

1. All lanes shall be open to traffic during the morning peak hours from 6:30 A.M. to 8:00 A.M. and during the afternoon peak hours from 3:30 P.M. to 5:00 P.M. and during off work hours. Only one lane of Highway shall be closed at any other time.
2. Minimum shoulder slope shall be 5%. When super slope is equal to or greater than 5%, the shoulder slope shall be the same as the rate of super. This rate applies only to the shoulder on the lower side of the super.
3. Existing shoulders beyond stabilized shoulders shall be trimmed and dressed. Trimming and dressing of shoulders shall include but not limited to clearing, grubbing, backfilling, grading and compacting the shoulder area. This work shall not be paid for directly but shall be considered incidental to the various contract items.
4. Any damage to the existing pavement section by the Contractor shall be repaired at his expense and to the satisfaction of the Engineer.

5. No material or equipment shall be stockpiled or parked within the Highway Rights-of-Way except at locations designated by the Engineer.
6. Contractor shall verify all utilities prior to commencement of any construction activities.
7. All rails and posts removed including hardware shall remain the property of the State. Work required to remove and stockpile, or demolish guard-rails and posts, will not be measured or paid for directly but shall be considered incidental to "Item No. 606.3110".
8. All depressions and holes resulting from the removal of existing concrete and wood posts shall be properly backfilled and compacted. Payment for this work shall be considered incidental to "Item No. 606.3110".
9. BCF payment length is not included in note "Metal G.R. w/steel post - ____ L.F.".
10. No open sections of guard rail will be permitted after daily work ceases. All existing and new guard rails to be functional during non-working hours.
11. SS-1 Tack Coat shall be applied at the longitudinal joint connecting the existing pavement to the new stabilized shoulder and over areas to be resurfaced. Measurement and payment for this item shall be considered incidental to "Item No. 301.0100".
12. Abbreviation "G.R." denotes Guard Rail.

Resurface Approaches	
Sta.	ATB.
352+60 Rt.	4.4 TONS
395+00 Lt.	1.0 TONS

PAVEMENT MARKINGS		
Sta. to Sta.	Edge Stripping (L.F.)	
334+50 to 402+25 Lt.	6670	
334+50 to 402+25 Rt.	6360	

Sto. 380+75 to 388+50 Rt.
Install G.R. & Delineators
Est. Quant. 725
Metal G.R. w/steel post = 750 L.F.
BCT = 1 EA.
RM-1 Reflector Marker w/post = 6 EA.

$389 + 50$ $395 + 00$
Sta. $390 + 00$ to $394 + 60$ Rt.
 Stabilize Shoulders
 Est. Quant.
 Roadway Exc. = 22.7 C.Y.
 A.T.B. = 47.8 TONS
 Weed Killer = 204.4 S.Y.

Sta. 396+00 to 398+00 RT.

Install G.R. & Delineators
Est. Quant. 37.5

Metal G.R. w/steel post = 50 LF.
BCT = 1 EA.

RM-3 Reflector Marker w/post = 2 EA.

Remove and salvage existg metal G.R.
w/steel post Est. Quant. = 75 LF.

Metal G.R. w/steel post and Rub
Rail = 35 LF.
37.5

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	LT-K-02-79	1980	3	17

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

KAUAI BELT ROAD SHOULDER AND
GUARD RAIL IMPROVEMENTS AT HULEIA
BRIDGE AND WAILUA.

