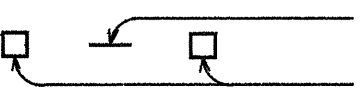


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-02-98M	1998	20	27

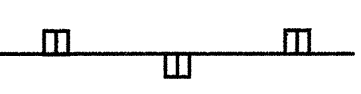
LEGEND



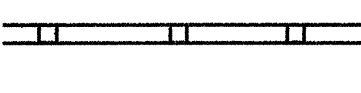
4 each Type A Raised Pavement Markers
Type C Raised Pavement Markers @ 40'-0" o.c.



4 each Type J Raised Pavement Markers
Type D Raised Pavement Markers @ 40'-0" o.c.



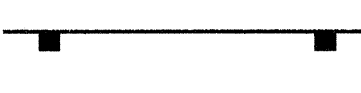
8" White Stripe with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)



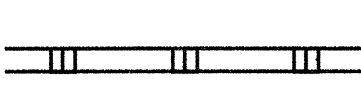
4" Double Solid Yellow with Type D Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)



4" Double Solid Yellow Stripes with Type H Raised Pavement Markers @ 20'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)



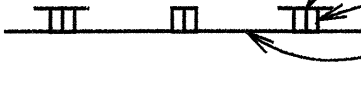
4" Yellow Edge Stripe with Type H Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)



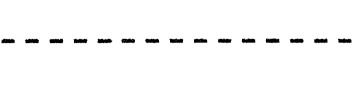
4" Double Solid White Stripes with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)



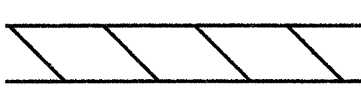
Lane Change Restriction Marking
4 each Type A Raised Pavement Markers
Type C Raised Pavement Markers @ 20'-0" o.c.
4" White Stripe (Tape, Type I or Thermoplastic Extrusion)



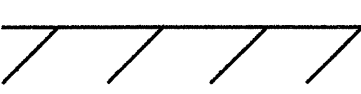
4" or 8" White Edge Stripe with Type C Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)



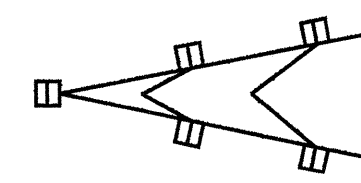
4" White Guide Lines (Tape, Type III or Thermoplastic Extrusion except for bus bays)



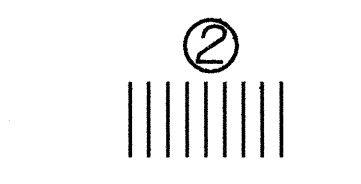
Transverse Median Marking (Tape, Type II or Thermoplastic Extrusion)



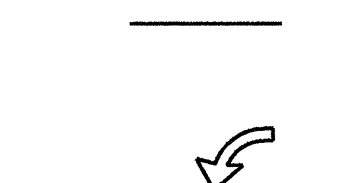
Transverse Shoulder Marking (Tape, Type II or Thermoplastic Extrusion)



Channelizing Island or Deceleration Lane Gore (Tape, Type II or Thermoplastic Extrusion)



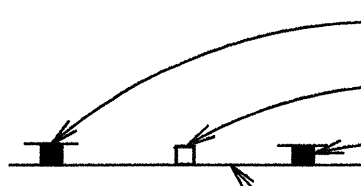
Crosswalk and Stop Line. All Stop Lines shall be 10'-0" from Crosswalk unless otherwise noted. The circled number indicates the number of lanes for payment (Tape, Type III or Thermoplastic Extrusion)



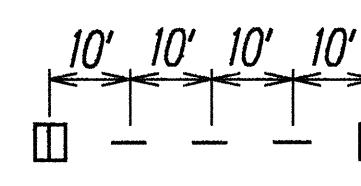
Pavement Arrow (Tape, Type III or Thermoplastic Extrusion)



Pavement Word (Tape, Type III or Thermoplastic Extrusion)



4 Each Type J Raised Pavement Markers
Type D Raised Pavement Markers @ 40'-0" o.c.
Type H Raised Pavement Markers (Reflective Surface facing no-passing direction)
4" Single Solid Yellow Stripe (Tape, Type I or Thermoplastic Extrusion)



Extension of Edge Line, 4" Wide x 2'-0" Long White Stripe @ 10'-0" o.c. w/Type C Markers @ 40'-0" o.c. (Tape, Type III or Thermoplastic Extrusion)

