

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-F-050-1(7)	1988	4	75

K-1
CURVE DATA
 $\Delta = 37^\circ 40'$
 $R = 2000.00'$
 $T = 682.15'$
 $C = 1291.27'$
 $L = 1314.81'$

LEGEND:

- dw - existing underground Television Cable
- ep - existing electric pole
- tp - existing telephone pole
- gp - existing guy pole
- TP - Relocated or New Telephone Pole (By Others)
- EP - Relocated or New Electric Pole (By Others)
- CTV - Relocated Cable Television Line (By Others)

Sta. 243+45 (Drainage)
Construct: 1 ea. - Type I CDI
1 ea. - Std Concrete Headwall
Install 30-inch RCP. CI. IV
Estimated Quantities:

Ditch Exc.	6	C.Y.
Class A Conc.	5	C.Y.
Reinf Steel	586	Lb.
30-inch RCP	96	Lin. Ft.

K-2
EDGE PAVEMENT
CURVE DATA
 $\Delta = 11^\circ 14' 15''$
 $R = 1362.09'$
 $T = 134.00'$
 $C = 266.72'$
 $L_c = 267.15'$

Sta. 244+00 Lt.
Connect to existing Type 3 Guardrail

Sta. 244+00
~~Sta. 244+00~~
Begin A.C. Paving

Sta. 244+00 to Sta. 246+50 Lt.
Install Type 3 Guardrail w/steel post with Type C flare.

Quantity: 213.50 Lin. Ft. (Std.)

247+92.98 - 16' o/s Left
Install Standard Street Survey Monument

TRUE NORTH
Scale: 1"=40'

28000

M.L. Sta. 251+50

62°06'30" (P.C. to P.I.)
682.15'

Relocated CTV, Underground

New CTV, overhead on tp

Inv. = 383.00

Type "C" Flare

K-1

Exist. cty to pipe Inv. = 388.00
be abandoned ditch Inv. = 391.50

Type "F" Flare

Cleanout (Sta. 245+25)

Sta. 244+50
Drainage Improvements. For details see Plan sht. no. 21

Sta. 243+75 to Sta. 244+75 Rt.
Install Type 3 Guardrail w/steel post with Type C and Type F flare.
Quantity: 100 Lin. Ft. (Std.)

Sta. 244+00 to Sta. 246+00 Lt.
Taper shoulder from 4' to 8' wide.

1291.27 (P.C. to P.T.)
Sta. 243+45
~~Sta. 243+45~~ Rt.
Demolish, Remove and Dispose Existing Concrete Headwall. Concrete Headwall For detail see Plan sht. no. 20. Plug inlet

P.C. (Right Edge of Pav't.)
P.O.C. Sta. 244+00
358' 31" 00"

R=1362.09
P.T. (Right Edge of Pav't.)

Sta. 244+50 Rt. to Sta. 250+00 Rt.
1.5' x 1.5' (ss 1/1) Lined Trapezoidal drainage ditch. For detail see Plan sht. no. 20

Sta. 248+50
Begin Taper

6-inch Underdrain Pipe (Contract Change Order No. 6)

Sta. 249+03±
Remove and dispose of existing 24" RCP. Demolish, remove and dispose existing inlet and outlet structures.

400

390

380

400

390

380

Existing Grade @

Finish Grade @

+0.60%

-4.00%

Sta. 244+00

B.V.C. 390.45

CG 390.45

Sta. 249+00

390.69

390.82

390.83

390.73

390.51

390.18

395.73

395.17

304.49

393.70

392.79

391.77

390.63

389.38

388.01

1000' V.C.

244

245+00

246

247

248

249

250+00

251

SHEET NO. 1 OF 6 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
NO.	

