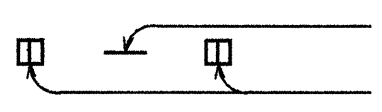
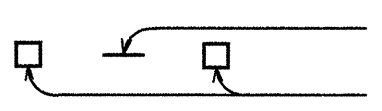
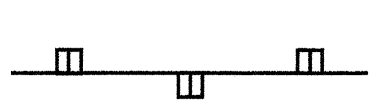








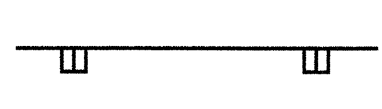
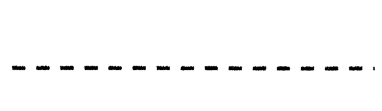
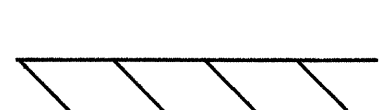
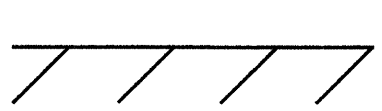


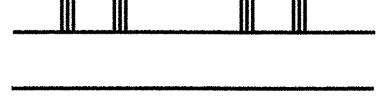


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	99D-01-96	1996	6	11

**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 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 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 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. Backing for all new Regulatory and Warning Signs shall not be spliced.
10. 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"
11. Borders, messages, arrows, symbols and shields shall conform to details as shown on the plans and as specified in the MUTCD.
12. Sign messages shall be as indicated on the plan.
13. All panels shall be reflectorized in accordance with Section 712.20 of the Standard Specifications. Minimum width of panels shall be 2 ft. 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/
14. 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.
15. Removal of Existing Delineators and Posts shall be considered incidental to the various signing items.
16. The exact locations of the new loop detectors shall be determined in the field by the Engineer.
17. Loop detectors damaged during the Contractor's reconstruction of pavement areas or cold planing operation, shall be replaced with 48 hours. Replacement and locations of the new loop detectors shall be as directed by the Engineer.

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NOTE BOOK	
162/mjy	
N. Gilling	

