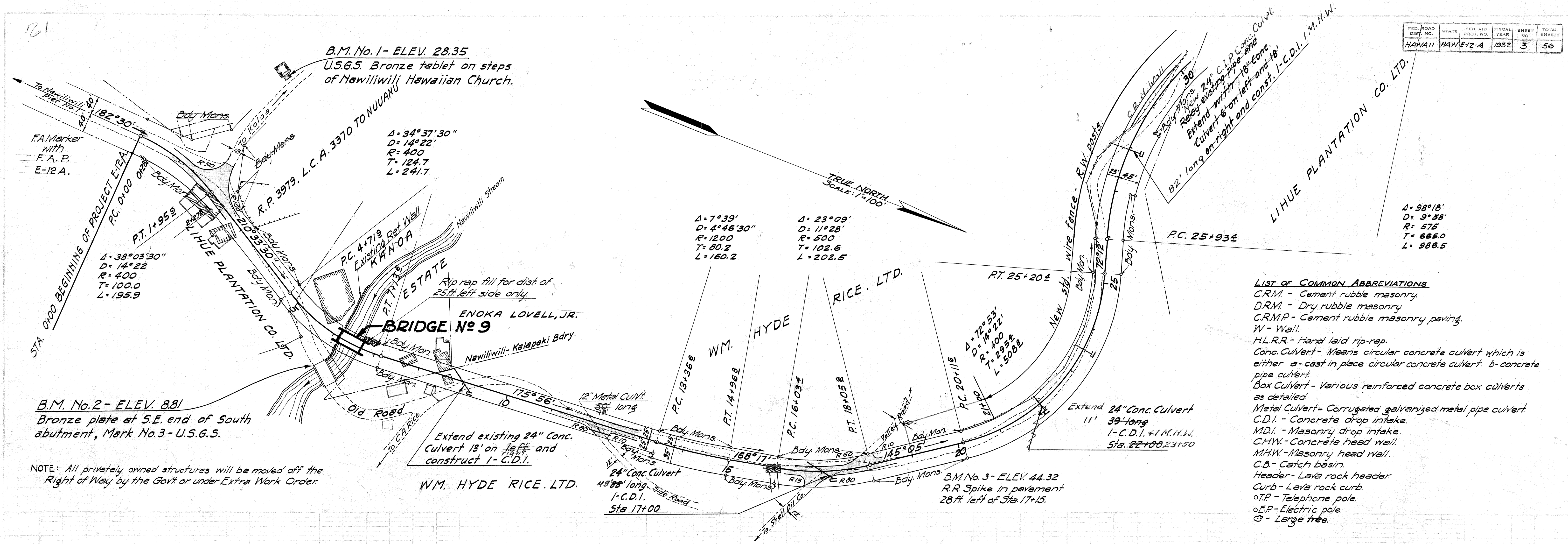


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	E-12-A	1932	3	56

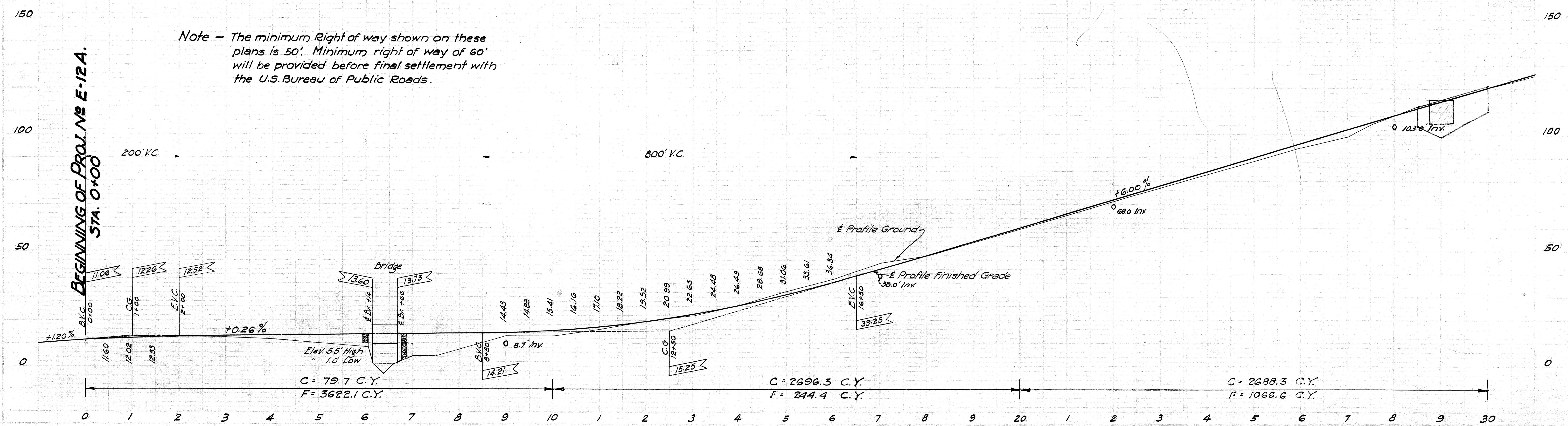


- LIST OF COMMON ABBREVIATIONS**
- CRM - Cement rubble masonry.
 - DRM - Dry rubble masonry.
 - CRM.P - Cement rubble masonry paving.
 - W - Wall.
 - H.L.R.R. - Hand laid rip-rap.
 - Conc. Culvert - Means circular concrete culvert which is either a- cast in place circular concrete culvert; b- concrete pipe culvert.
 - Box Culvert - Various reinforced concrete box culverts as detailed.
 - Metal Culvert - Corrugated galvanized metal pipe culvert.
 - C.D.I. - Concrete drop intake.
 - M.D.I. - Masonry drop intake.
 - CHW - Concrete head wall.
 - MHW - Masonry head wall.
 - C.B. - Catch basin.
 - Header - Lava rock header.
 - Curb - Lava rock curb.
 - o.T.P. - Telephone pole.
 - o.E.P. - Electric pole.
 - o - Large tree.

B.M. No. 2 - ELEV. 881
Bronze plate at S.E. end of South abutment, Mark No. 3 - U.S.G.S.

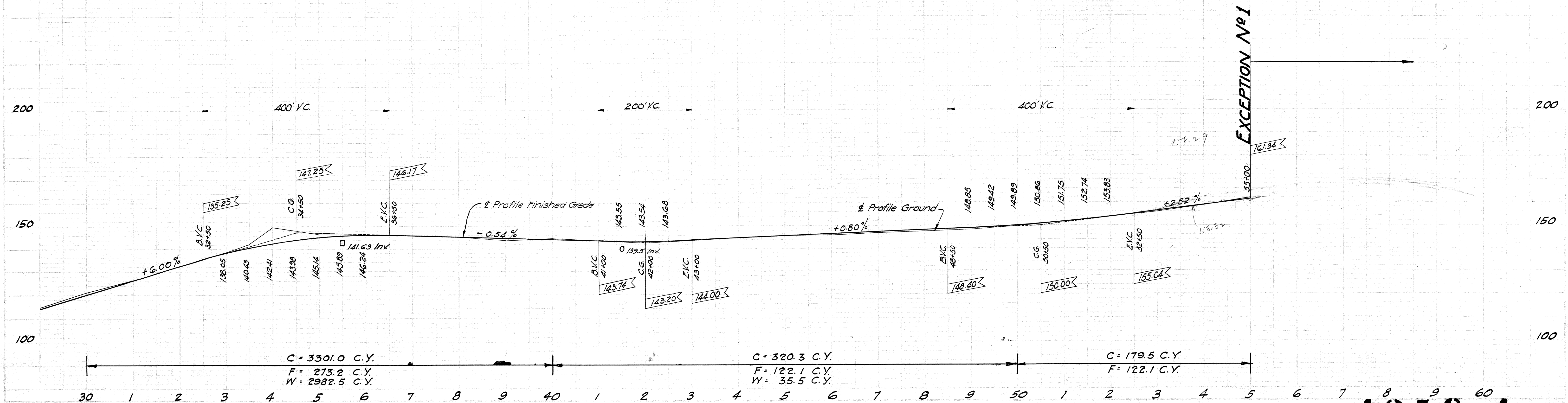
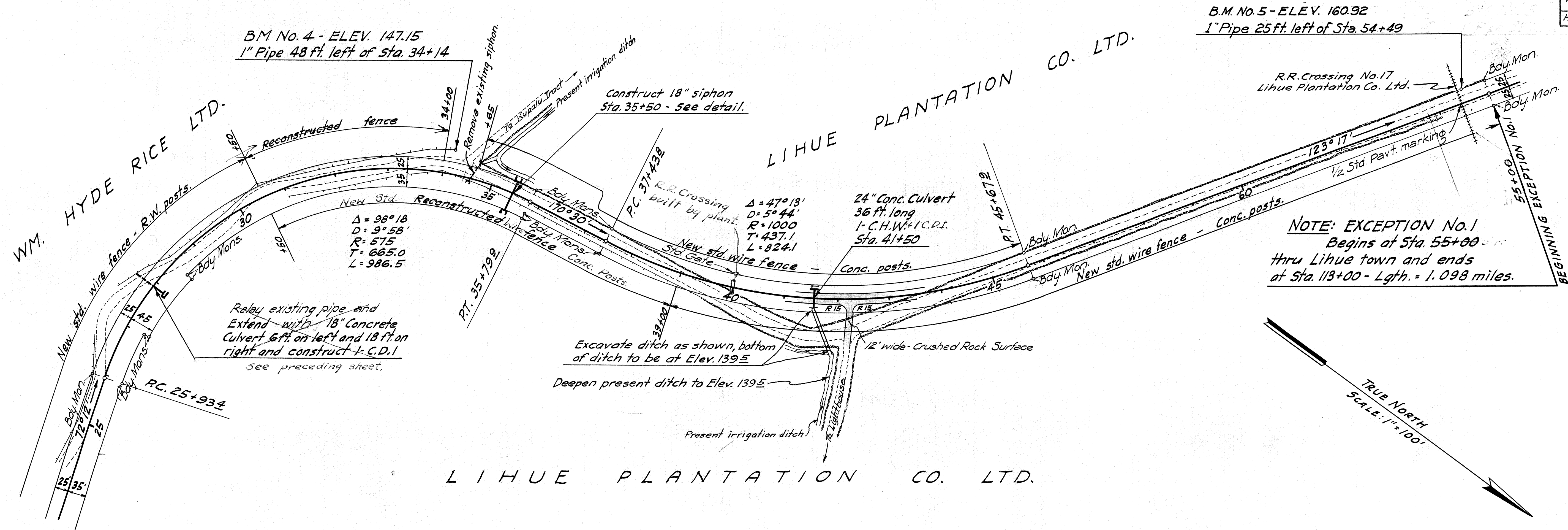
NOTE: All privately owned structures will be moved off the Right of Way by the Govt or under Extra Work Order.

Note - The minimum Right of way shown on these plans is 50'. Minimum right of way of 60' will be provided before final settlement with the U.S. Bureau of Public Roads.



4258.3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	E-12-A	1932	4	56



4258.4

EXCEPTION NO. 1
Ends at Station 113+00
Lihue Town

[illegible]

END OF EXCEPTION No. 1
B.P.R. CLASS 4 Station 13+29.2
R.R. CROSSING No. 1B

219.00
13+00

+ 1.16 %

100' V.C.

223.18
BVC
116+6.3

223.57
223.55
C.P.
117+11.2

223.76
EVC
117+6.3

223.67

219.2' Inv.

