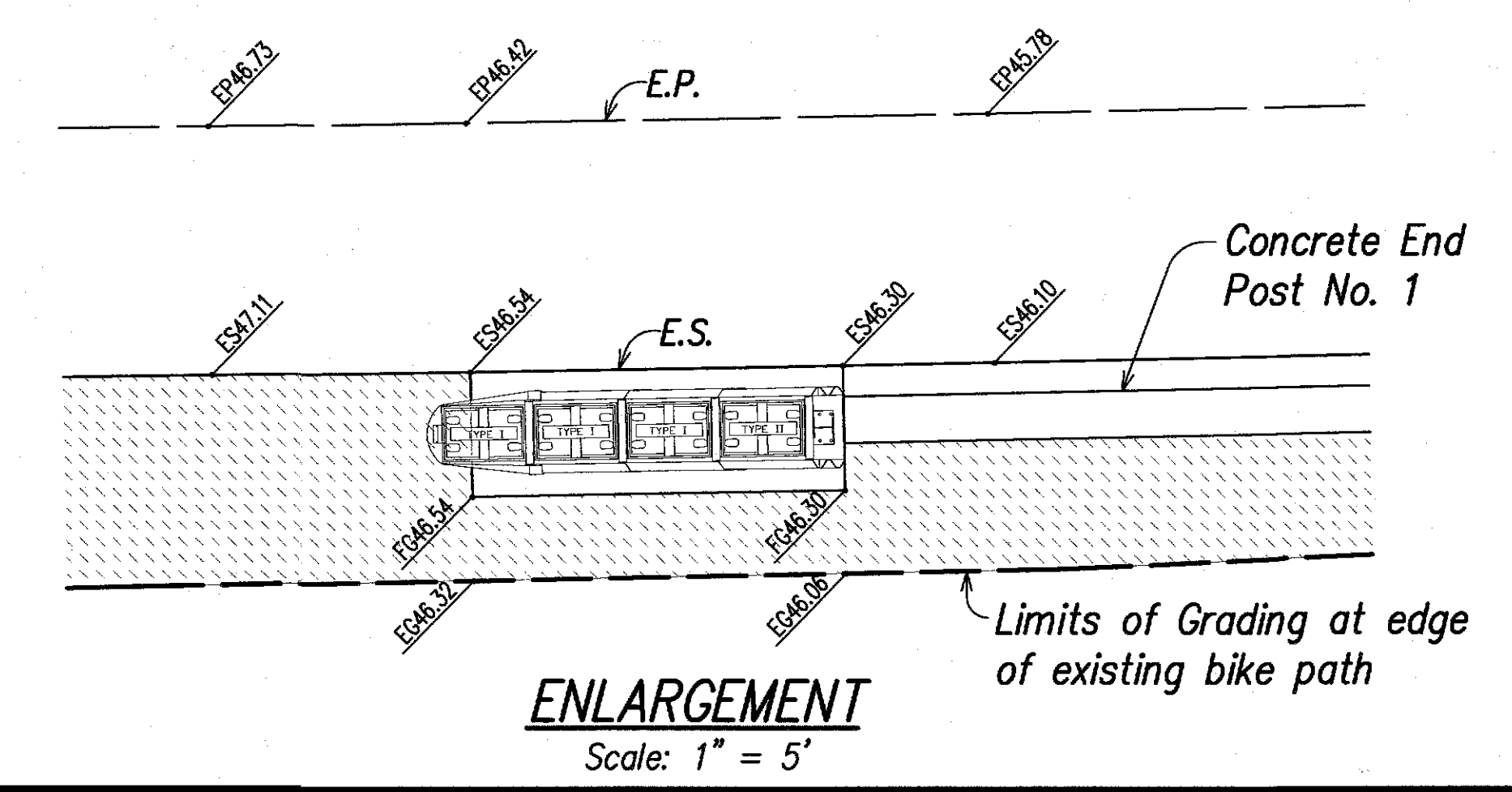
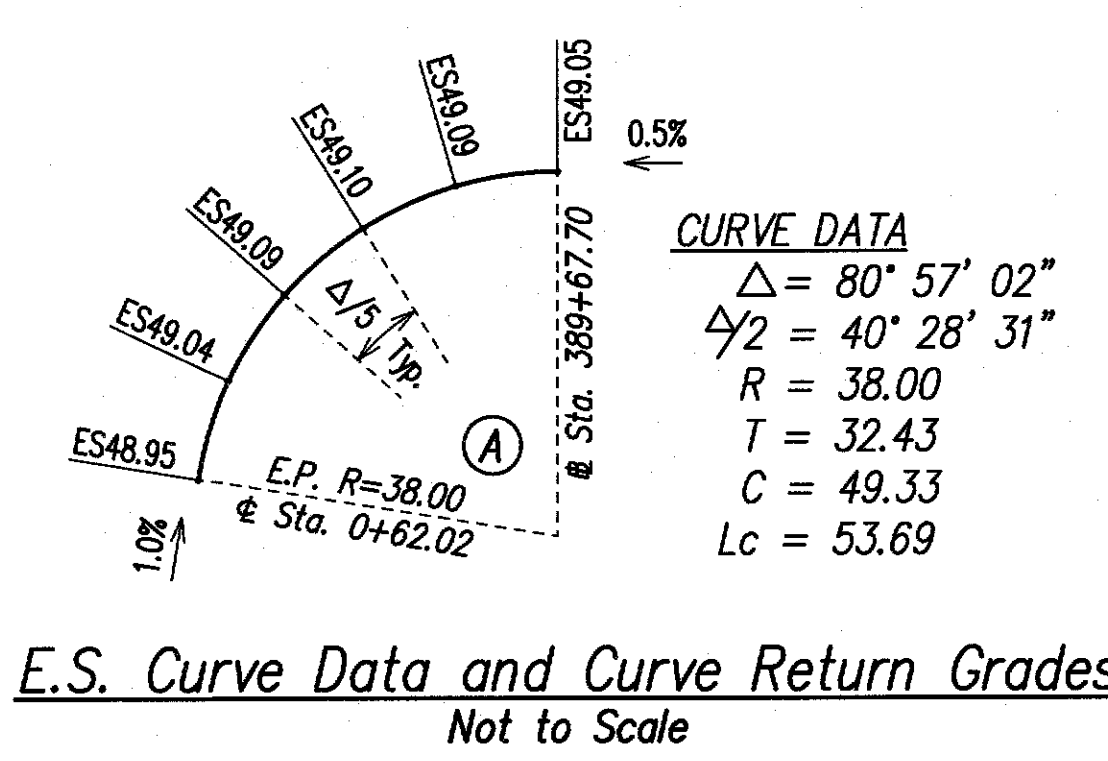
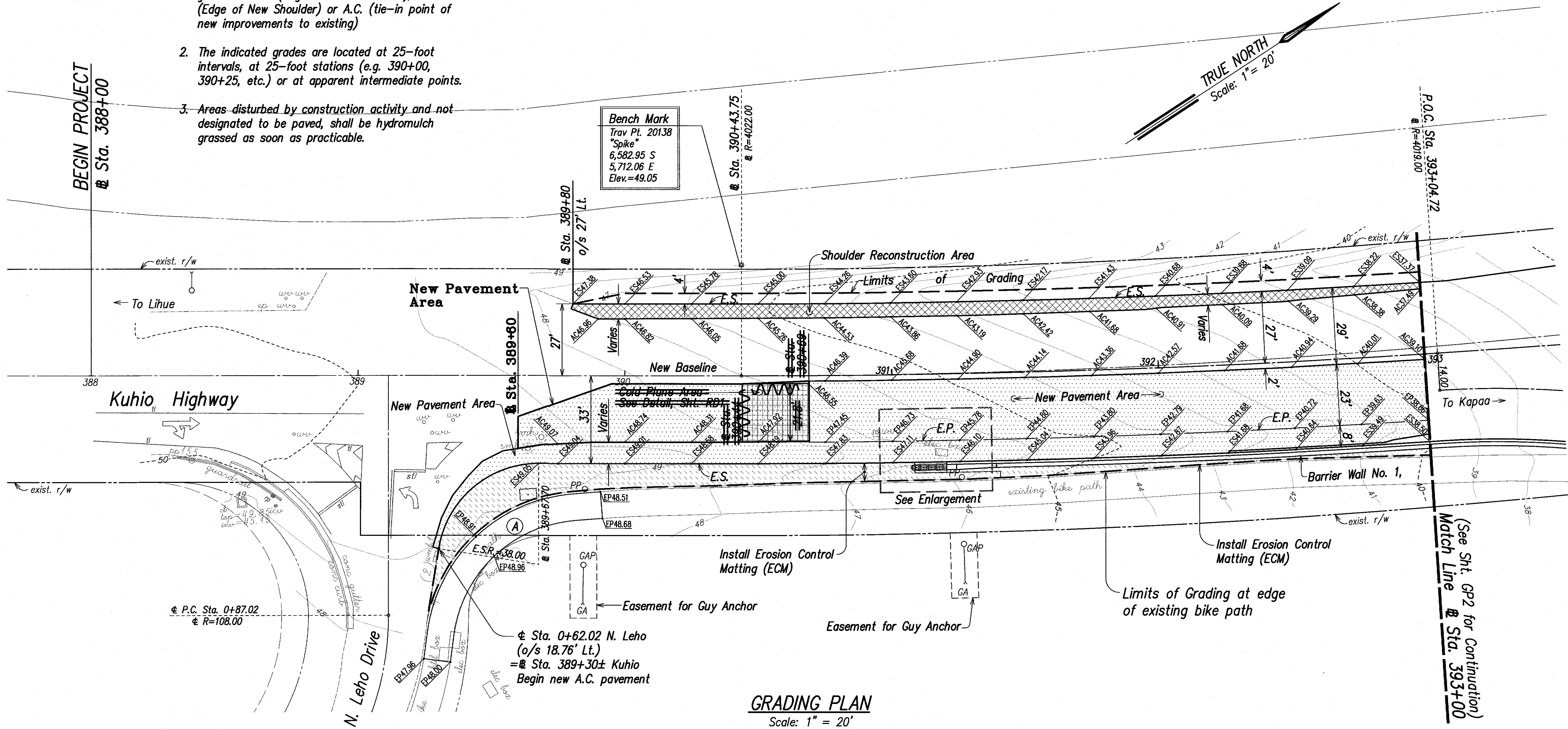


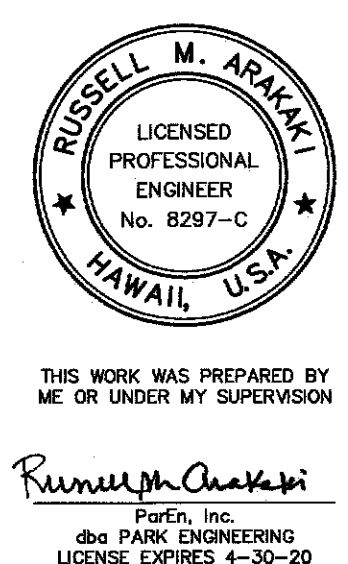
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-056-1(51)	2008	46	284

Notes:

- The indicated grades are finish top of pavement grades at E.P. (Edge of New Pavement), E.S. (Edge of New Shoulder) or A.C. (tie-in point of new improvements to existing)
- The indicated grades are located at 25-foot intervals, at 25-foot stations (e.g. 390+00, 390+25, etc.) or at apparent intermediate points.
- Areas disturbed by construction activity and not designated to be paved, shall be hydromulch grassed as soon as practicable.



LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
	Text for as-built posting



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

GRADING PLAN

KUHIO HIGHWAY, SHORT TERM IMPROVEMENTS
 Wailua Cane Haul Bridge Widening
 Fed. Aid Project No. BR-056-1(51)
 Scale: As Noted Date: MAY 2008

SHEET No. GP1 OF GP4 SHEETS

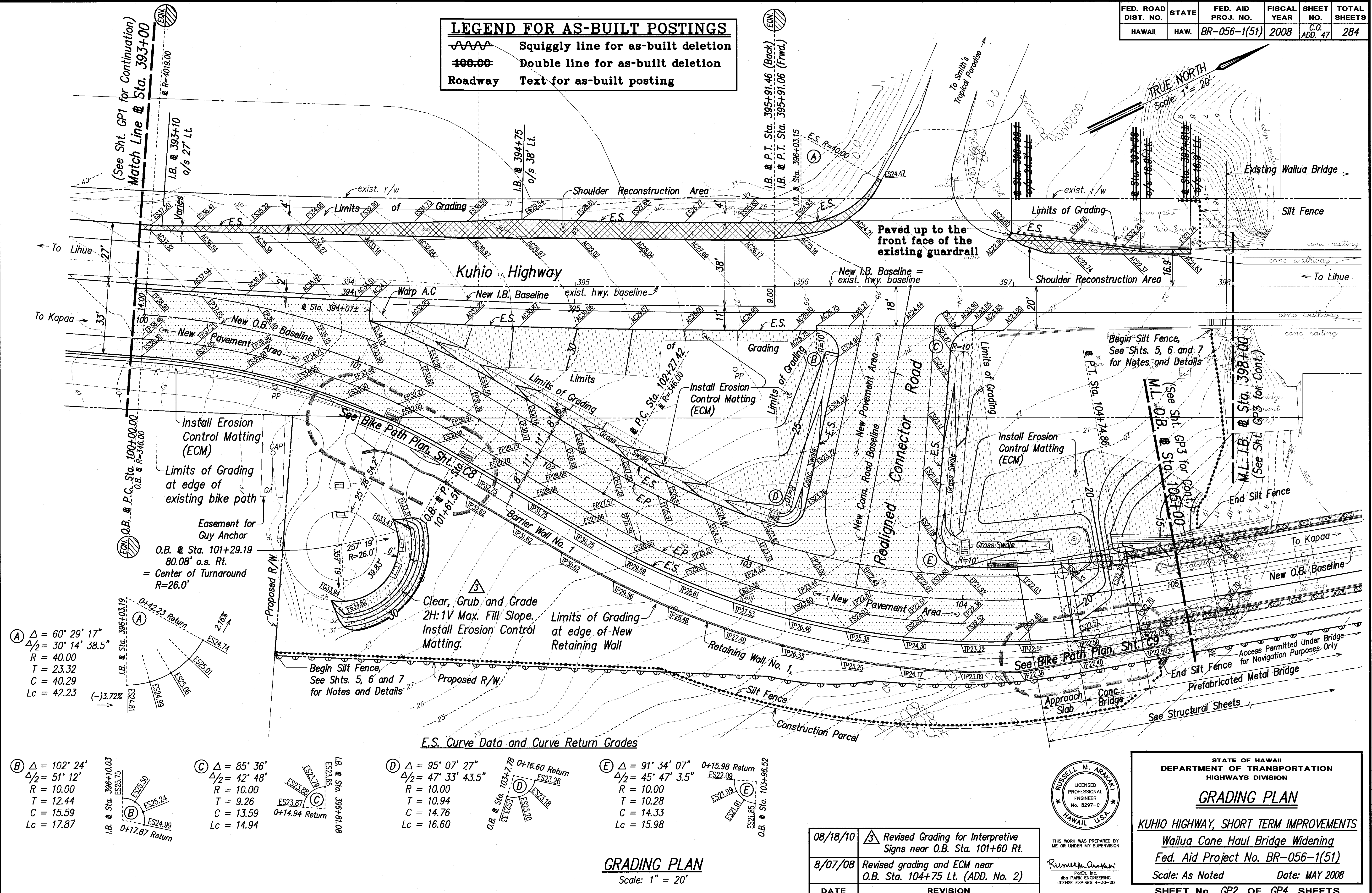
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-056-1(51)	2008	C.O. ADD. 47	284

LEGEND FOR AS-BUILT POSTINGS

~~~~~ Squiggly line for as-built deletion

== Double line for as-built deletion

Roadway Text for as-built posting



**A**  $\Delta = 60^\circ 29' 17''$   
 $\Delta/2 = 30^\circ 14' 38.5''$   
 $R = 40.00$   
 $T = 23.32$   
 $C = 40.29$   
 $Lc = 42.23$

**B**  $\Delta = 102^\circ 24'$   
 $\Delta/2 = 51^\circ 12'$   
 $R = 10.00$   
 $T = 12.44$   
 $C = 15.59$   
 $Lc = 17.87$

**C**  $\Delta = 85^\circ 36'$   
 $\Delta/2 = 42^\circ 48'$   
 $R = 10.00$   
 $T = 9.26$   
 $C = 13.59$   
 $Lc = 14.94$

**D**  $\Delta = 95^\circ 07' 27''$   
 $\Delta/2 = 47^\circ 33' 43.5''$   
 $R = 10.00$   
 $T = 10.94$   
 $C = 14.76$   
 $Lc = 16.60$

