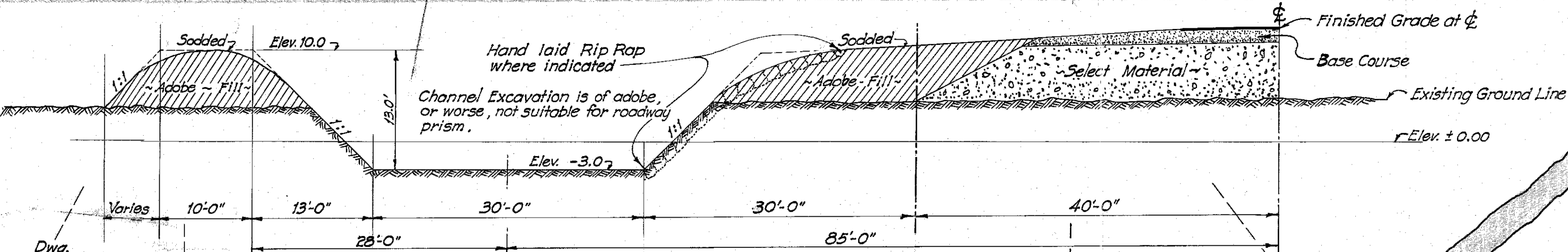


- List of Common Abbreviations**
- C.H.W.-----Concrete Head Wall
  - C.B.-----Catch Basin
  - H.E.-----Hawaiian Electric pole
  - O.R. & L. Co.-----Oahu Railway & Land Co.
  - H.L.R.R.-----Hand laid Rip Rap
  - C.D.I.-----Concrete Drop Intake

**TYPICAL SECTION OF RELOCATED STREAM**  
SCALE: 1" = 10'-0"



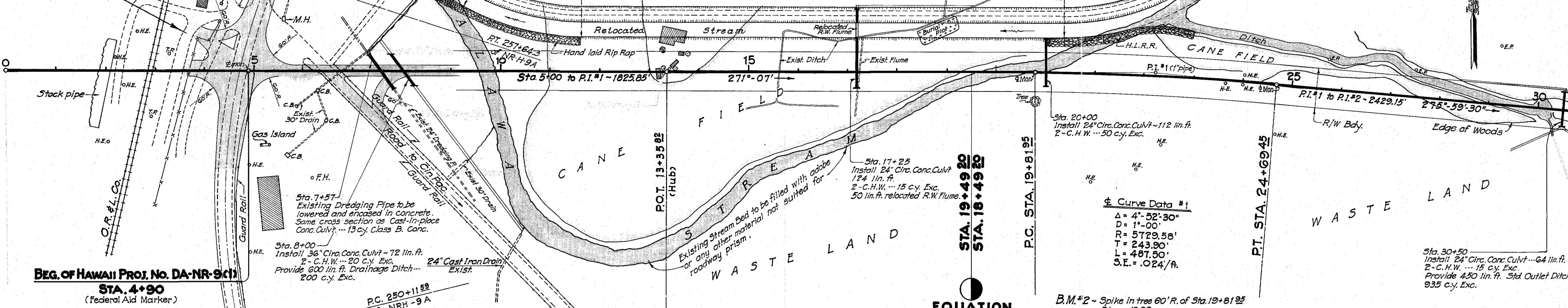
(See Cross Sections ----- Channel Exc. = 17,155 c.y.)

B.M. a cut in valve box of U.S. Navy pipe line across Halawa Stream. Elev. = 4.34

All elevations are referred to this B.M.

All Azimuths are referred to Salt Lake Δ.

Construct approaches to conform to 14th Naval District Drawing No. M-NZ-10Z. Est. - 2700 sq. Pymt. 900 c.y. Spec. Borrow



