

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-072-1(45)	1999	13	33

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)

STOP
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

- Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
- 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.
- Raised pavement markers shall not be installed within crosswalks.
- Final locations of all signs shall be approved by the Engineer prior to any installation work.
- Existing signs not shown on these plans shall remain as posted unless otherwise directed by the Engineer. Removal and disposal of existing signs and/or posts as designated on these plans shall be incidental to the various signing items.
- Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
- All pavement striping shall be as noted on the legend or plans.
- 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.
- The Contractor shall erect at the beginning of the project and at the end of the project advance construction warning signs placed as indicated on the plans or as directed by the Engineer for the duration of the highway project and shall be maintained by the Contractor. These signs shall be placed in addition to the required traffic control signs called for in Section 645 - Traffic Control. The advance construction warning signs shall be new and become the property of the State. The Contractor shall remove, clean, and deliver the signs and posts to the District Baseyard, or as directed by the Engineer, upon the completion of the project.

REFLECTOR MARKER LEGEND

- └─F Reflector Marker (RM-1) w/Flexible Post
└─S Reflector Marker (RM-1) w/Steel Post
||└─F Reflector Marker (RM-3) w/Flexible Post
||└─S Reflector Marker (RM-3) w/Steel Post

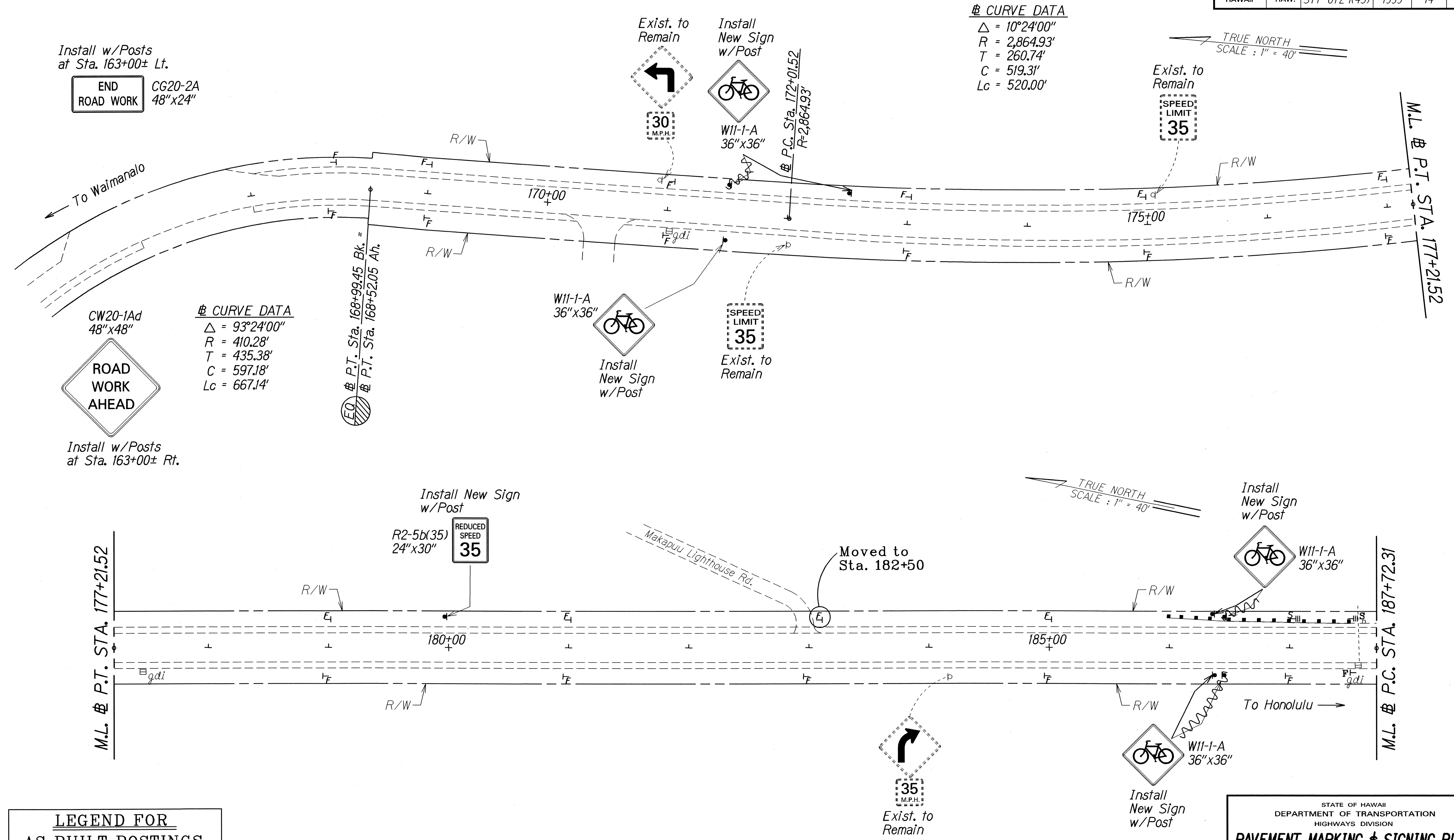
REFLECTOR MARKER SUMMARY

TYPE	QUANTITY					
	W/O POST		W/FLEXIBLE POST		W/STEEL POST	
	YELLOW	WHITE	YELLOW	WHITE	YELLOW	WHITE
RM-1				84		
RM-3	1		6		55	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PAVEMENT MARKING
LEGEND, NOTES & SUMMARY
KALANIANA'OLE HIGHWAY
SHOULDER IMPROVEMENTS
Makapuu Lookout to Kealahou Street
Fed. Aid Project No. STP-072-1(45)
Date: Jan., 1999
SHEET No. 11 OF 5 SHEETS

SURVEY PLOTTED BY: DATE: 2/3/98
DRAWN BY: J.
TRACED BY: G. Kikeli
DESIGNED BY: G. Kikeli
CHECKED BY: M. Kelley
ORIGINAL PLAN
NOTE BOOK
10/1/97
11/1/97