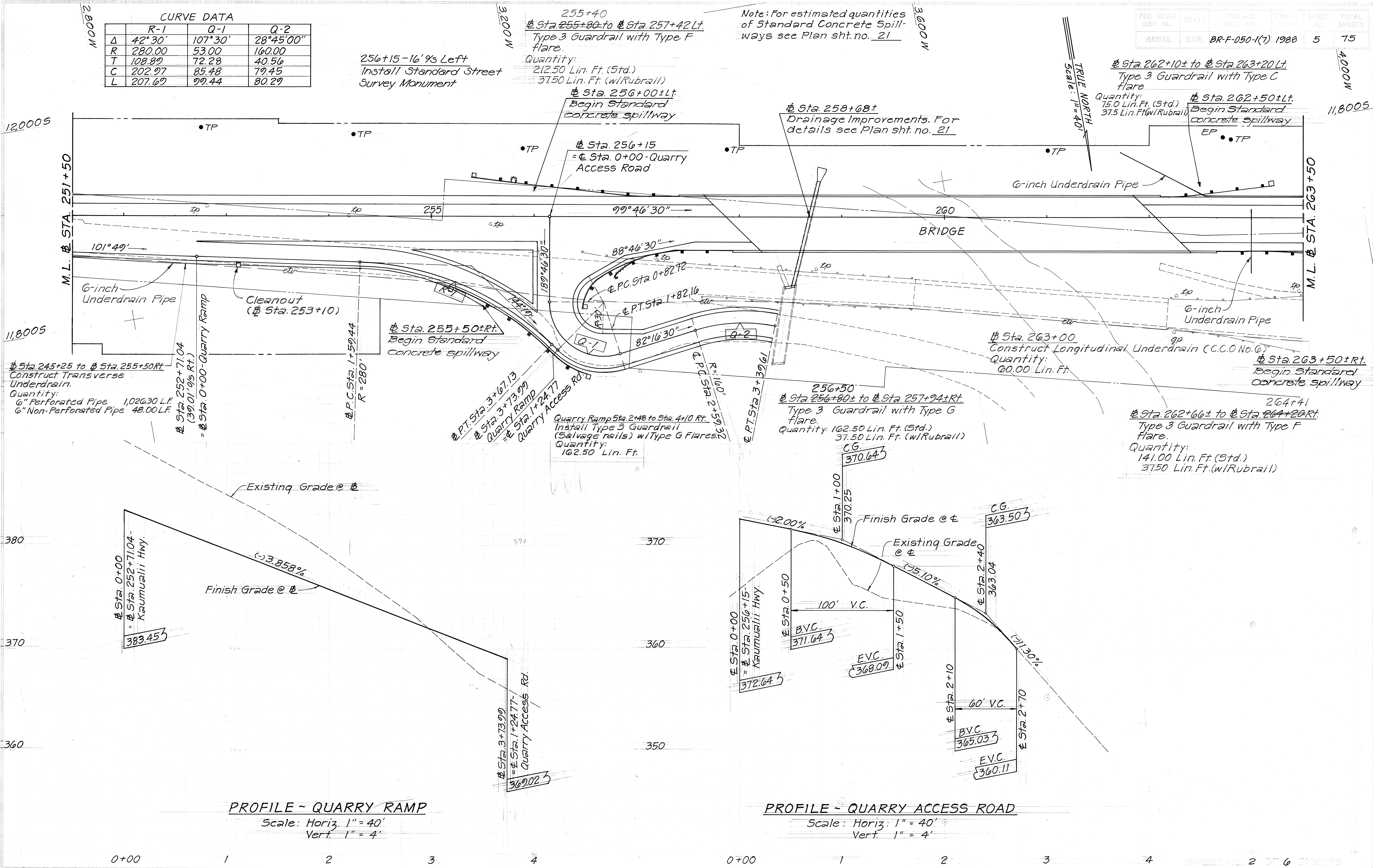
CURVE DATA			
	R-1	Q-1	Q-2
Δ	42°30'	107°30'	28°45'00"
R	280.00	53.00	160.00
T	108.89	72.28	40.56
C	202.27	85.48	79.45
L	207.69	99.44	80.29

256+15-16' 9s Left
Install Standard Street
Survey Monument

255+40
Sta. 255+80 to Sta. 257+42 Lt.
Type 3 Guardrail with Type F
Flare.
Quantity:
212.50 Lin. Ft. (Std.)
37.50 Lin. Ft. (w/Rubrail)

Note: For estimated quantities
of Standard Concrete Spill-
ways see Plan sht. no. 21

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HAWAII	HAW.	BR-F-050-1(7)	1988	5	75