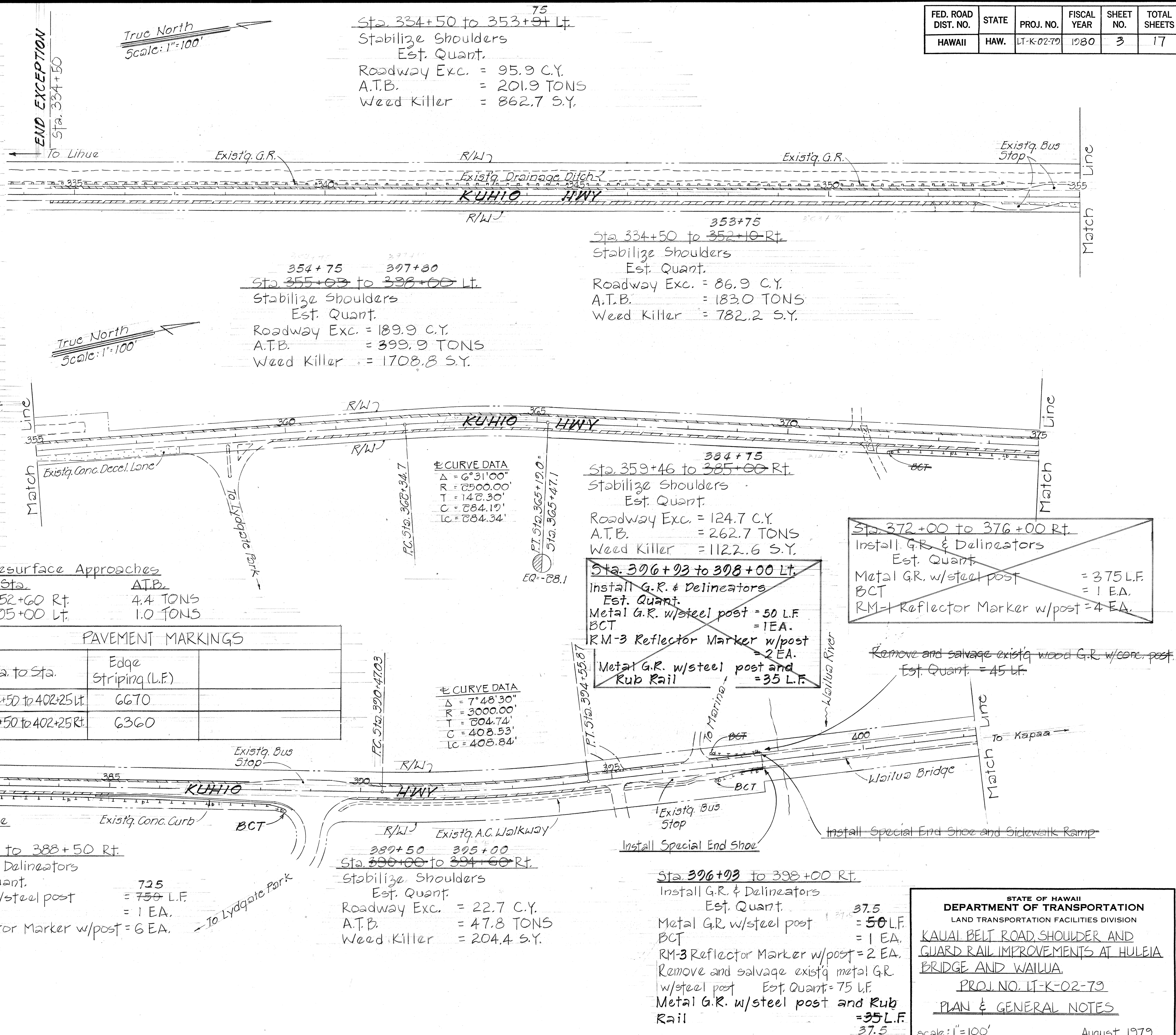
PROJ. NO. 1T-K-02-79

PLAN & GENERAL NOTES

scale: 1" = 100'

August 1979

SHEET No. 1 OF 3 SHEETS



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	LT-K-02-79	1980	4	17

Sta. 421+45 to 441+70 Lt.
 Stabilize Shoulders
 Est. Quant.
 Roadway Exc. = 64.6 C.Y.
 A.T.B. = 136.0 TONS
 Weed Killer = 581.3 S.Y.

PAVEMENT MARKINGS		
Sta. to Sta.	Edge Striping (L.F.)	
402+25 to 479+00 Lt.	7525	
402+25 to 479+00 Rt.	7300	

Curve Data
 $\Delta = 36^\circ 47' 30''$
 $R = 6000.00'$
 $T = 664.00'$
 $C = 1266.32'$
 $Lc = 1281.90'$

Sta. 444+62 to 461+15 Lt.
 Stabilize Shoulders
 Est. Quant.
 Roadway Exc. = 67.8 C.Y.
 A.T.B. = 142.8 TONS
 Weed Killer = 610.2 S.Y.