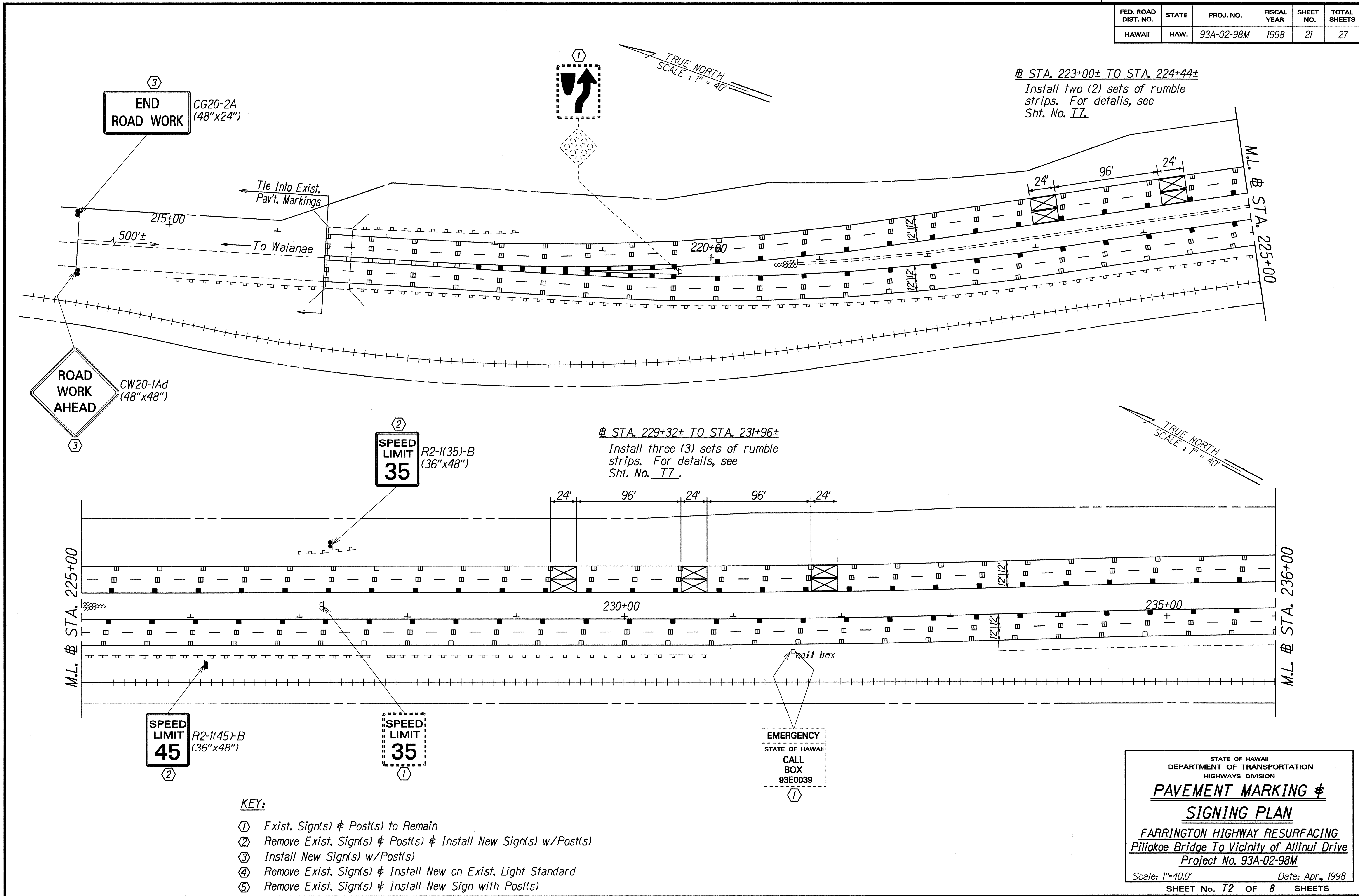
NOTES

1. Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
2. Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. Costs shall be incidental to the various pavement marking items.
3. Raised pavement markers shall not be installed within crosswalks.
4. Final locations of all signs shall be approved by the Engineer prior to any installation work.
5. Existing signs not shown on these plans shall remain as posted unless otherwise directed by the Engineer. Removal and disposal of existing signs, posts, and footings as designated on these plans shall be incidental to the various signing items.
6. Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
7. All pavement striping shall be as noted on the legend or plans.
8. All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as approved by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
9. Curb marking shall include top and front face of curb.
10. Backing for all new Regulatory and Warning Signs shall not be spliced.
11. All sign panels shall conform to Section 621 of Special Provisions and the latest editions and amendments of the following FHWA publications:
 - a. "Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD)
 - b. "Standard Highway Signs"
 - c. "Standard Alphabets for Highway Signs"
12. Border, messages, arrows, symbols and shields shall conform to details as shown on the plans and as specified in the MUTCD.
13. Sign messages shall be as indicated on the plan.
14. All panels shall be reflectorized in accordance with Section 712.20 of the Standard Specifications. Minimum width of panels shall be 2 feet, abutting edges of panels shall be in only one direction if vertical abutting edges are used, no horizontal abutting edges shall be allowed and vice versa.