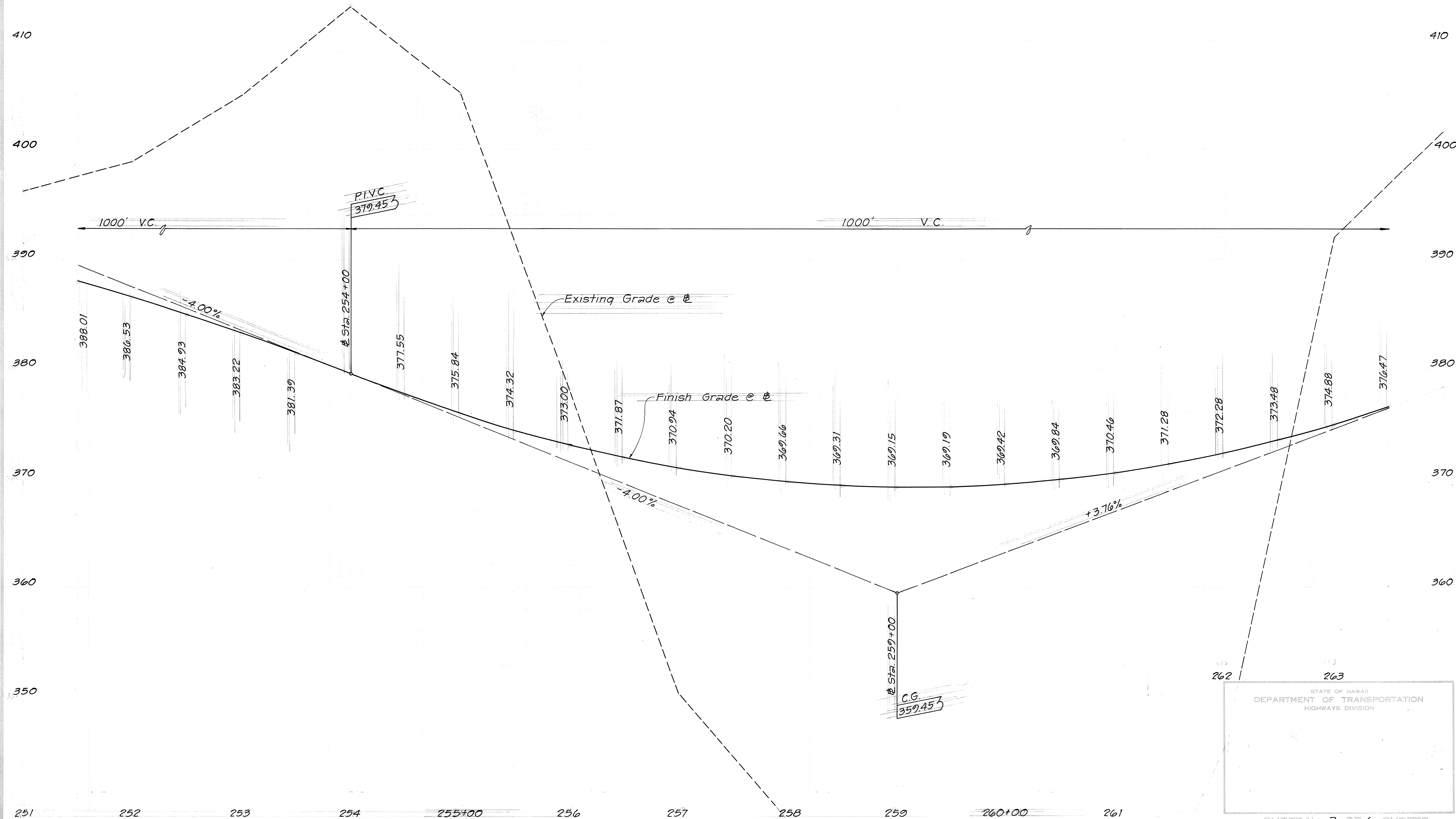


ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	QUANTITIES BY	
	CHECKED BY	

PROFILE - QUARRY RAMP
Scale: Horiz. 1" = 40'
Vert. 1" = 4'

PROFILE - QUARRY ACCESS ROAD
Scale: Horiz. 1" = 40'
Vert. 1" = 4'

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-F-250-1(7)	1988	6	75



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-F-050-1(7)	1988	7	75

CURVE DATA
 $\Delta = 17^\circ 52'$
 $R = 3000.00'$
 $T = 471.58'$
 $C = 931.71'$
 $L = 935.50'$
 $S_E = 0.05 \text{ Ft/Ft}$

Note: For estimated quantities of Standard Concrete Spillway see Plan sht. no. 22

Sta. 261+80 to Sta. 266+00
Construct Transverse Underdrain
Quantity:
6" Perforated Pipe 380.00 Lin. Ft.
6" Non-Perforated Pipe 54.00 Lin. Ft.

Sta. 266+90 Lt.
Begin Type 3 Guardrail with Type F flare
Quantity: 564.00 Lin. Ft.

