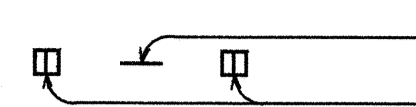
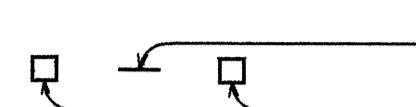



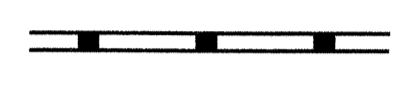
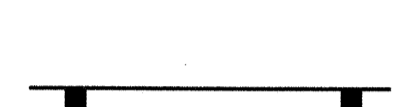



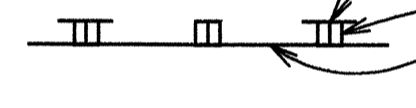



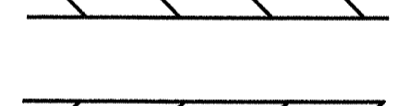





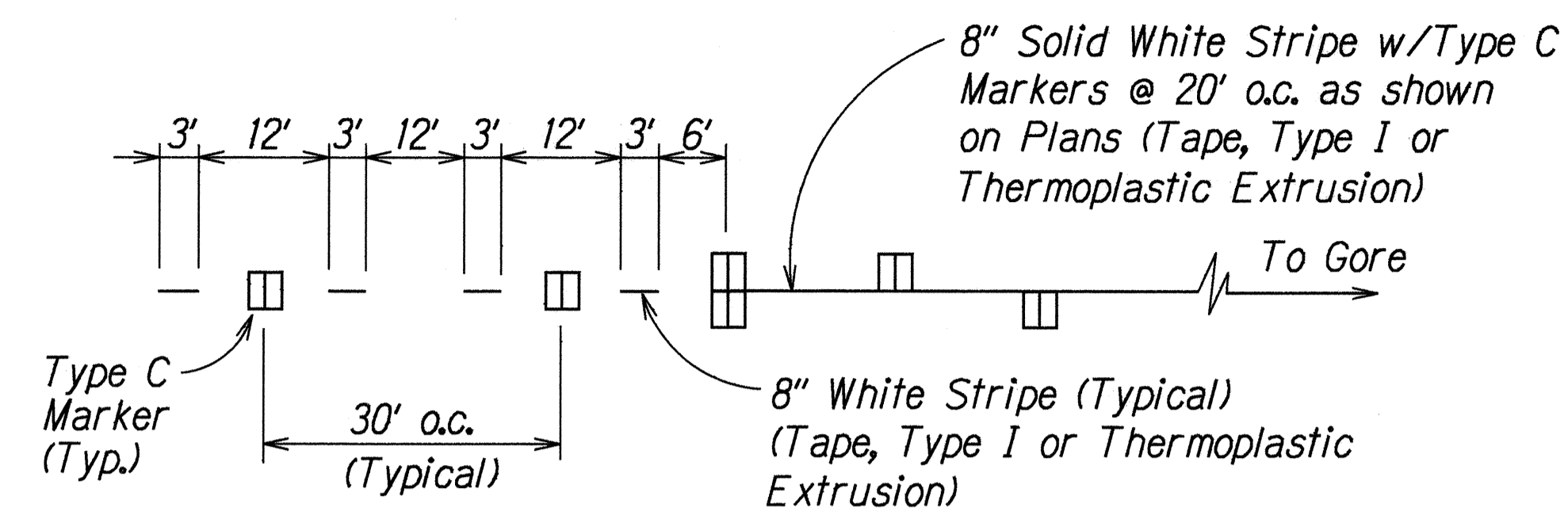
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-02-99	2000	19	32