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-072-1(45)	1999	14	33



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

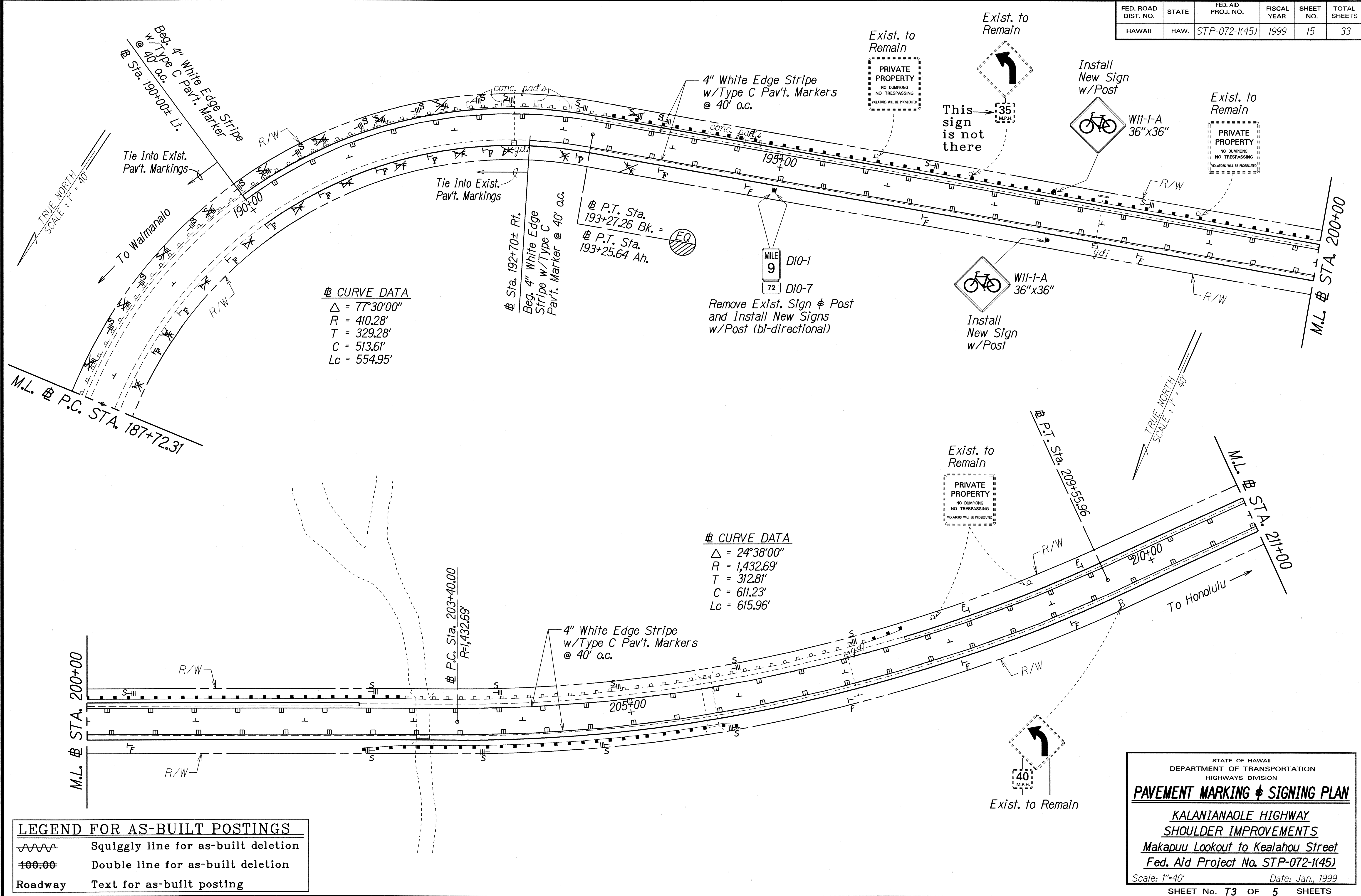
PAVEMENT MARKING & SIGNING PLAN

KALANIANA'OLE HIGHWAY
SHOULDER IMPROVEMENTS
Makapuu Lookout to Kealahou Street
Fed. Aid Project No. STP-072-1(45)
Scale: 1"=40' Date: Jan., 1999

SHEET No. 72 OF 5 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED BY	DRAWN BY	2/2/98
CHECKED BY	QUANTITIES BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-072-1(45)	1999	15	33



ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	2/29/98
DRAWN BY	ELI A.
DESIGNED BY	ELI A.
CHECKED BY	ELI A.
QUANTITIES BY	ELI A.
CHECKED BY	ELI A.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

KALANIANA'OLE HIGHWAY
SHOULDER IMPROVEMENTS
Makapuu Lookout to Kealahou Street
Fed. Aid Project No. STP-072-1(45)
Scale: 1"=40'