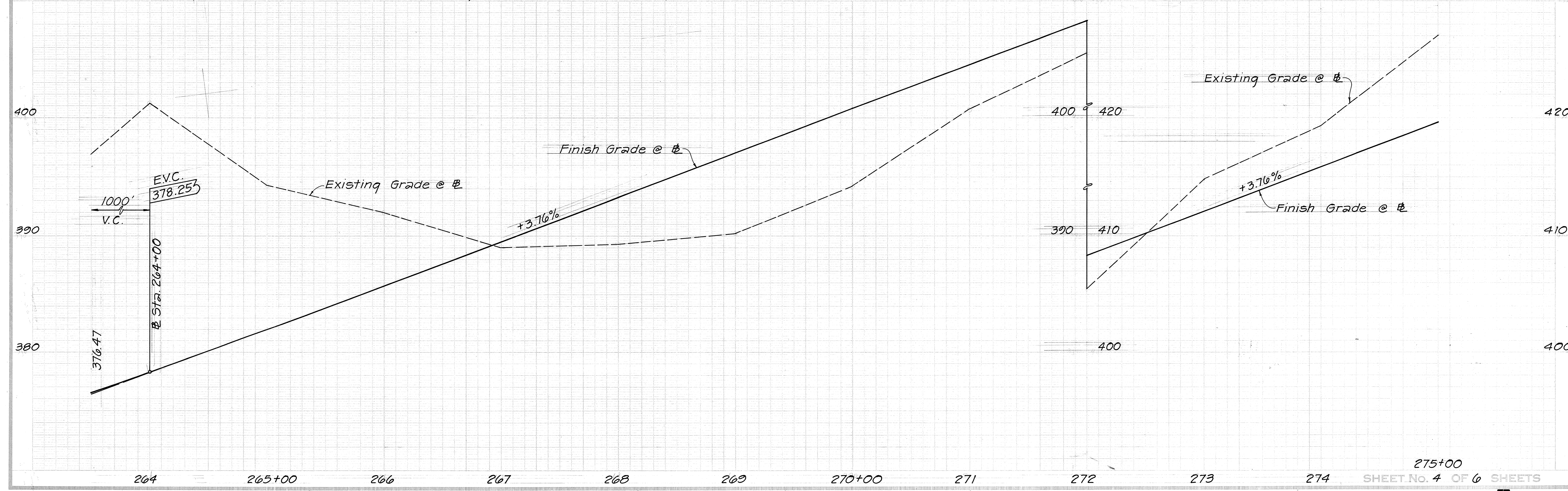
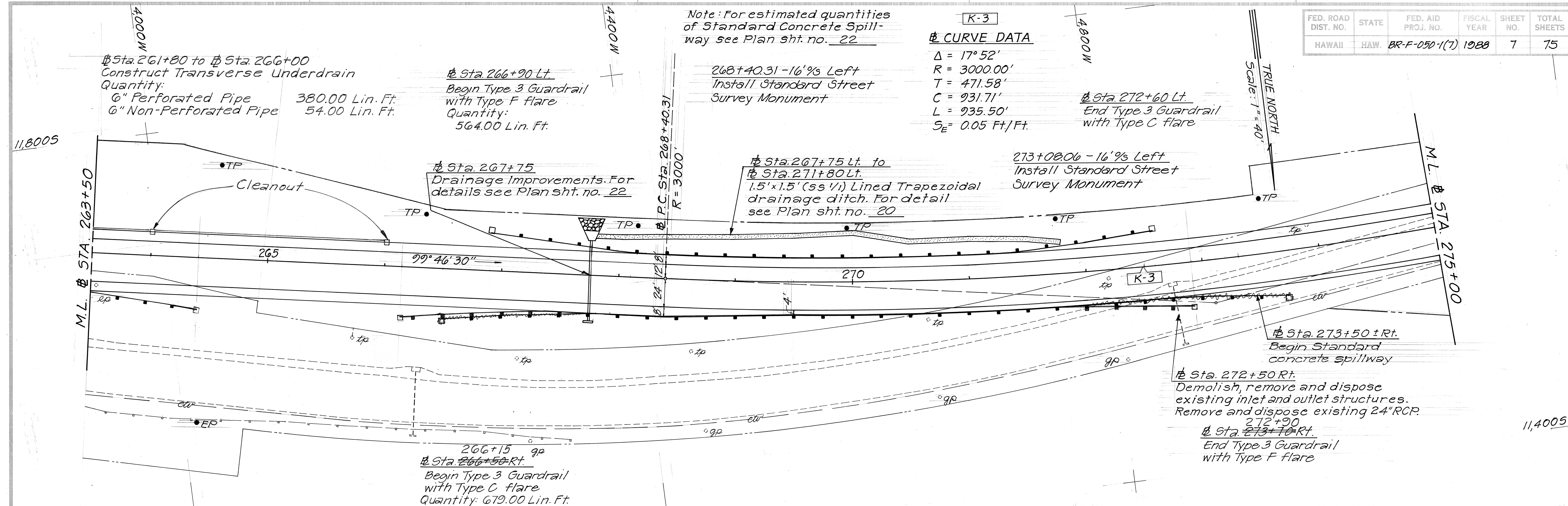
268+40.31 - 16' % Left
Install Standard Street Survey Monument