± Profile Finished
- 0.18 % Grade

± Profile Ground

220

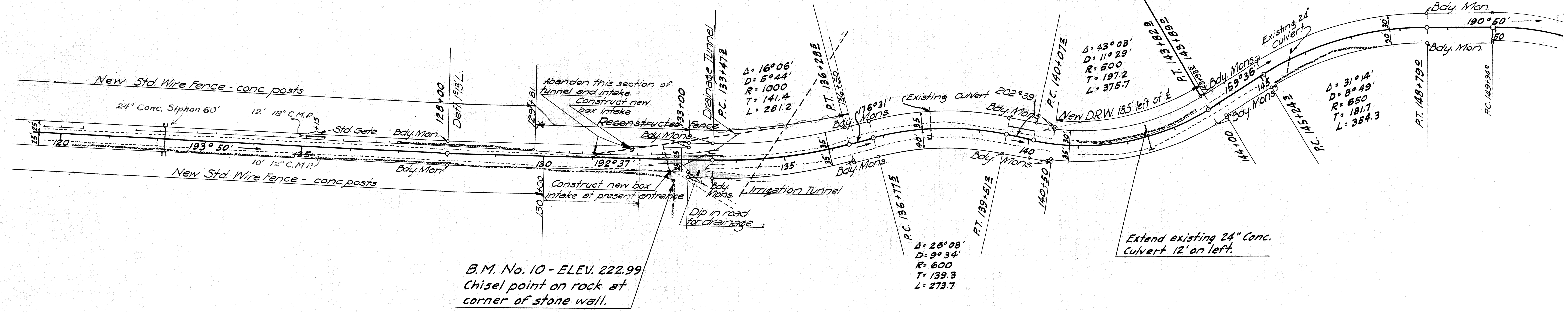
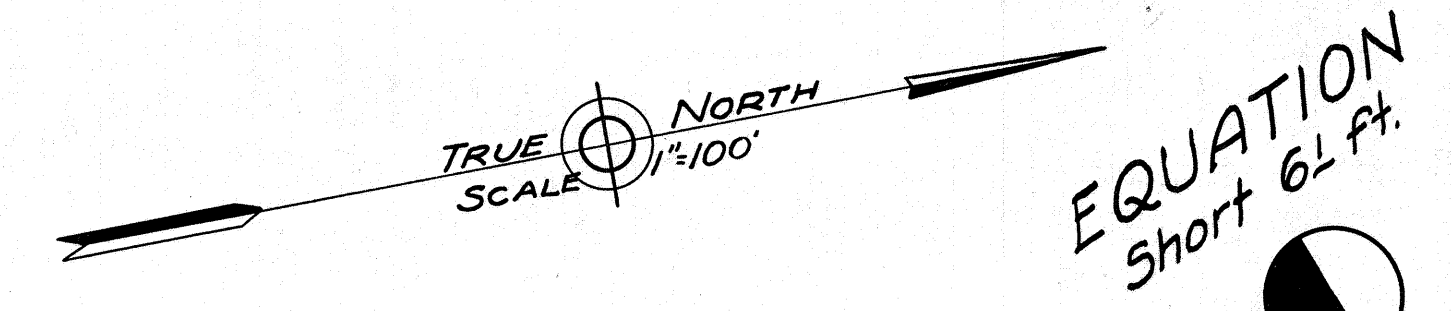
200

C = 294.6 C.Y.
F = 131.5 C.Y.

3 4 115 6 7 8 9 120

4258.5

L I H U E P L A N T A T I O N C O . L T D .



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	E-12-A	1932	7	56

B.M.#11 ELEV. 101.37
Cross on South End of
West Parapet Wall of
Kapaia Bridge

B.M.#12 ELEV. 138.25
Center One of Nest of
Five Spikes 74 feet left
of Sta. 157+75

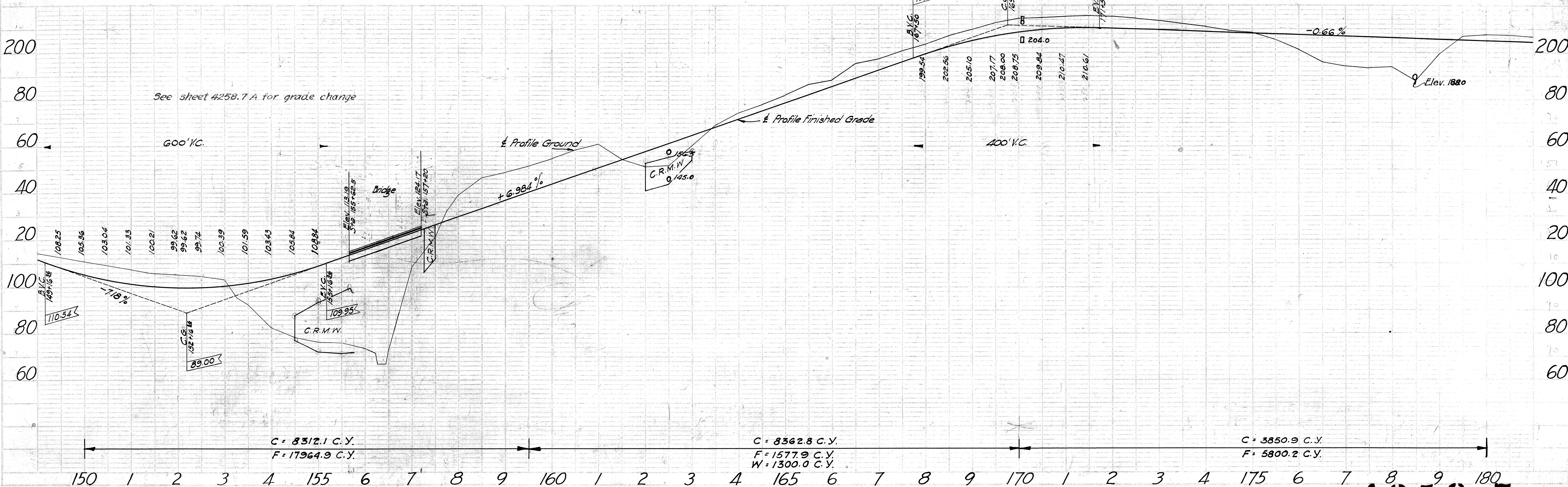
$\Delta = 17^{\circ}36'$
 $D = 5^{\circ}44'$
 $T = 154.8'$
 $L = 307.2'$
 $R = 1000'$

LIHUE PLANTATION CO LTD.

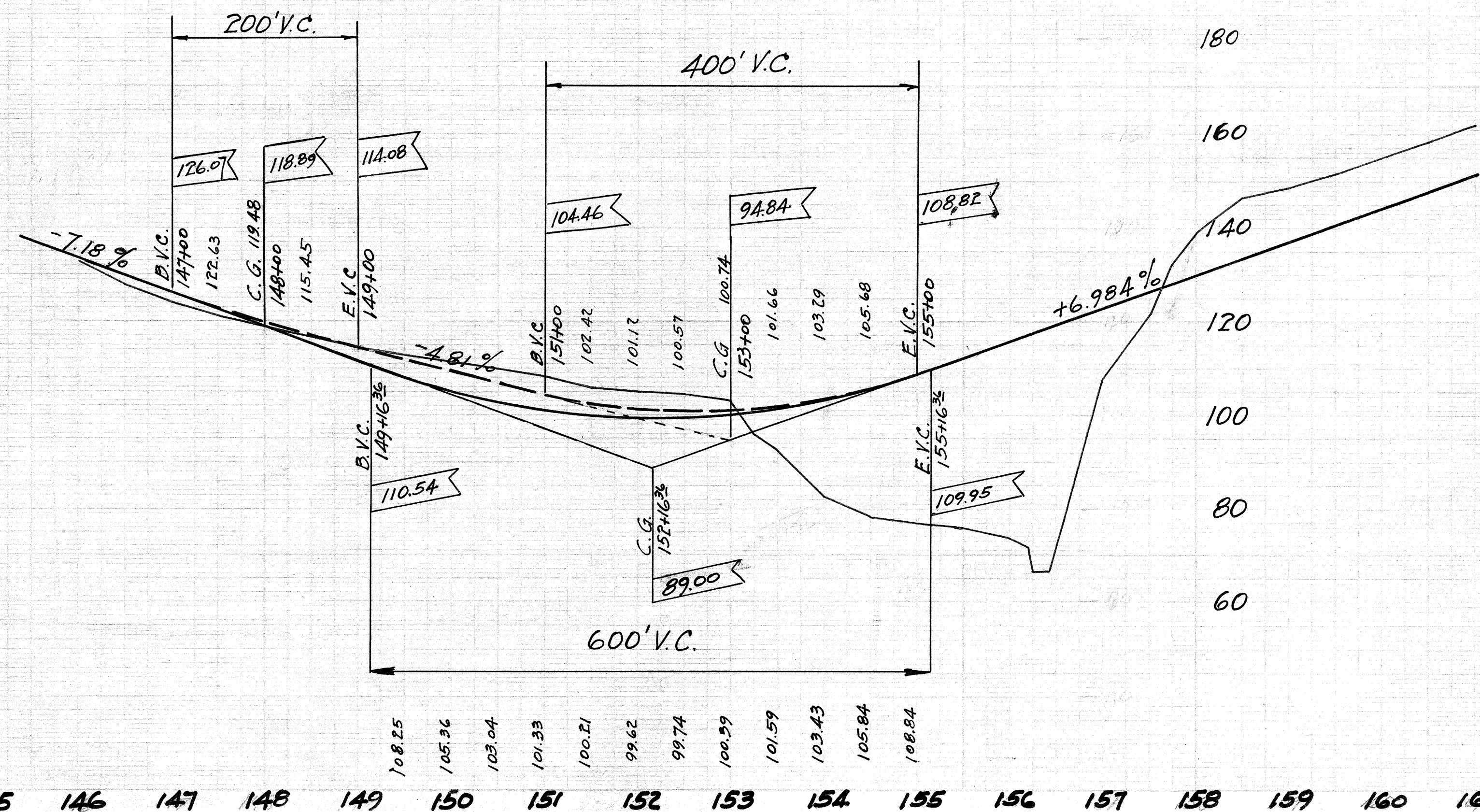
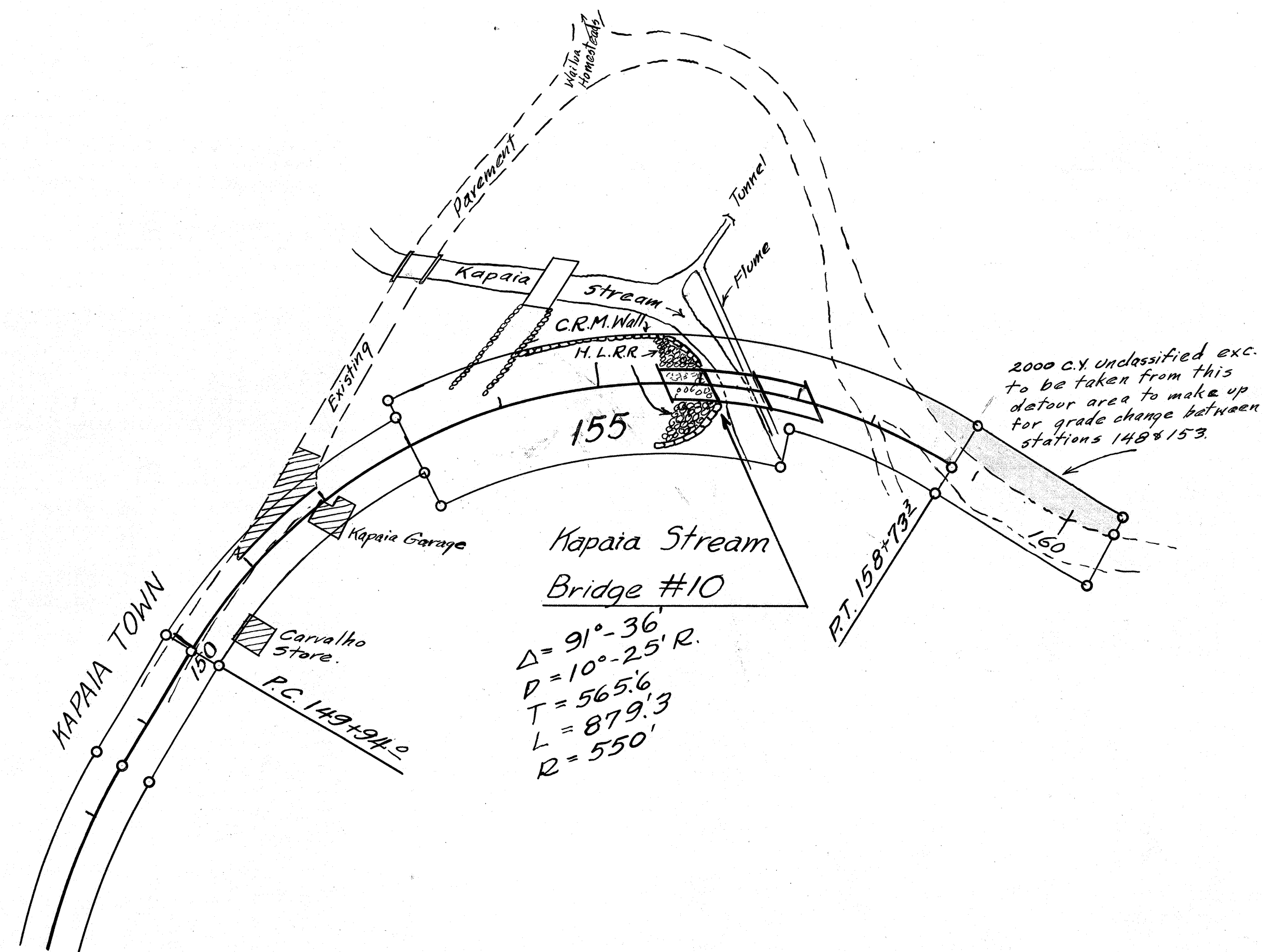
$\Delta = 13^{\circ}07'$
 $D = 1^{\circ}57'$
 $T = 339.1'$
 $L = 675.3'$
 $R = 2950'$

B.M.#13 ELEV. 215.83
Spike in Corner Gate
Post 55 feet left of
station 172+75

LIHUE PLANTATION CO LTD.