**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)

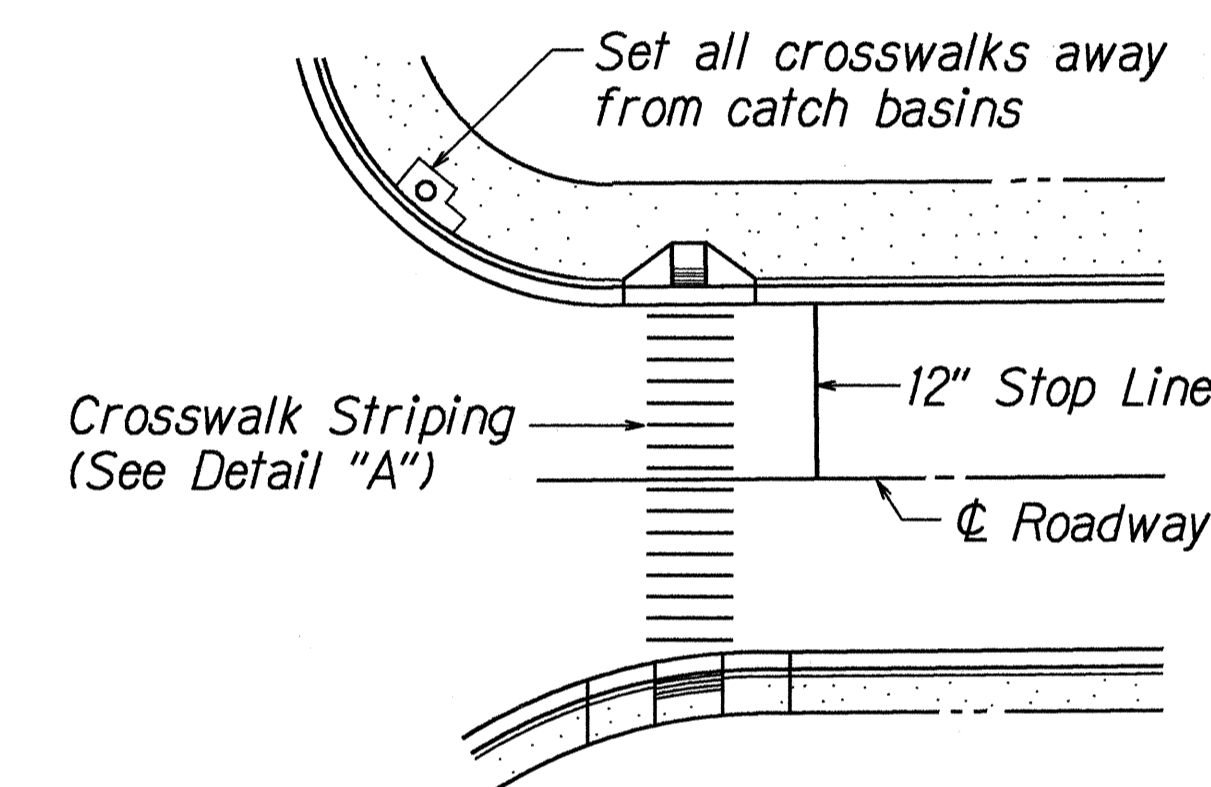
**NOTES**

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 including crosswalk marking 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. 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.
10. Existing signs that are to be replaced shall not be removed until new signs are installed as replacements, or the messages are no longer necessary.
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 Street and Highways" (MUTCD)
  - b. "Standard Highway Signs"
  - c. "Standard Alphabets for Highway Signs"
13. All new and relocated signs and markers installed on pipe post, traffic signal standard, or light standard are to be mounted with band brackets and steel braces.
14. Removing and reinstalling existing Signs on Regulatory and Warning Sign Post shall not be paid for separately but shall be considered incidental to the various signing items.
15. The Contractor shall notify the Oahu Transit Services Inc. (OTS), Ed Sniffen, at 848-4571 or Lowell Tom at 848-4578 two weeks prior to beginning any work, informing them of location, scope of work, proposed closure of any street or traffic lanes, and the need to relocate any bus stop.