Sta. 272+60 Lt.
End Type 3 Guardrail with Type C flare

273+00.06 - 16' % Left
Install Standard Street Survey Monument

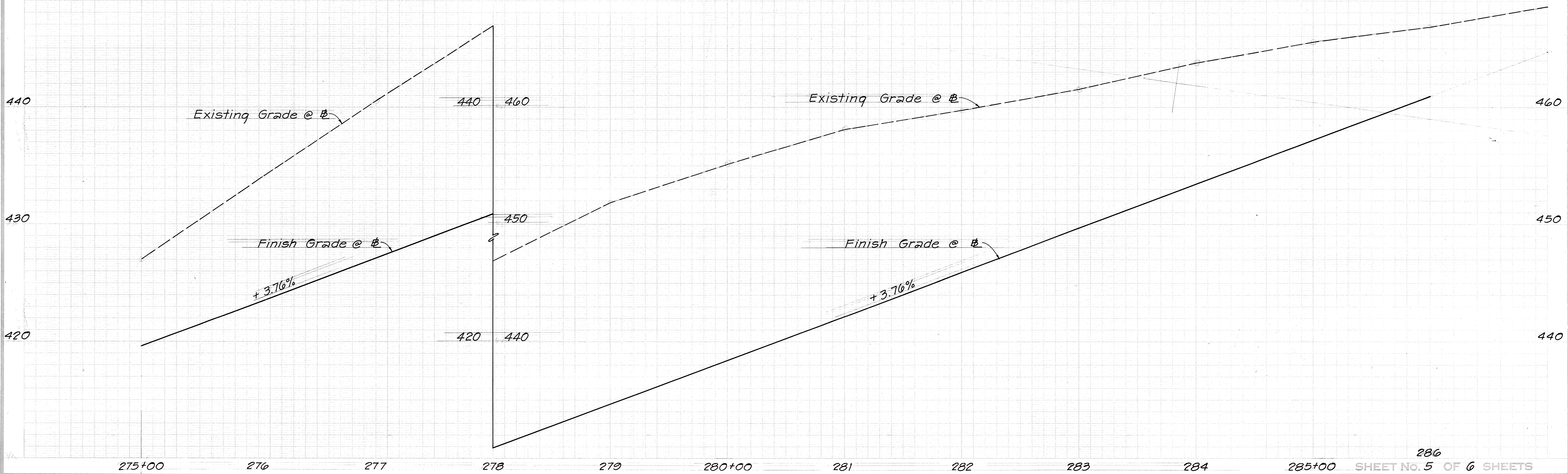
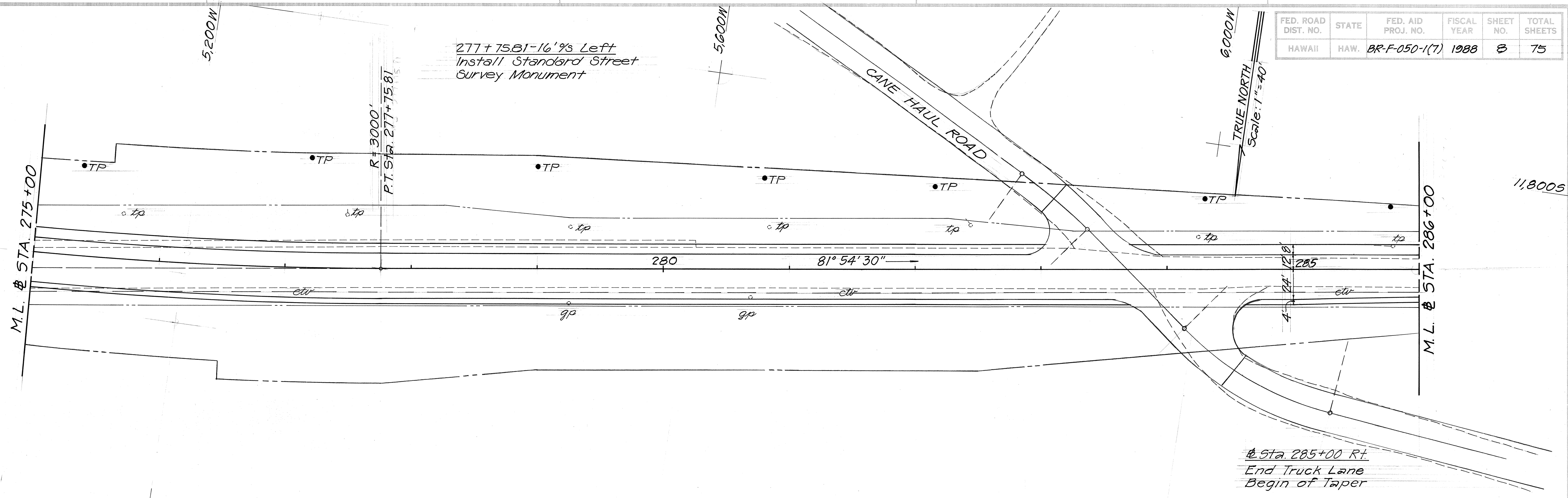
Sta. 267+75 Lt. to Sta. 271+80 Lt.
1.5' x 1.5' (ss 1/1) Lined Trapezoidal drainage ditch. For detail see Plan sht. no. 20