Sta. 449+80 to 460+25 Rt.
 Stabilize Shoulders
 Est. Quant.
 Roadway Exc. = 51.6 C.Y.
 A.T.B. = 108.7 TONS
 Weed Killer = 464.4 S.Y.

Sta. 479+54 to 480+61 Lt.
 Install G.R. & Delineators
 Est. Quant.
 Metal G.R. w/steel post = 50 L.F.
 BCT = 1 EA.
 RM-3 Reflector Marker w/post = 2 EA.
 Remove and salvage existg metal G.R. w/conc. post
 Est. Quant. = 50 L.F.
 Metal G.R. w/steel post and Rub Rail = 35 L.F.
 37.5

Sta. 477+93 to 479+00 Lt.
 Install G.R. & Delineators
 Est. Quant.
 Metal G.R. w/steel post = 50 L.F.
 BCT = 1 EA.
 RM-3 Reflector Marker w/post = 2 EA.
 Metal G.R. w/steel post & Rub Rail = 35 L.F.
 12.5

Resurface Approaches
 Sta. 463+50 Lt. A.T.B. 1.2 TONS
 Sta. 464+20 Lt. A.T.B. 1.9 TONS
 Sta. 465+10 Lt. A.T.B. 0.8 TONS

Sta. 461+65.1 to 479+00 Lt.
 Stabilize Shoulders
 Est. Quant.
 Roadway Exc. = 72.5 C.Y.
 A.T.B. = 152.7 TONS
 Weed Killer = 652.4 S.Y.

Sta. 461+75 to 471+35 Rt.
 Stabilize Shoulders
 Est. Quant.
 Roadway Exc. = 23.5 C.Y.
 A.T.B. = 49.4 TONS
 Weed Killer = 211.1 S.Y.

Sta. 436+75 to 438+25 Rt.
 Install BCT & Delineators
 Est. Quant.
 BCT = 1 EA.
 RM-3 Reflector Marker w/post = 2 EA.

Sta. 437+00 to 439+00 Lt.
 Install G.R. & Delineators
 Est. Quant.
 Metal G.R. w/steel post = 150 L.F.
 BCT = 2 EA.
 RM-3 Reflector Marker w/post = 4 EA.
 Remove and salvage existg wood G.R. and post
 Est. Quant. = 36 L.F.

Sta. 402+25 to 402+82 Rt.
 Install G.R. & Delineators
 Est. Quant.
 Metal G.R. w/steel post & Rub Rail = 35 L.F.
 BCT = 1 EA.
 RM-3 Reflector Marker w/post = 2 EA.

Sta. 402+25 to 403+25 Lt.
 Install Delineators
 Est. Quant.
 RM-3 Reflector Marker w/post = 2 EA.

