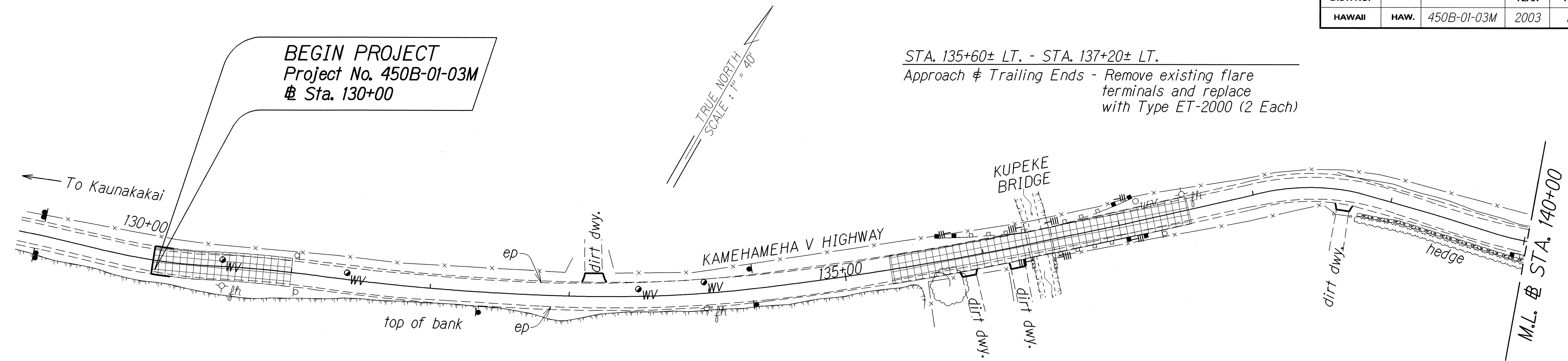
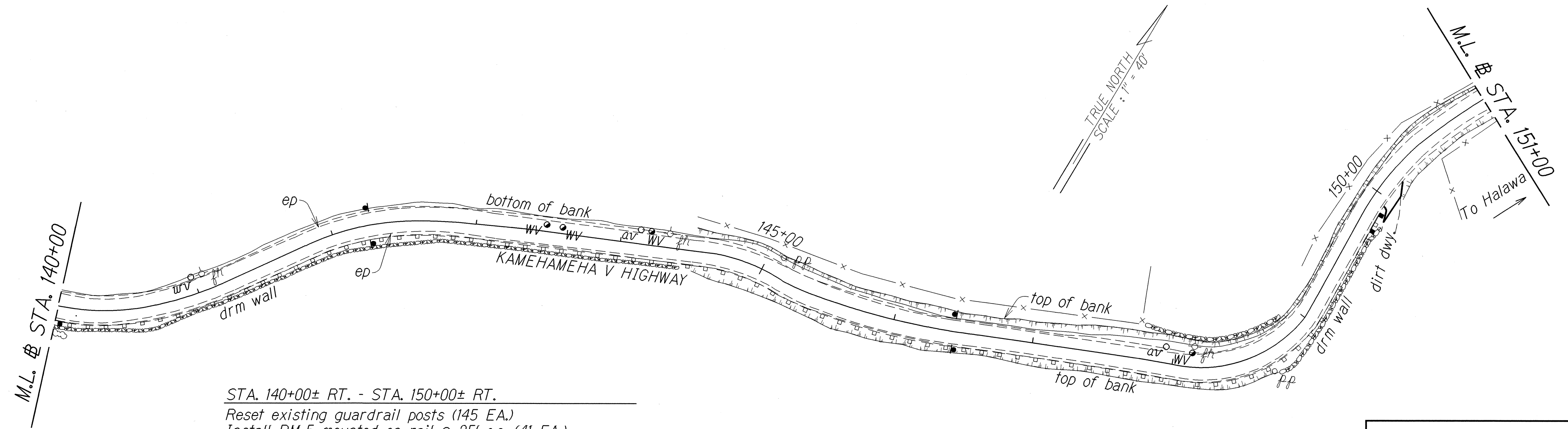


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	450B-01-03M	2003	11	39



STA. 136+30± RT. - STA. 137+20± RT.
 Trailing Ends - Remove existing terminal and replace with Type ET-2000 (1 Each)
 Clean debris and silt underneath the bridge - FA



STA. 140+00± RT. - STA. 150+00± RT.
 Reset existing guardrail posts (145 EA.)
 Install RM-5 mounted on rail @ 25' o.c. (41 EA.)
 Approach & Trailing Ends - Remove existing flare terminals and replace with Type ET-2000 (2 Each)

SURVEY PLOTTED BY	DATE
DESIGNED BY	12/02
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLAN

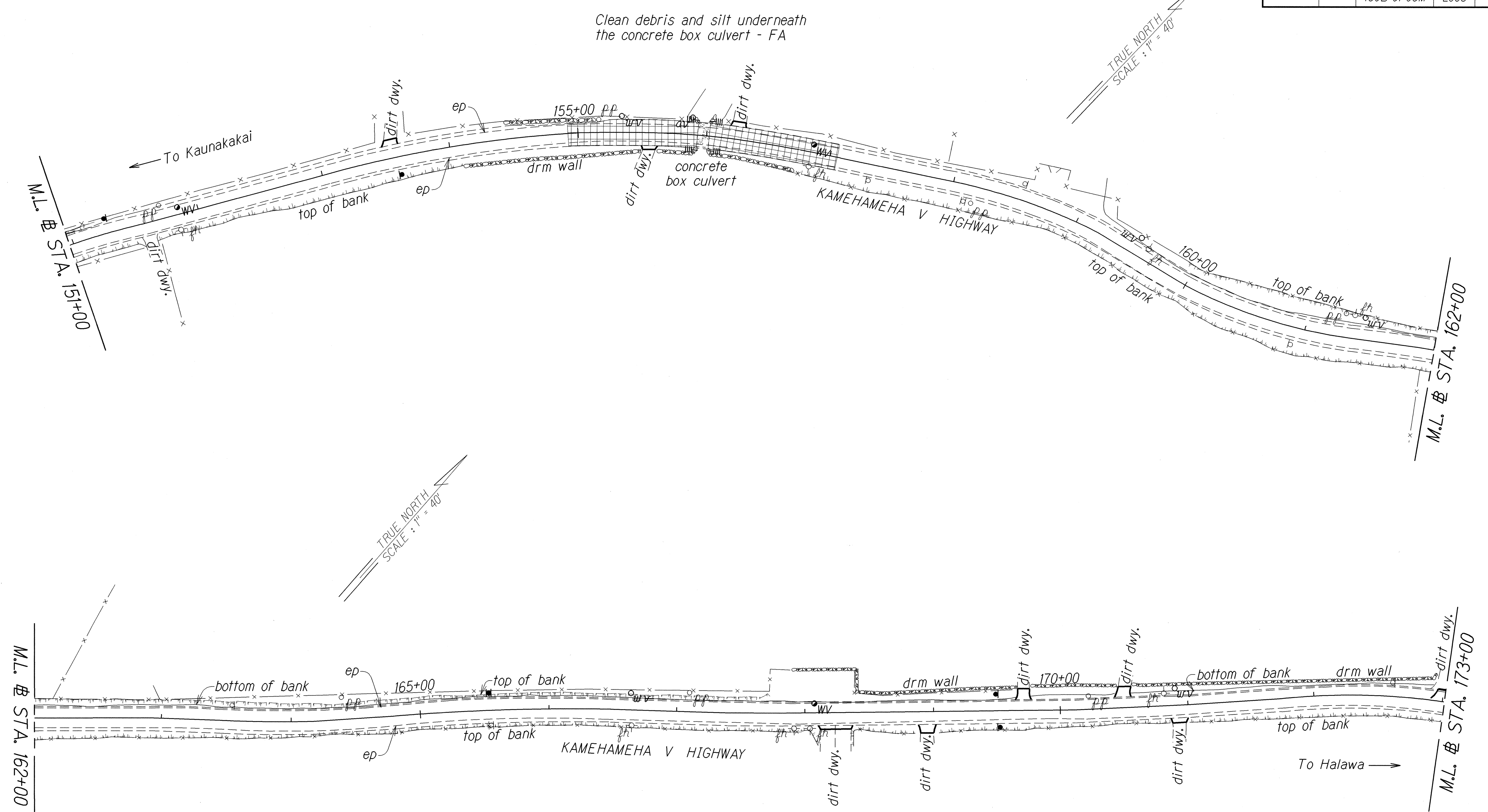
KAMEHAMEHA V HIGHWAY RESURFACING

Pukoo to Waialua

Project No. 450B-01-03M

Scale: 1" = 40' Date: December, 2002

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	450B-01-03M	2003	12	39



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	12/02
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me/lay	CHECKED BY	
me/lay	QUANTITIES BY	
me/lay	CHECKED BY	

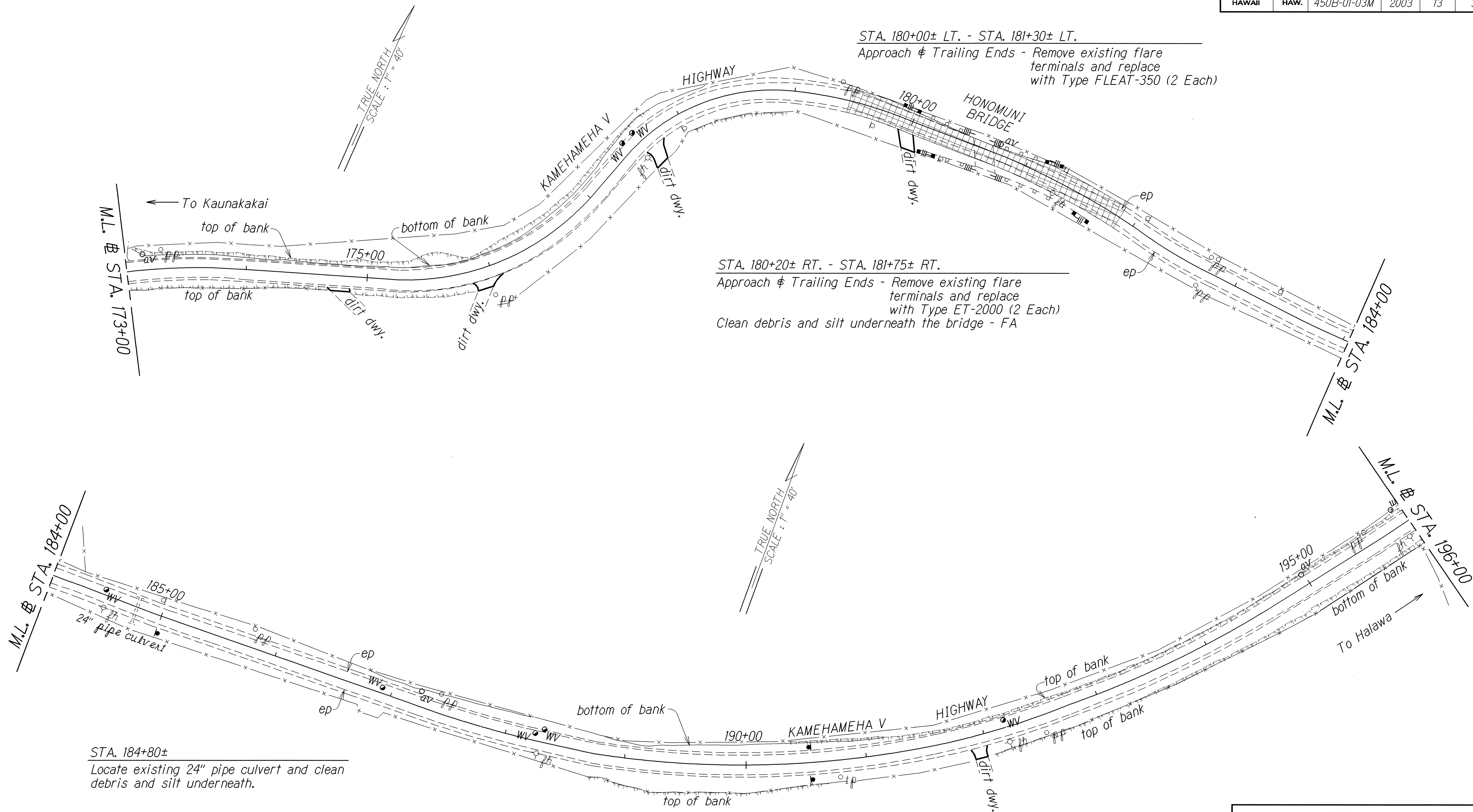
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KAMEHAMEHA V HIGHWAY RESURFACING
Pukoo to Waialua
Project No. 450B-01-03M

Scale: 1" = 40' Date: December, 2002

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	450B-01-03M	2003	13	39



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTES BOOK	DRAWN BY	12/02
QUANTITIES BY	DESIGNED BY	
CHECKED BY		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KAMEHAMEHA V HIGHWAY RESURFACING