Curve Data #1

Δ	4°-52'-30"
D	1'-00"
R	5729.58'
T	243.90'
L	407.90'
S.E.	.024/R

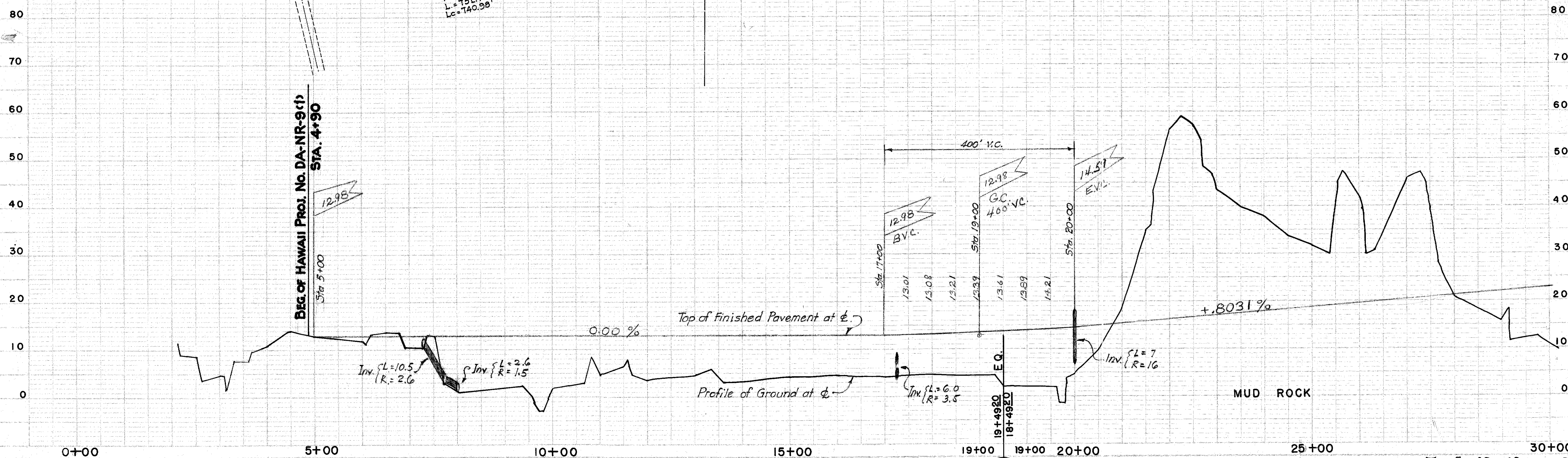
**EQUATION**  
PLUS:100'

