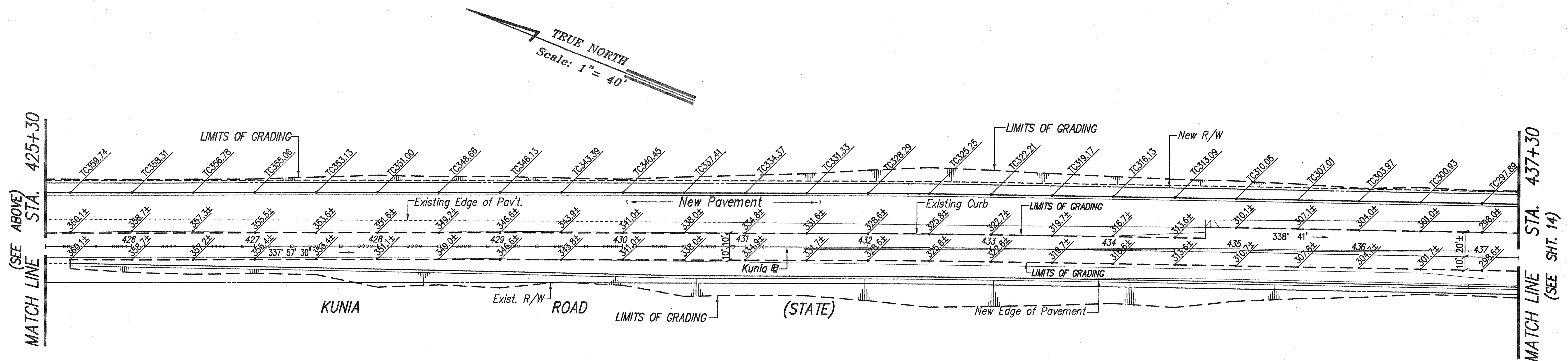
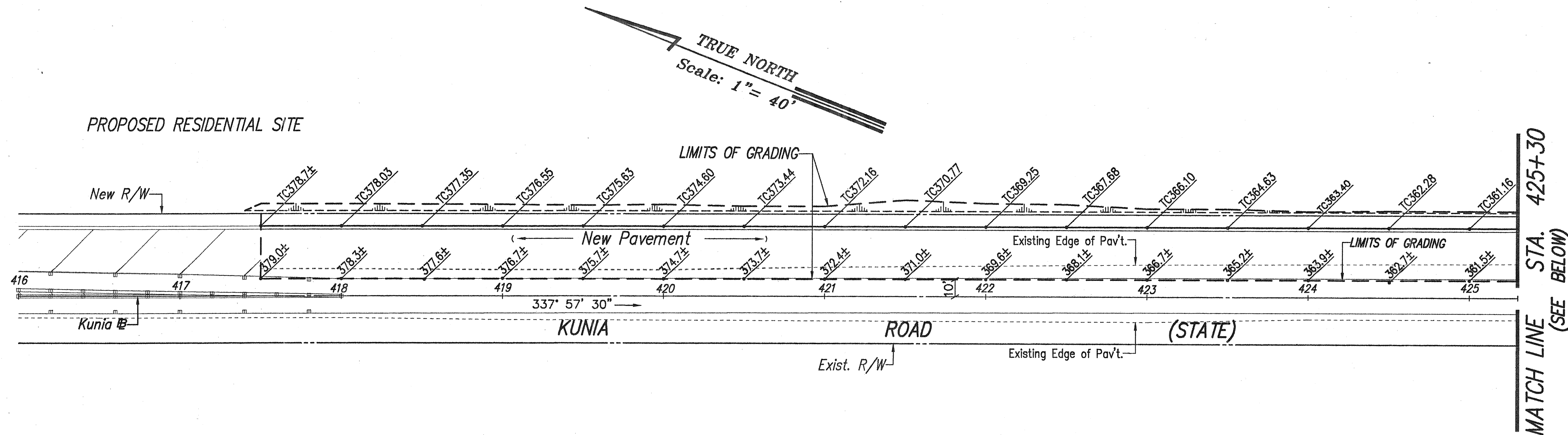


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0750(10)	1999	13	97



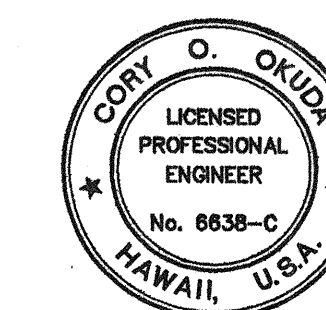
NOTE:
CONTRACTOR SHALL VERIFY
EXISTING PAVEMENT GRADES
PRIOR TO CONSTRUCTION OF
CURB, GUTTER AND SIDEWALK.