TRUE NORTH
Scale: 1" = 40'



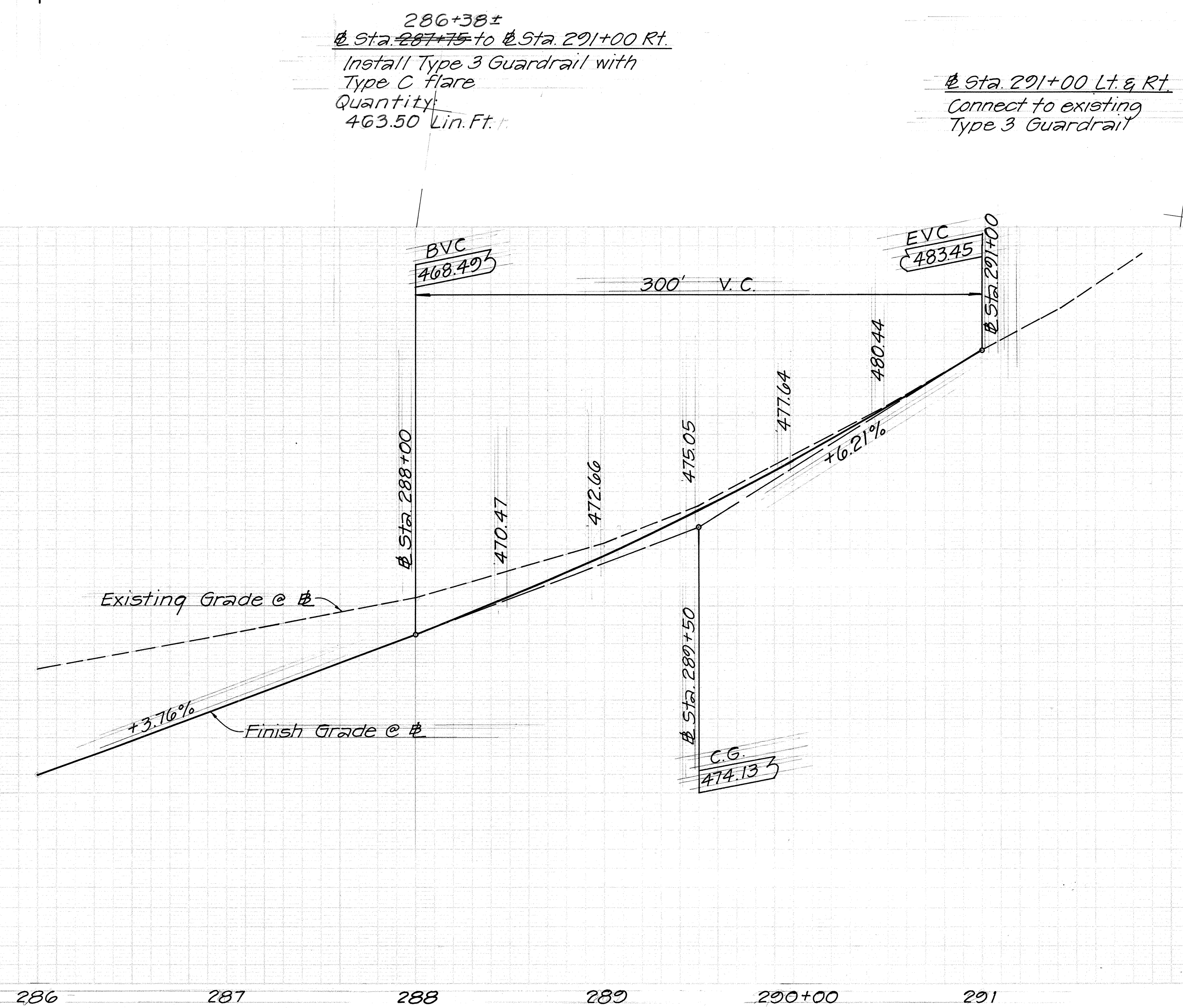
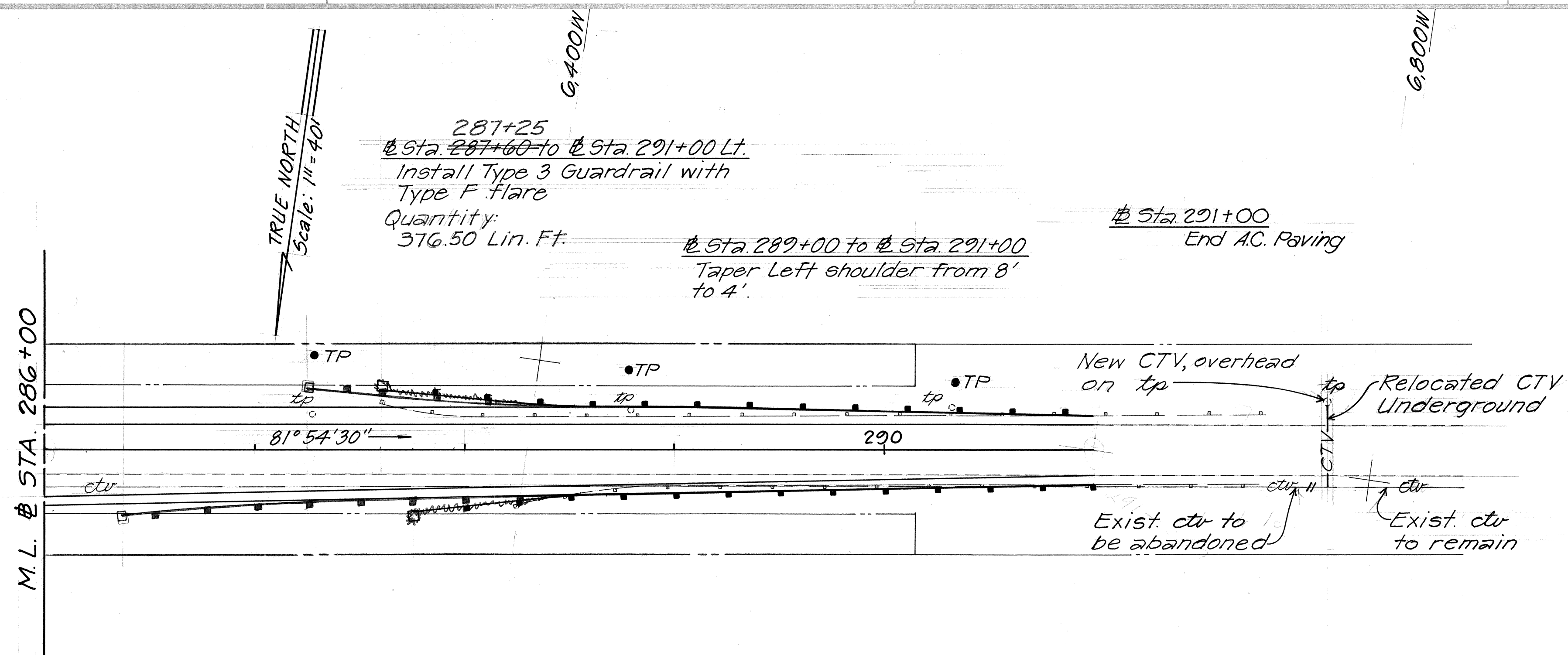
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NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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	CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-F-050-1(7)	1988	9	75

