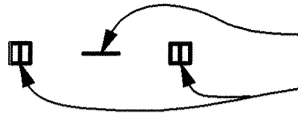

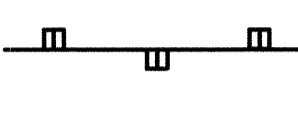
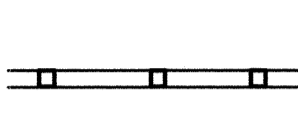



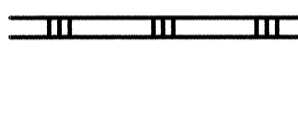


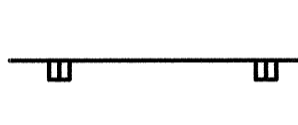
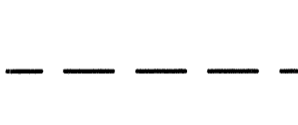
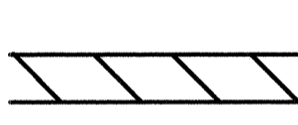
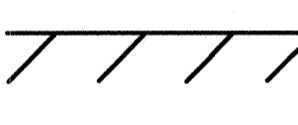
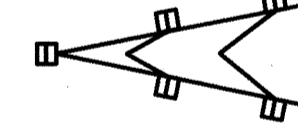

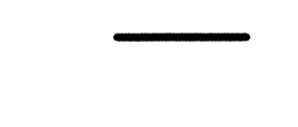



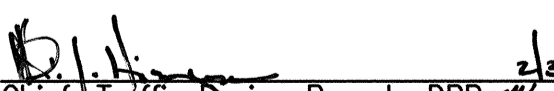
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83B-01-98	2000	25	46

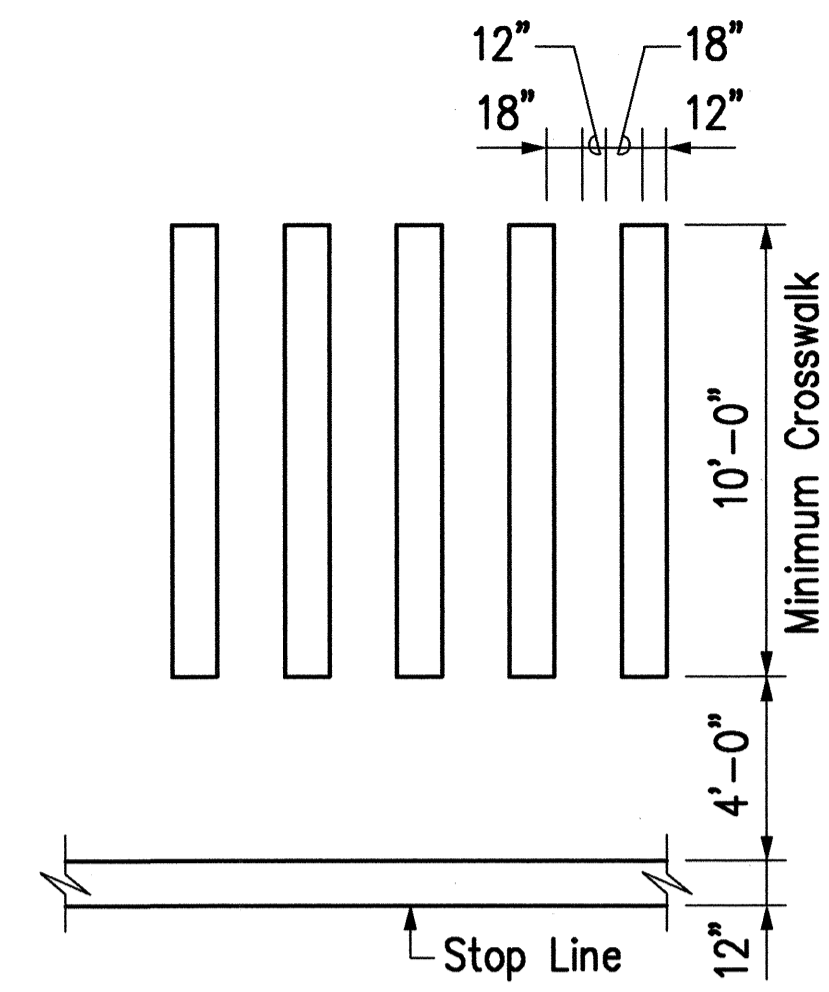
LEGEND

-  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)