ORIGINAL PLAN	DATE
DESIGNED BY	
CHECKED BY	
NOTED BY	
DATE	

APPROVED:

DATE:

M. 72
CHIEF, CIVIL ENGINEERING BRANCH, DPP 5/17/99



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

C. O. OKUDA
Park Engineering, Inc.
dba PARK ENGINEERING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

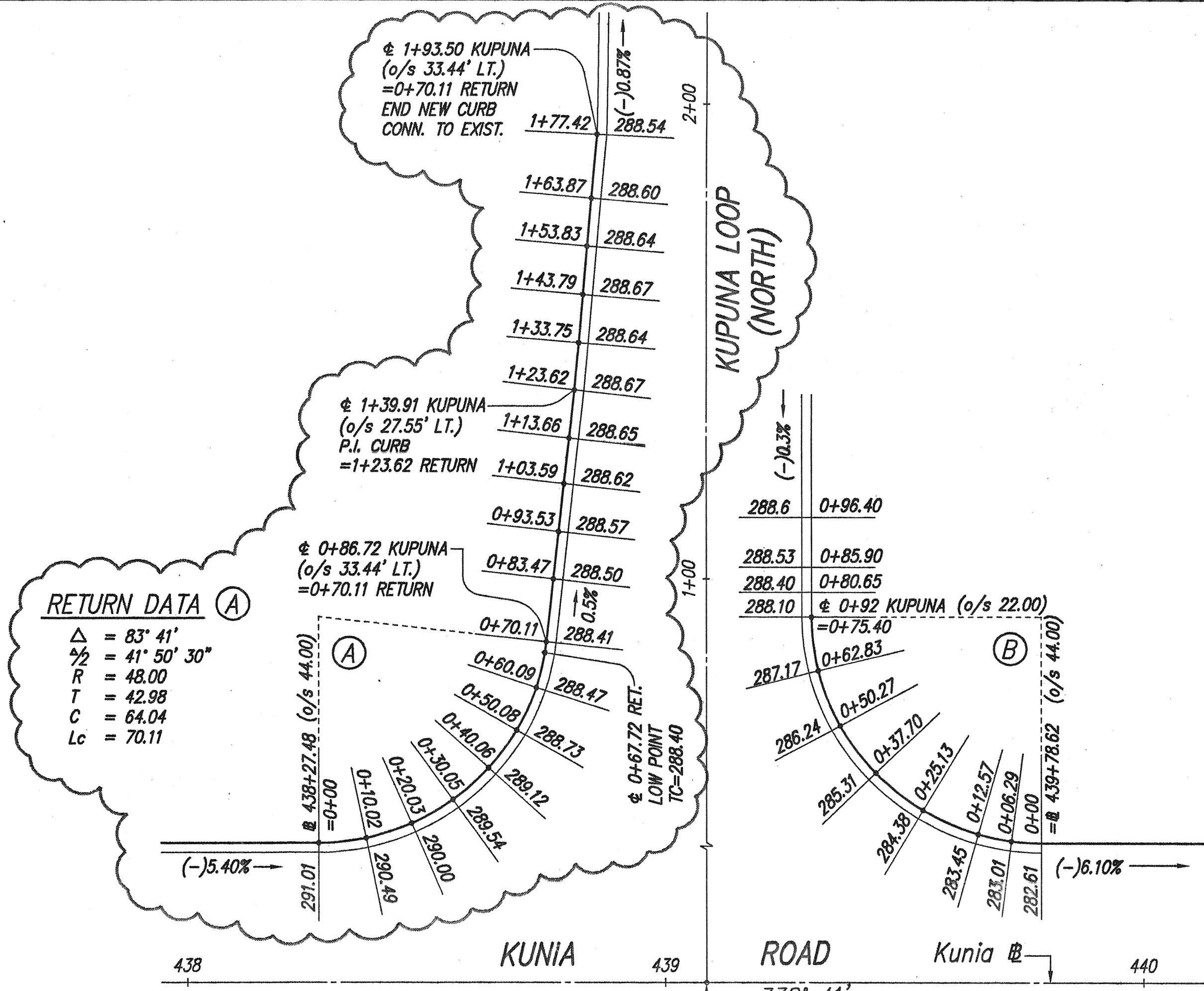
FINISH GRADES
KUNIA ROAD

KUNIA ROAD WIDENING; AND
H-1 KUNIA I.C. RAMP KO WIDENING
F.A.I. PROJECT NO. IM-STP-0750(10)