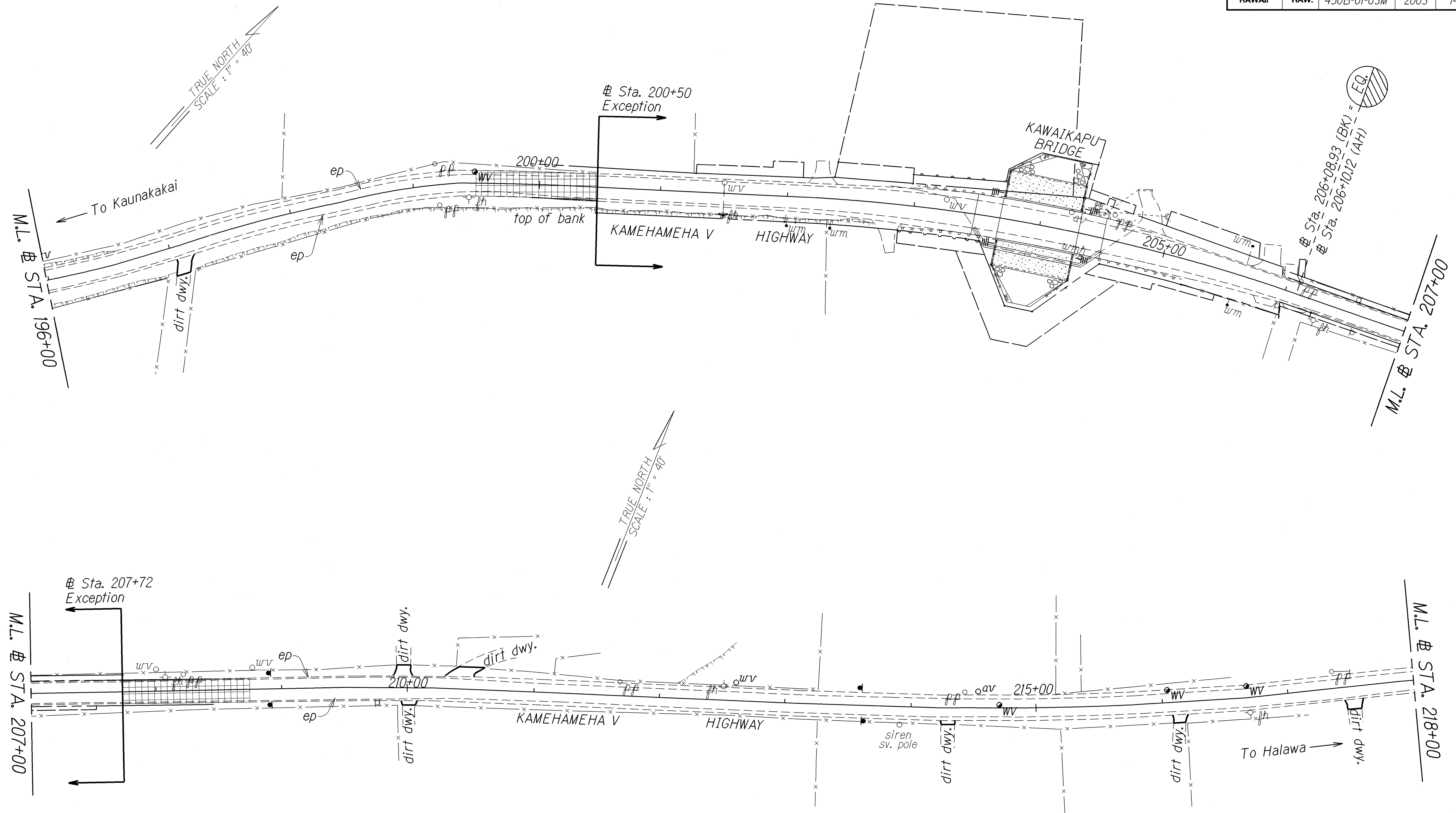
Pukoo to Waialua

Project No. 450B-01-03M

Scale: 1" = 40' Date: December, 2002

SHEET No. 3 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	450B-01-03M	2003	14	39



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	12/02
QUANTITIES BY	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