**BEG. OF HAWAII PROJ. No. DA-NR-9C1**  
**STA. 4+90**  
(Federal Aid Marker)

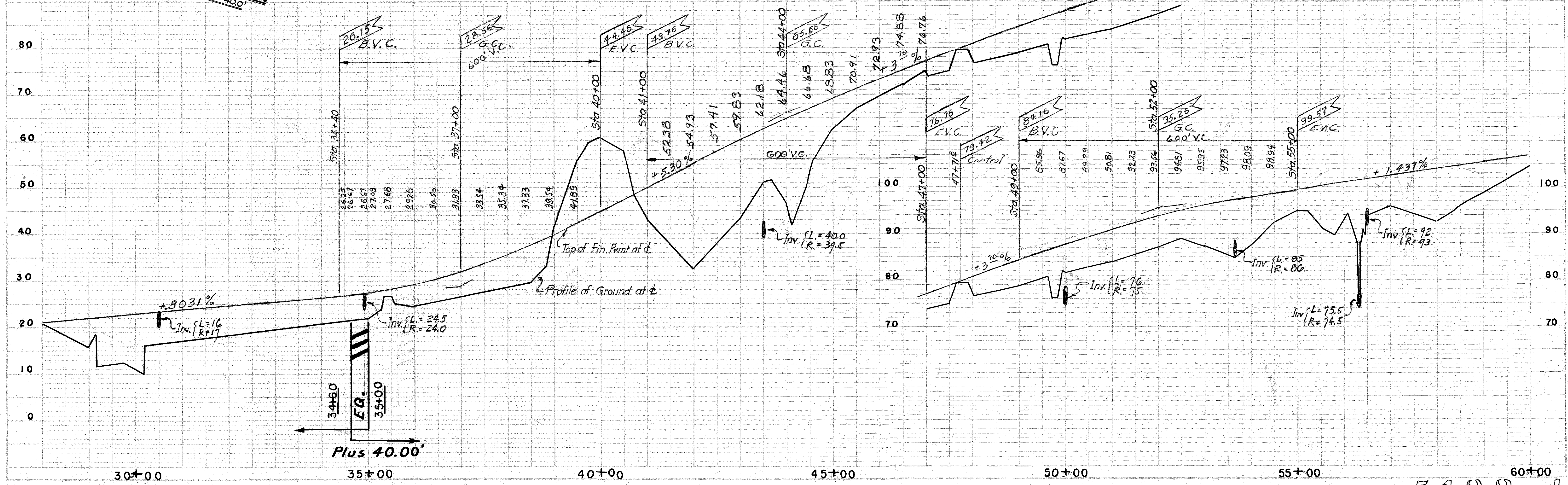
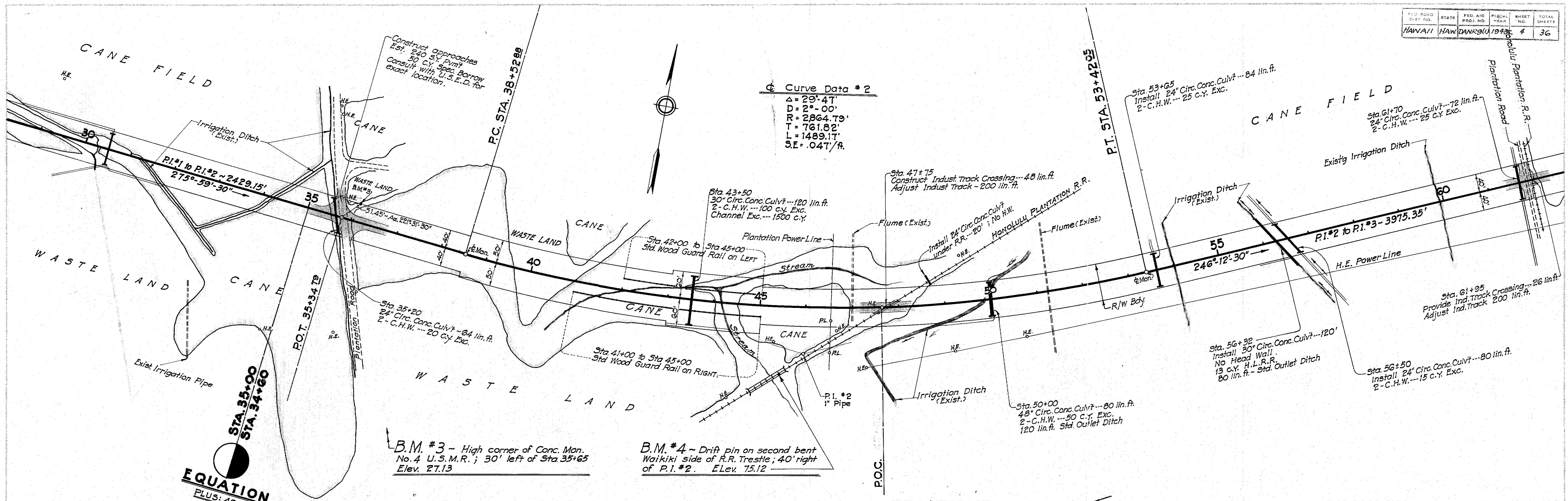
P.C. 250+11.89 of NRH-9A

Curve Data:

Δ	35°-07'
R	1228.27'
T	388.59'
L	152.71'
Lc	140.98'



