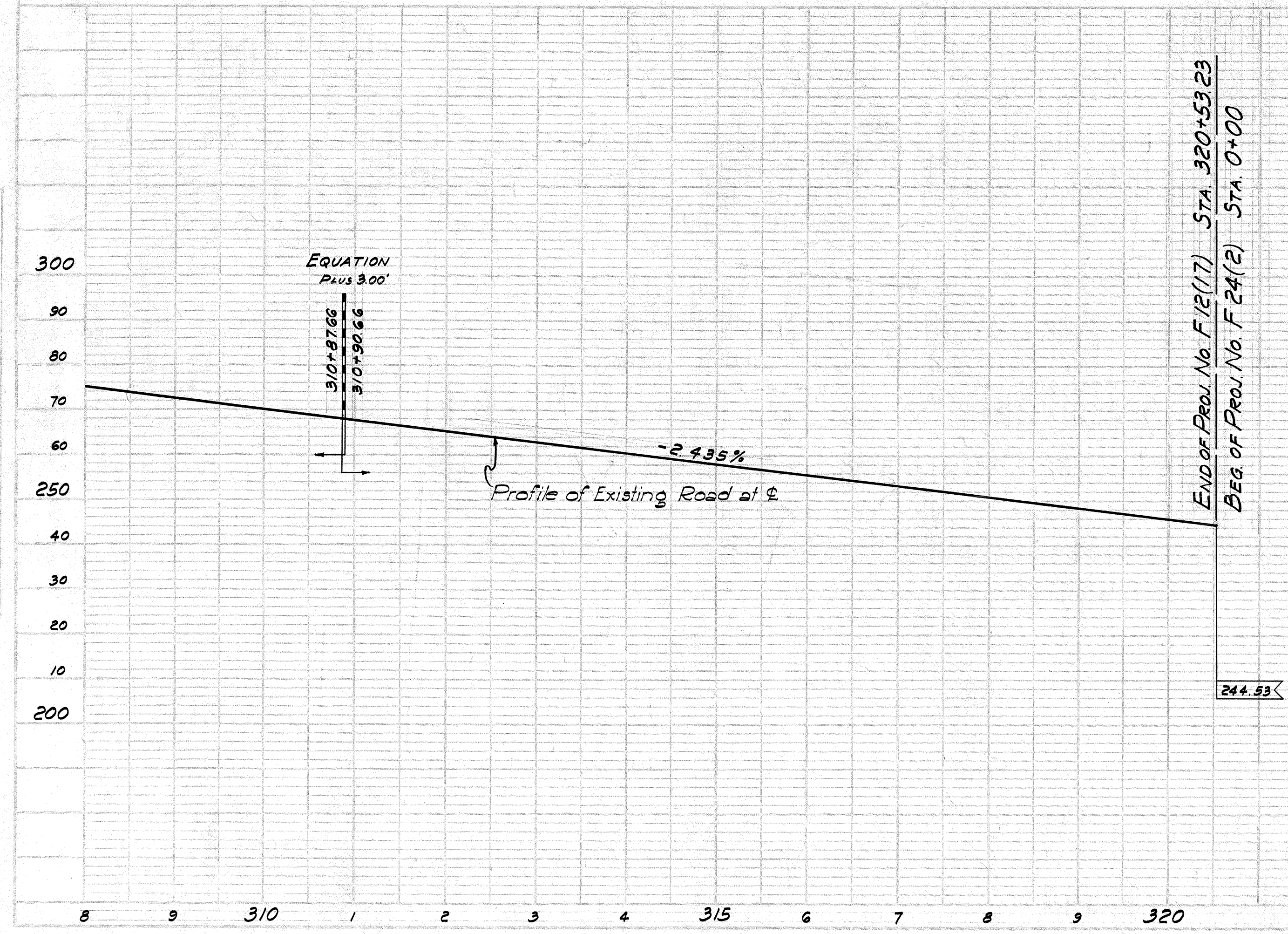
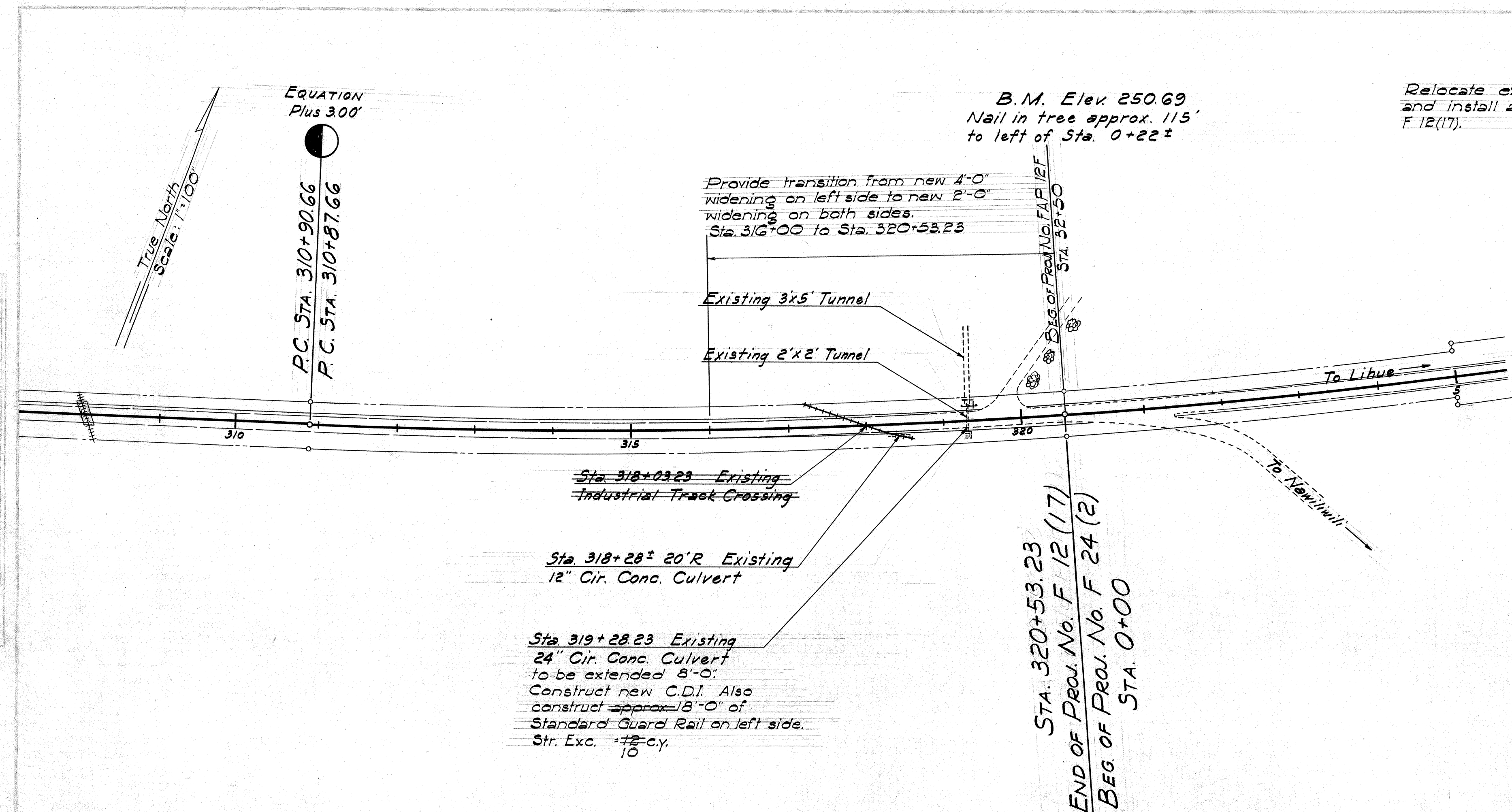


PLATE 1—PLAN—PROFILE (D. P. E. & S. E. STANDARD)
K&E P&L & S&S, CO., NEW YORK

K & E Co. No. 345-10

5455.13