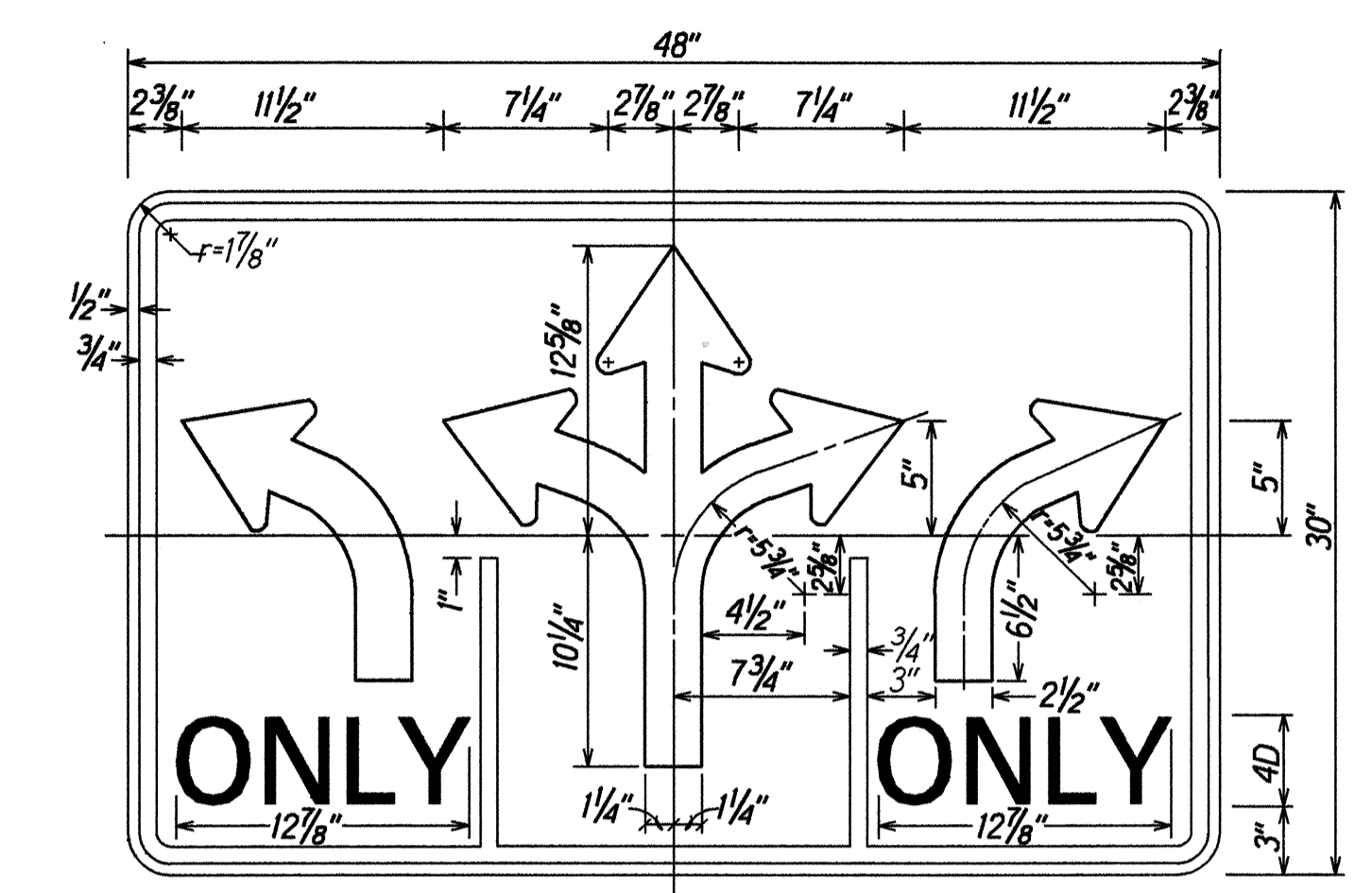
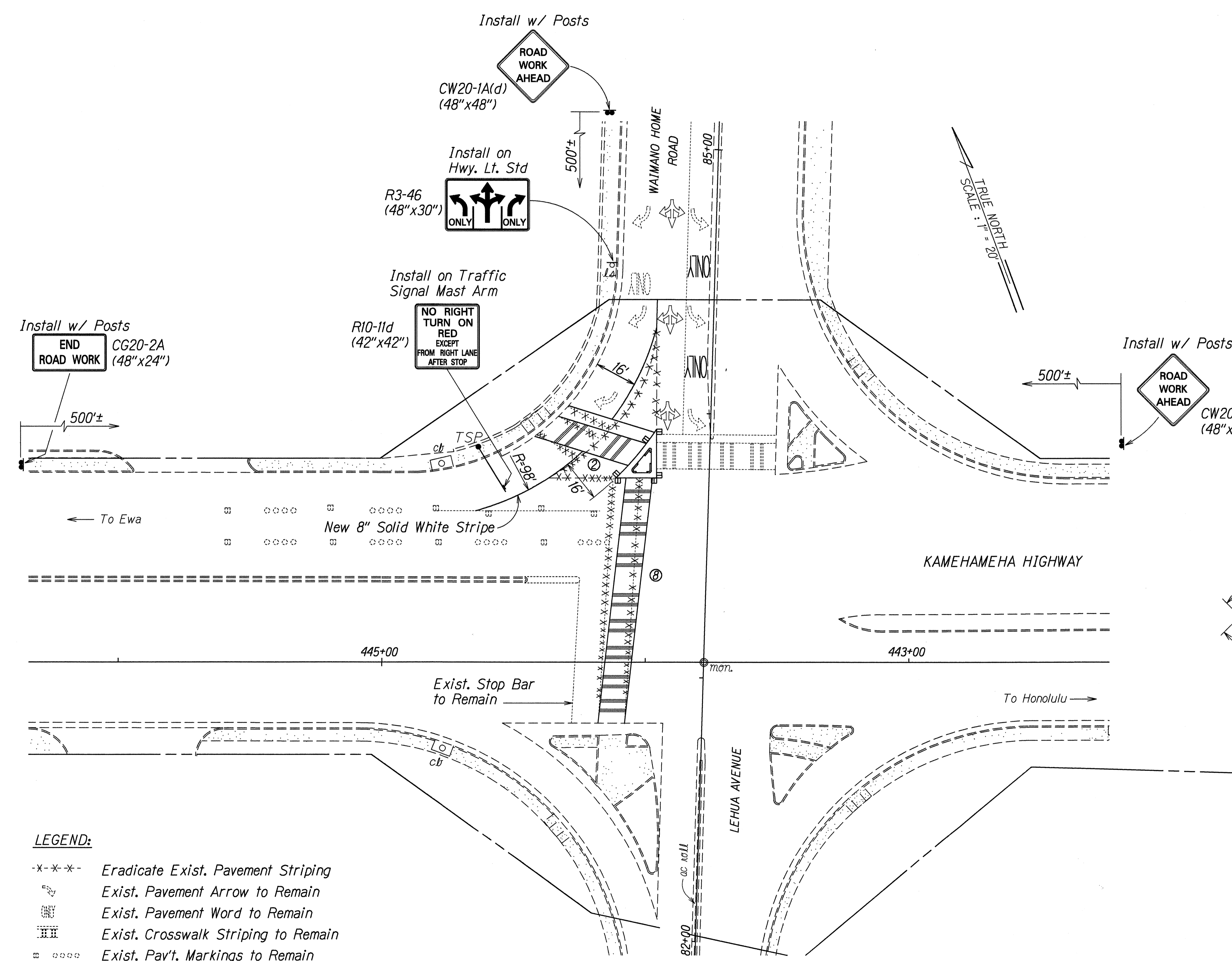
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PAVEMENT MARKING**  
**LEGEND, & NOTES**