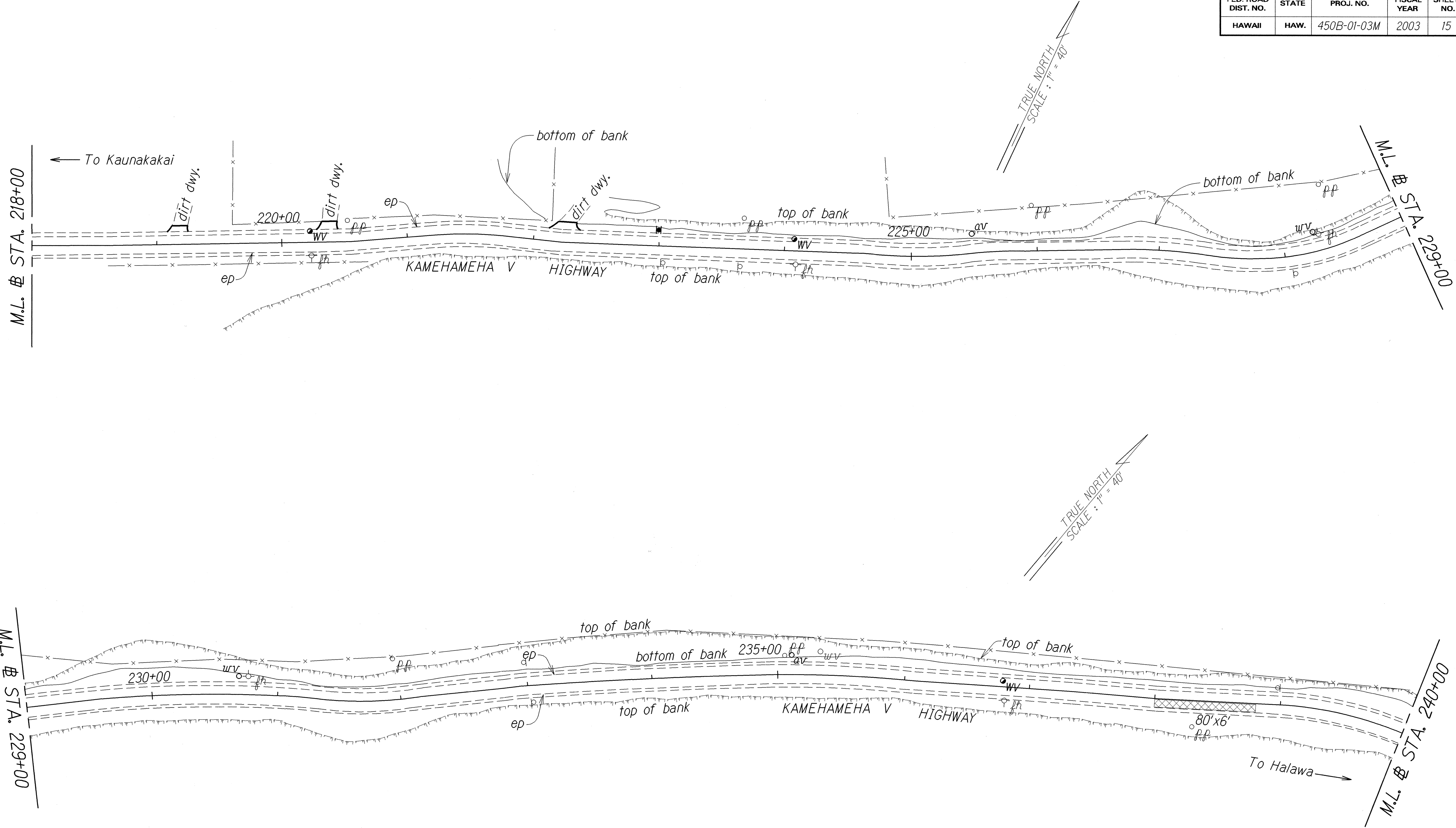
ROADWAY PLAN

KAMEHAMEHA V HIGHWAY RESURFACING
Pukoo to Waialua
Project No. 450B-01-03M

Scale: 1" = 40' Date: December, 2002

SHEET No. 4 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	450B-01-03M	2003	15	39



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	12/02
me/ly	TRACED BY	
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

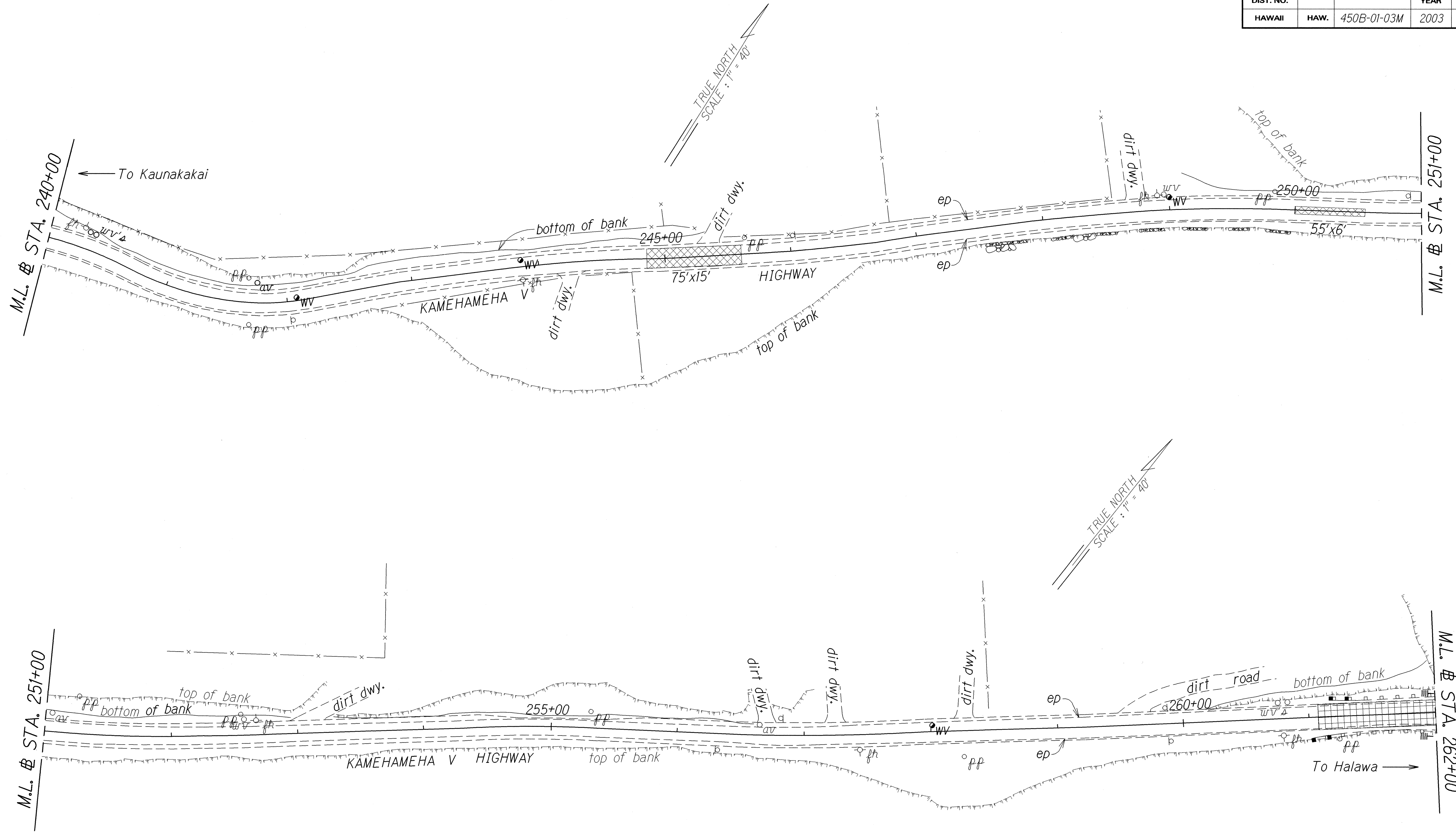
KAMEHAMEHA V HIGHWAY RESURFACING

Pukoo to Waialua

Project No. 450B-01-03M

Scale: 1" = 40' Date: December, 2002

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	450B-01-03M	2003	16	39



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	12/02
DESIGNED BY	TRACED BY	
CHECKED BY	DESIGNED BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