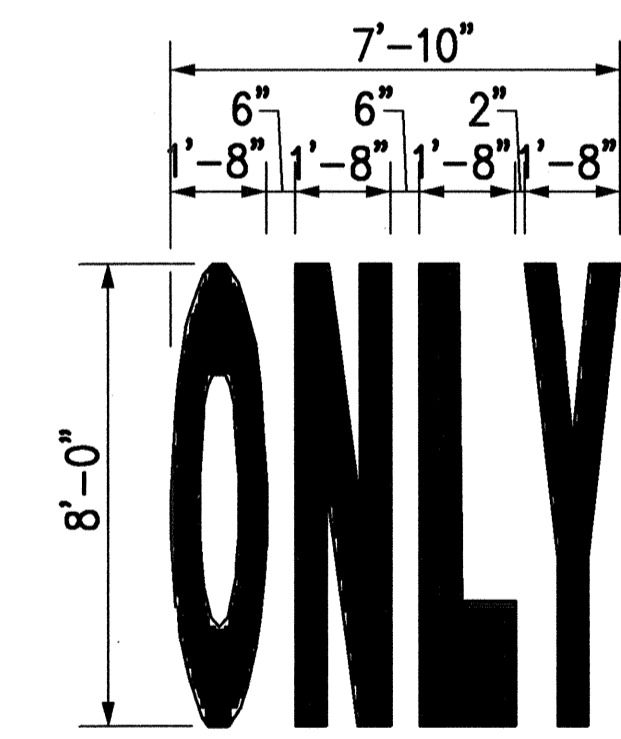
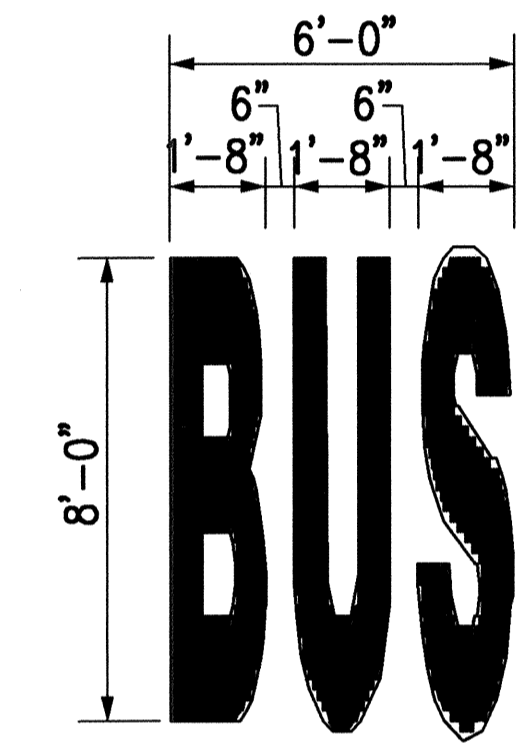
NOTES

1. Layout of pavement markings and striping shall be done by the Contractor and accepted by the Engineer prior to any installation work.
2. Existing pavement markings not incorporated in the final traffic pattern shall be removed as ordered 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 accepted by the Engineer prior to any installation work.
5. Existing signs not shown on these plans shall remain as posted unless otherwise ordered 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.
6. Final locations of all Stop Lines shall be accepted 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 accepted by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
9. 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 ordered by the Engineer for the duration of the 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 ordered by the Engineer, upon the completion of the project.
10. Curb marking shall include top of curb and both sides.
11. Backing for all new Regulatory and Warning Signs shall not be spliced.
12. 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"
13. Border, messages, arrows, symbols and shields shall conform to details as shown on the plans and as specified in the MUTCD.
14. Sign messages shall be as indicated on the plan.
15. All panels shall be reflectorized according to Subsection 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.
16. All new and relocated signs and markers installed on pipe posts, light standard or sign post are to be mounted with band brackets and steel braces.
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. The work shall conform to the applicable provisions of the 1994 American with Disabilities Act Accessibility Guidelines (ADAAG), 4.1 through 4.35 Section 10.