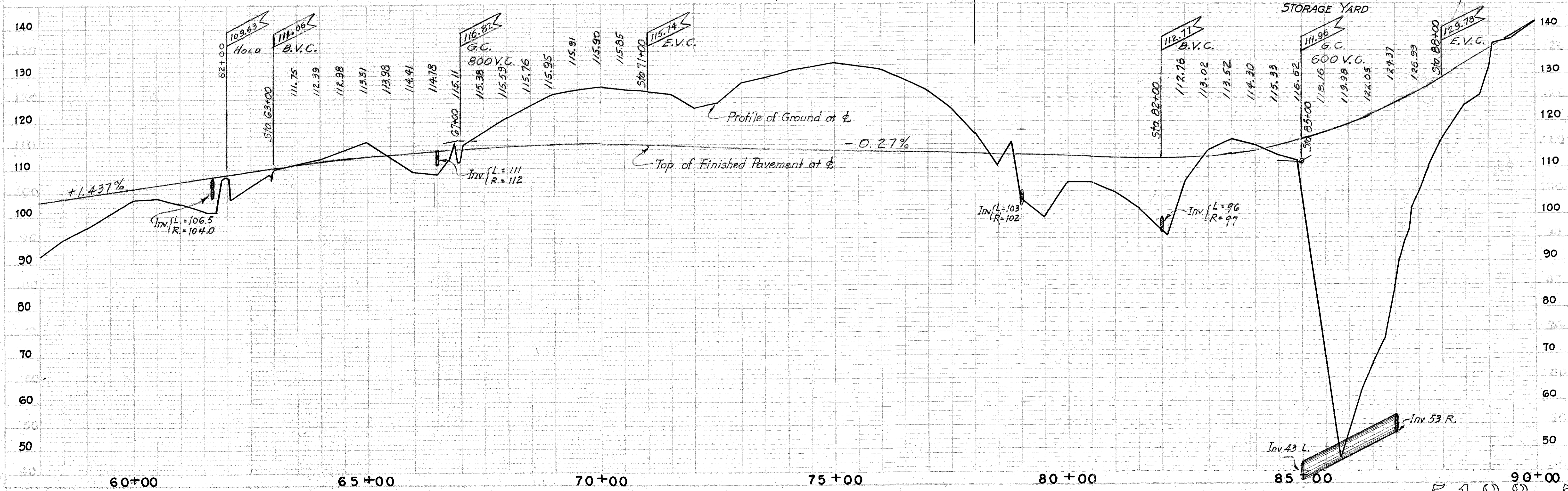
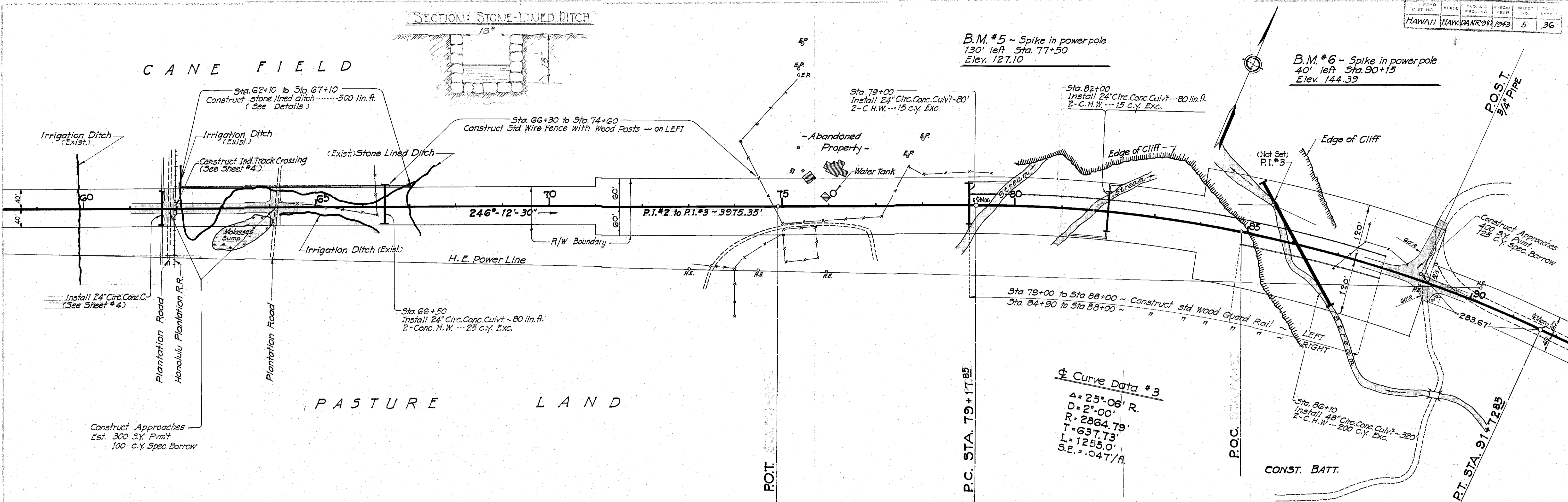
F.I.D. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	DW-93(1)	1963	4	36