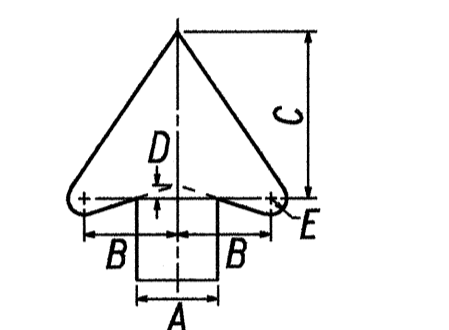
KAMEHAMEHA HIGHWAY  
INTERSECTION IMPROVEMENTS  
AT WAIMANO HOME ROAD  
Project No. 99D-01-96  
Date: Mar., 1996

SHEET No. 11 OF 2 SHEETS

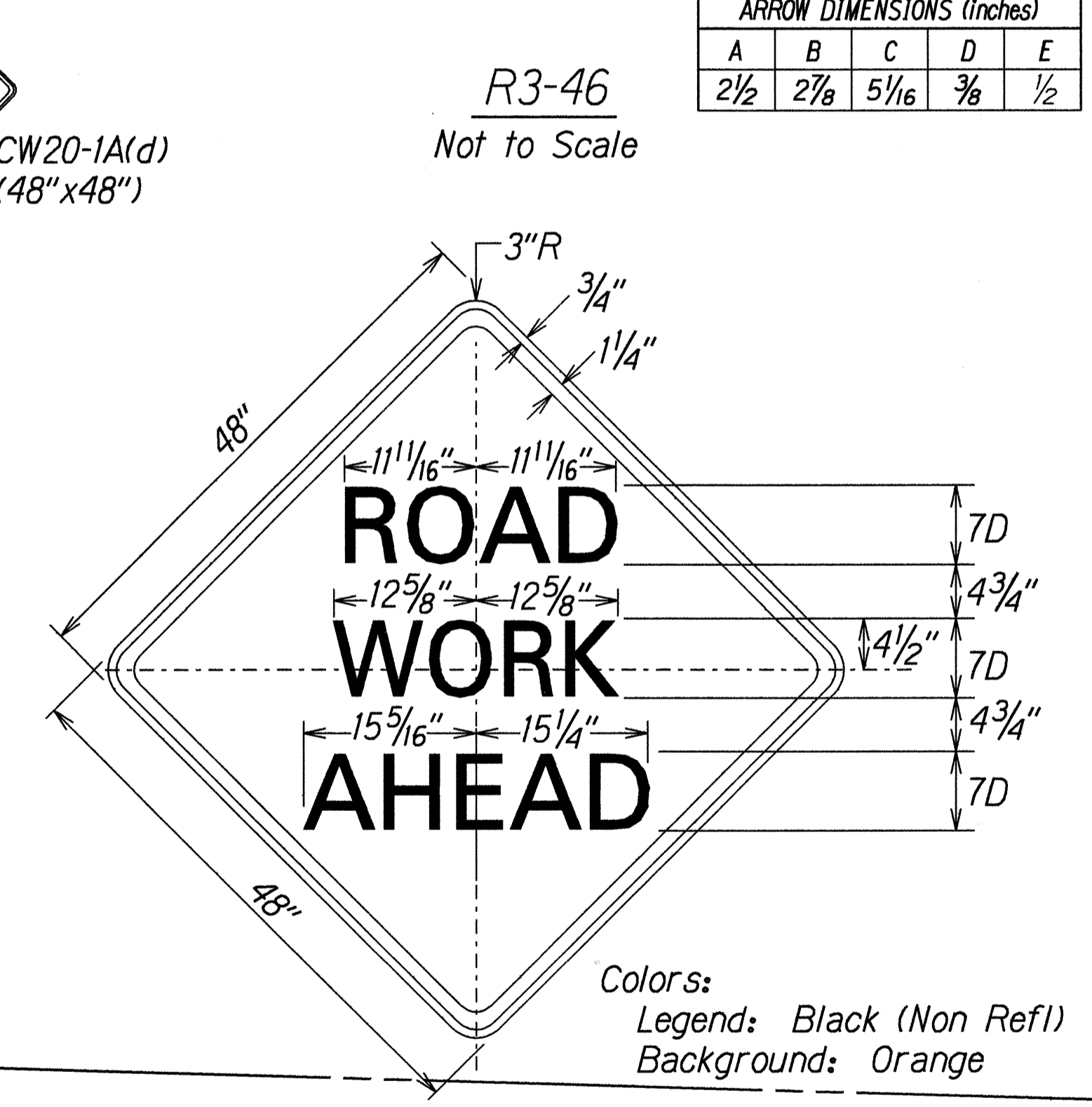
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	99D-01-96	1996	7	11



COLORS:  
Legend - Black (Non-Ref.)  
Background - White (Ref.)



ARROW DIMENSIONS (Inches)				
A	B	C	D	E
2 1/2	2 7/8	5 1/16	3/8	1/2



Install w/ Posts  
**END ROAD WORK** CG20-2A (48"x24")

Install on Traffic Signal Mast Arm  
R10-11d (42"x42")  
**NO RIGHT TURN ON RED EXCEPT FROM RIGHT LANE AFTER STOP**

Install on Hwy. Lt. Std  
R3-46 (48"x30")  
**ONLY**

Install w/ Posts  
**ROAD WORK AHEAD** CW20-1A(d) (48"x48")

Install w/ Posts  
**ROAD WORK AHEAD** CW20-1A(d) (48"x48")

To Ewa ←

→ To Honolulu

- LEGEND:**
- \*-\*- Eradicate Exist. Pavement Striping
  - ↪ Exist. Pavement Arrow to Remain
  - ⊠ Exist. Pavement Word to Remain
  - ⊠⊠ Exist. Crosswalk Striping to Remain
  - ⊠ ⊠⊠⊠ Exist. Pav't. Markings to Remain

DATE: 1/21/96  
SURVEY PLOTTED BY: [blank]  
DRAWN BY: H. [blank]  
DESIGNED BY: G. KAGCHI  
NOTE BOOK: [blank]  
QUANTITIES BY: [blank]  
CHECKED BY: [blank]

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PAVEMENT MARKING & SIGNING PLAN**

KAMEHAMEHA HIGHWAY  
INTERSECTION IMPROVEMENTS  
AT WAIMANO HOME ROAD

Project No. 99D-01-96  
Scale: 1" = 20' Date: Mar., 1996

SHEET No. T2 OF 2 SHEETS