4258.7



Ground Line.
 Grade on Original Profile.
 Proposed New Grade.
 NOTE: Figures above profile represent proposed new grades.

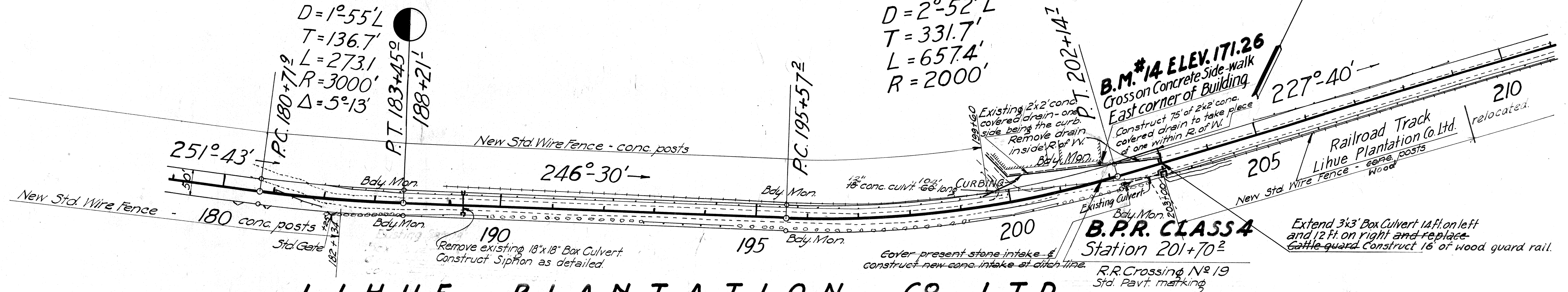
PROPOSED GRADE CHANGE
 THROUGH KAPAIA TOWN
 F.A.P.E-12A
 Sept. 24, 1932
 Hor. Scale 1" = 100'
 Vert. Scale 1" = 20'

LIHUE PLANTATION CO LTD.

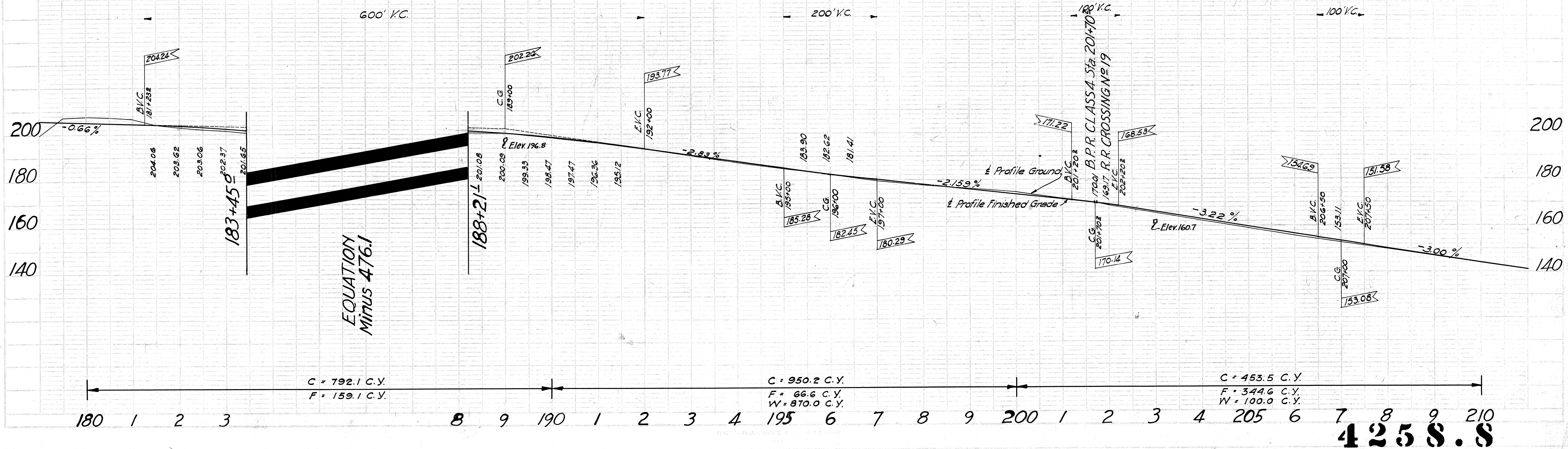
EQUATION SHORT 476.1

$D = 1^{\circ}55' L$
 $T = 136.7'$
 $L = 273.1'$
 $R = 3000'$
 $\Delta = 5^{\circ}13'$

$\Delta = 18^{\circ}50'$
 $D = 2^{\circ}52' L$
 $T = 331.7'$
 $L = 657.4'$
 $R = 2000'$



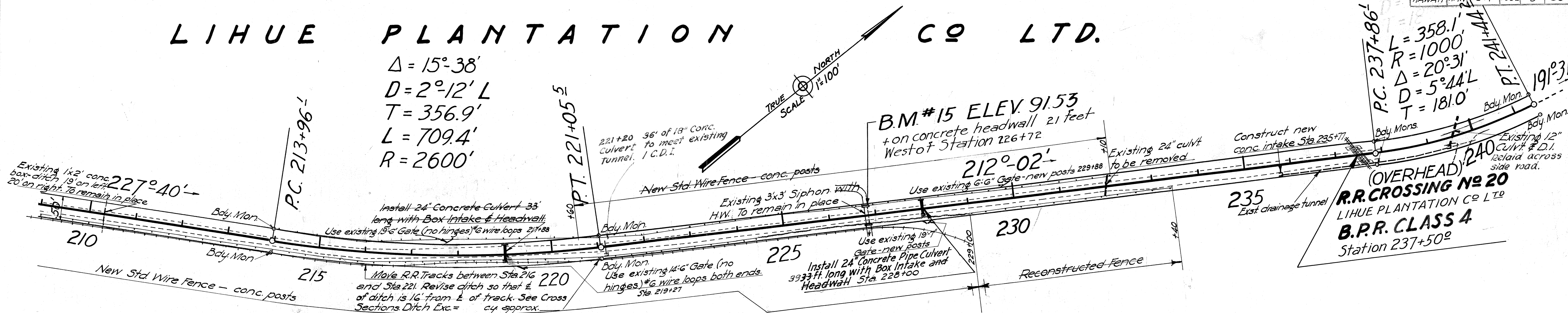
LIHUE PLANTATION CO LTD.



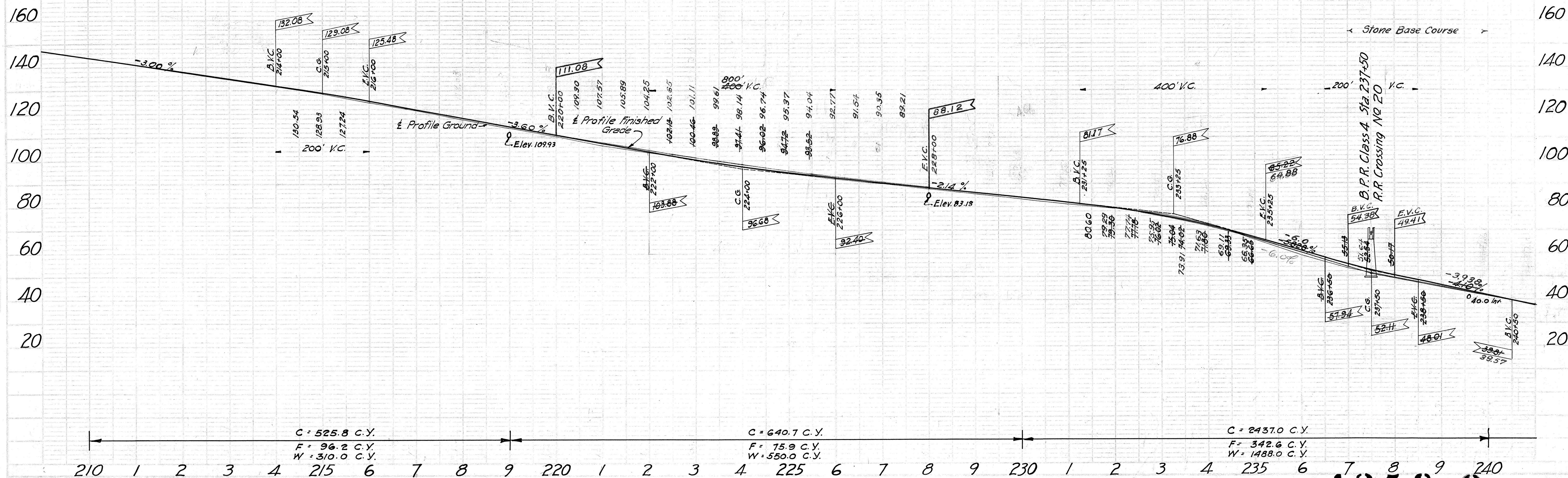
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	72-A	1932	9	56

LIHUE PLANTATION CO LTD.

$\Delta = 15^\circ 38'$
 $D = 2^\circ 12' L$
 $T = 356.9'$
 $L = 709.4'$
 $R = 2600'$



LIHUE PLANTATION CO LTD.



4258.9

LIHUE PLANTATION CO LTD.

TERRITORY OF HAWAII
LIHUE PLANTATION CO LTD.
LESSEE

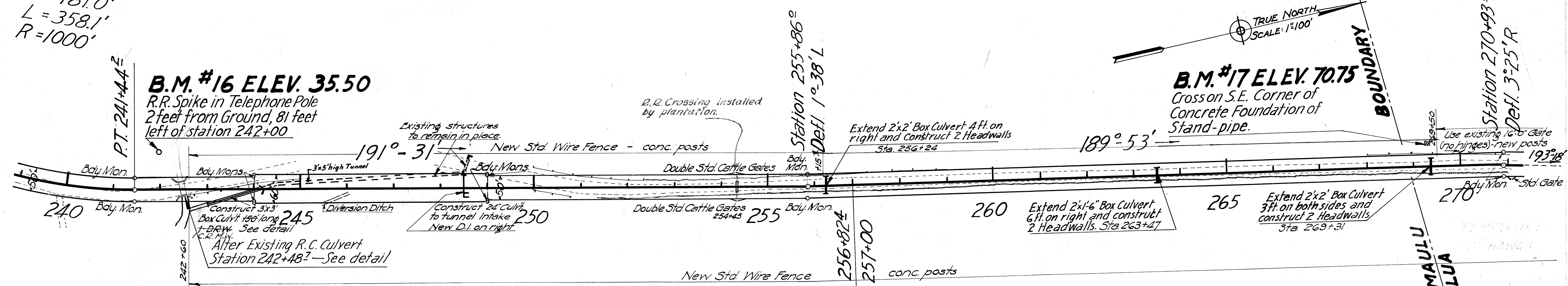
$\Delta = 20^\circ 31'$
 $D = 5^\circ 44' L$
 $T = 181.0'$
 $L = 358.1'$
 $R = 1000'$

B.M. #16 ELEV. 35.50

R.R. Spike in Telephone Pole
2 feet from Ground, 81 feet
left of station 242+00

B.M. #17 ELEV. 70.75

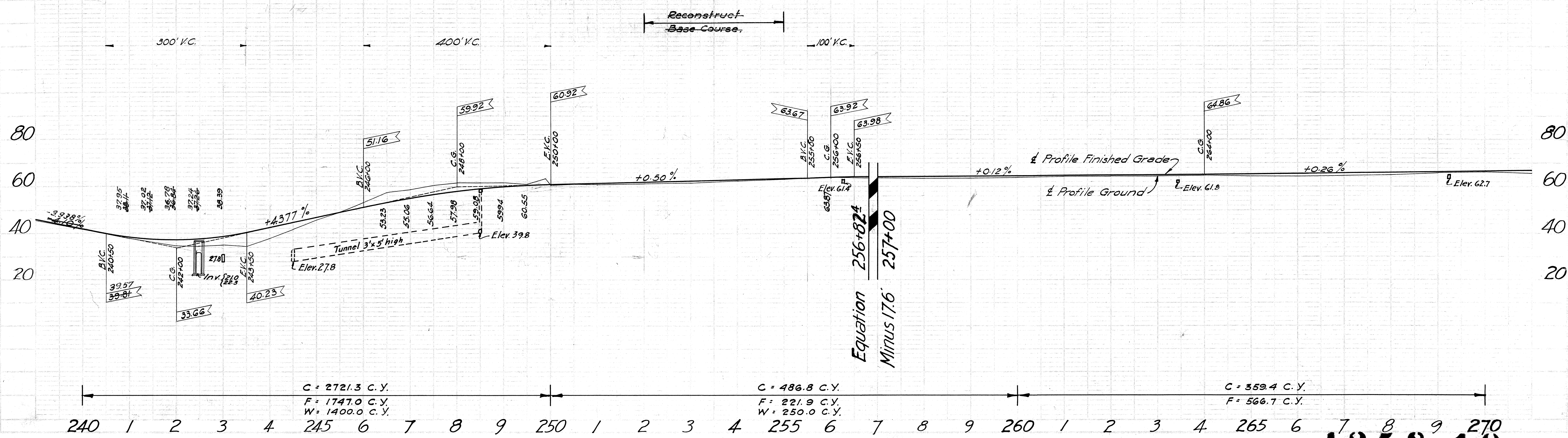
Cross on S.E. Corner of
Concrete Foundation of
Stand-pipe.