15. All new and relocated signs and markers installed on pipe posts, light standard or expressway sign post are to be mounted with band brackets and steel braces.
16. Final location of all sign post installed within the sidewalk areas shall maintain a minimum clearance width of 36 inches from sidewalk edge to provide for wheelchair accessibility.
17. Removing existing signs and reinstalling on new post shall not be paid for separately, but shall be considered incidental to the various signing items.
18. Signs placed along bikeways shall have a minimum height clearance of 8'-0".
19. All existing sign post(s) to remain within the sidewalk area shall meet the minimum clear width of 36 inches from the sidewalk edge. Where necessary, the existing sign post(s) shall be relocated to meet the minimum clear width. This work shall not be paid for separately but shall be considered incidental to the various signing items.
20. Removing and Reinstalling existing Street Name Signs on Regulatory and Warning Signs Post shall not be paid for separately but shall be considered incidental to the various Signing Items.
21. Install Type II Object Marker on all utility poles or trees that are within the State Highway right-of-way and within 50 feet of the roadway edge of pavement shall be marked as directed by the Engineer.

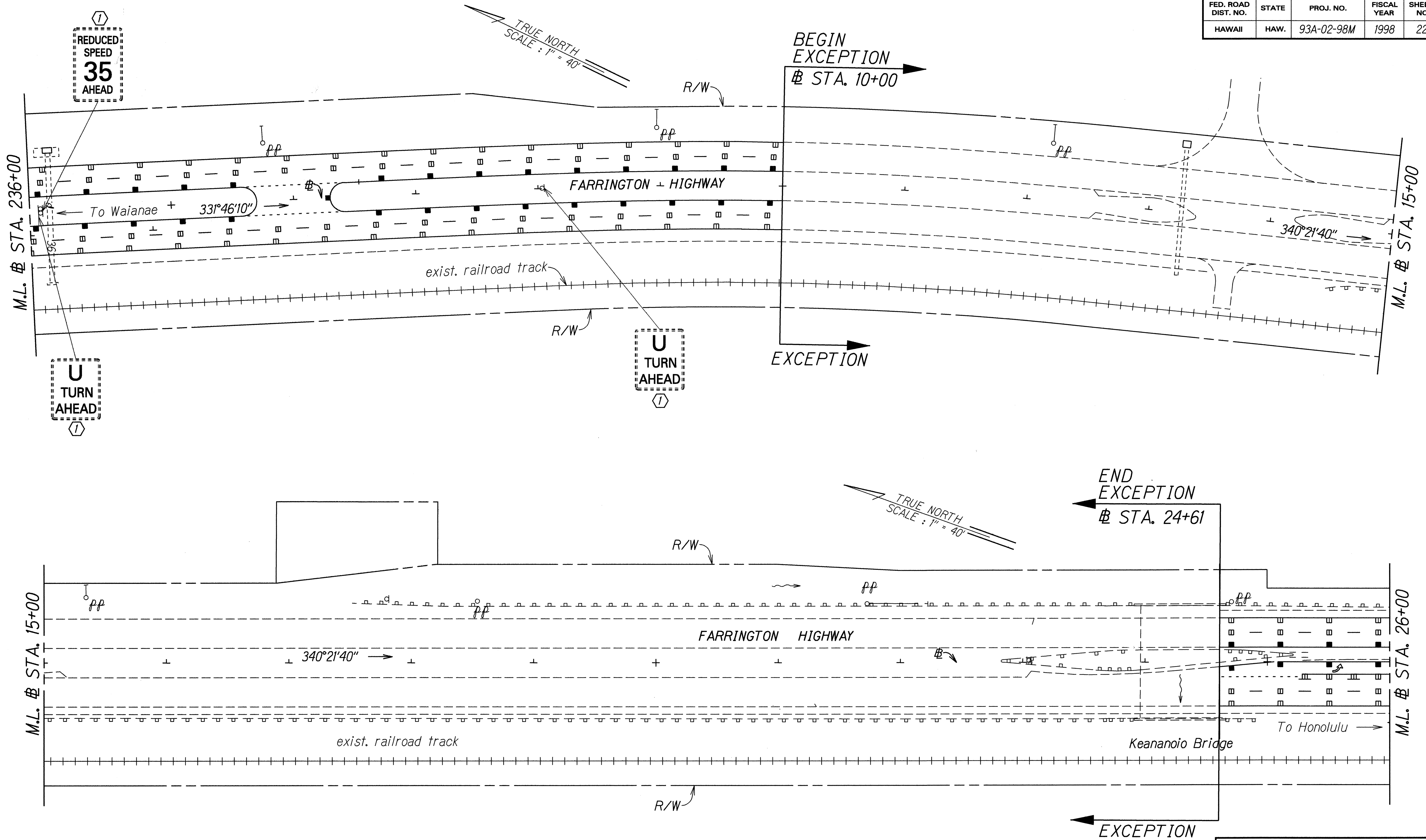
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
QUANTITIES BY		
CHECKED BY		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PAVEMENT MARKING LEGEND
DETAILS AND NOTES
FARRINGTON HIGHWAY RESURFACING
Piliokoe Bridge to Vicinity of Aliinui Drive
Project No. 93A-02-98M
Date: Apr., 1998
SHEET No. 71 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-02-98M	1998	21	27