SCALE: AS NOTED DATE: APRIL 1999

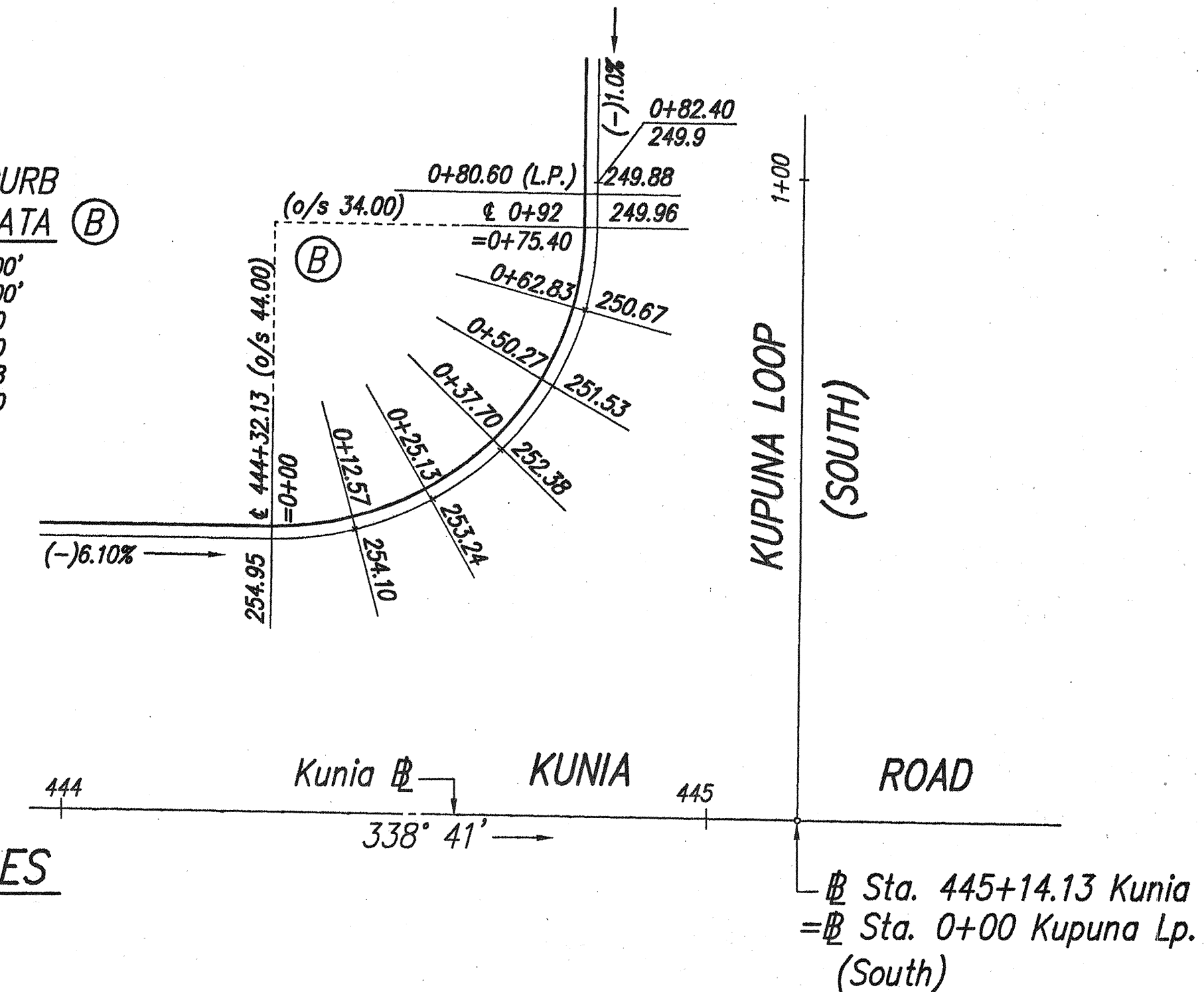
SHEET No. 1 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0750(10)	1999	14	97