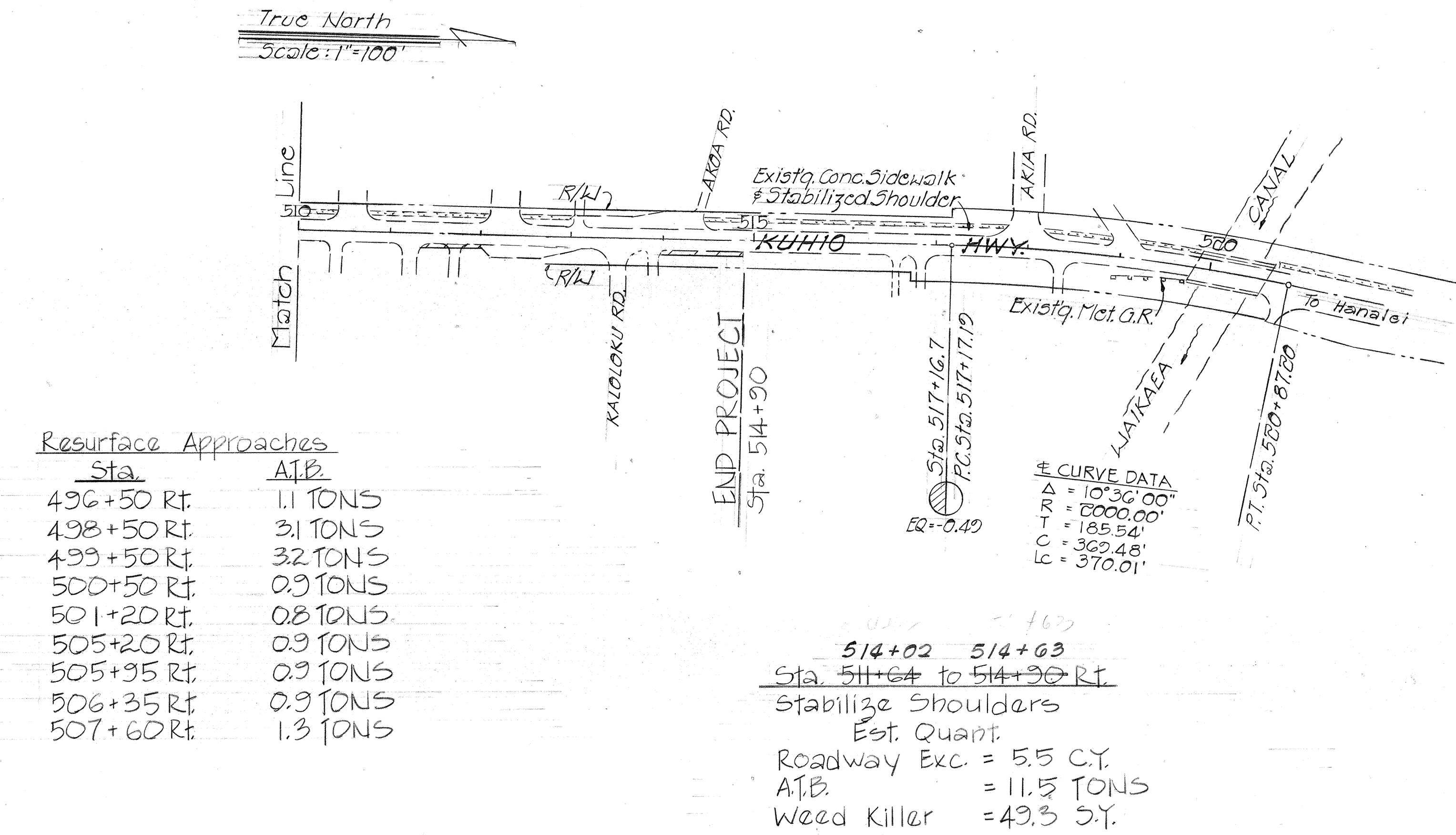
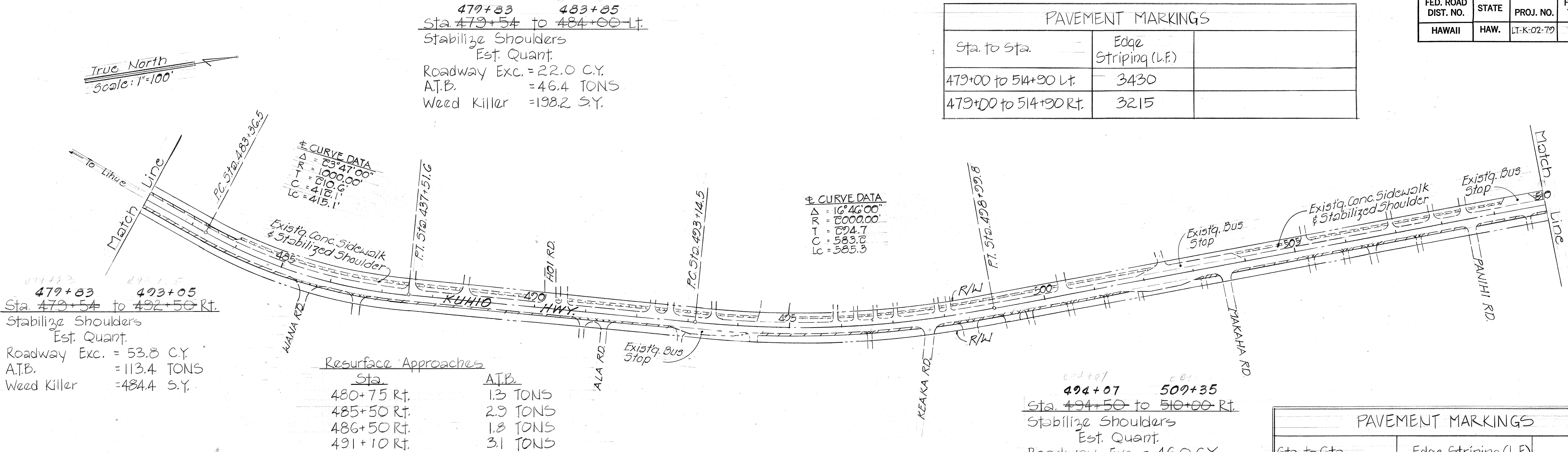
Resurface Approach
 Sta. 403+50 Lt. A.T.B. 1.5 TONS