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-02-98M	1998	22	27



ORIGINAL PLAN	DATE
DESIGNED BY	12/14/98
TRACED BY	
QUANTITIES BY	
CHECKED BY	

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. Sign(s) & Post(s) & Install New Sign(s) w/Post(s)
 - ③ Install New Sign(s) w/Post(s)
 - ④ Remove Exist. Sign(s) & Install New on Exist. Light Standard
 - ⑤ Remove Exist. Sign(s) & Install New Sign with Post(s)

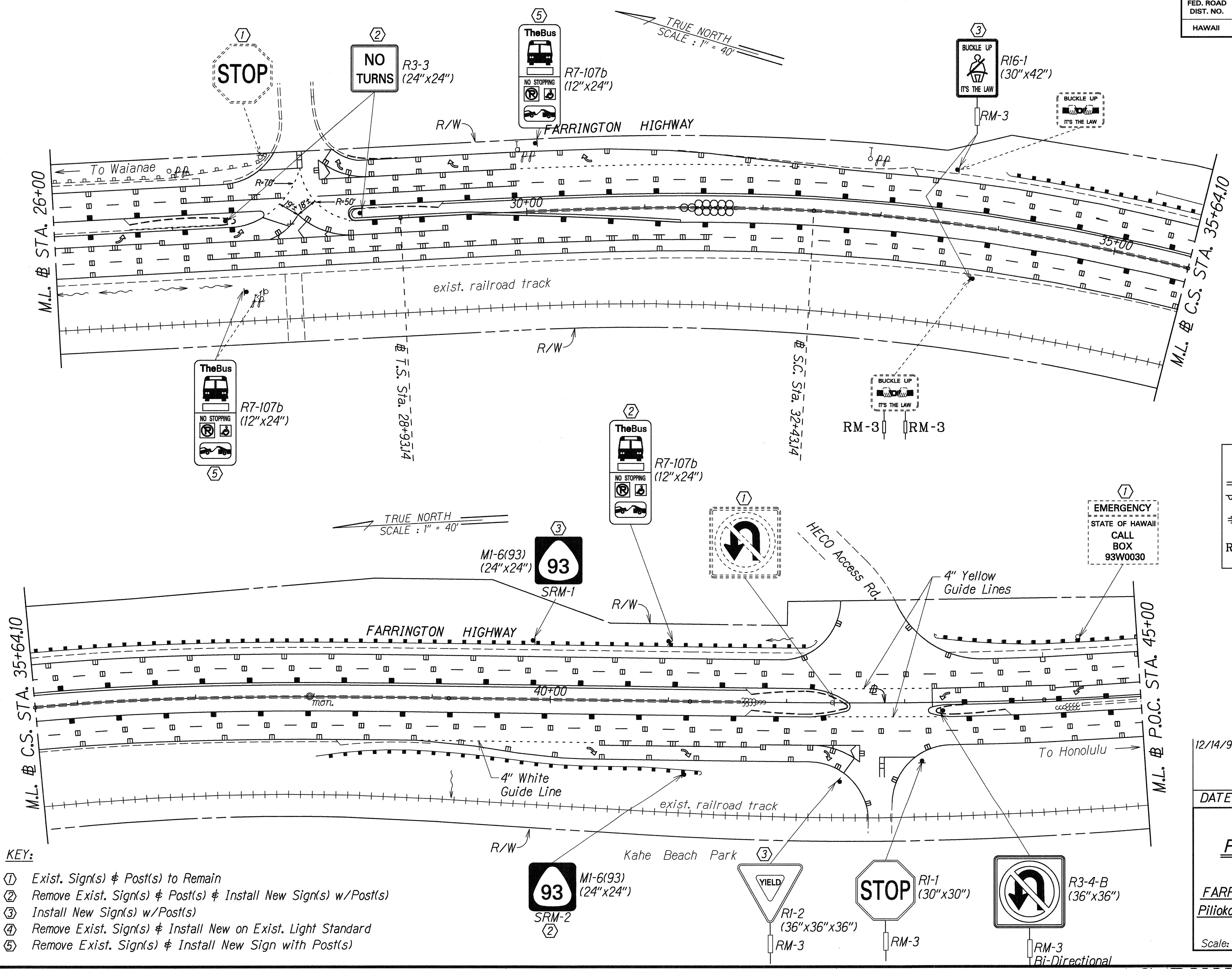
12/14/98	Decrease project exception area.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN
FARRINGTON HIGHWAY RESURFACING
Piliokoe Bridge To Vicinity of Aliinui Drive
Project No. 93A-02-98M
Scale: 1"=40.0' Date: Feb. 1998