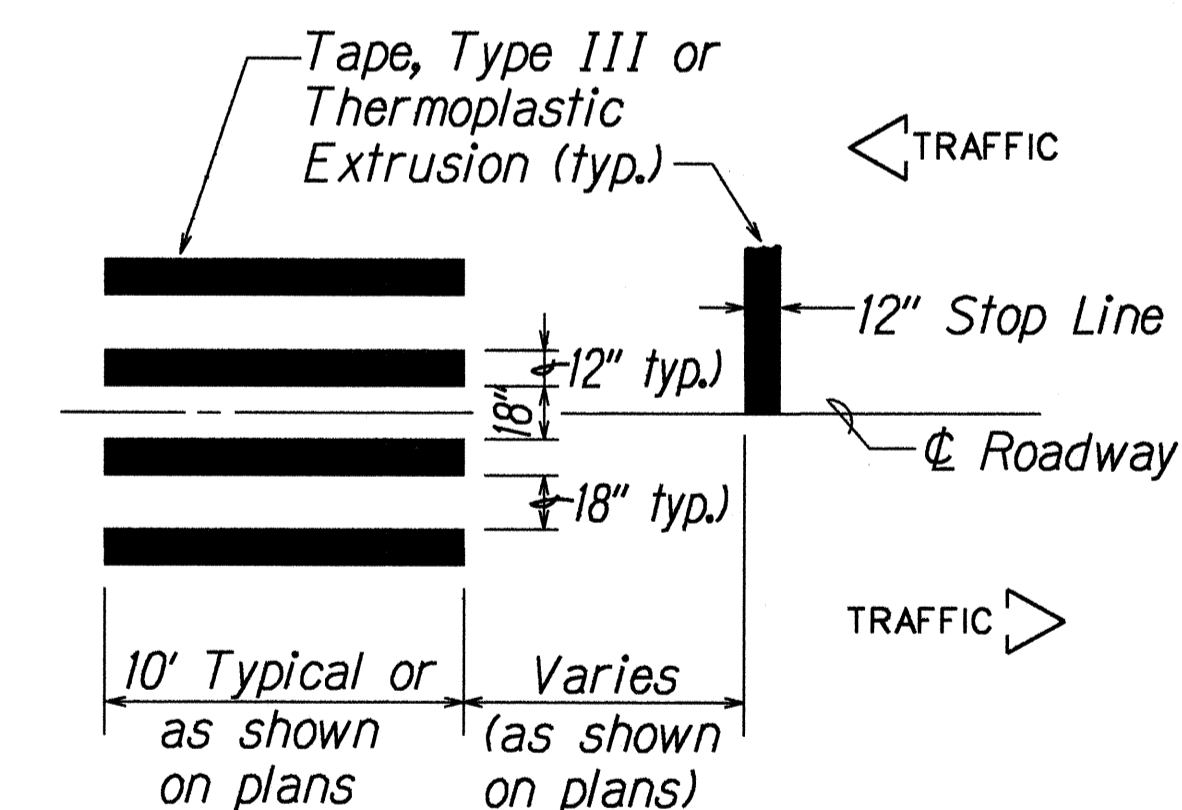


**LANE DROP MARKING**

Not to Scale



**PLAN**



**DETAIL "A"**

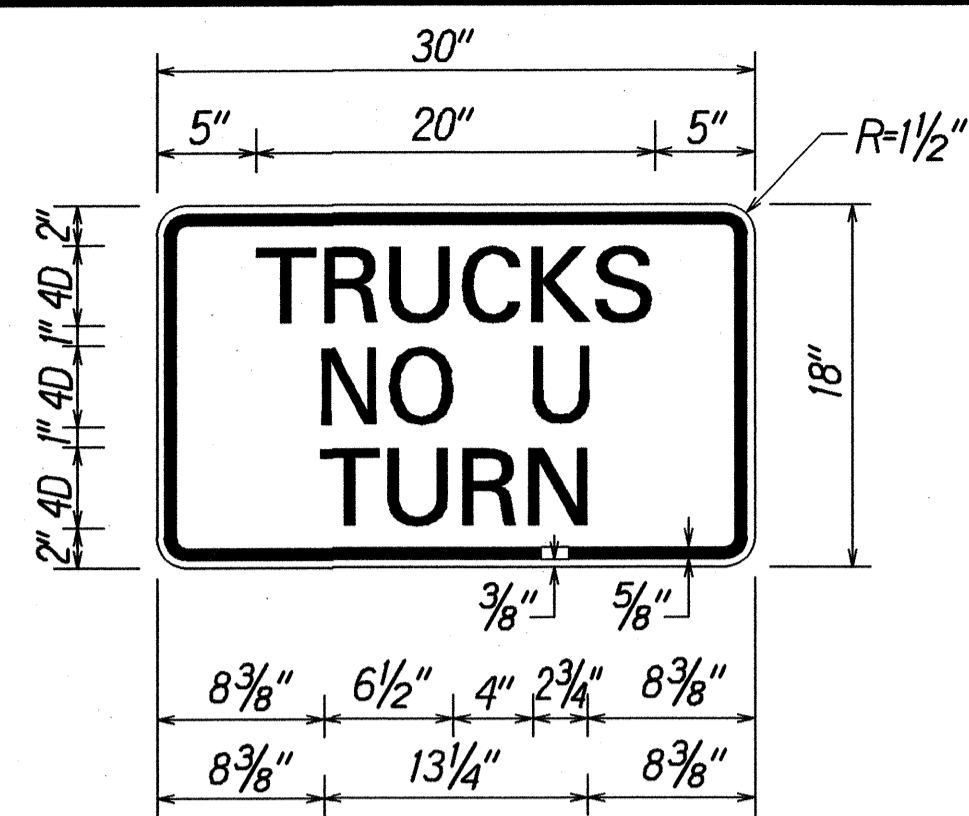
**CROSSWALK STRIPING DETAIL**

Not to Scale

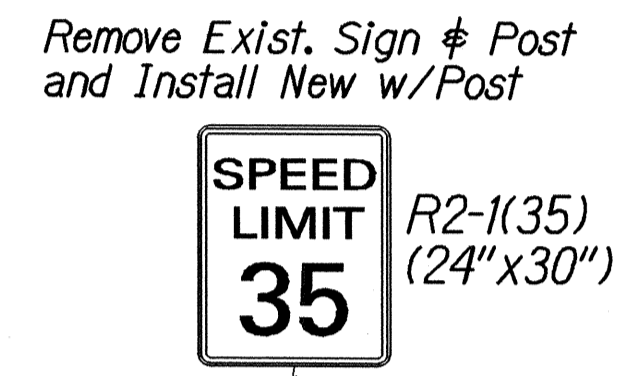
SURVEY PLOTTED BY: DATE: 10/11/99  
 DRAWN BY: B. Acil  
 TRACED BY: S. Yoshida  
 NOTE BOOK: rdl/ruby  
 QUANTITIES BY: S. Yoshida  
 CHECKED BY: S. Yoshida  
 ORIGINAL PLAN: S. Yoshida  
 NOTE BOOK: rdl/ruby  
 QUANTITIES BY: S. Yoshida  
 CHECKED BY: S. Yoshida

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**PAVEMENT MARKING**  
