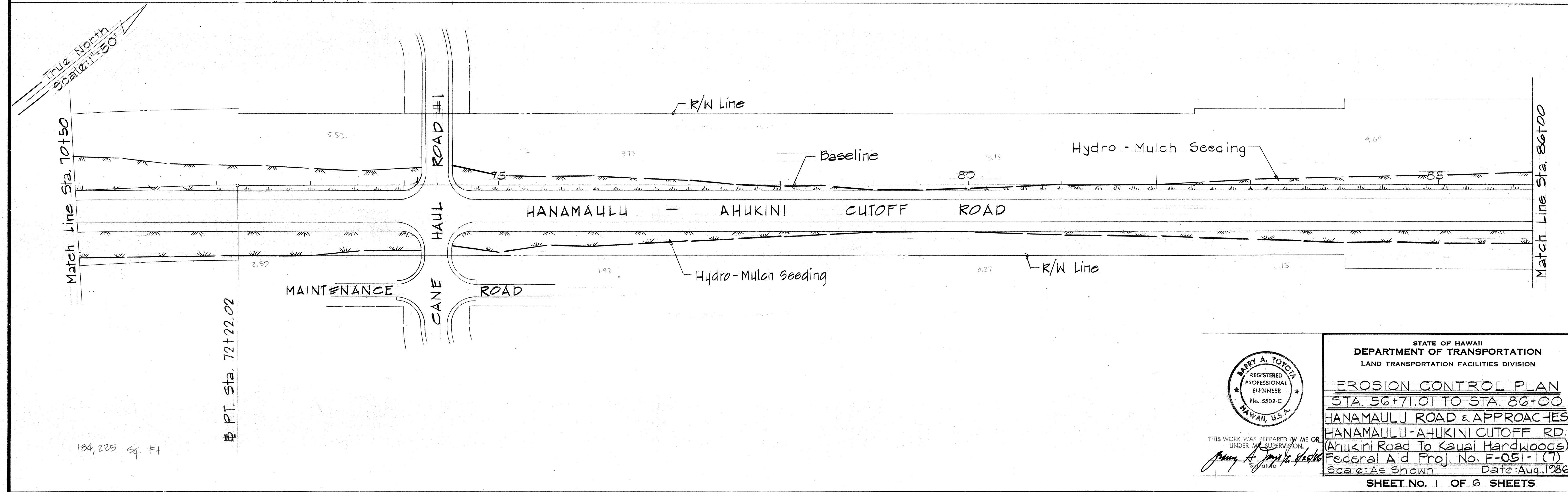


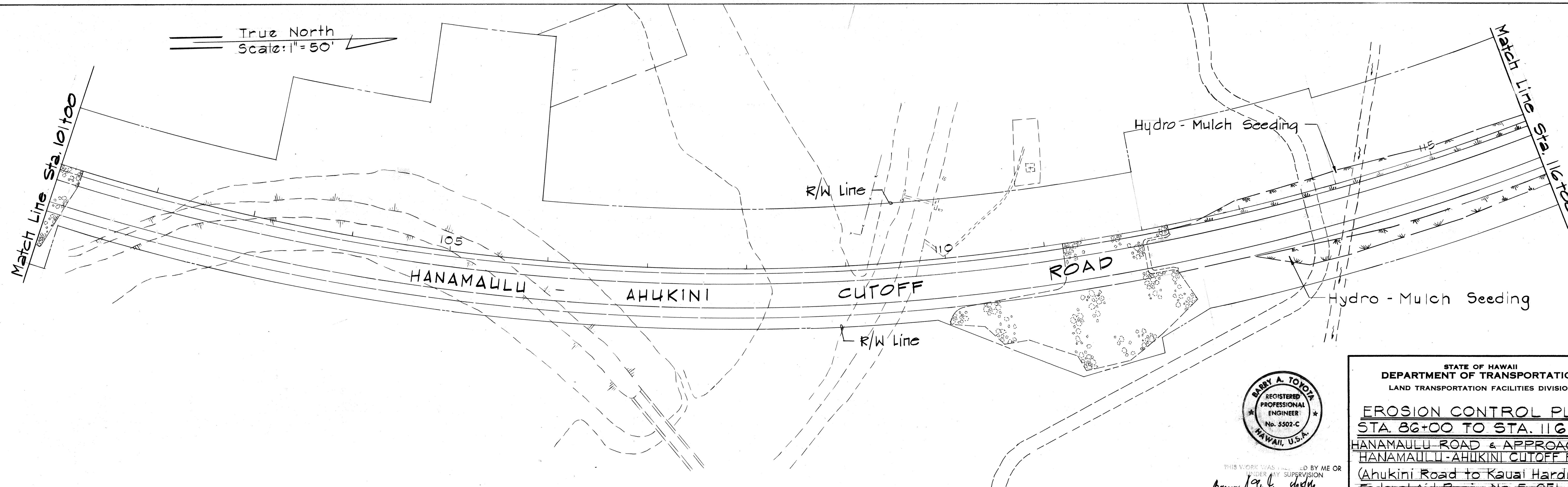
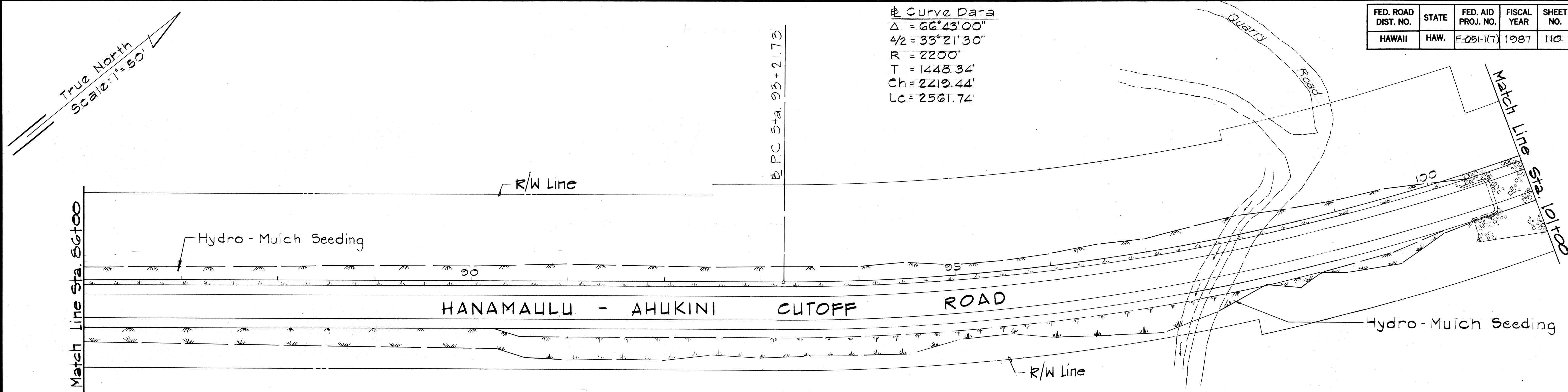
ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY _____	" _____
	TRACED BY _____	" _____
	DESIGNED BY _____	" _____
	QUANTITIES BY _____	" _____
No. _____	CHECKED BY _____	" _____



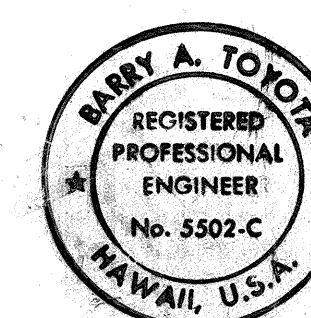
SHEET No. 1 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-051-1(7)	1987	110	164

Curve Data
 $\Delta = 66^{\circ}43'00''$
 $\Delta/2 = 33^{\circ}21'30''$
 $R = 2200'$
 $T = 1448.34'$
 $Ch = 2419.44'$
 $Lc = 2561.74'$