LIHUE PLANTATION CO LTD.

**EQUATION
SHORT 17.6**

HANAMAULU
WAILUA



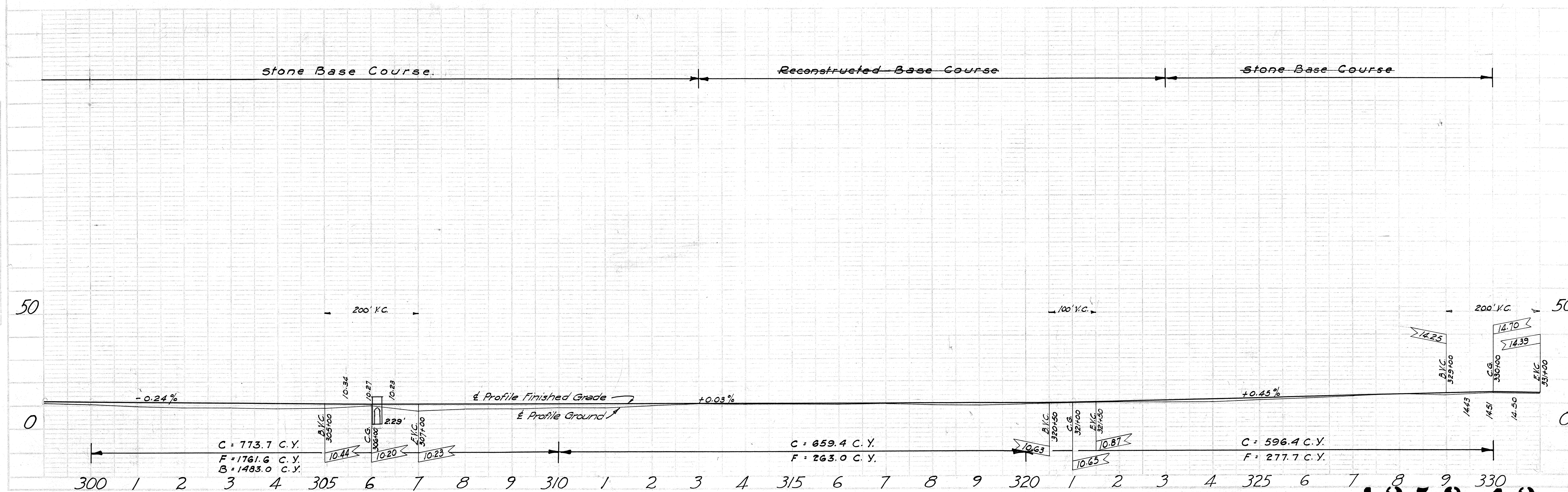
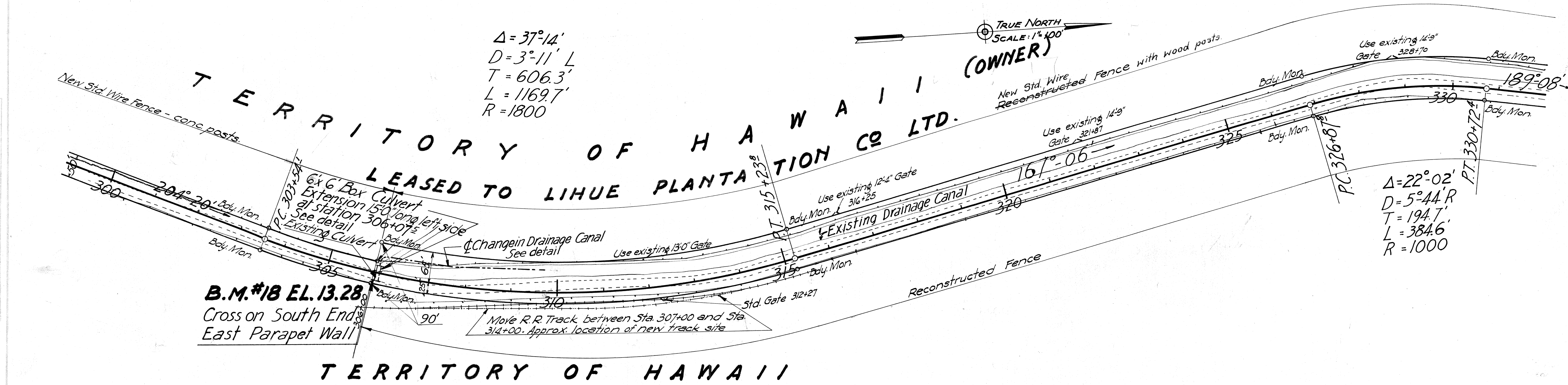
4258.10

4258.11

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	E-12-A	1932	12	56

SUBMITTED
 NOTE BOOK
 NO.

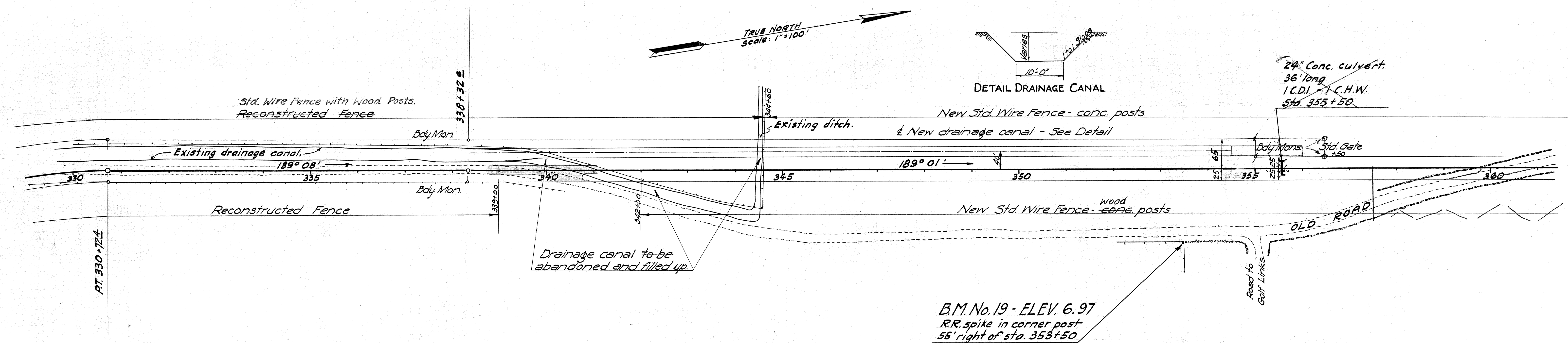
PROFILE
 SUBMITTED
 NOTE BOOK
 NO.



4258.12

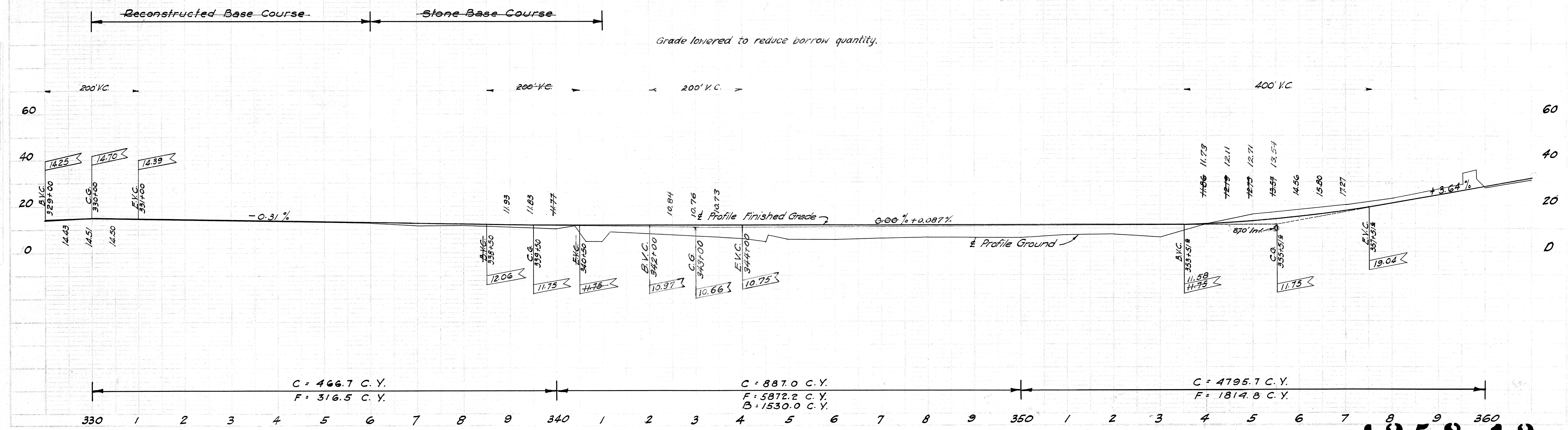
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	12-A	1932	13	56

TERRITORY OF HAWAII (OWNER)
LEASED TO LIHUE PLANTATION CO. LTD.



TERRITORY OF HAWAII (OWNER)
LEASED TO LIHUE PLANTATION CO. LTD.

GOLF LINKS



C = 466.7 C.Y.
F = 316.5 C.Y.

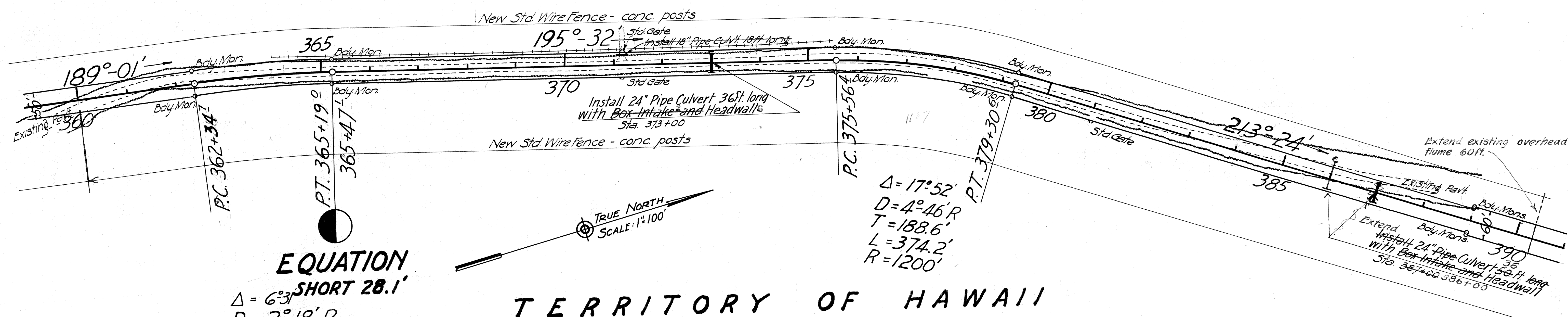
C = 887.0 C.Y.
F = 5872.2 C.Y.
B = 1530.0 C.Y.

C = 4795.7 C.Y.
F = 1814.8 C.Y.

4258.13

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	2-A	1932	14	56

TERRITORY OF HAWAII LEASED TO LIHUE PLANTATION CO., LTD.