SHEET No. T3 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-02-98M	1998	23	27



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

- KEY:
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. Sign(s) & Post(s) & Install New Sign(s) w/Post(s)
 - ③ Install New Sign(s) w/Post(s)
 - ④ Remove Exist. Sign(s) & Install New on Exist. Light Standard
 - ⑤ Remove Exist. Sign(s) & Install New Sign with Post(s)

12/14/98
Revised pavement markings to accommodate new storage land and decrease project exception area. Added additional signs (R3-3)

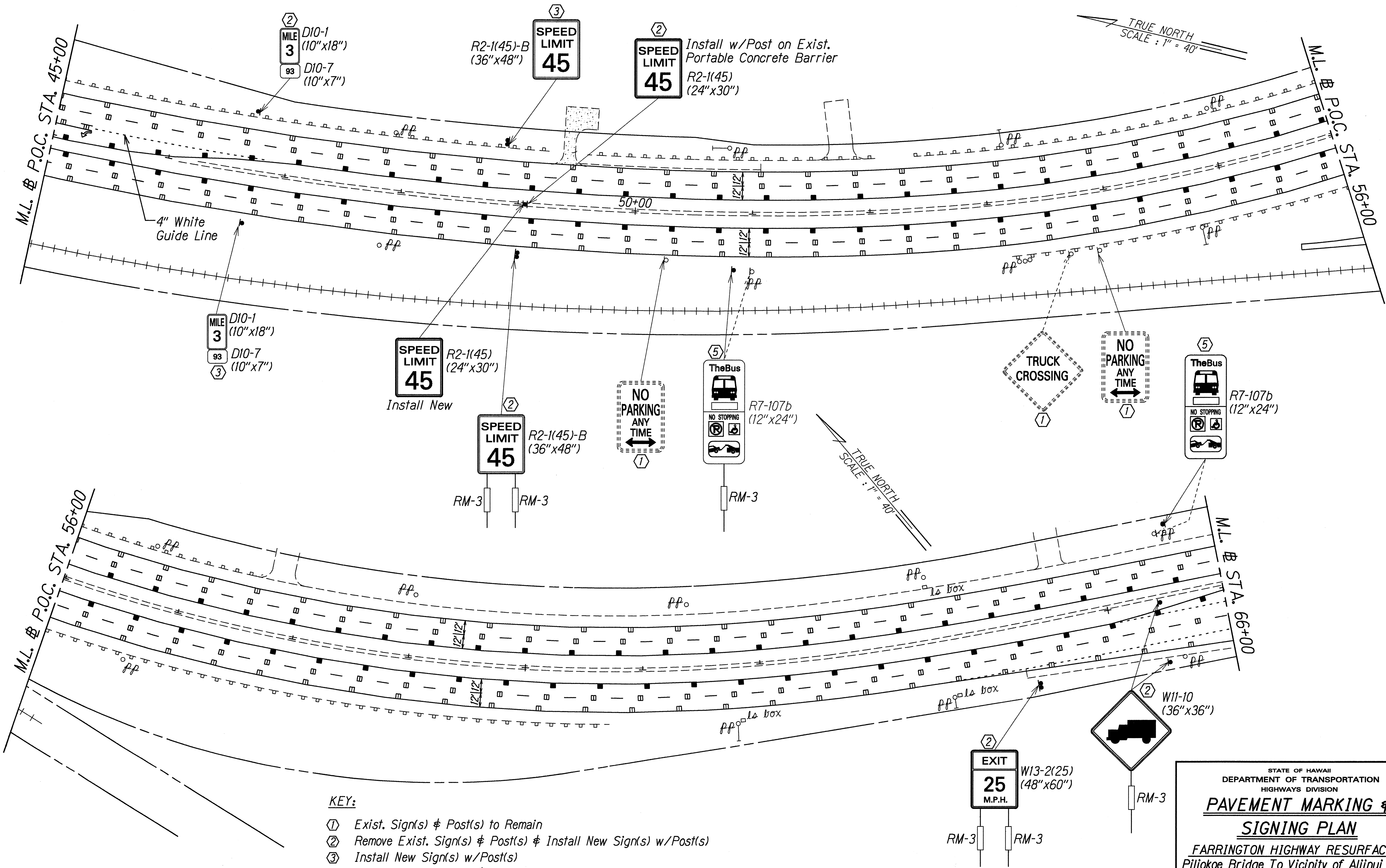
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING &
SIGNING PLAN
FARRINGTON HIGHWAY RESURFACING
Piliokoe Bridge To Vicinity of Aliinui Drive
Project No. 93A-02-98M
Scale: 1"=40.0'
Date: Feb. 1998