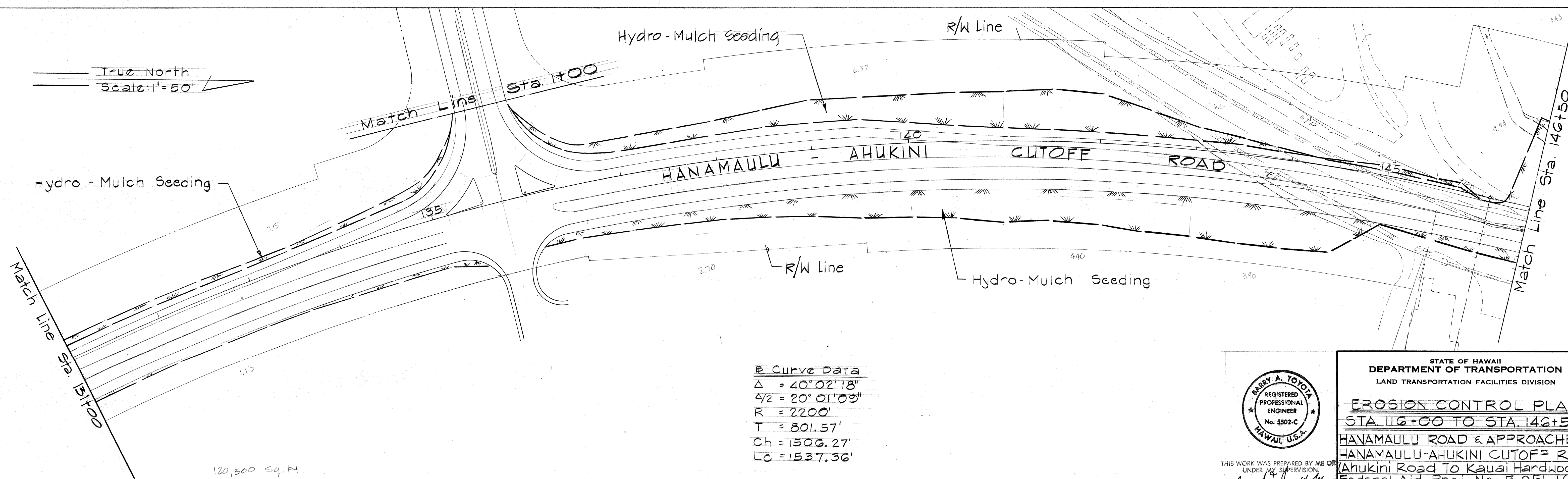
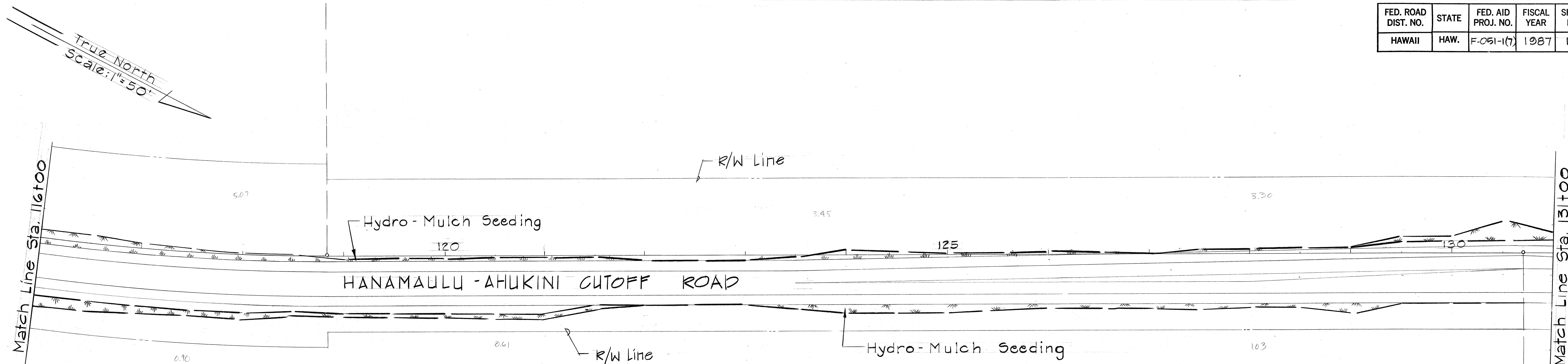
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
 Barry A. Toyota

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 LAND TRANSPORTATION FACILITIES DIVISION
EROSION CONTROL PLAN
STA. 86+00 TO STA. 116+00
HANAMAULU ROAD & APPROACHES
HANAMAULU-AHUKINI CUTOFF ROAD
 (Ahukini Road to Kauai Hardwoods)
 Federal Aid Proj. No. F-051-1 (7)
 Scale: As Shown Date: Aug. 1986
SHEET No. 2 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-051-1(7)	1987	111	164