**LEGEND, DETAILS & NOTES**  
 FARRINGTON HIGHWAY  
 Intersection Improvements at Leoku Street  
 Project No. 7101A-02-99  
 Scale: As Noted Date: April, 2000  
 SHEET No. 11 OF 8 SHEETS

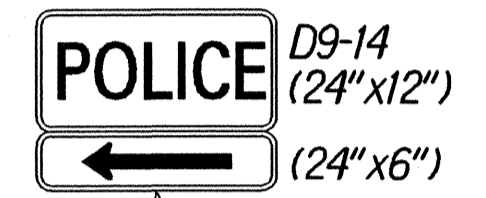
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-02-99	2000	C.O.20	32



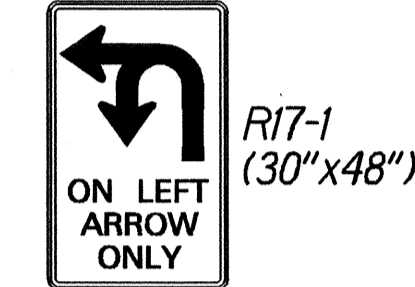
Colors: Legend - Black (Non-Refl.)  
Background - White (Refl.)  
**R17-1a**  
Not To Scale



Remove Exist. Sign & Post and Install New w/Post  
**R2-1(35)**  
(24"x30")