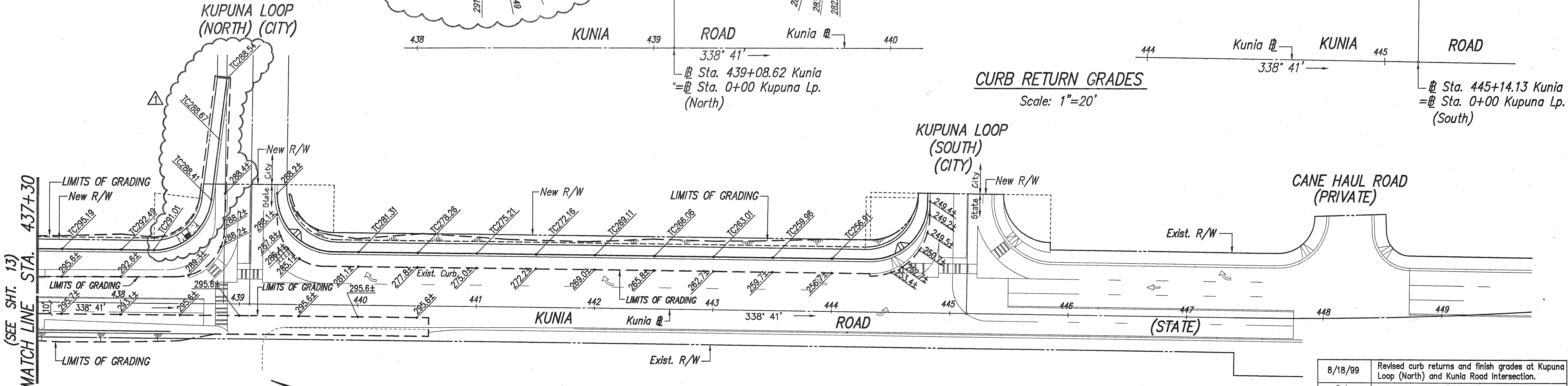


TYPICAL CURB RETURN DATA (B)

$\Delta = 90' 00''$
 $\frac{1}{2}\Delta = 45' 00''$
 $R = 48.00$
 $T = 48.00$
 $C = 67.88$
 $Lc = 75.40$

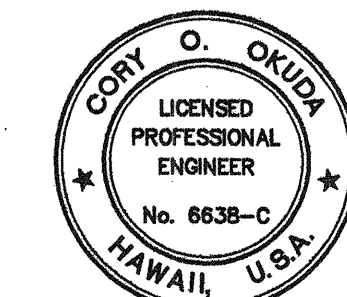


CURB RETURN GRADES
Scale: 1"=20'



TRUE NORTH
Scale: 1"=40'

APPROVED: ** SIGNATURE HAS BEEN DIGITIZED
DATE: 5/17/99
CHIEF, CIVIL ENGINEERING BRANCH, DPP



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Cory O. Okuda
ParEn, Inc.
dba PARK ENGINEERING

NO.	DATE	DESCRIPTION	ENGR.	C.E.B.	APPROVED
1	8/04/99	REVISED CURB RETURN AND FINISH GRADES AT KUPUNA LOOP (NORTH) AND KUNIA ROAD INTERSECTION.	G.I.	8/10/99	mt
2					
3					
4					
5					
6					
7					
8					
9					
10					

8/18/99
Revised curb returns and finish grades at Kupuna Loop (North) and Kunia Road Intersection.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**FINISH GRADES
KUNIA ROAD**