PLAN	DATE	BY

PROFILE	DATE	BY

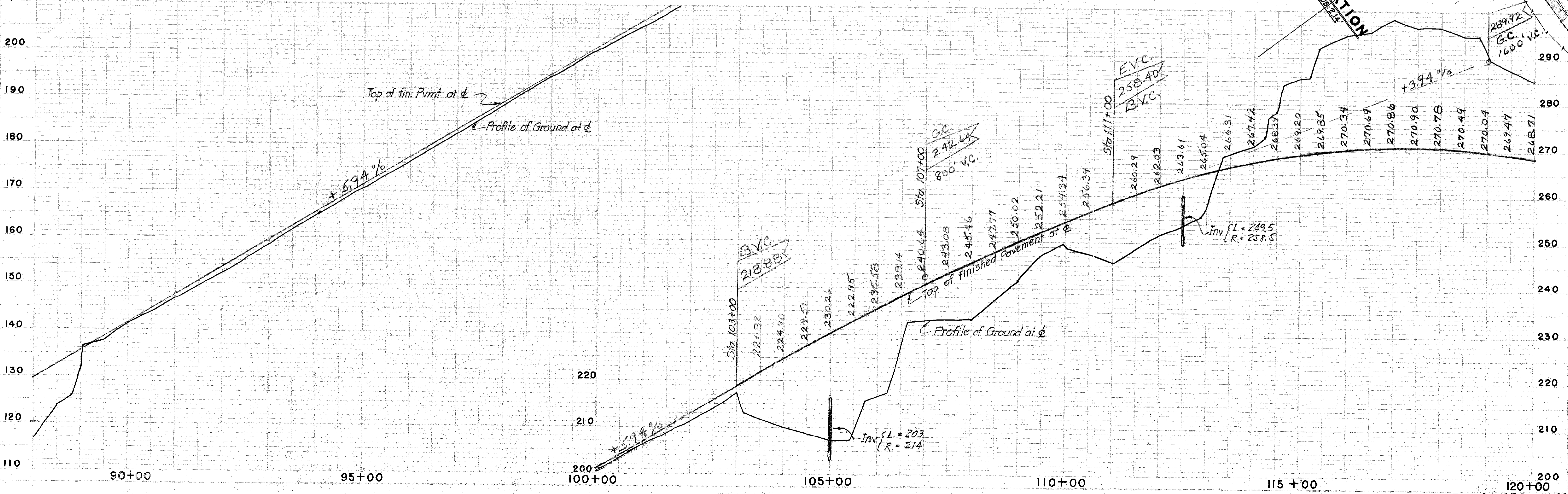
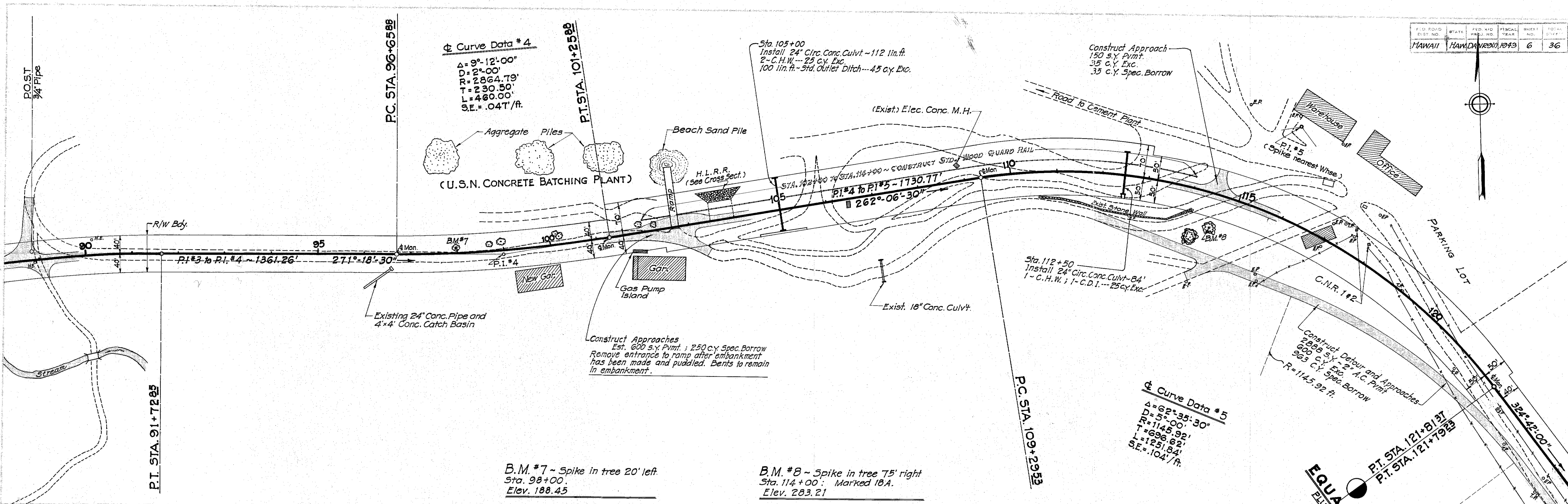
PROJECT NO.	STATE	FED. AID	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	DANKON	1943	5	36