SHEET No. 74 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-02-98M	1998	24	27



- KEY:
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. Sign(s) & Post(s) & Install New Sign(s) w/Post(s)
 - ③ Install New Sign(s) w/Post(s)
 - ④ Remove Exist. Sign(s) & Install New on Exist. Light Standard
 - ⑤ Remove Exist. Sign(s) & Install New Sign with Post(s)

ORIGINAL PLAN	DATE
DESIGNED BY	2/27/98
NOTED BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

FARRINGTON HIGHWAY RESURFACING
Piliokoe Bridge To Vicinity of Aliinui Drive
Project No. 93A-02-98M

Scale: 1"=40.0' Date: Apr., 1998

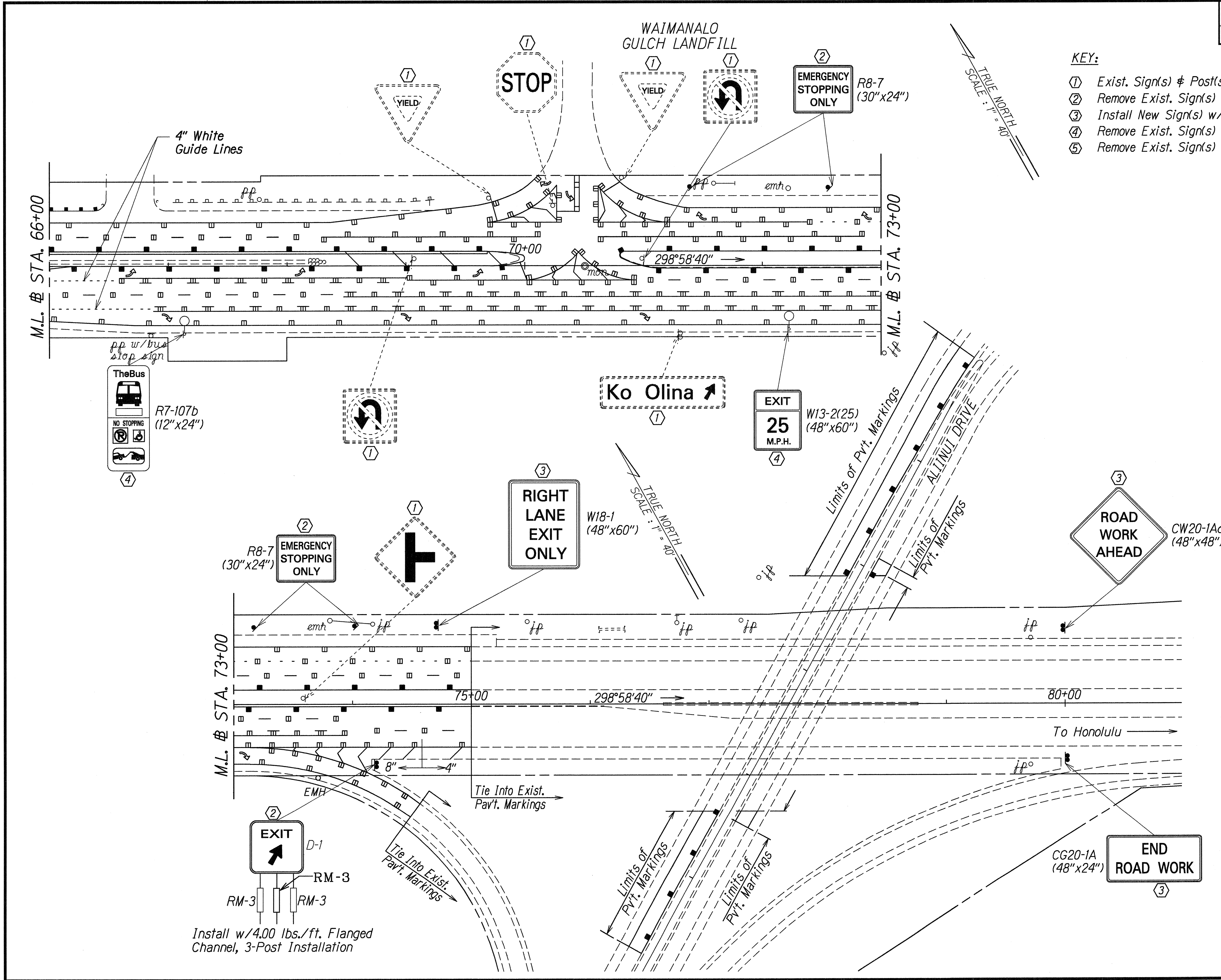
SHEET No. T5 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-02-98M	1998	25	27