EQUATION SHORT 28.1'

$$\Delta = 6^\circ 3'$$

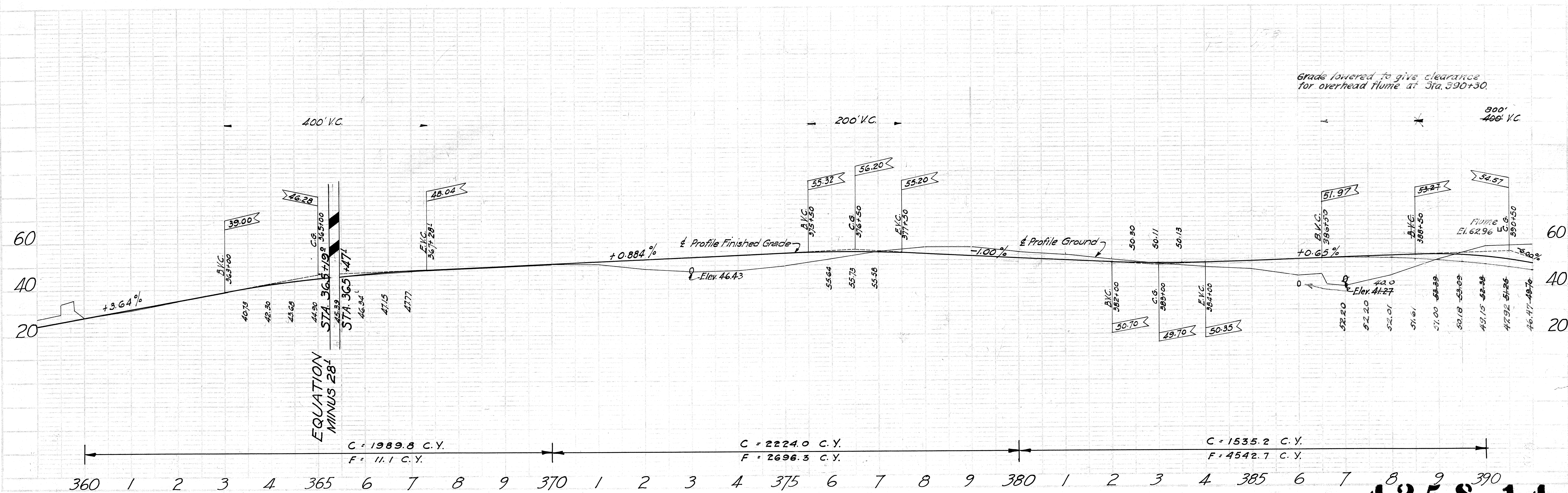
$$D = 2^\circ 18' R$$

$$T = 142.3'$$

$$L = 284.3'$$

$$R = 2500'$$

TERRITORY OF HAWAII LEASED TO LIHUE PLANTATION CO., LTD.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	2-A	1932	15	56

PLAN	SECTION	PROFILE
DATE	DATE	DATE
BY	BY	BY
CHECKED	CHECKED	CHECKED
APPROVED	APPROVED	APPROVED

$A = 4042'$
 $D = 2030'$
 $T = 9405'$
 $L = 188.0'$
 $R = 2291.85'$

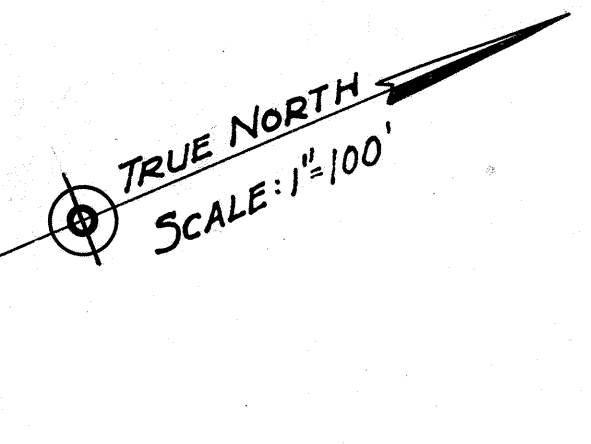
$A = 7043'$
 $D = 4006'$
 $T = 9765'$
 $L = 195.0'$
 $R = 1472.4'$

$\Delta = 11^\circ 44'$
 $D = 7^\circ 10' L$
 $T = 82.2'$
 $L = 163.8'$
 $R = 800'$

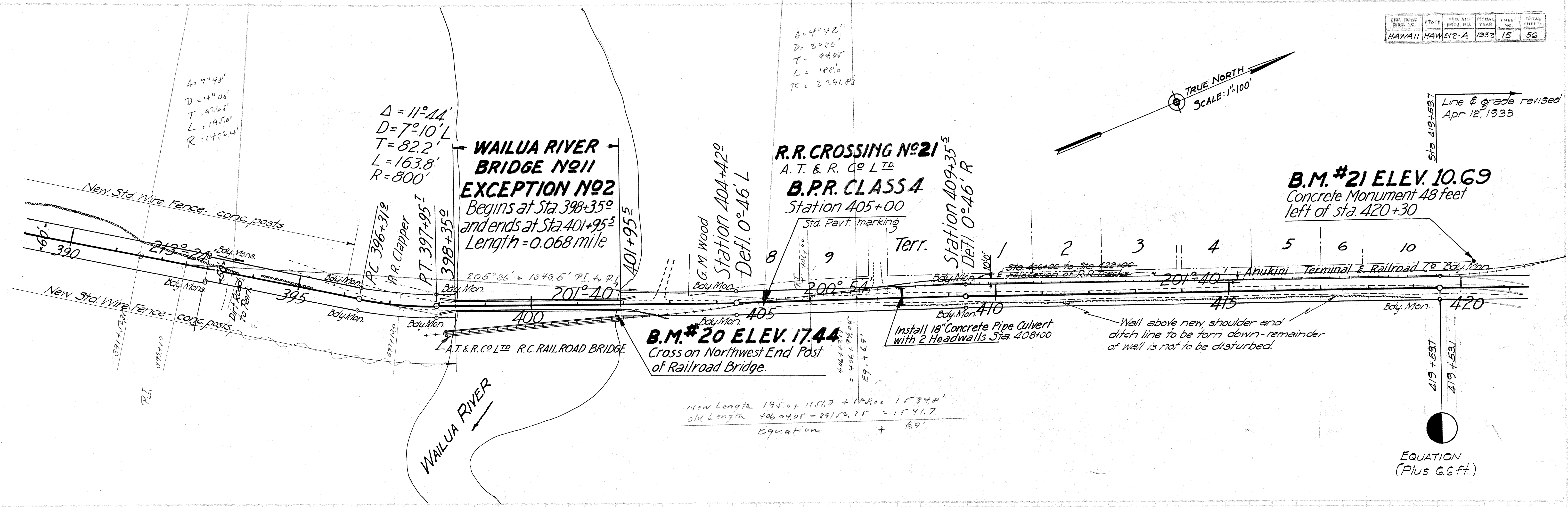
WAILUA RIVER BRIDGE NO 11
EXCEPTION NO 2
 Begins at Sta. 398+35.0 and ends at Sta. 401+95.5
 Length = 0.068 mile

R.R. CROSSING NO 21
 A.T. & R. CO. LTD.
B.P.R. CLASS 4
 Station 405+00

B.M. #21 ELEV. 10.69
 Concrete Monument 48 feet left of sta. 420+30



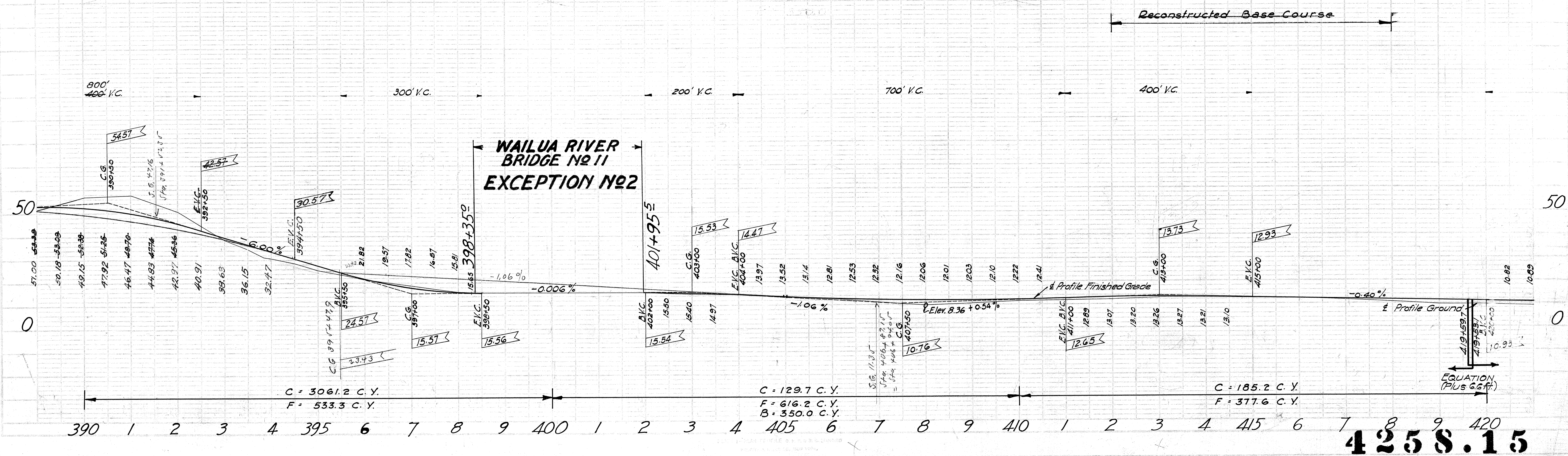
Line & grade revised Apr. 12, 1933



New Length $195.0 + 115.7 + 18.2 = 154.7$
 Old Length $406.405 - 291.52.25 = 154.7$
 Equation $+ 6.9'$

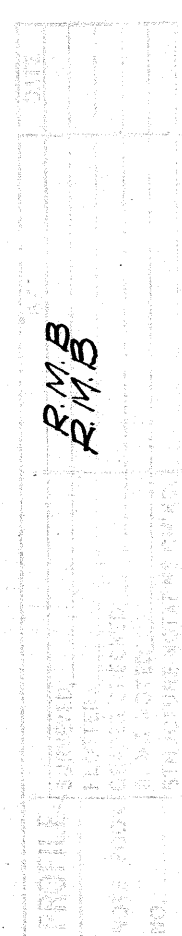
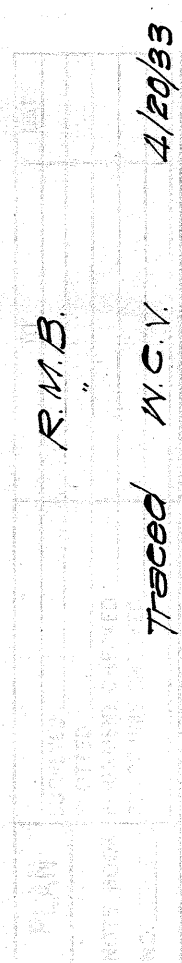
EQUATION (Plus 6.6 ft.)

PROFILE	SECTION	PLAN
DATE	DATE	DATE
BY	BY	BY
CHECKED	CHECKED	CHECKED
APPROVED	APPROVED	APPROVED



4258.15

O L O H E N A

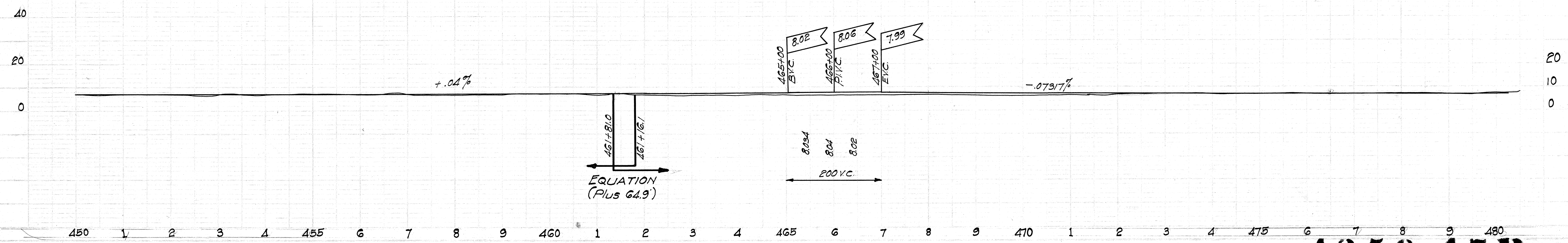
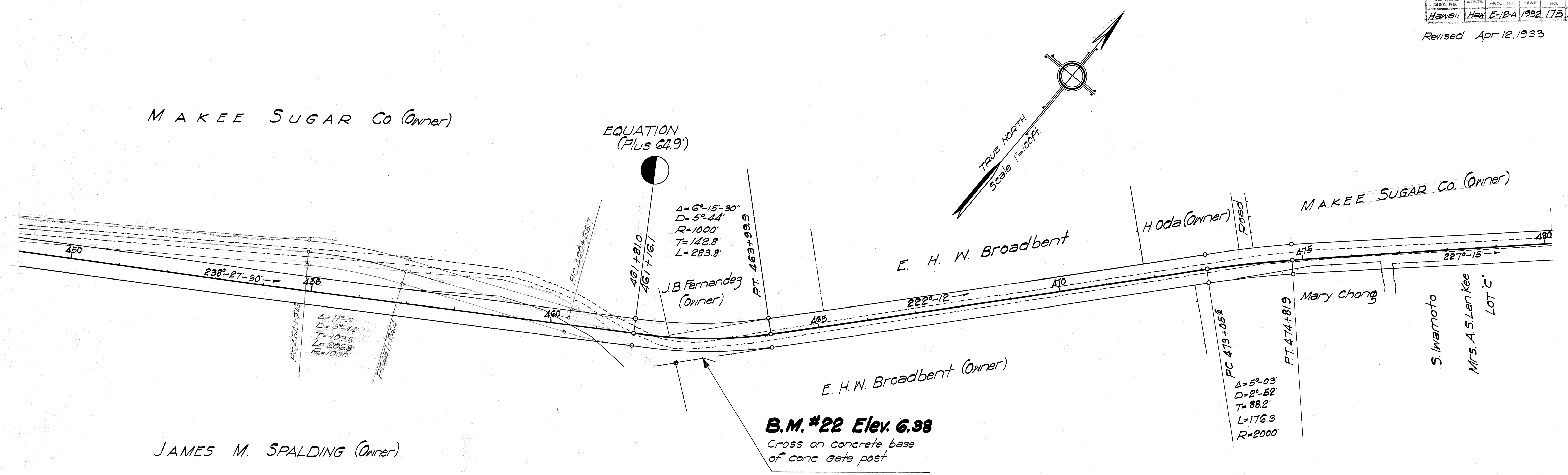