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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 LAND TRANSPORTATION FACILITIES DIVISION
 KAUAI BELT ROAD, SHOULDER AND
 GUARD RAIL IMPROVEMENTS AT
 HULEIA BRIDGE AND WAILUA
 PROJ. NO. LT-K-02-79
 PLAN
 scale: 1"=100'
 August 1979
 SHEET No. 2 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	LT-K-02-79	1980	5	17

PAVEMENT MARKINGS		
Sta. to Sta.	Edge Striping (L.F.)	
479+00 to 514+90 Lt.	3430	
479+00 to 514+90 Rt.	3215	



Resurface Approaches	
Sta.	ATB
496+50 Rt.	1.1 TONS
498+50 Rt.	3.1 TONS
499+50 Rt.	3.2 TONS
500+50 Rt.	0.9 TONS
501+20 Rt.	0.8 TONS
505+20 Rt.	0.9 TONS
505+95 Rt.	0.9 TONS
506+35 Rt.	0.9 TONS
507+60 Rt.	1.3 TONS

514+02 514+63	
Sta. 514+64 to 514+90 Rt.	
Stabilize Shoulders	
Est. Quant.	
Roadway Exc.	= 5.5 C.Y.
ATB.	= 11.5 TONS
Weed Killer	= 49.3 S.Y.

HULEIA BRIDGE SECTION BEGIN PROJ. STA. 85+00 TO STA. 112+00

Sta. 85+00 to 112+00 Lt. (Exception Sta. 90+00 to 97+25 Lt. - Huleia Bridge)	
Stabilize Shoulders	
Est. Quant.	
Roadway Exc.	= 119.0 C.Y.
Asphalt Treated Base Course	= 250 TONS
Weed Killer	= 1,065 S.Y.

Sta. 92+77 to 96+02 Rt.	
Install G.R. & Delineators	
Est. Quant.	
Metal G.R. w/steel post	= 300 L.F.
BCT	= 1 EA.
RM-1 Reflector Marker w/post	= 3 EA.
Remove and salvage existing metal G.R. w/conc. post	
Est. Quant.	= 315 L.F.

Sta. 92+77 to 112+00 Rt.	
Stabilize Shoulders	
Est. Quant.	
Roadway Exc.	= 94.0 C.Y.
Asphalt Treated Base Course	= 200.0 TONS
Weed Killer	= 845.0 S.Y.

Sta. 103+00 to 110+00 Rt.	
Install G.R. & Delineators	
Est. Quant.	
Metal G.R. w/steel post	= 150 L.F.
BCT	= 2 EA.
RM-1 Reflector Marker w/post	= 3 EA.
Remove and salvage existq metal G.R. w/conc. post	
Est. Quant.	= 189 L.F.

Sta. 92+77 to 94+77 Lt.	
Install G.R. & Delineators	
Est. Quant.	
Metal G.R. w/steel post	= 175 L.F.
BCT	= 1 EA.
RM-1 Reflector Marker w/post	= 3 EA.
Remove and salvage existing metal G.R. w/conc. post	
Est. Quant.	= 126 L.F.

STATE OF HAWAII
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LAND TRANSPORTATION FACILITIES DIVISION

KAUAI BELT ROAD SHOULDER AND
GUARD RAIL IMPROVEMENTS AT
HULEIA BRIDGE AND WAIKALEA
PROJ. NO. LT-K-02-79
PLAN
scale: 1"=100'
August 1979

SHEET No. 3 OF 3 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
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