Approved: 
Chief, Traffic Review Branch, DPP Date

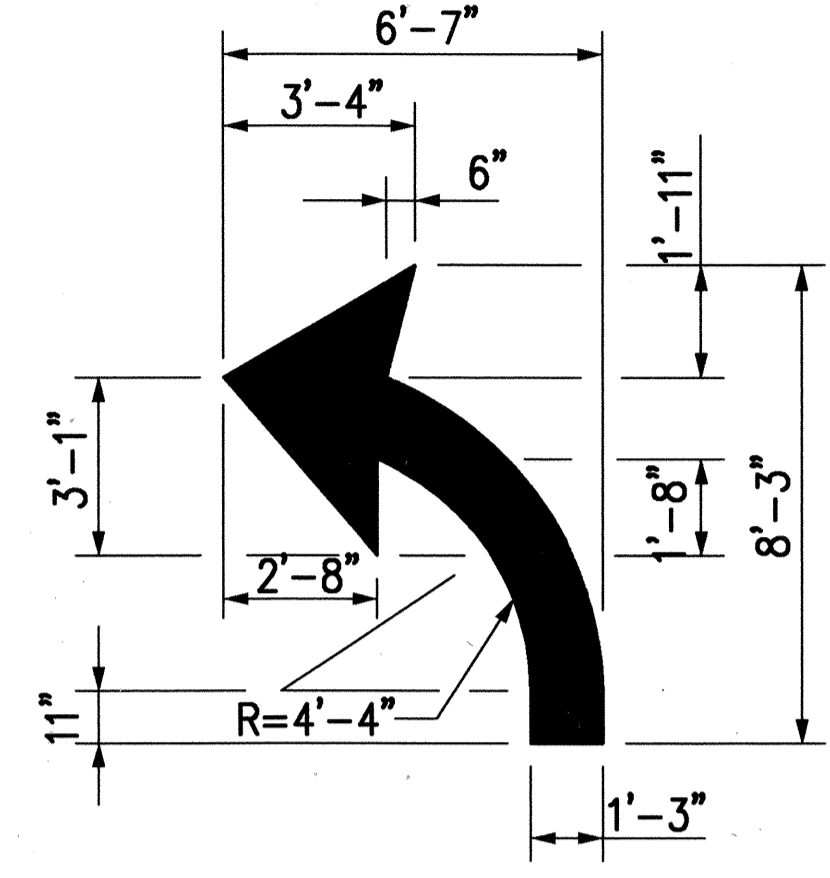


STANDARD CROSSWALK WITH STOP LINE DETAIL
Not to Scale

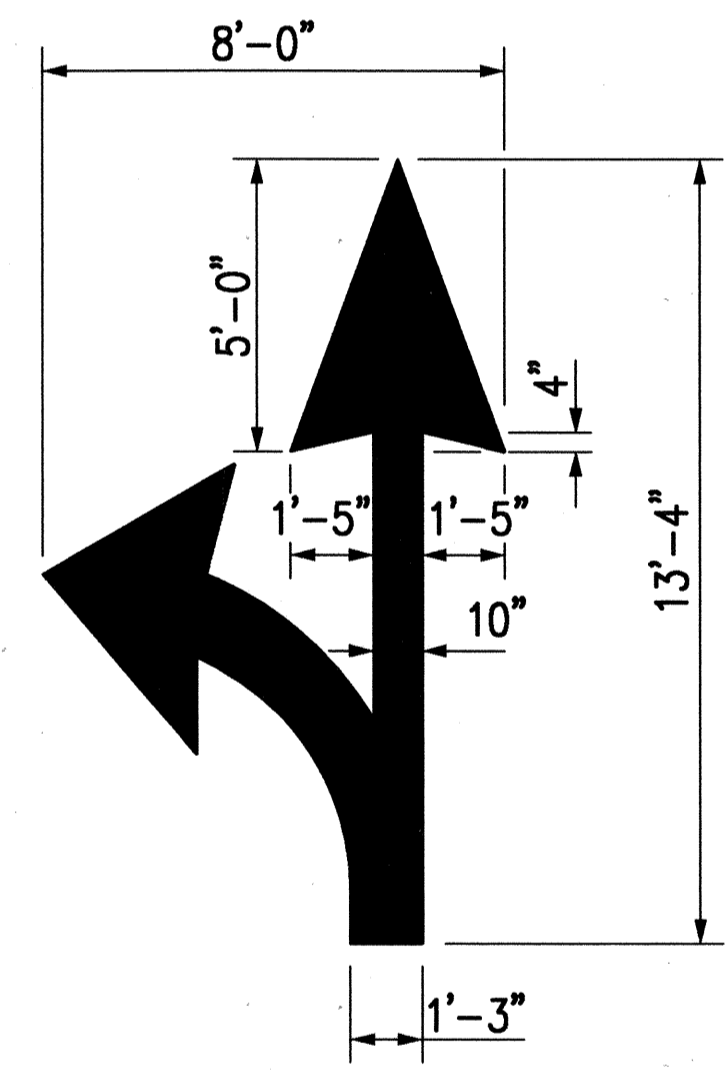


When this marking is used it shall be painted in each lane of traffic approaching the intersection.

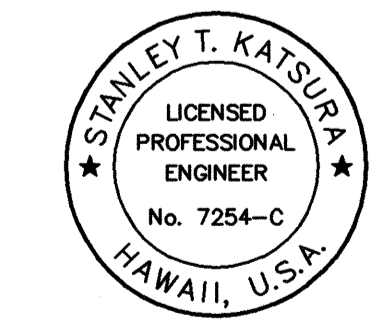
PAVEMENT WORD DETAIL
Not to Scale

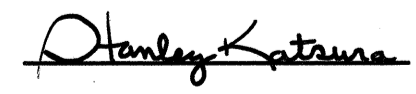