4258.16B

Revised Apr 12, 1933

PLAN
R.M.B.
M.C.V.
425/53

PROFILE
R.M.B.
M.C.V.
425/53



MAKE'E SUGAR Co. (Owner)

True North
Scale 1"=100'

$\Delta = 162.46'$
 $D = 2^{\circ} 52'$
 $T = 294.7'$
 $L = 585.3'$
 $R = 2000'$

$\Delta = 23^{\circ} 47'$
 $D = 5^{\circ} 44'$
 $T = 210.6'$
 $L = 415.1'$
 $R = 1000'$

$\Delta = 9^{\circ} 12'$
 $D = 5^{\circ} 44'$
 $T = 80.5'$
 $L = 160.6'$
 $R = 1000'$

Protestant Episcopal Church
in Hawaii (Owner)

Territory of Hawaii (Owner)

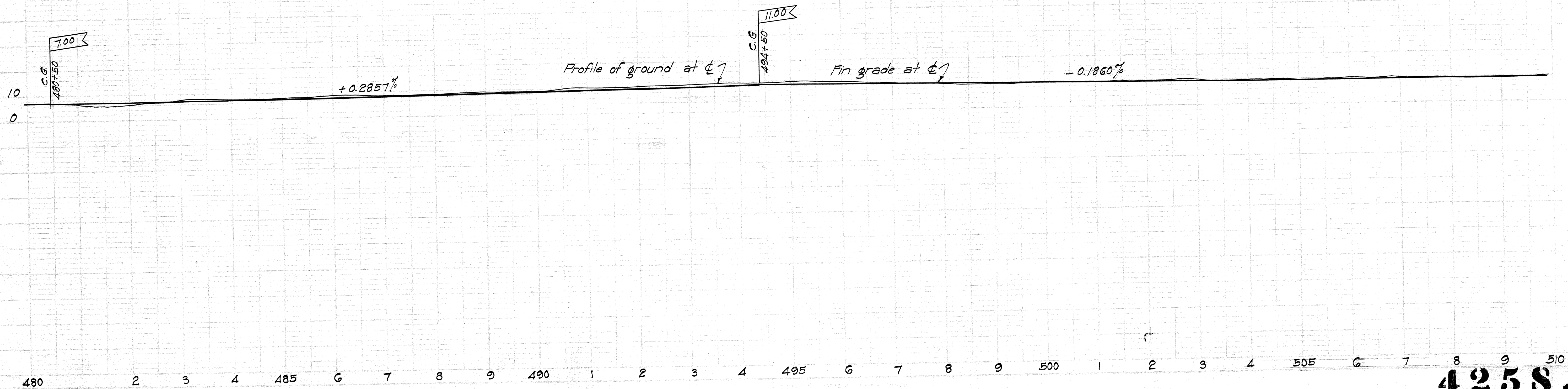
Kapaa House Lots - 2nd Series

R.R. Crossing No 22
B.P.R. Class 4 Sta. 501+21.0

B.M. #23 Elev 11.08
Copper bolt set in Northeast
end of west parapet wall

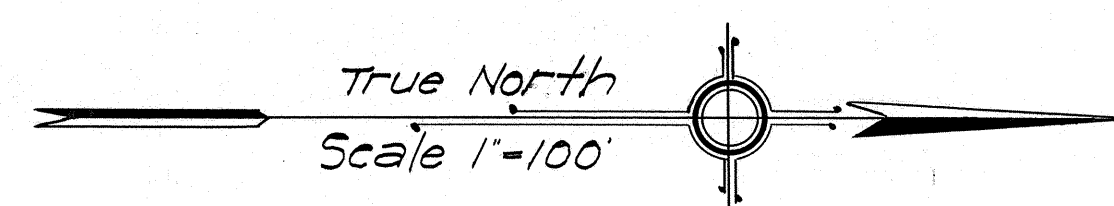
L. C. Brewer (Owner)

Traced by M.C.V.



4258.18A

Revised Apr. 12, 1933

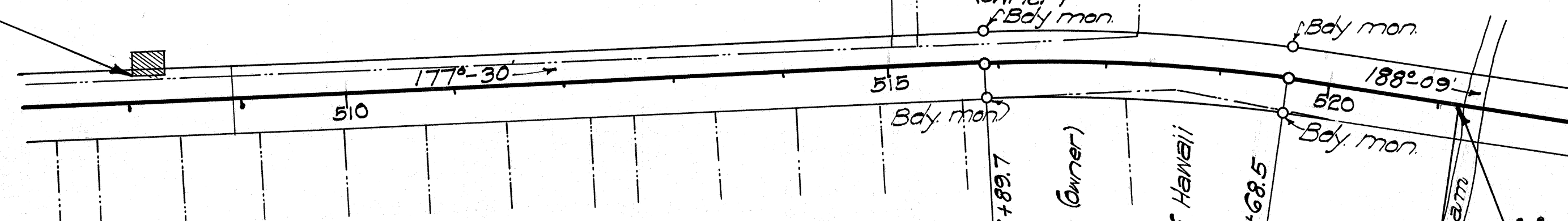


B.M. #24 Elev 8.65
Cross on South end of
concrete steps Kapaa
Store

TERRITORY OF HAWAII (Owner)
Leased to J. Teracka

Hawaiian
Canneries Ltd
(Owner)
Bay man

TERR. OF HAWAII
(Owner)
Bay man



KAPAA HOUSE LOTS 2ND SERIES

$\Delta = 102^{\circ}30'$
 $D = 32^{\circ}49'$
 $T = 139.8'$
 $L = 279.8'$
 $R = 1500'$

EQUATION

51649.7
27.60
51716.70

PC 568+00.12
42

-0.186%

Profile of ground

7.00
516+00

Fin grade at 517 +0.2966

8.78
522+00

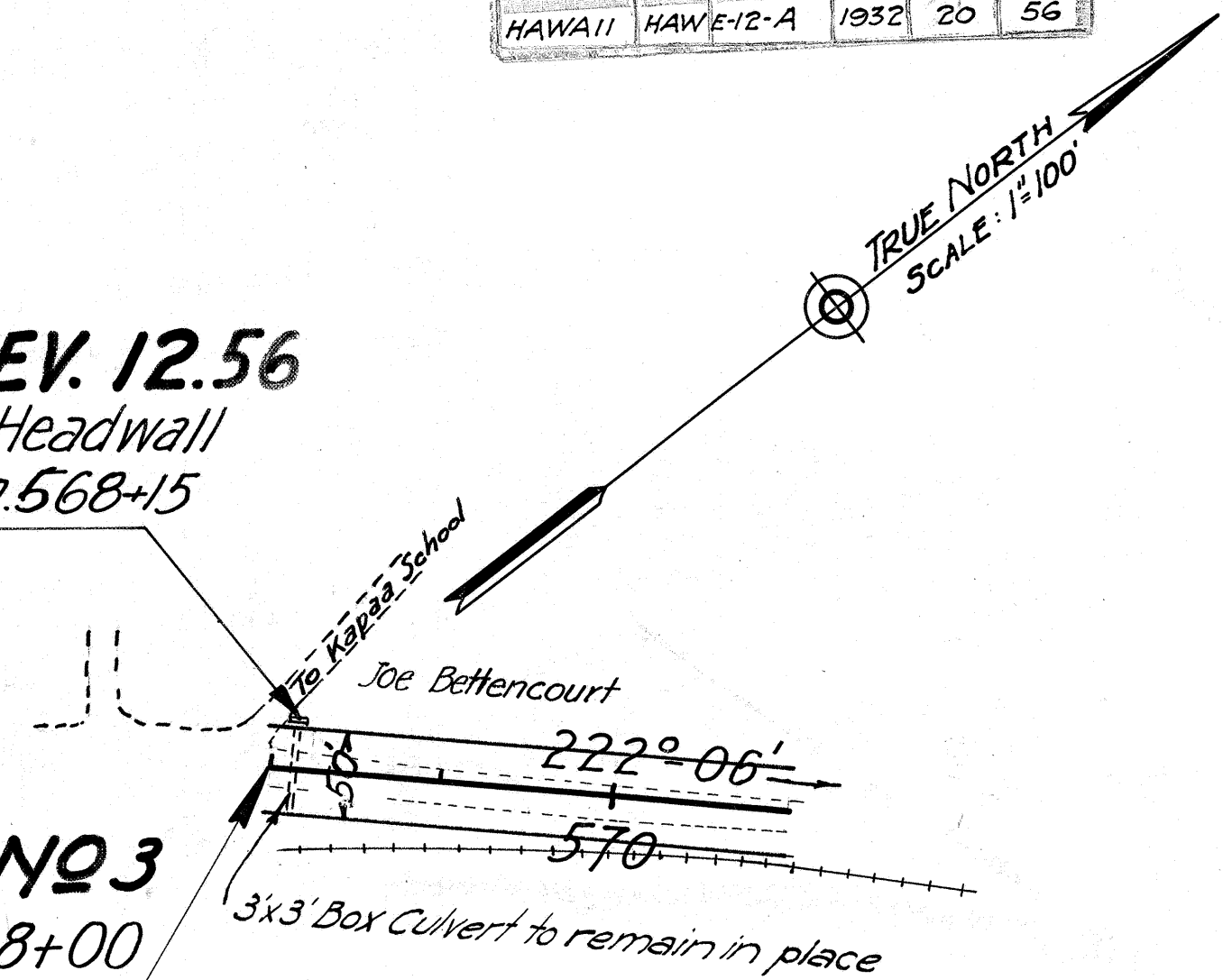
510 1 2 3 4 515 6 7 8 9 520 1 2

4258.19A

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	12-A	1932	20	56

B.M. #25 ELEV. 12.56
 Cross on Concrete Headwall
 28 feet left of Sta. 568+15

EXCEPTION NO. 3
 Ends at Station 568+00
 Kapaa Town



EXCEPTION

END OF EXCEPTION NO. 3

10.33
 ± Profile Finished Grade
 +1.736%
 ± Profile Grade

See following sheet.