- KEY:
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. Sign(s) & Post(s) & Install New Sign(s) w/Post(s)
 - ③ Install New Sign(s) w/Post(s)
 - ④ Remove Exist. Sign(s) & Install New on Exist. Light Standard
 - ⑤ Remove Exist. Sign(s) & Install New Sign with Post(s)

LEGEND FOR AS-BUILT POSTINGS

	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting



ORIGINAL PLAN	DATE
DESIGNED BY	14/19/98
TRACED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

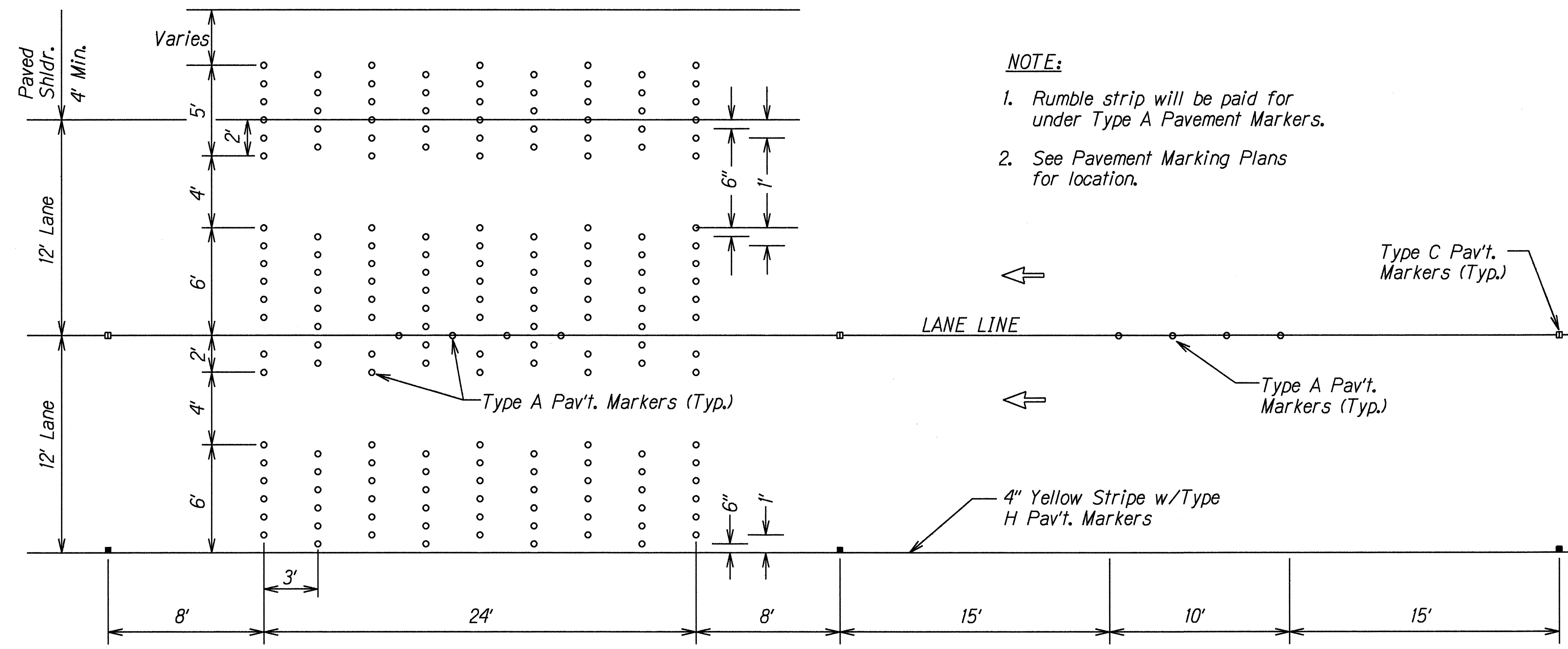
PAVEMENT MARKING & SIGNING PLAN

FARRINGTON HIGHWAY RESURFACING
Piliokoi Bridge To Vicinity of Aliinui Drive
Project No. 93A-02-98M

Scale: 1"=40.0' Date: Apr., 1998

SHEET No. 76 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-02-98M	1998	26	27



- NOTE:**
1. Rumble strip will be paid for under Type A Pavement Markers.
 2. See Pavement Marking Plans for location.