PAVEMENT ARROW DETAIL
Not to Scale



PAVEMENT ARROW DETAIL
Not to Scale



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.


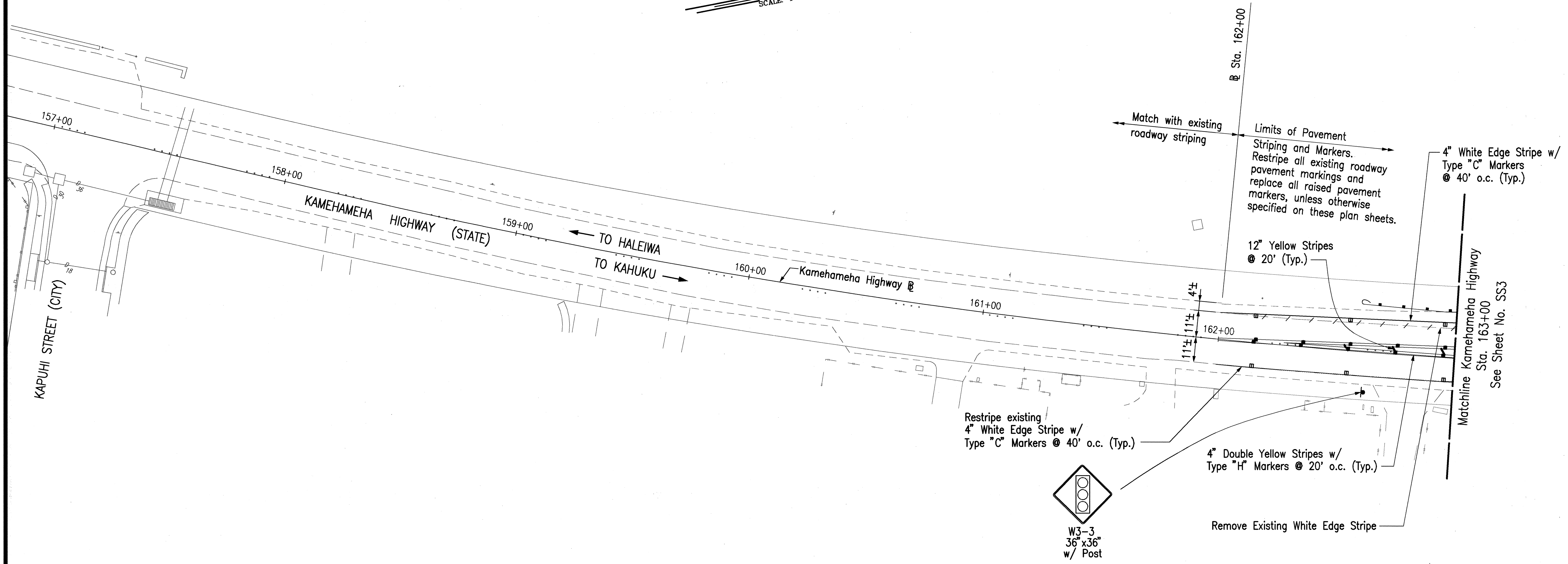
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PAVEMENT MARKINGS AND SIGNING
LEGEND, DETAILS & NOTES
KAMEHAMEHA HIGHWAY
INTERSECTION IMPROVEMENTS AT PUPUKEA ROAD
PROJECT NO. 83B-01-98
SCALE: AS SHOWN DATE: FEBRUARY 2000
SHEET NO. SS1 OF 4 SHEETS