Date: Jan., 1999

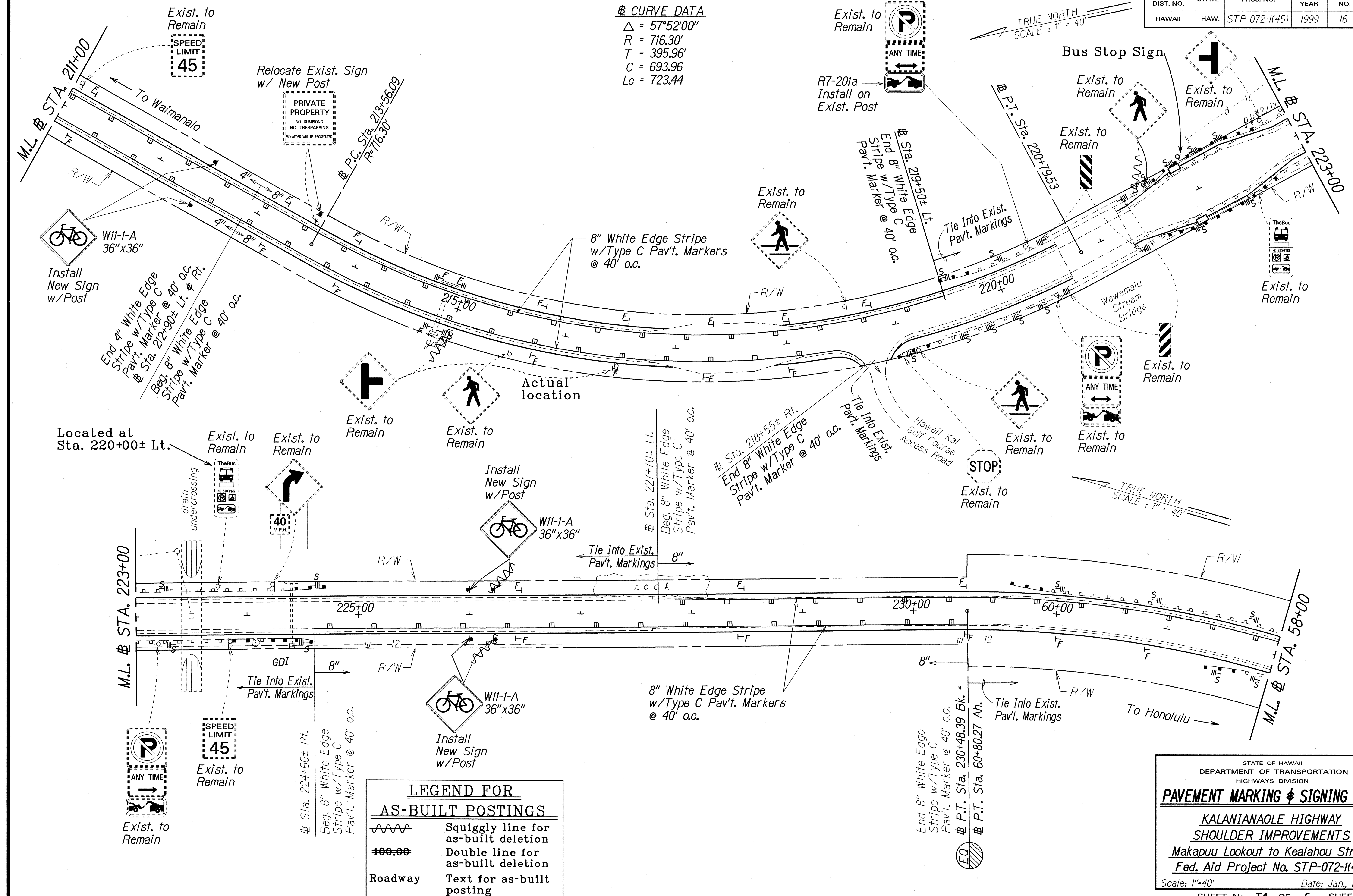
SHEET No. **T3** OF **5** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-072-1(45)	1999	16	33

CURVE DATA

$\Delta = 57^{\circ}52'00''$
 $R = 716.30'$
 $T = 395.96'$
 $C = 693.96'$
 $Lc = 723.44'$

TRUE NORTH
 SCALE: 1" = 40'