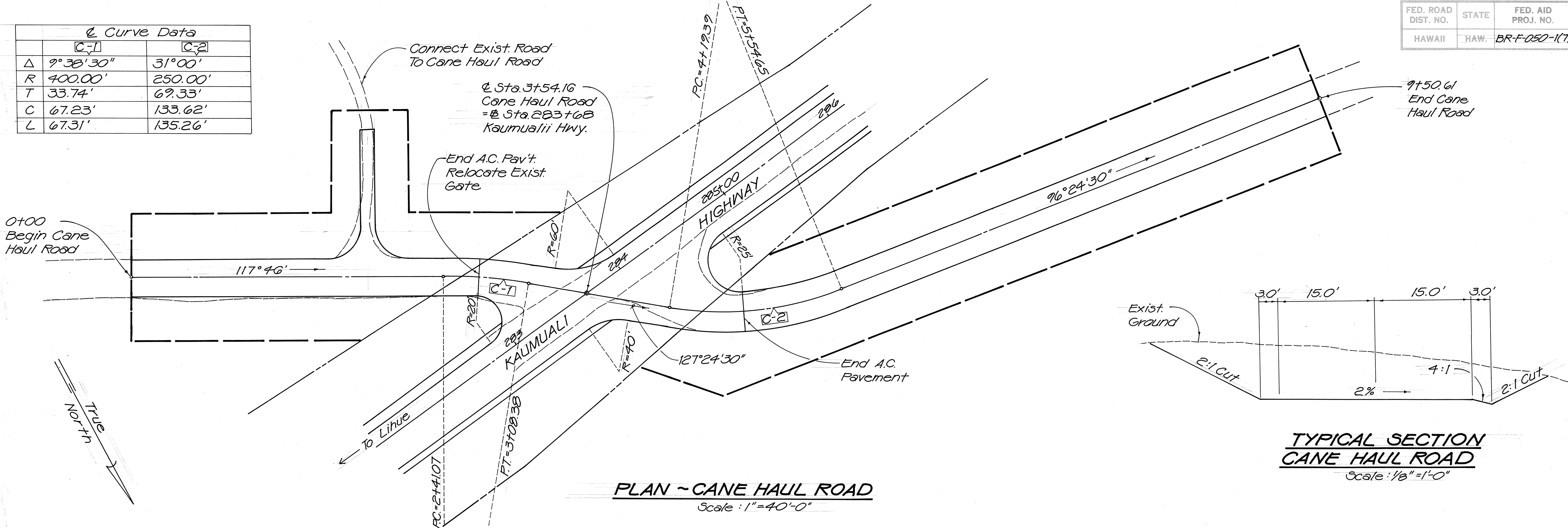


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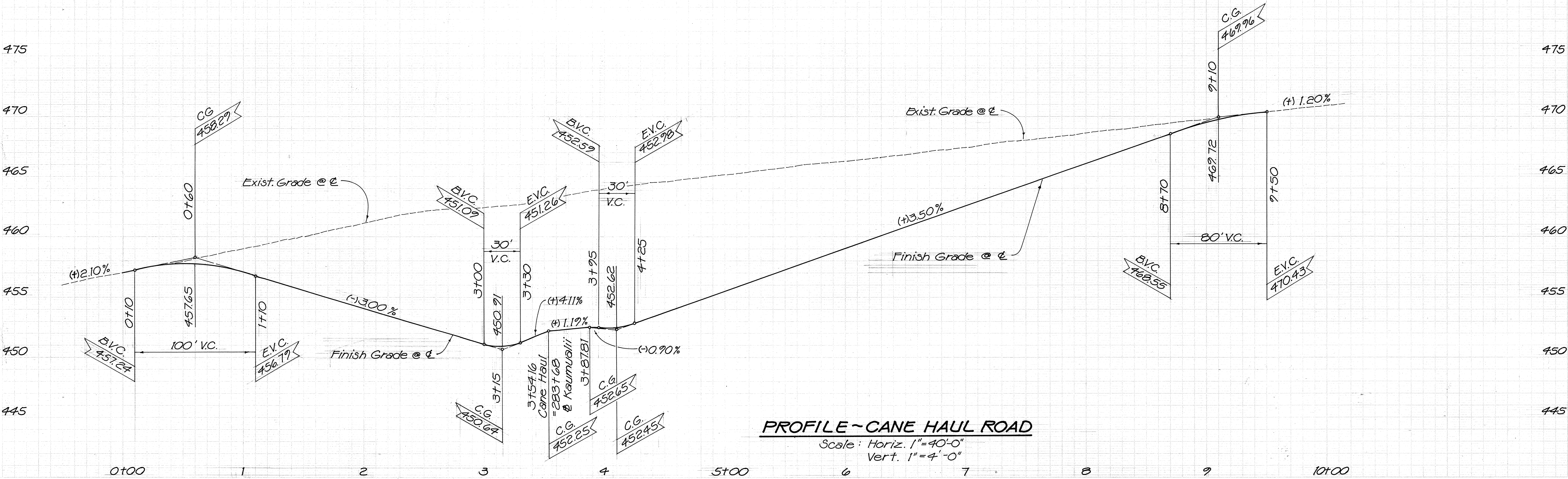
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NOTE BOOK	QUANTITIES BY	
	CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-F-050-1(7)	1988	10	75

Curve Data		
	C-1	C-2
Δ	9°38'30"	31°00'
R	400.00'	250.00'
T	33.74'	69.33'
C	67.23'	133.62'
L	67.31'	135.26'



**TYPICAL SECTION
CANE HAUL ROAD**
Scale: 1/8" = 1'-0"



PROFILE ~ CANE HAUL ROAD
Scale: Horiz. 1" = 40'-0"
Vert. 1" = 4'-0"