ORIGINAL PLAN DATE
DRAWN BY
TRACED BY
DESIGNED BY
CHECKED BY
No.

CAD BY E BELA CRUZ, 55-52

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83B-01-98	2000	26	46

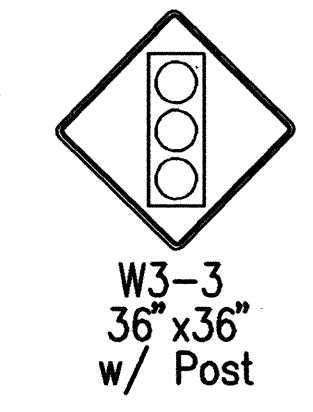
TRUE NORTH
SCALE: 1 IN = 20 FT



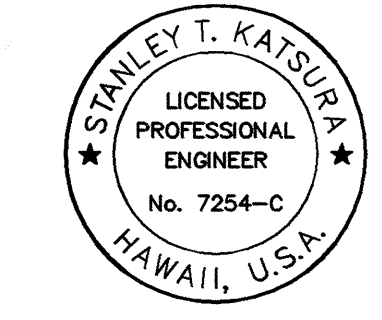
SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
DESIGNED BY	
CHECKED BY	
No.	

CAD by E DELA CRUZ, 95-42

Last Saved: J:\PUPUKEA\SIGN\SS-ppk1.dwg 10/13/99 at 20:08



W3-3
36" x 36"
w/ Post



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Stanley T. Katsura

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**PAVEMENT MARKINGS
AND SIGNING**