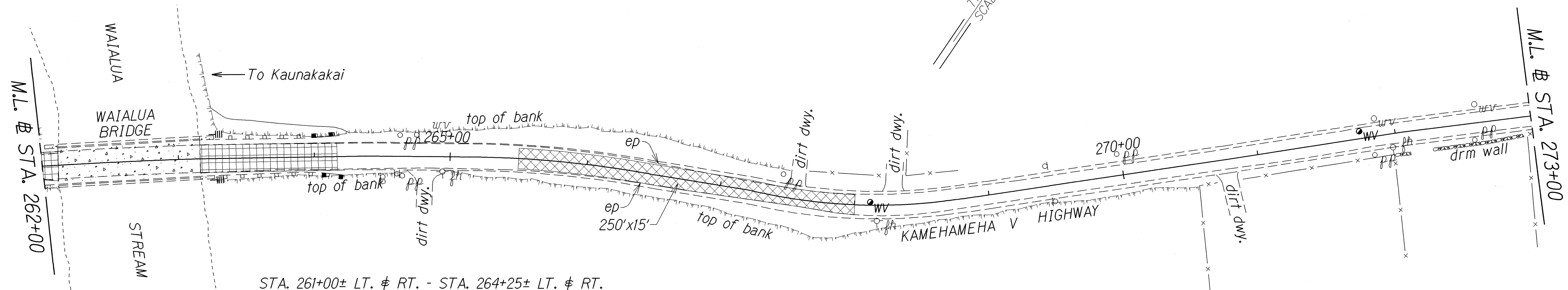
KAMEHAMEHA V HIGHWAY RESURFACING

Pukoo to Waialua

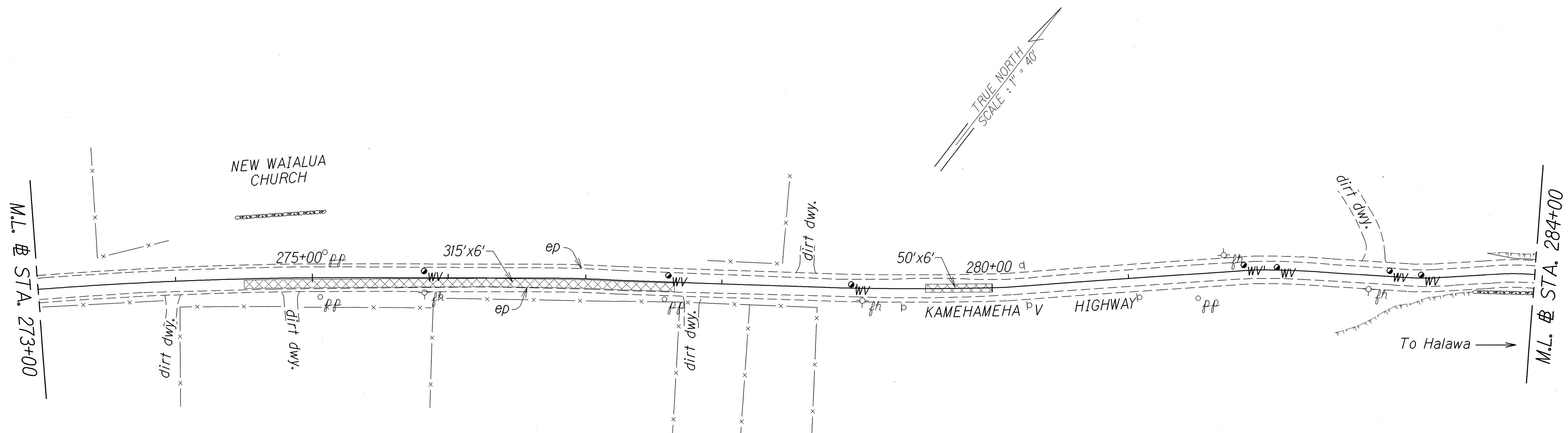
Project No. 450B-01-03M

Scale: 1" = 40' Date: December, 2002

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	450B-01-03M	2003	17	39



STA. 261+00± LT. & RT. - STA. 264+25± LT. & RT.
 Approach & Trailing Ends - Remove existing flare terminals
 and replace with Type FLEAT-350
 (4 Each)
 Clean debris and silt underneath the bridge - FA



ORIGINAL PLAN	DATE
NOTED	12/02
DESIGNED BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLAN

KAMEHAMEHA V HIGHWAY RESURFACING

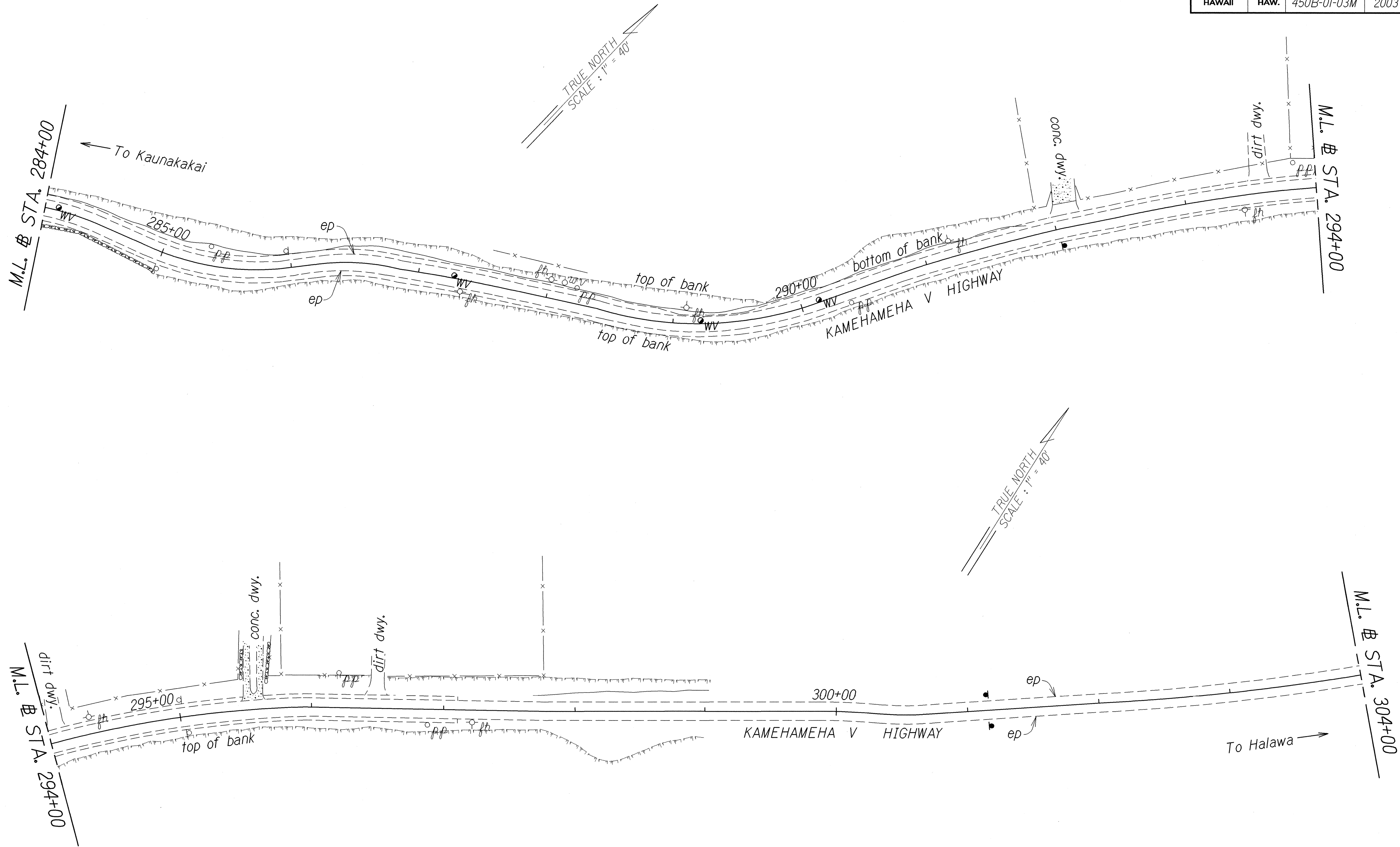
Pukoo to Waialua

Project No. 450B-01-03M

Scale: 1" = 40' Date: December, 2002

SHEET No. 7 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	450B-01-03M	2003	18	39



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	12/02
FIELD NOTES	TRACED BY	
QUANTITIES BY	CHECKED BY	
STATIONING		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KAMEHAMEHA V HIGHWAY RESURFACING
Pukoo to Waialua
Project No. 450B-01-03M
Scale: 1" = 40'
Date: December, 2002

SHEET No. 8 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	450B-01-03M	2003	19	39

NOTE:

Demolition, removing of existing structures and concrete collar shall be considered incidental to Item No. 603.1013.