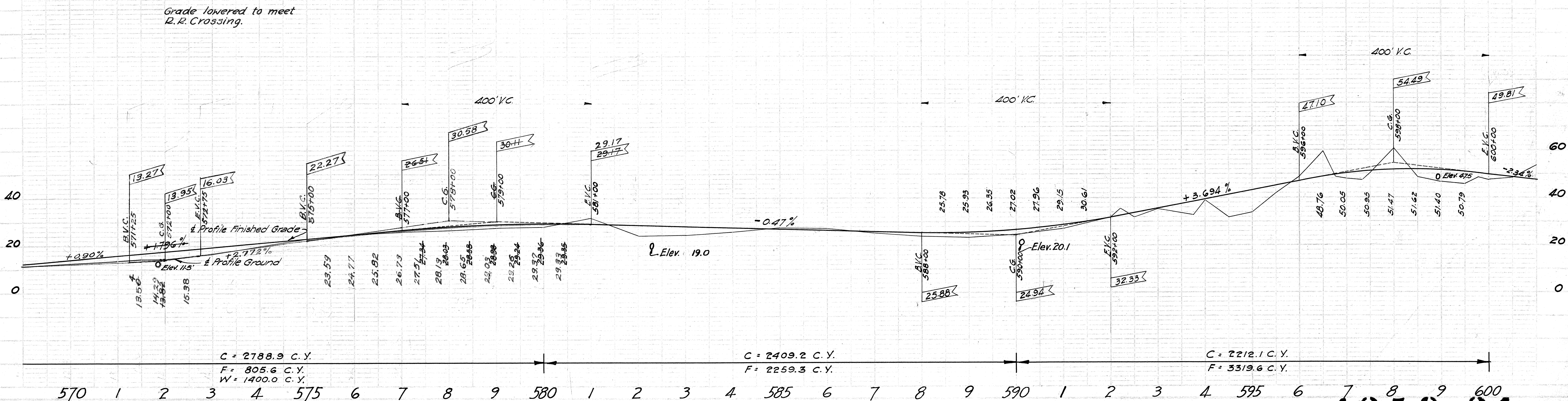
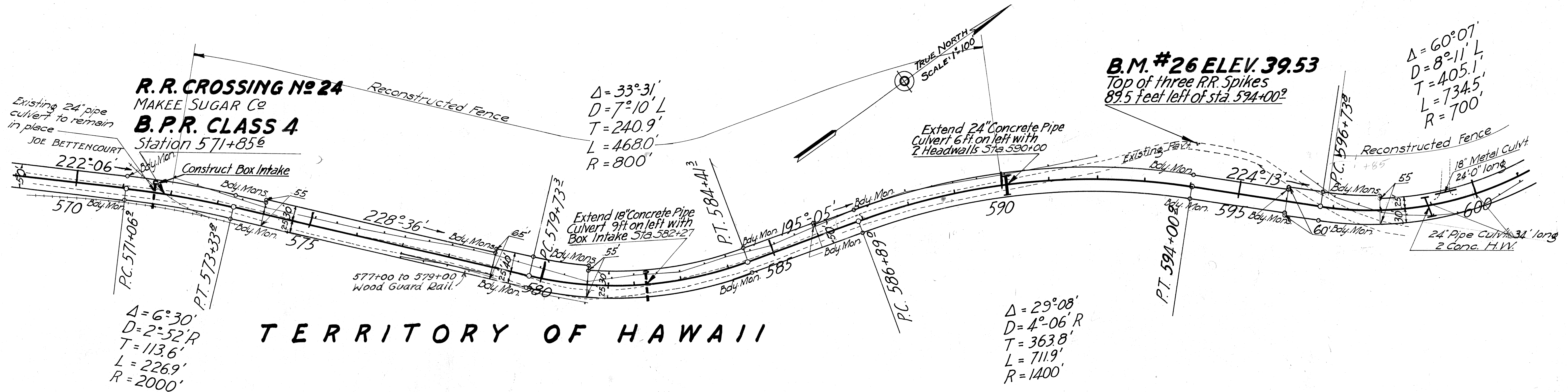
4258.20

PLAN	DATE	BY	CHKD.
PLANNED			
NOTED			
NO.			

PROFILE	DATE	BY	CHKD.
PLANNED			
NOTED			
NO.			

TERRITORY OF HAWAII

STATE	FED. AID DIST. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW-12-A	1932	21	56

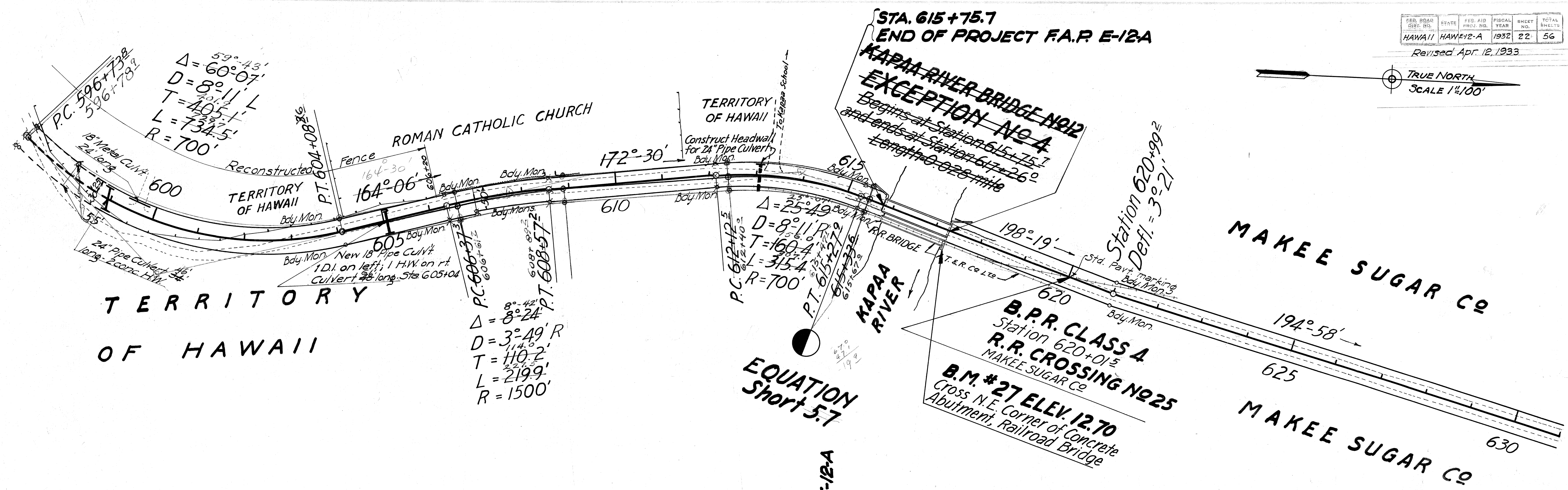


4258.21

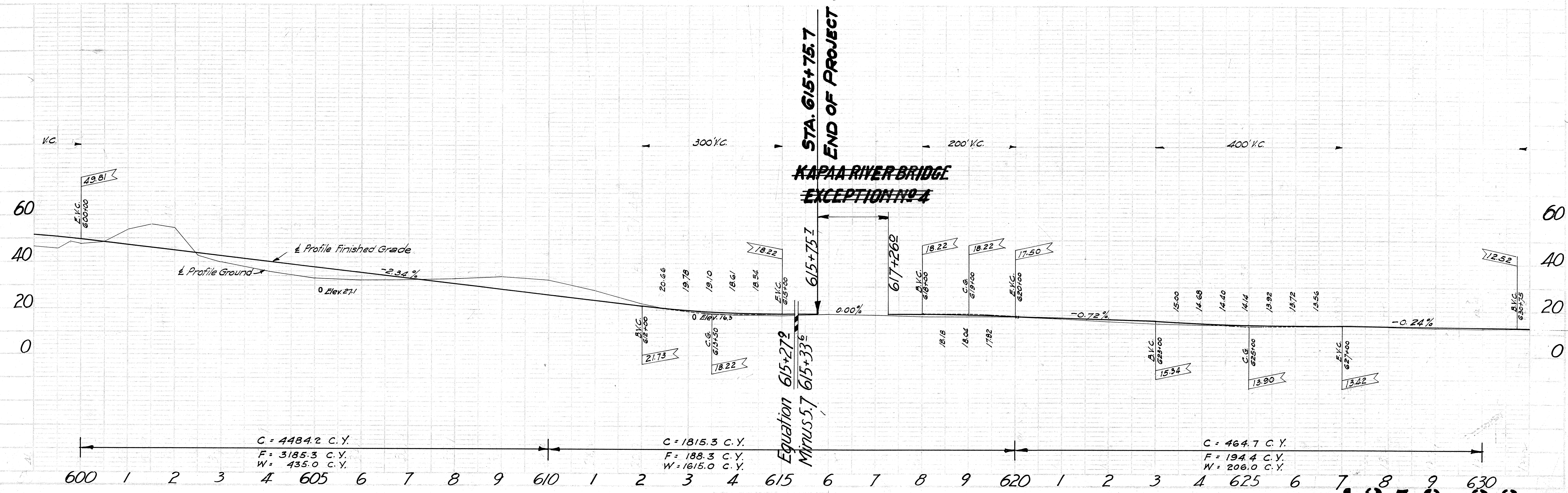
PLAN
 SUPERVISOR
 ENGINEER
 NOTE: BOOK 14, COUNTY OF HAWAII, HAS BEEN RECORDED.
 DATE OF REVISION: 12/1/33

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	E-12-A	1932	22	56

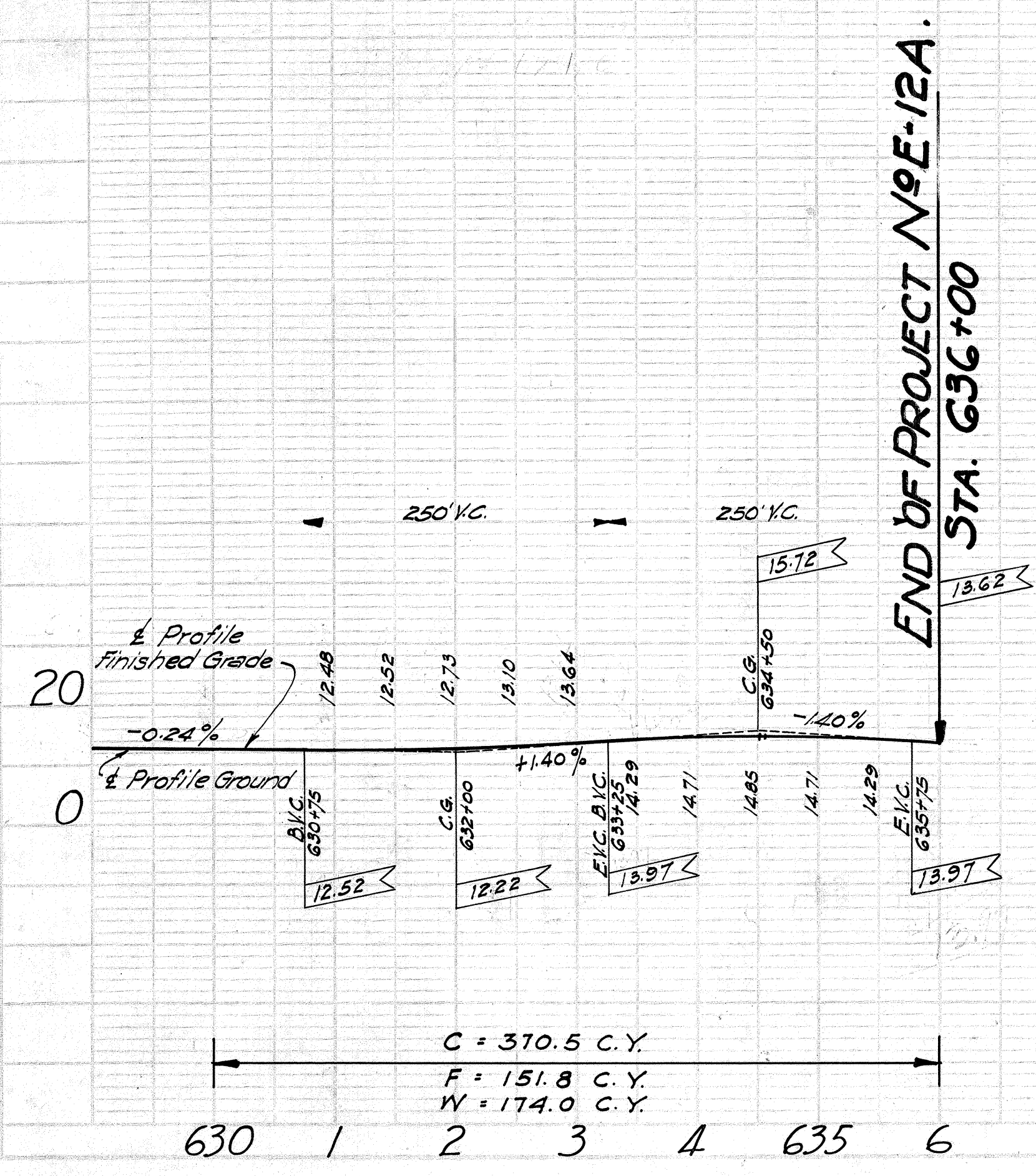
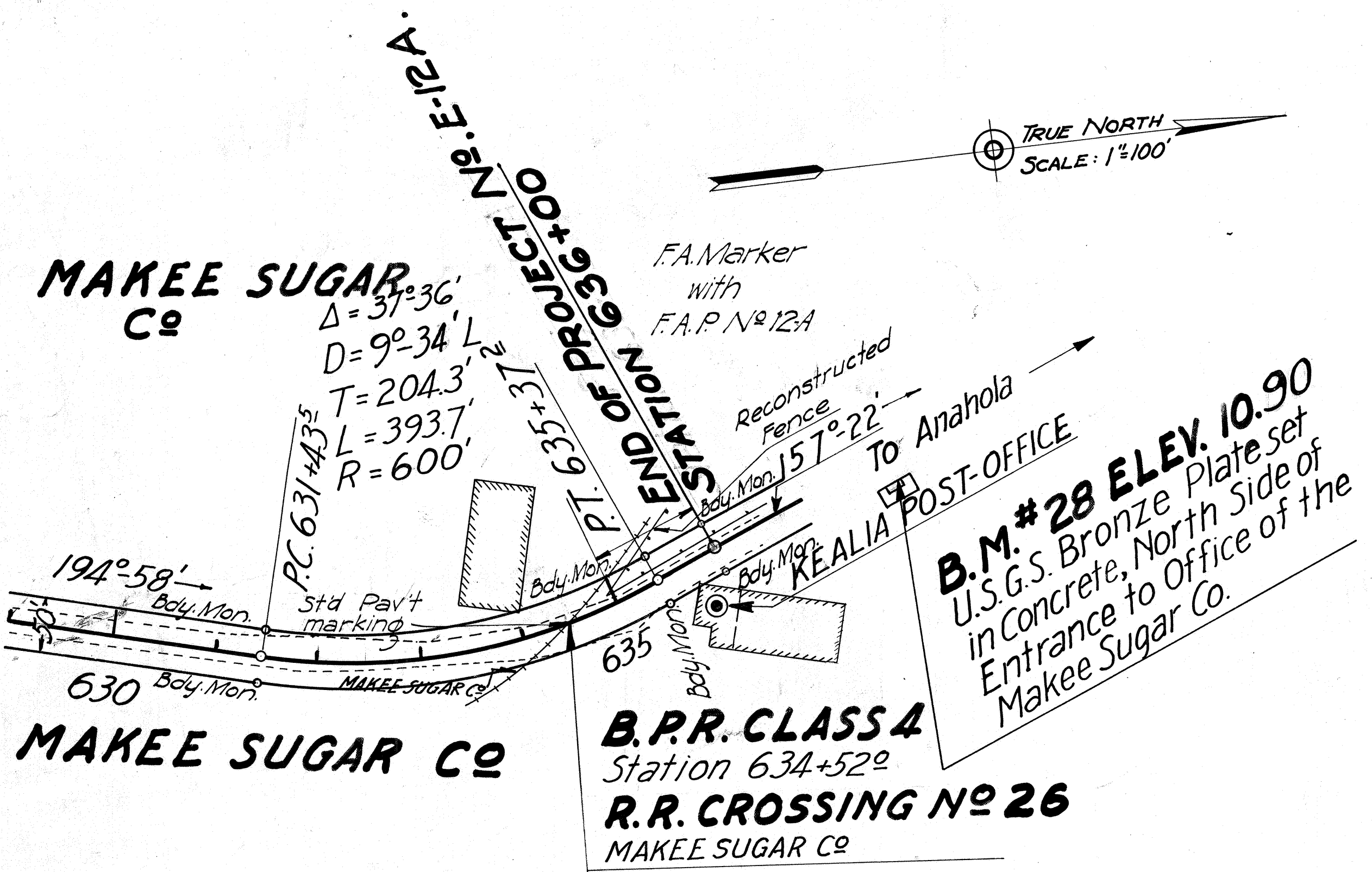
Revised Apr. 12, 1933