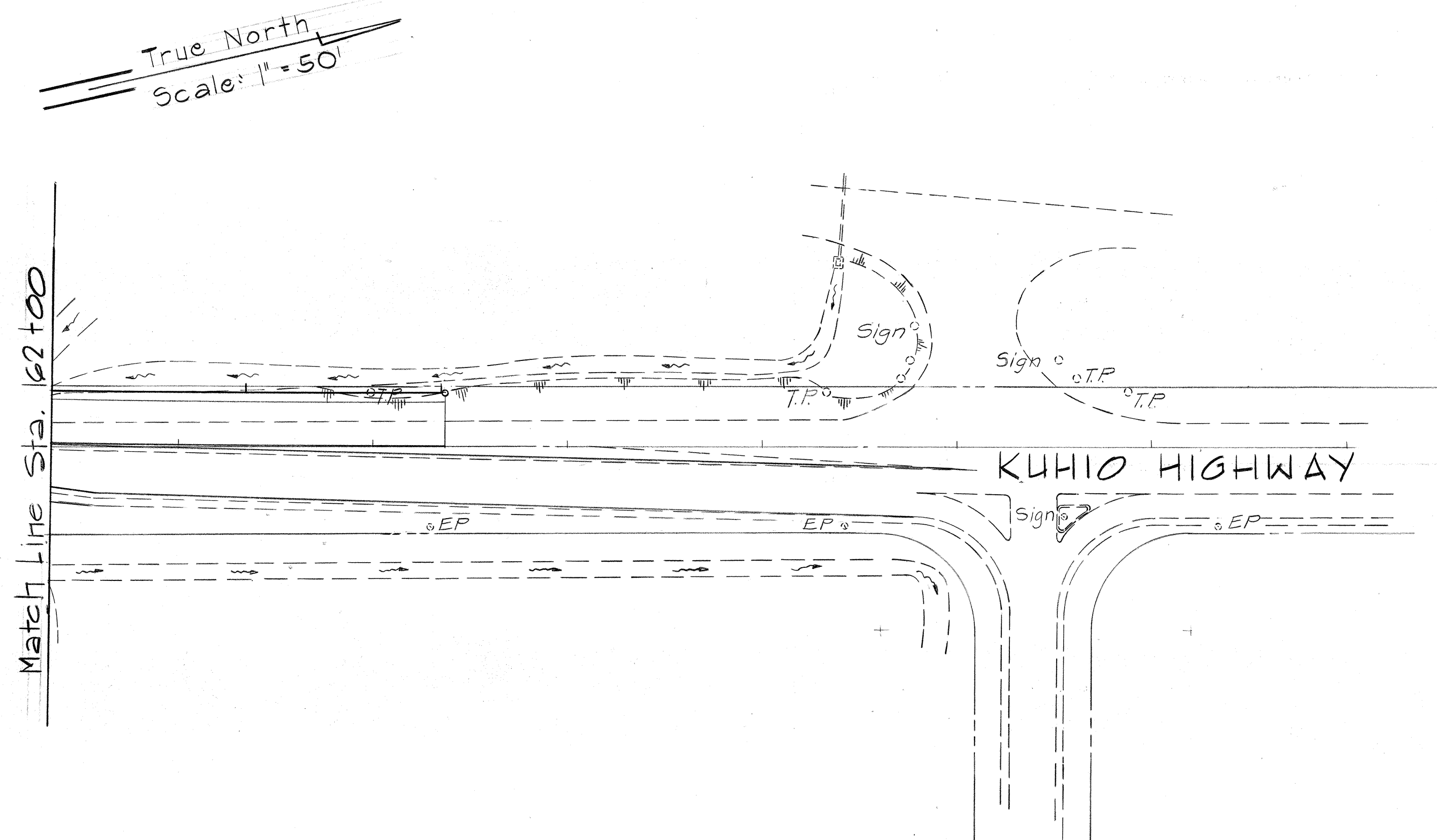