PLAN  
 DATE  
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 STATE  
 FEDERAL AID  
 FISCAL YEAR  
 SHEET NO.  
 TOTAL SHEETS

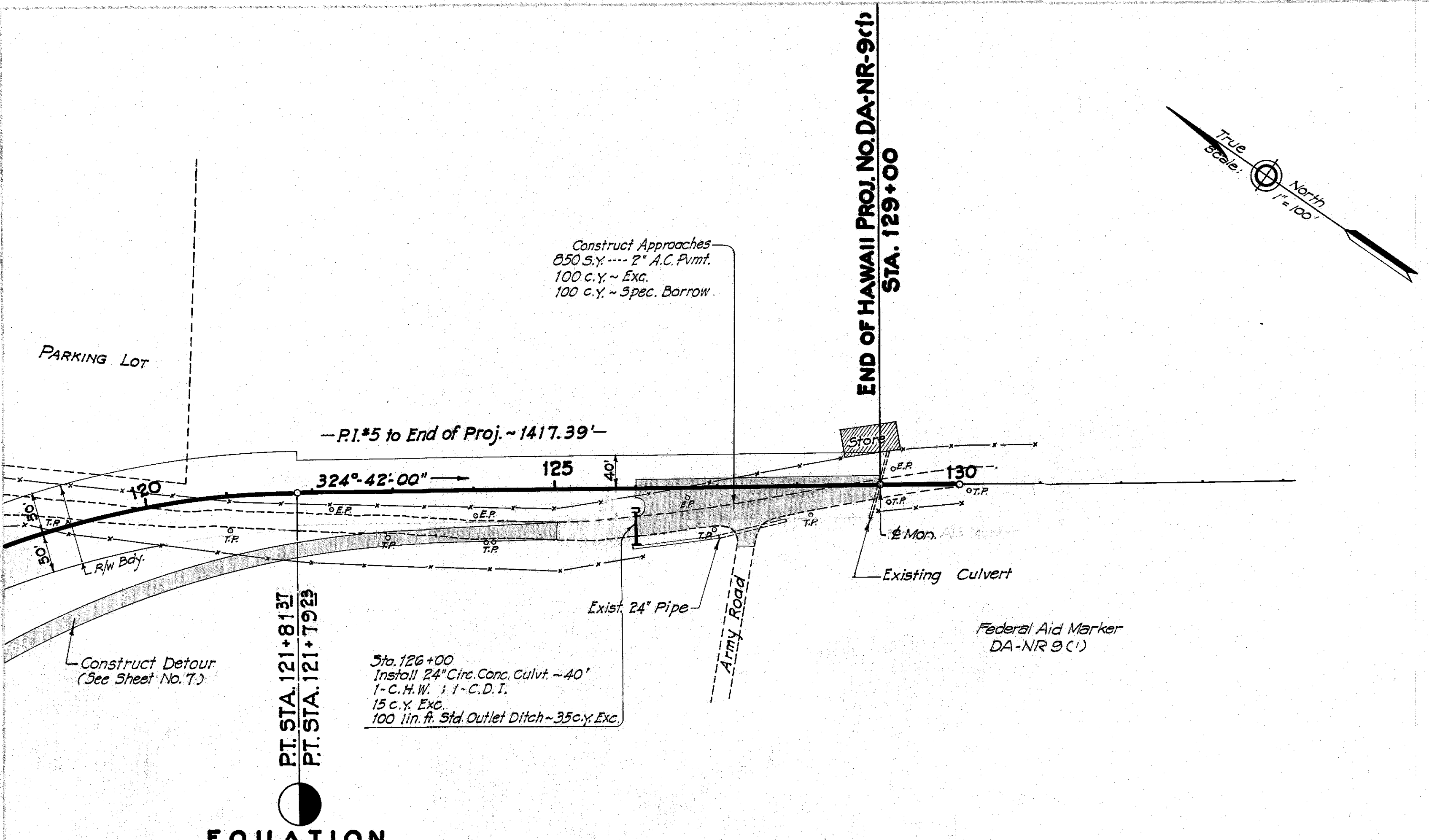
PROFILE  
 DATE  
 PROJECT NO.  
 STATE  
 FEDERAL AID  
 FISCAL YEAR  
 SHEET NO.  
 TOTAL SHEETS

F.D. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	1043	1943	6	36



DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_  
 TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_  
 TITLE: \_\_\_\_\_



**EQUATION**  
 PLUS: 2.14'