TYPICAL RUMBLE STRIP DETAIL
 Scale: 1/4" = 1'-0"

DESIGNED BY	DATE
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RUMBLE STRIP DETAIL
FARRINGTON HIGHWAY RESURFACING
Piliokoe Bridge to Vicinity of Aliinui Drive
Project No. 93A-02-98M
Scale: As Shown Date: Apr., 1998
SHEET No. 77 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-01-98M	1998	27	27

PAVEMENT MARKING SUMMARY			
DESCRIPTION		QUANTITY	
PAVEMENT MARKERS			
TYPE A _____		1,520	EA.
TYPE C _____		1,739	EA.
TYPE D _____		10	EA.
TYPE H _____		370	EA.
TAPE - TYPE I OR THERMOPLASTIC EXTRUSION			
4-INCH PAVEMENT STRIPE (WHITE) _____		1,740	L.F.
8-INCH PAVEMENT STRIPE (WHITE) _____		900	L.F.
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____		190	L.F.
TAPE - TYPE II OR THERMOPLASTIC EXTRUSION			
4-INCH PAVEMENT STRIPE (WHITE) _____		14,700	L.F.
4-INCH PAVEMENT STRIPE (YELLOW) _____		13,800	L.F.
8-INCH PAVEMENT STRIPE (WHITE) _____		860	L.F.
12-INCH PAVEMENT STRIPE (WHITE) _____		220	L.F.
12-INCH PAVEMENT STRIPE (YELLOW) _____		80	L.F.
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____		380	L.F.
TAPE - TYPE III OR THERMOPLASTIC EXTRUSION			
4-INCH PAVEMENT STRIPE (WHITE) _____		1,300	L.F.
4-INCH PAVEMENT STRIPE (YELLOW) _____		380	L.F.
12-INCH PAVEMENT STRIPE (WHITE) _____		110	L.F.
PAVEMENT ARROW _____		15	EA.

ROUTE MARKER SUMMARY				
SIGN ASSEMBLY	LOCATION	SIGN NO. AND MESSAGE	TYPE A ASSEMBLY	
			W/POST	W/O POST
SRM-1	# STA. 39+80± LT.	MI-6(93) 93	1	
SRM-2	# STA. 41+10± RT.	MI-6(93) 93	1	
TOTAL			2	

DESTINATION SIGN SUMMARY					
SIGN NO.	LOCATION	MESSAGE	SIZE	NEW PANEL AREA (SQ. FT.)	
				W/O POSTS	W/POSTS
D-1	FARRINGTON HWY. # STA. 74+10± RT.	EXIT ↗	6'-0" x 6'-0"		36.00
TOTAL					36.00

USE 4.00 LBS./FT. FLANGED CHANNEL
3-POST INSTALLATION

TRAFFIC SIGN SUMMARY					
SIGN NO.	MESSAGE	QUANTITY			
		10 SQ. FT. OR LESS		GREATER THAN 10 SQ. FT.	
		W/POST	W/O POST	W/POSTS	W/O POSTS
RI-1	STOP	1			
RI-2	YIELD	1			
R2-1(35)-B	SPEED LIMIT 35			1	
R2-1(45)-B	SPEED LIMIT 45			4	1
R3-4-B		1			
R7-107b	THE BUS LOGOS	5	1		
R8-7	EMERGENCY STOPPING ONLY	4			
RI6-1	BUCKLE UP	2			
W11-10	TRUCK CROSSING SYMBOL	1			
W13-2(25)	EXIT 25 M.P.H.			1	1
W18-1	RIGHT LANE EXIT ONLY			1	
TOTAL		15	1	7	2

CONSTRUCTION SIGN SUMMARY			
SIGN NO.	LOCATION	MESSAGE	W/POSTS
CG20-2A	FARRINGTON HWY. # STA. 211+45± LT.	END ROAD WORK	1
CW20-1Ad	FARRINGTON HWY. # STA. 211+45± RT.	ROAD WORK AHEAD	1
CW20-1Ad	FARRINGTON HWY. # STA. 80+00± LT.	ROAD WORK AHEAD	1
CG20-2A	FARRINGTON HWY. # STA. 80+00± RT.	END ROAD WORK	1
TOTAL			4

MILEPOST MARKER SUMMARY			
LOCATION	SIGN NO. AND MESSAGE	QUANTITY	
		W/POST	W/O POST
# STA. 46+60± LT. & RT.	D10-1 3 D10-7 93	2	x
TOTAL		2	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SUMMARIES

FARRINGTON HIGHWAY RESURFACING
Piliokoe Bridge to Vicinity of Aliinui Drive
Project No. 93A-02-98M

Date: Apr., 1998

SHEET No. T8 OF 8 SHEETS

ORIGINAL PLAN
SURVEY PLOTTED BY DATE X
DRAWN BY M. Takahashi
DESIGNED BY Gary Kishitani
CHECKED BY S. Iwatsumi