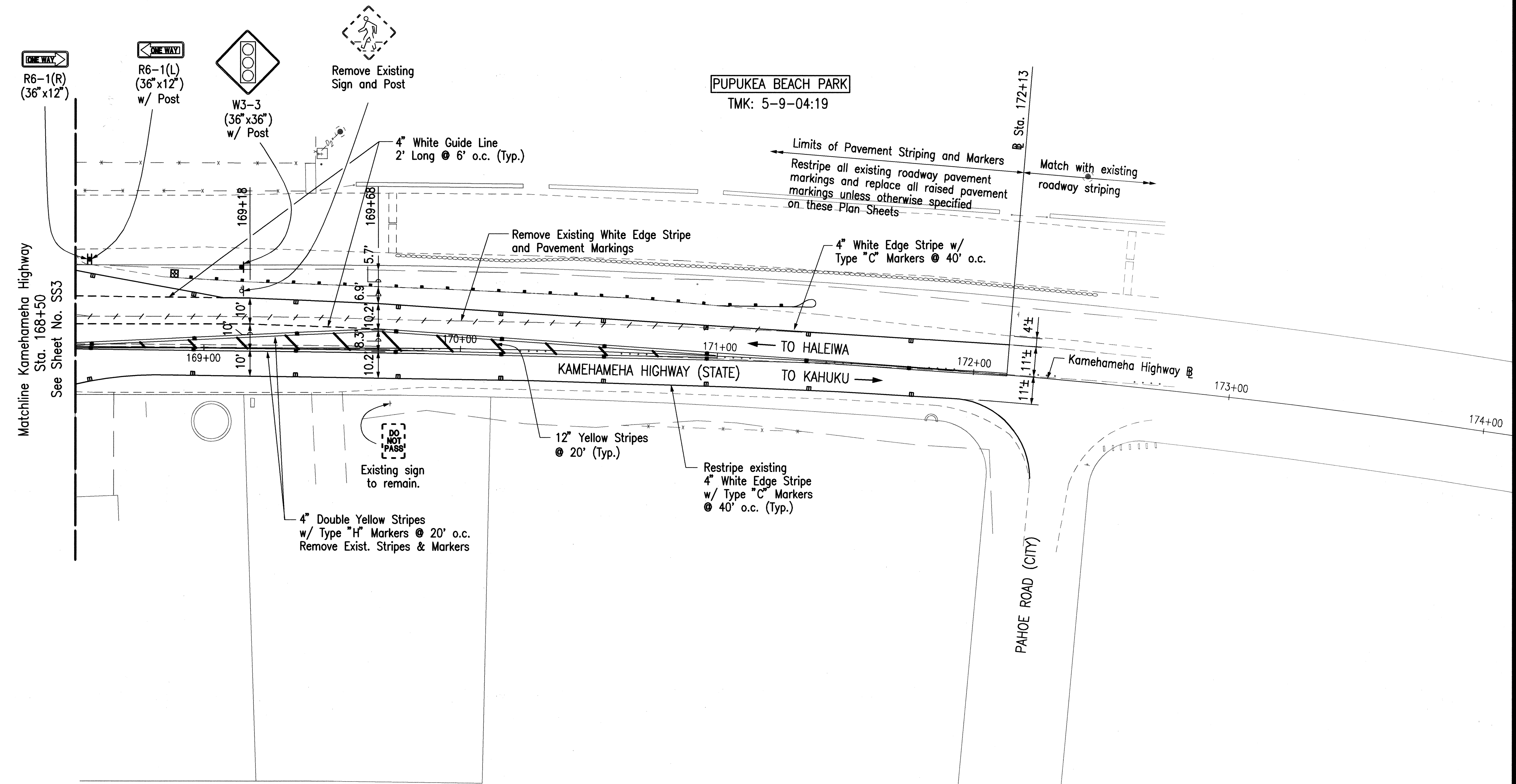
KAMEHAMEHA HIGHWAY
INTERSECTION IMPROVEMENTS AT PUPUKEA ROAD
PROJECT NO. 83B-01-98

SCALE: 1" = 20' DATE: FEBRUARY 2000

SHEET NO. SS2 OF 4 SHEETS

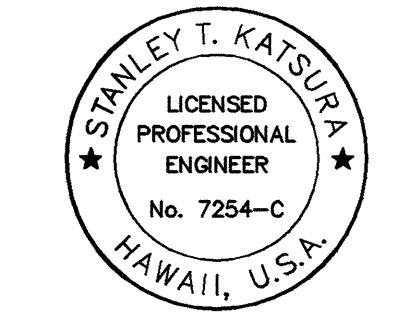
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83B-01-98	2000	28	46

TRUE NORTH
SCALE: 1 IN = 20 FT



SURVEY PLOTTED BY _____ DATE _____
 DRAWN BY _____
 TRACED BY _____
 NOTE BOOK _____
 DISSENTS BY _____
 CHECKED BY _____
 No. _____

CD by E. DELA CRUZ, 95-52



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Stanley Katsura

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

**PAVEMENT MARKINGS
 AND SIGNING**

KAMEHAMEHA HIGHWAY
 INTERSECTION IMPROVEMENTS AT PUPUKEA ROAD
 PROJECT NO. 83B-01-98

SCALE: 1" = 20' DATE: FEBRUARY 2000
 SHEET NO. SS4 OF 4 SHEETS