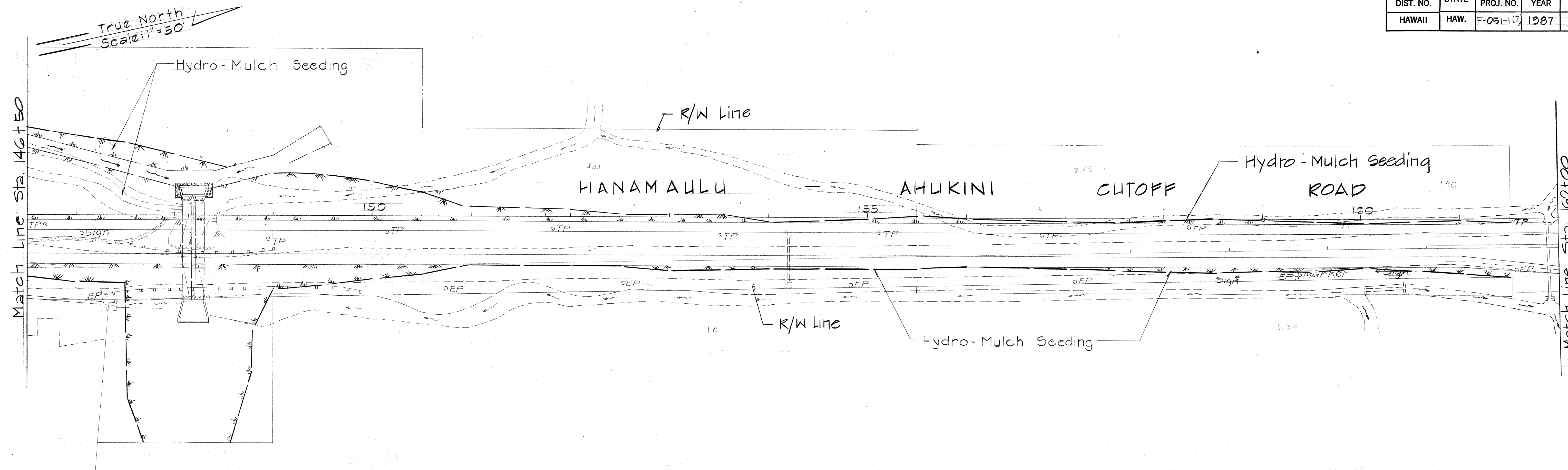


ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
No.	

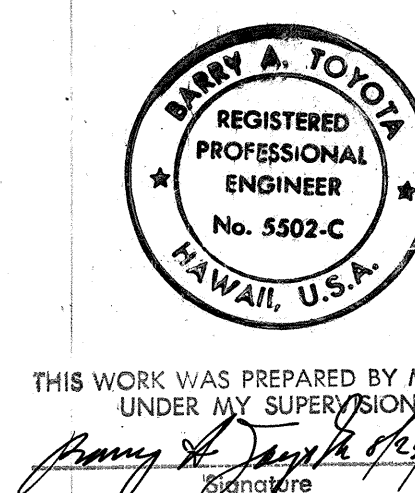
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

EROSION CONTROL PLAN
STA. 116+00 TO STA. 146+50
HANAMAULU ROAD & APPROACHES
HANAMAULU-AHUKINI CUTOFF RD.
(Ahukini Road To Kauai Hardwoods)
Federal Aid Proj. No. F-051-1(7)
Scale: As Shown Date: Aug. 1986

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-051-1(7)	1987	112	164



ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

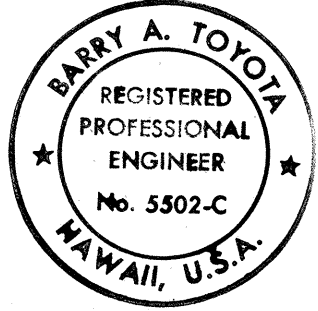
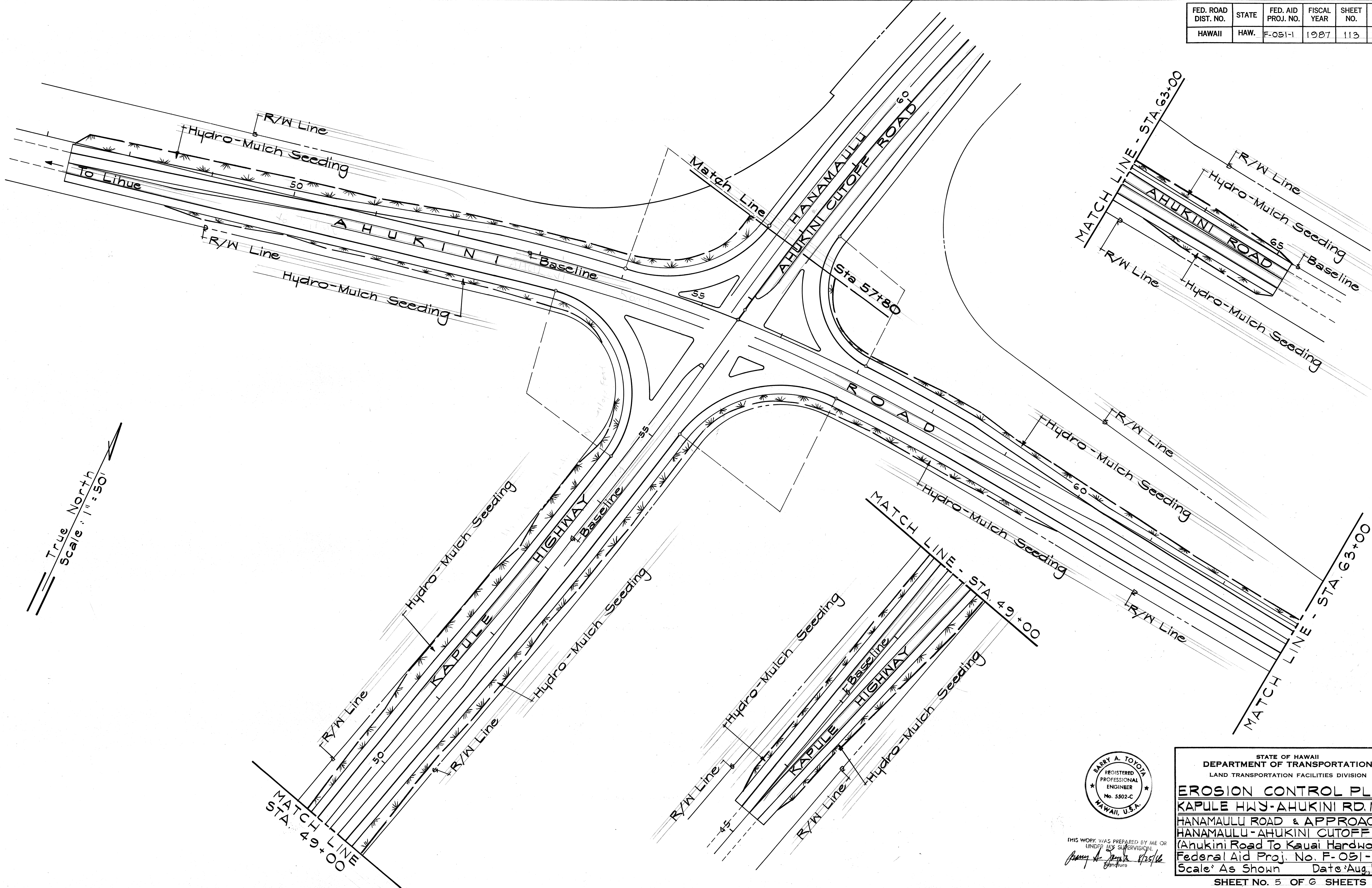
EROSION CONTROL PLAN
STA. 146+50 TO STA. 162+51.25
HANAMAULU ROAD & APPROACHES
HANAMAULU-AHUKINI CUTOFF RD.
(Ahukini Road To Kauai Hardwoods)
Federal Aid Proj. No. F-051-1(7)
Scale: As Shown Date: Aug. 1986

SHEET No. 4 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-051-1	1987	113	164

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

True North
Scale 1" = 50'