State right of way limit shall be determined in the field by Engineer prior to extending the culvert.

STA. 310+50± LT. 0/S 15'

Demolish existing headwall
Extend 36" ϕ RCP w/conc. collar
Construct: Concrete Headwall

ESTIMATED QUANTITIES

36" Ø RCP CL III	5 LF
Structure Exc.	2 CY
Bed Course	1 CY
Conc. Headwall	5 CY
Clean Exist. Culvert	FA

TRUE NORTH
SCALE: 1" = 40'

← To Kaunakakai

111
M.L. STA. 304+00

305 + 00

$e\rho$

 $ep-$

KAMEHAMEHA V HIGHWAY

310+00

36" лс

TRUE NORTH
SCALE: 1" = 40'

STA. 315+00
M.L. £

 $EP_{\neg}$

Concrete
Barrier

KAMEHAMEHA V HIGHWAY 320+00

320+00

ер

 ed
$$325 + 00$$

To Halawa

STA. 326+00
M.L.

STA. 314+40 RT. - STA. 316+80 RT.

Install RM-3 w/flexible post @ 20' o.c. (13 Each)

NOTE:

From M.P. 20.00 to M.P. 22.00, install RM-3 w/flexible post @ 20' o.c. as required. Engineer shall be determined in the field for the necessary locations.

STA. 315+20± RT. - STA. 319+95± RT.

Install Portable Concrete Barrier (25 Each)

6-5-03	Added Portable Concrete Barrier Location
<i>DATE</i>	<i>REVISION</i>

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KAMEHAMEHA V HIGHWAY RESURFACING