**E**  $\Delta = 91^\circ 34' 07''$   
 $\Delta/2 = 45^\circ 47' 3.5''$   
 $R = 10.00$   
 $T = 10.28$   
 $C = 14.33$   
 $Lc = 15.98$

**GRADING PLAN**  
 Scale: 1" = 20'

| DATE     | REVISION                                                         |
|----------|------------------------------------------------------------------|
| 08/18/10 | Revised Grading for Interpretive Signs near O.B. Sta. 101+60 Rt. |
| 8/07/08  | Revised grading and ECM near O.B. Sta. 104+75 Lt. (ADD. No. 2)   |



STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**GRADING PLAN**

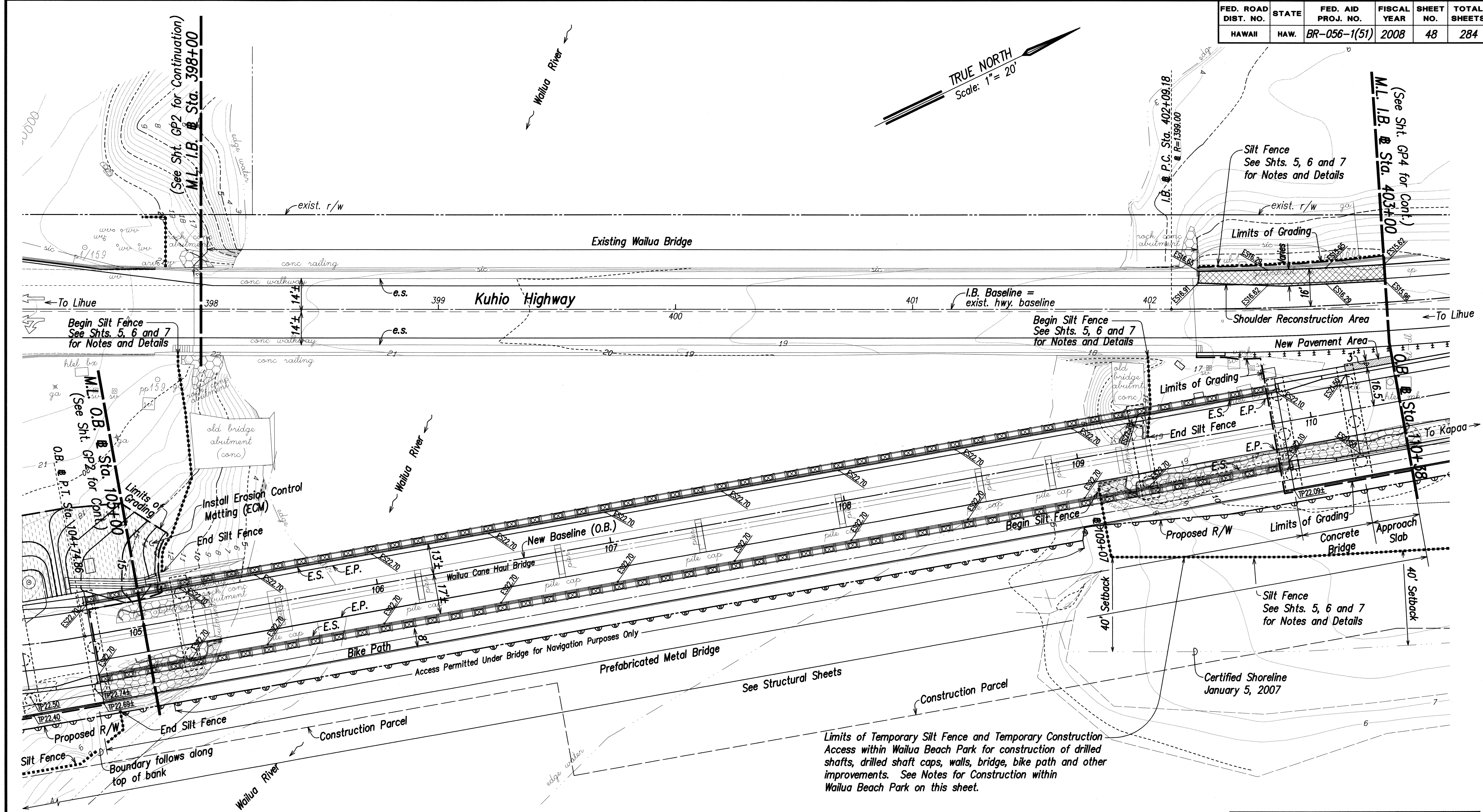
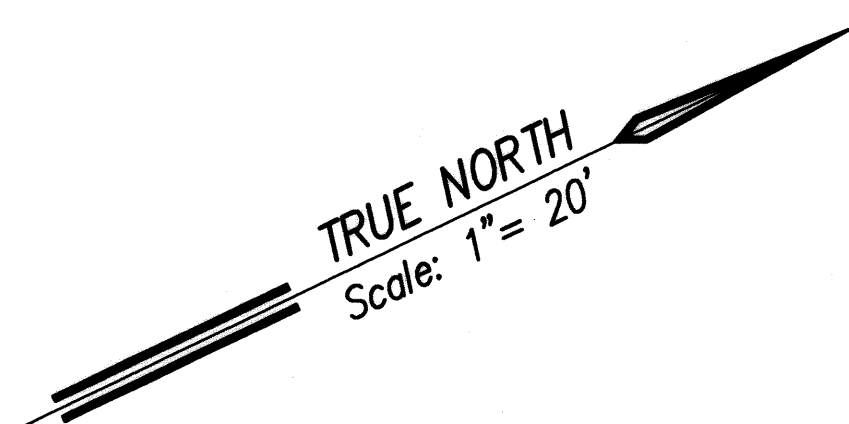
KUHIO HIGHWAY, SHORT TERM IMPROVEMENTS  
 Wailua Cane Haul Bridge Widening  
 Fed. Aid Project No. BR-056-1(51)  
 Scale: As Noted Date: MAY 2008  
 SHEET No. GP2 OF GP4 SHEETS

"AS-BUILT"

C.O. ADD. 47



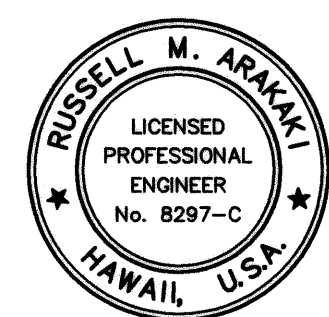
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | BR-056-1(51)       | 2008        | 48        | 284          |



Limits of Temporary Silt Fence and Temporary Construction Access within Wailua Beach Park for construction of drilled shafts, drilled shaft caps, walls, bridge, bike path and other improvements. See Notes for Construction within Wailua Beach Park on this sheet.

**NOTES FOR CONSTRUCTION WITHIN WAILUA BEACH PARK:**

1. Install temporary fence around the construction area to keep the public away from construction activities.
2. See Shts. CP10 and CP13 for phasing requirements affecting the Wailua Beach Park and parking lot.
3. See Subsection 108.20 - Rental Fees for Use of Wailua Beach Park of the Special Provisions for additional requirements.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION  
Russell M. Araki  
RMAE, Inc.  
d/b/a PARK ENGINEERING  
LICENSE EXPIRES 4-30-10

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**GRADING PLAN**

**KUHIO HIGHWAY, SHORT TERM IMPROVEMENTS**

**Wailua Cane Haul Bridge Widening**

Fed. Aid Project No. BR-056-1(51)

Scale: As Noted      Date: MAY 2008

SHEET No. GP3 OF GP4 SHEETS

**GRADING PLAN**  
Scale: 1" = 20'

|                   |  |
|-------------------|--|
| DATE              |  |
| SURVEY PLOTTED BY |  |
| DRAWN BY          |  |
| DESIGNED BY       |  |
| NOTED BY          |  |
| CHECKED BY        |  |