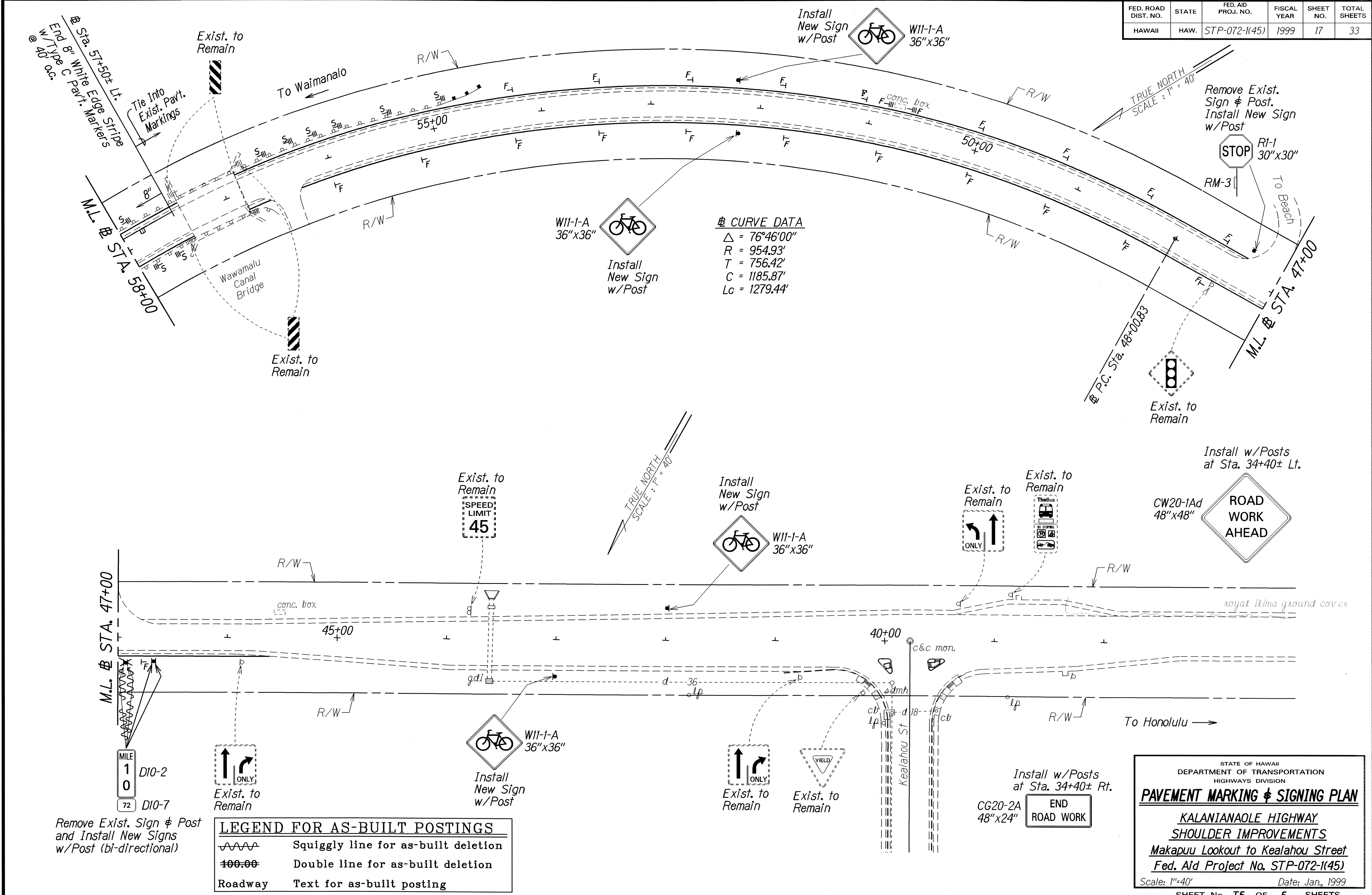
LEGEND FOR AS-BUILT POSTINGS

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

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
PAVEMENT MARKING & SIGNING PLAN
KALANIANA'OLE HIGHWAY
SHOULDER IMPROVEMENTS
Makapuu Lookout to Kealahou Street
Fed. Aid Project No. STP-072-1(45)
 Scale: 1"=40' Date: Jan., 1999
 SHEET No. **16** OF 5 SHEETS

ORIGINAL PLAN	DATE: 2/3/99
SURVEY PLOTTED BY	
DRAWN BY	
NOTED BY	
DESIGNED BY	
CHECKED BY	
ENGINER BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-072-1(45)	1999	17	33



SURVEY PLOTTED BY	DATE
DRAWN BY	2/2/99
TRACED BY	
CHECKED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

KALANIANA'OLE HIGHWAY
SHOULDER IMPROVEMENTS
Makapuu Lookout to Kealahou Street
Fed. Aid Project No. STP-072-1(45)

Scale: 1"=40' Date: Jan., 1999

SHEET NO. 17 OF 5 SHEETS