Pukoo to Waialua

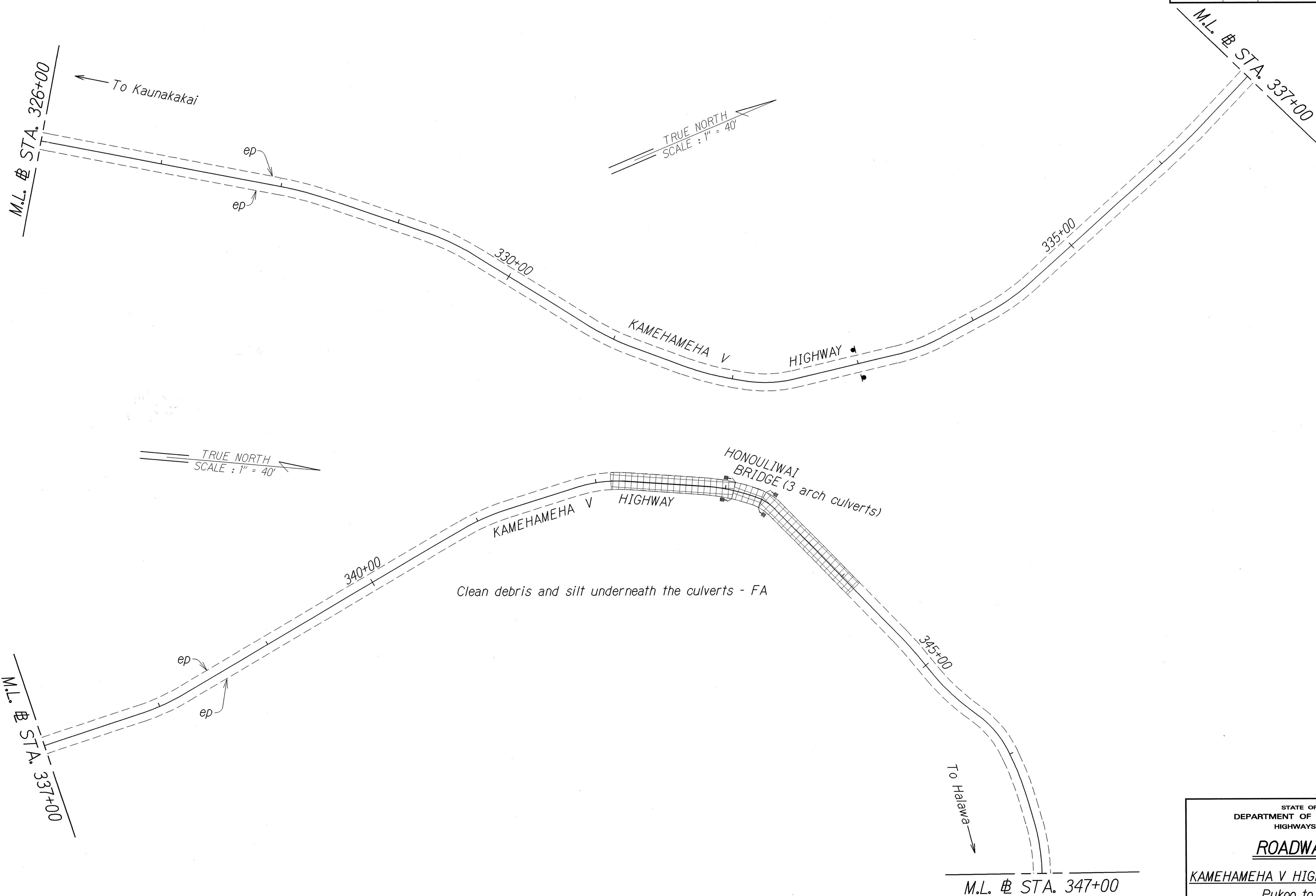
Project No. 450B-01-03M

Scale: 1" = 40' Date: December, 2002

SHEET No. 9 OF 13 SHEETS

ADD. 19

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	450B-01-03M	2003	20	39



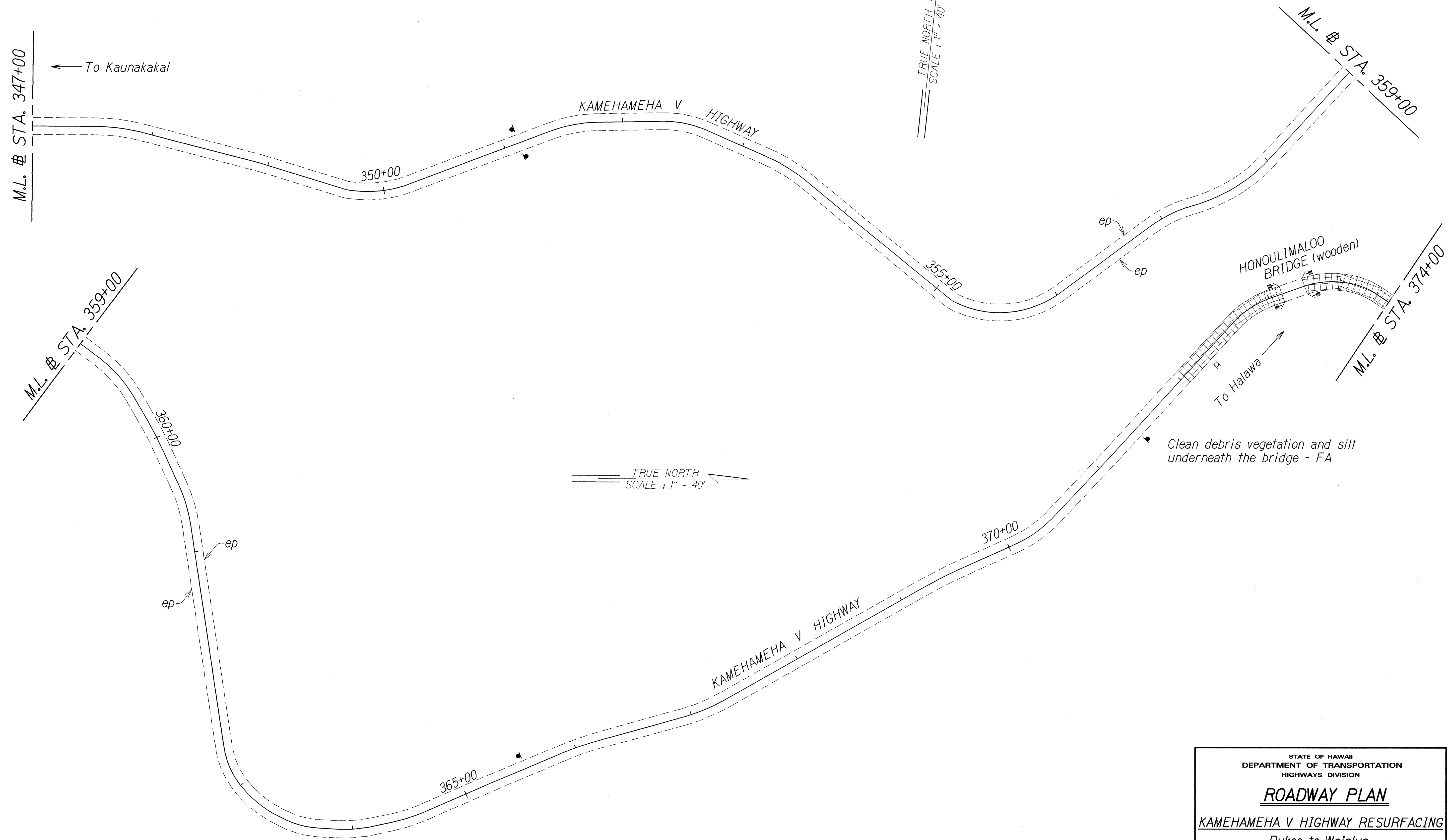
DATE	12/02
SURVEY PLOTTED BY	
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DESIGNED BY	af
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
DATE	12/02
BY	af

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KAMEHAMEHA V HIGHWAY RESURFACING
Pukoo to Waialua
Project No. 450B-01-03M

Scale: 1" = 40' Date: December, 2002
SHEET No. 10 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	450B-01-03M	2003	21	39



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED BOOK	DRAWN BY	12/02
DESIGNED BY	TRACED BY	
QUANTITIES BY	CHECKED BY	
4/15/03		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