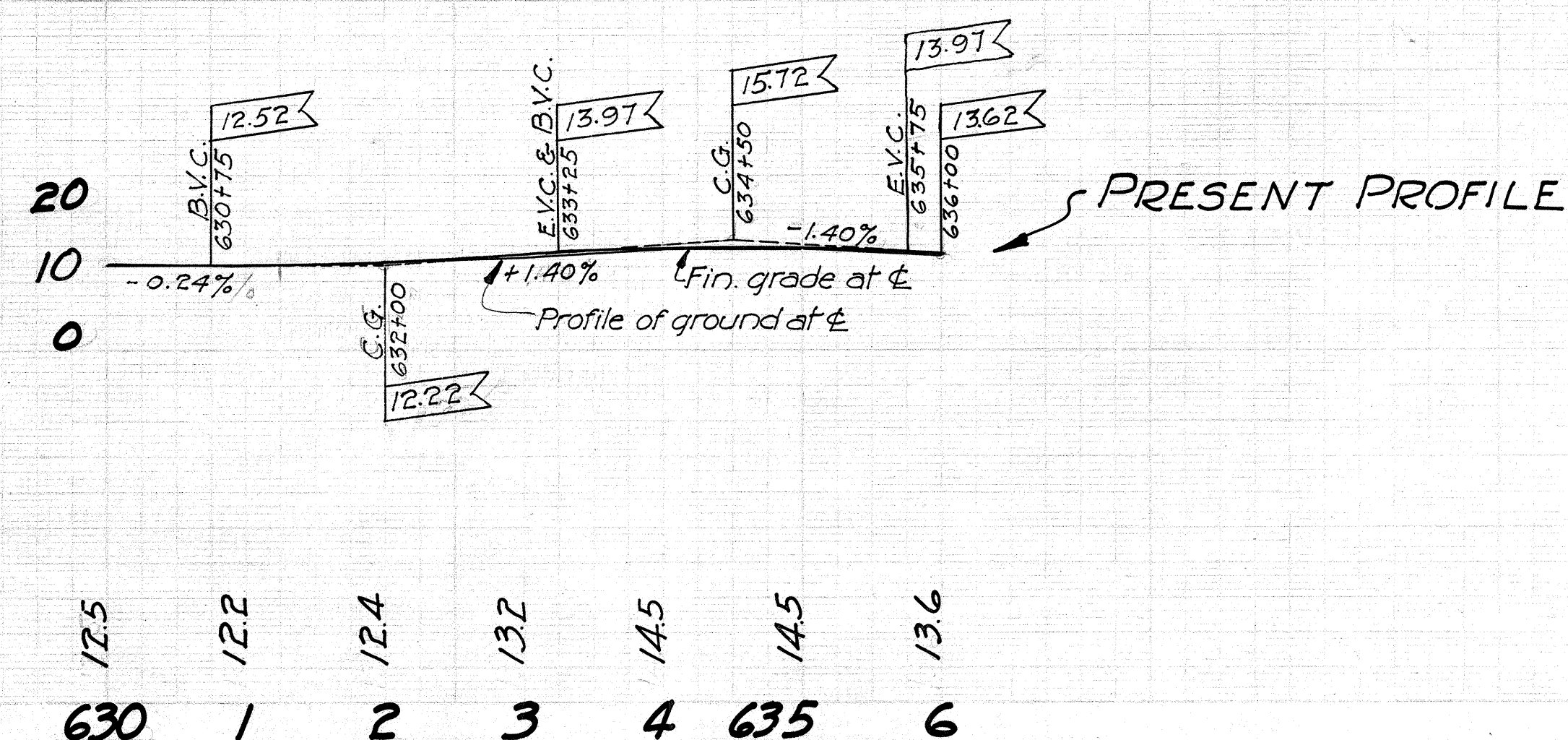
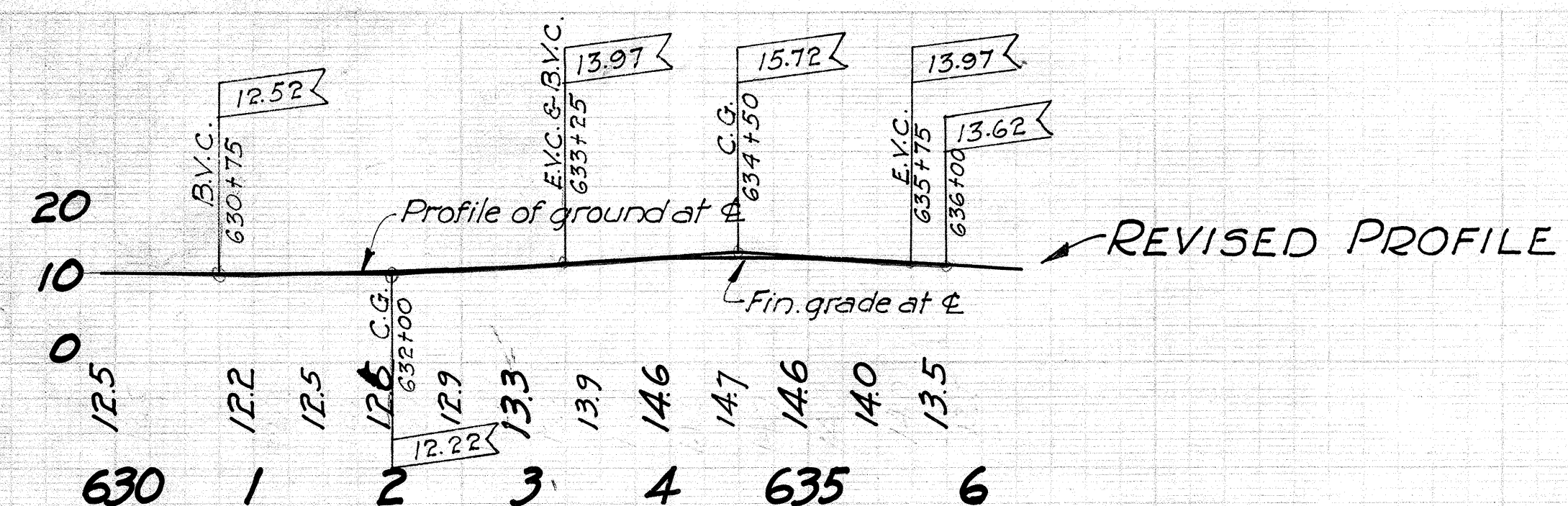
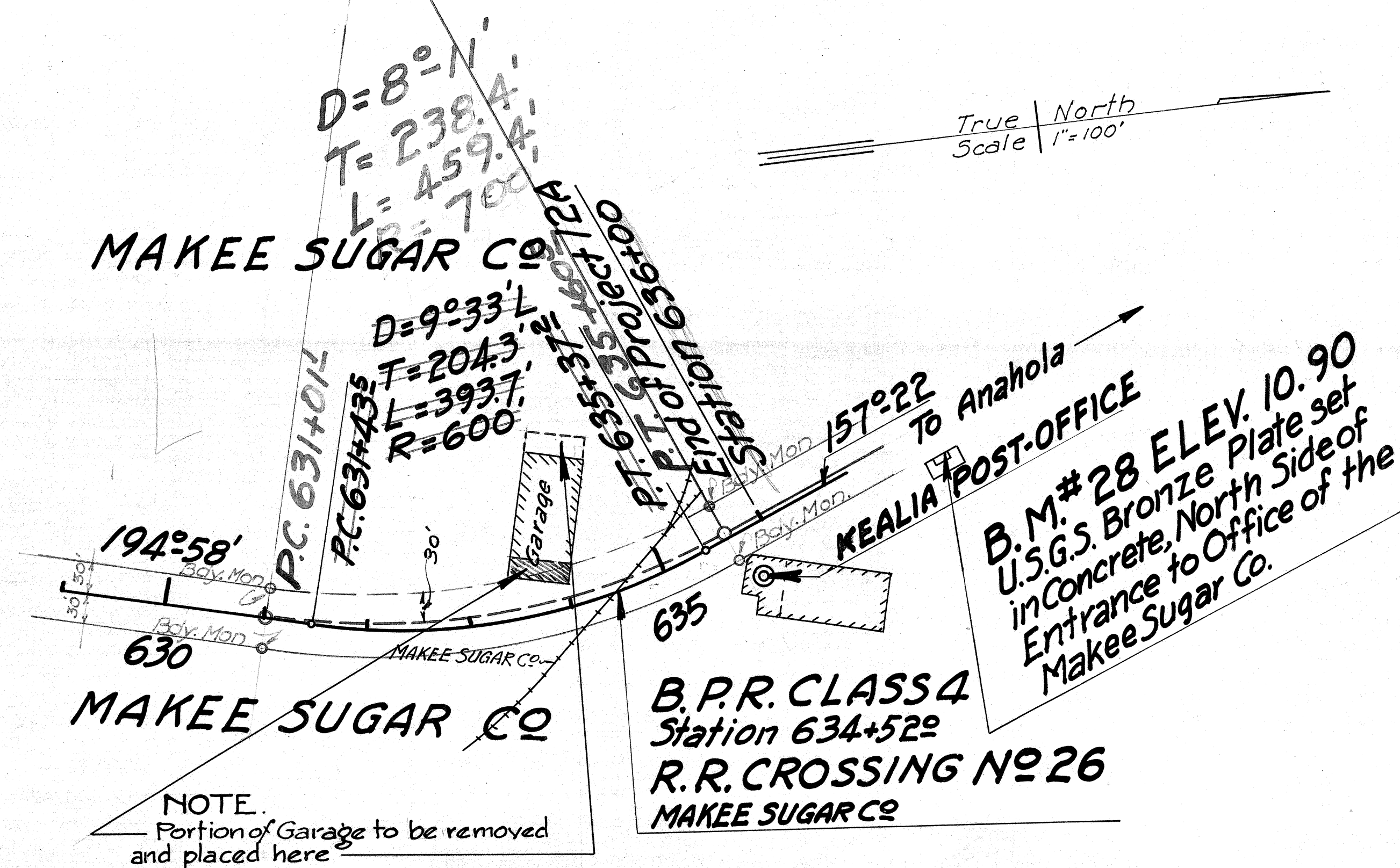


PROFILE
 SUPERVISOR
 ENGINEER
 NOTE: BOOK 14, COUNTY OF HAWAII, HAS BEEN RECORDED.
 DATE OF REVISION: 12/1/33



4258.22





4258.23A