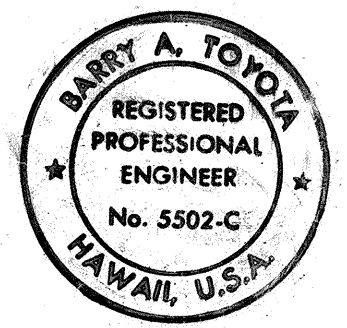
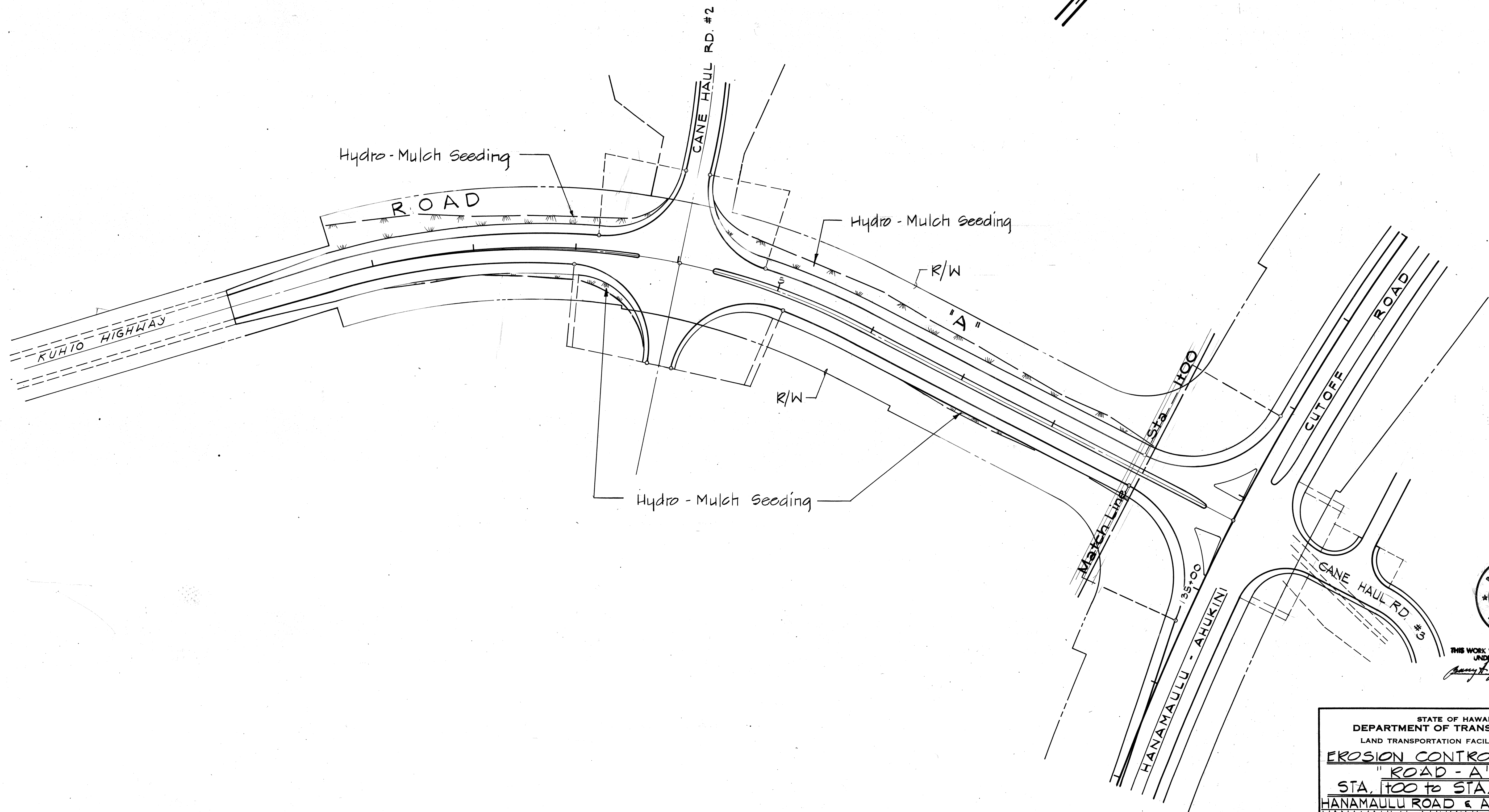


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Barry A. Toyota 8/25/86
 Signature

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 LAND TRANSPORTATION FACILITIES DIVISION
EROSION CONTROL PLAN
 KAPULE HWY-AHUKINI RD. INT.
 HANAMAULU ROAD & APPROACHES
 HANAMAULU-AHUKINI CUTOFF RD.
 (Ahukini Road To Kauai Hardwoods)
 Federal Aid Proj. No. F-051-1(7)
 Scale As Shown Date Aug. 1986

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-051-1(7)	1987	114	164

True North
Scale: 1" = 50'



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Barry A. Tofa 8/25/86
Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
EROSION CONTROL PLAN
"ROAD - A"
STA. 100 to STA. 9+40.11
HANAMAULU ROAD & APPROACHES
HANAMAULU-AHUKINI CUTOFF RD.
(Ahukini Road To Kauai Hardwoods)
Federal Aid Proj. No. F-051-1(7)
Scale: As Shown Date: Aug, 1986
SHEET NO. 6 OF 6 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	QUANTITIES BY	
	CHECKED BY	