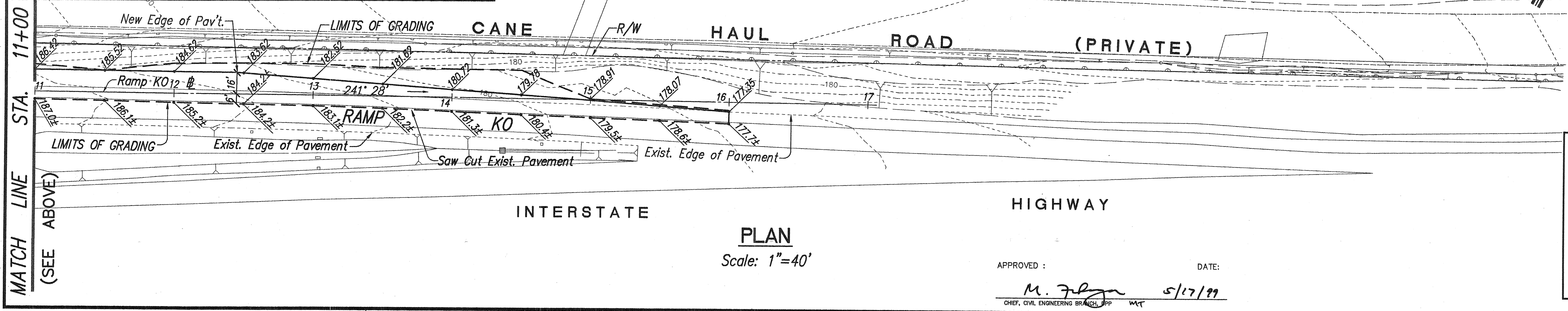
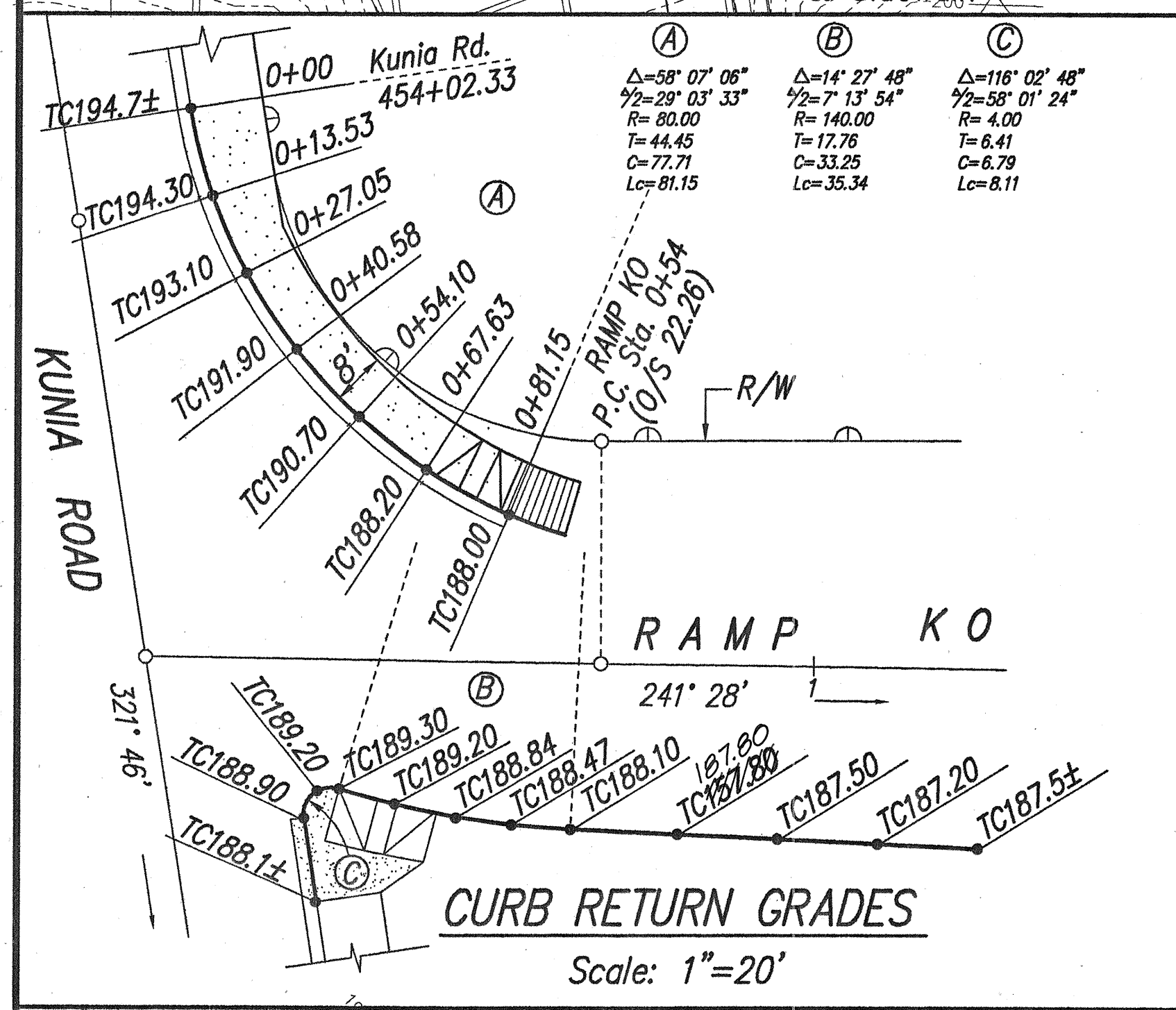
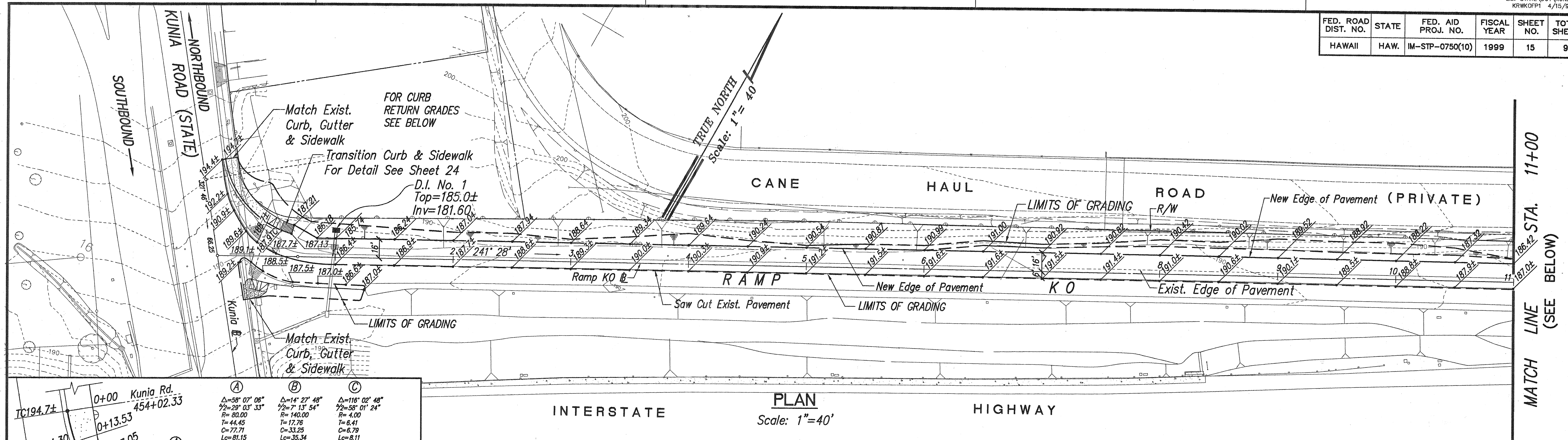
**KUNIA ROAD WIDENING: AND
H-1 KUNIA I.C. RAMP KO WIDENING
F.A.I. PROJECT NO. IM-STP-0750(10)**

SCALE: AS NOTED
DATE: APRIL 1999

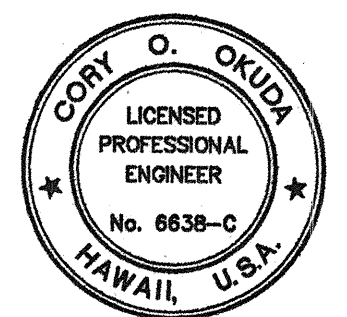
SHEET No. 2 OF 3 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0750(10)	1999	15	97



Note:
Contractor shall verify existing pavement grades prior to construction of pavement widening



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Cory O. Okuda
FOR THE
d/b/a PARK ENGINEERING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

FINISH GRADES
RAMP KO
STA. 0+00 TO 16+00

KUNIA ROAD WIDENING; AND
H-1, KUNIA I.C., RAMP KO WIDENING
F.A.I. PROJECT NO. IM-STP-0750(10)

SCALE: AS NOTED DATE: APRIL 1999

SHEET No. 3 OF 3 SHEETS

SURVEY PLANNED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

APPROVED : *M. F. [Signature]* 5/17/99
CHIEF, CIVIL ENGINEERING BRANCH, JPP