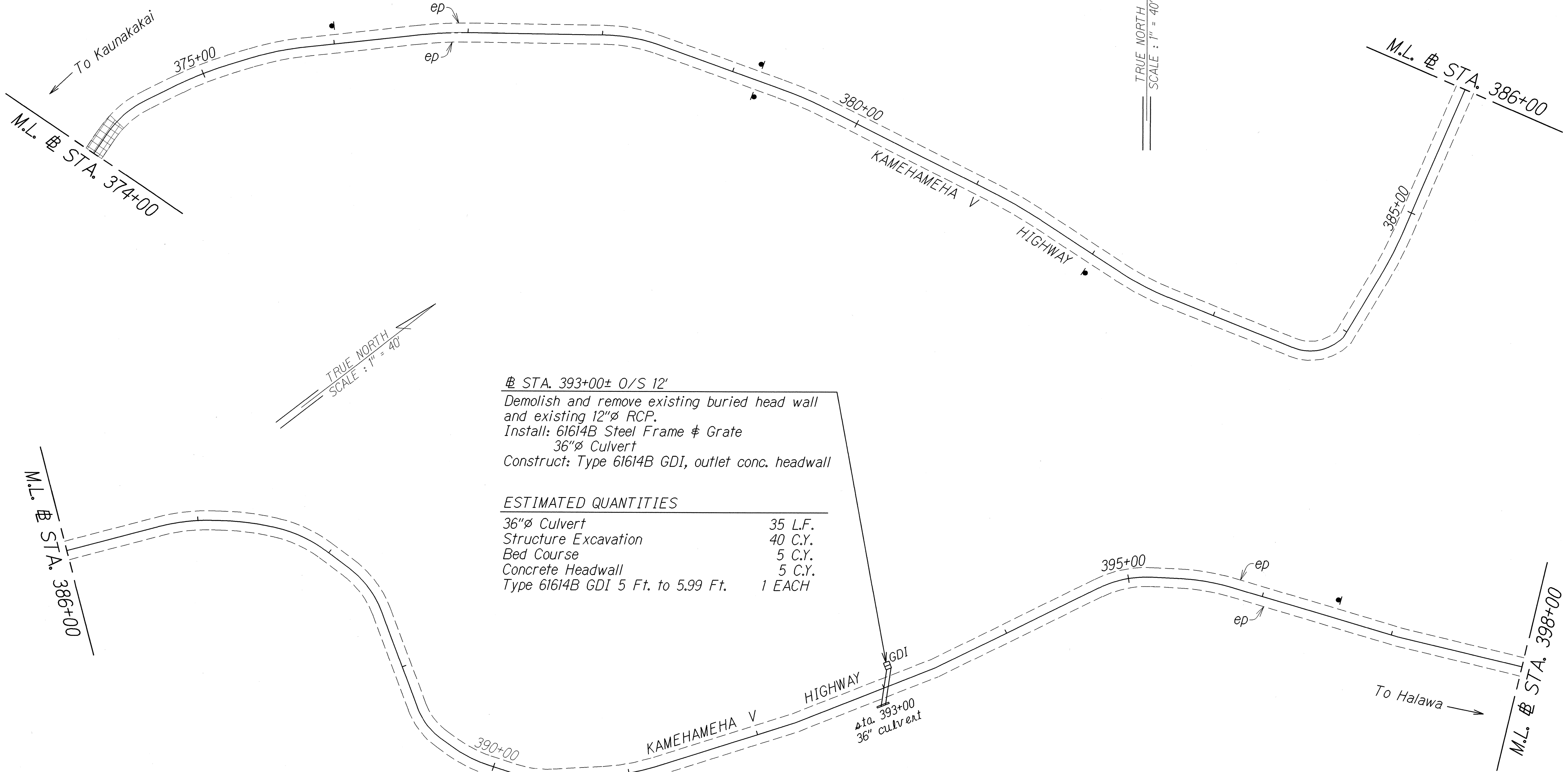
ROADWAY PLAN

KAMEHAMEHA V HIGHWAY RESURFACING
Pukoo to Waialua
Project No. 450B-01-03M

Scale: 1" = 40' Date: December, 2002

SHEET No. 11 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	450B-01-03M	2003	22	39



STA. 393+00± 0/S 12'

Demolish and remove existing buried head wall and existing 12"Ø RCP.

Install: 61614B Steel Frame & Grate

36"Ø Culvert

Construct: Type 61614B GDI, outlet conc. headwall

ESTIMATED QUANTITIES

36"Ø Culvert	35 L.F.
Structure Excavation	40 C.Y.
Bed Course	5 C.Y.
Concrete Headwall	5 C.Y.
Type 61614B GDI 5 Ft. to 5.99 Ft.	1 EACH

- NOTE:
- Demolition removing of existing structures and concrete collar shall be considered incidental to Item No. 603.1013
 - Culvert slope shall not be less than 2% from invert inlet elevation to invert outlet elevation. Finish elevation shall be determined by the Engineer in the field.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
TRACED BY		12/02
NOTE BOOK		
DESIGNED BY		
QUANTITIES BY		
CHECKED BY		

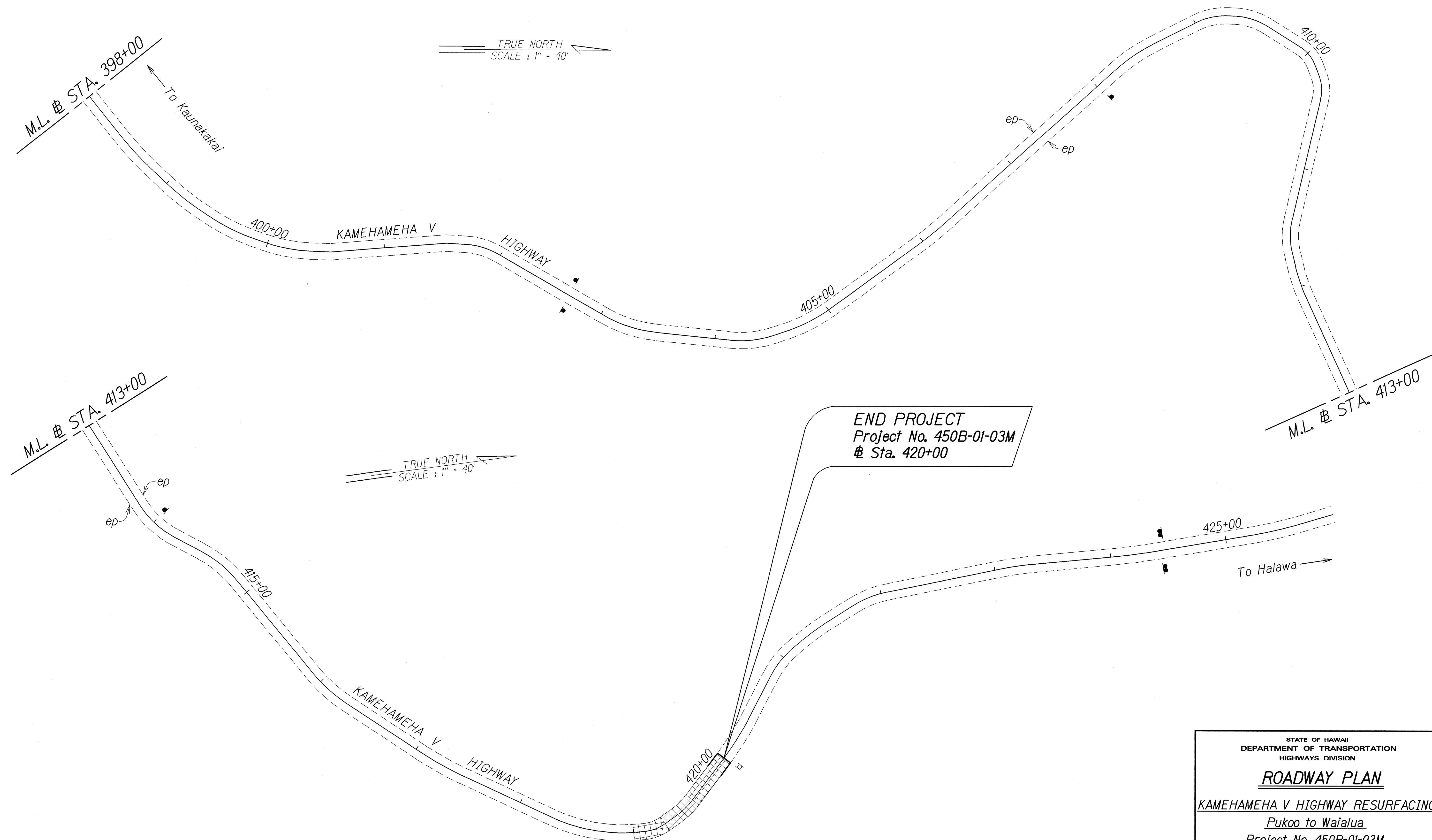
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KAMEHAMEHA V HIGHWAY RESURFACING
Pukoo to Waialua
Project No. 450B-01-03M

Scale: 1" = 40'
Date: December, 2002

SHEET No. 12 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	450B-01-03M	2003	23	39



ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY <i>fg</i> _____
<i>mel:ay</i>	TRACED BY _____
<i>akm:amp:3.dgn</i>	DESIGNED BY <i>ar</i> _____
	QUANTITIES BY _____
	CHECKED BY _____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KAMEHAMEHA V HIGHWAY RESURFACING

Pukoo to Waialua

Project No. 450B-01-03M

Scale: 1" = 40' Date: December, 2002

SHEET No. 13 OF 13 SHEETS