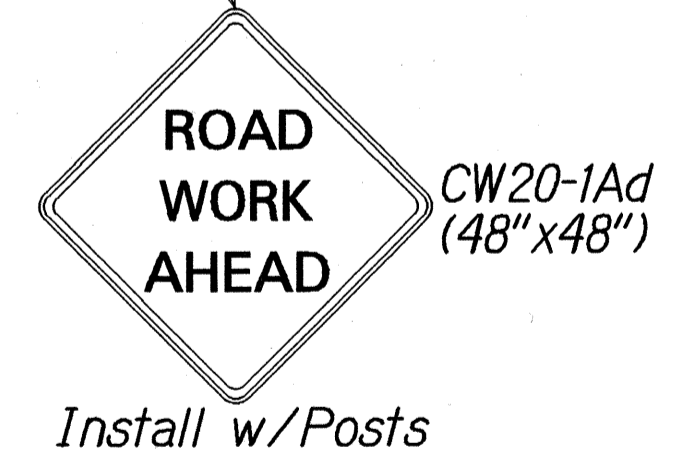
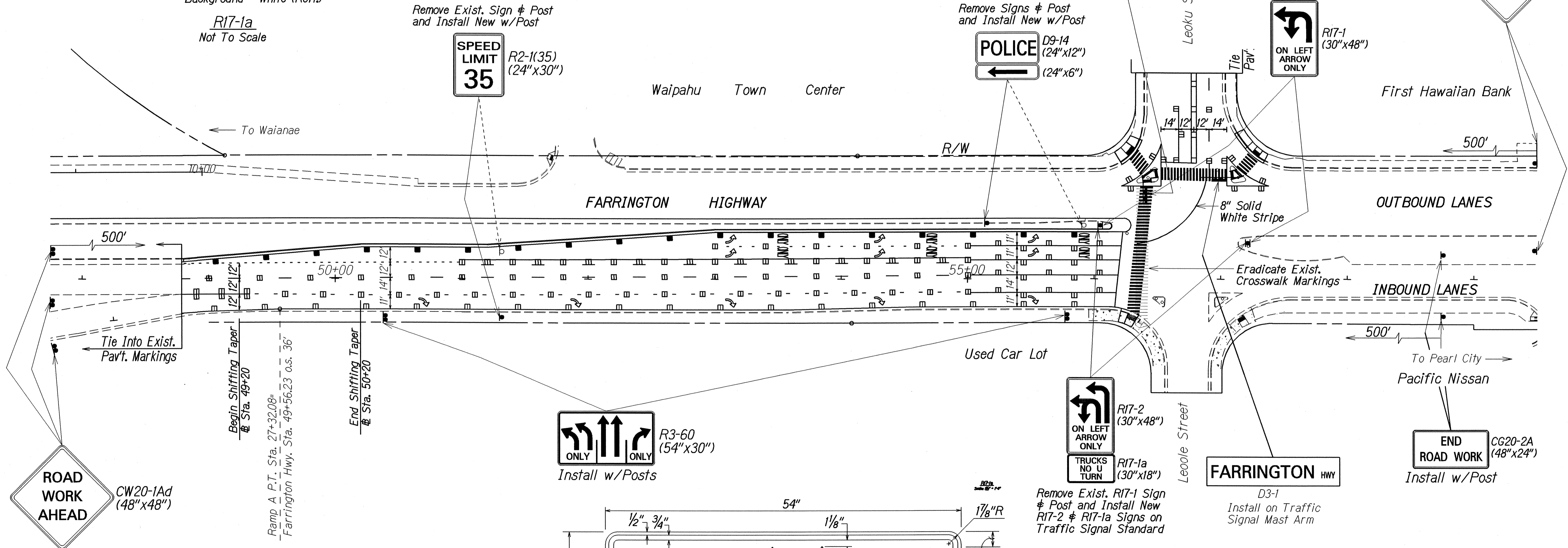
Remove Signs & Post and Install New w/Post  
**D9-14**  
(24"x12")  
**R17-1**  
(24"x6")



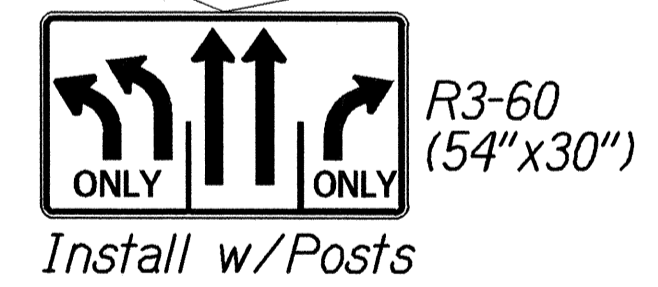
Remove Sign & Post and Install New on Traffic Signal Standard  
**R17-1**  
(30"x48")



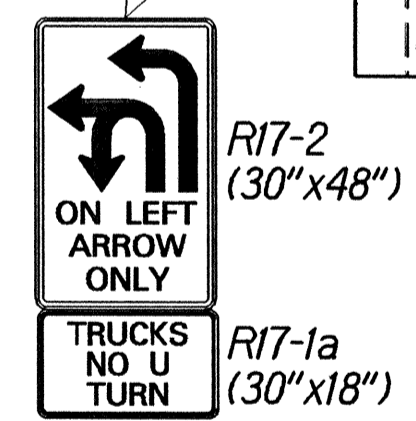
**CW20-1Ad**  
(48"x48")



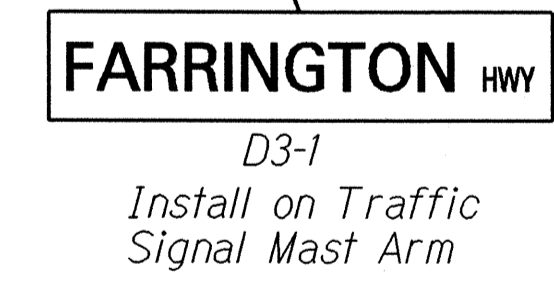
Install w/Posts  
**CW20-1Ad**  
(48"x48")



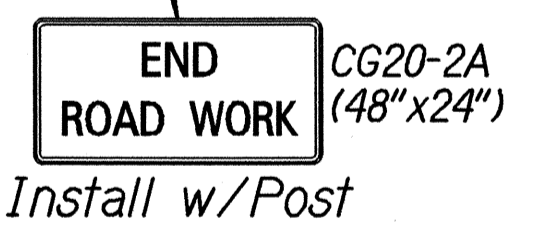
Install w/Posts  
**R3-60**  
(54"x30")



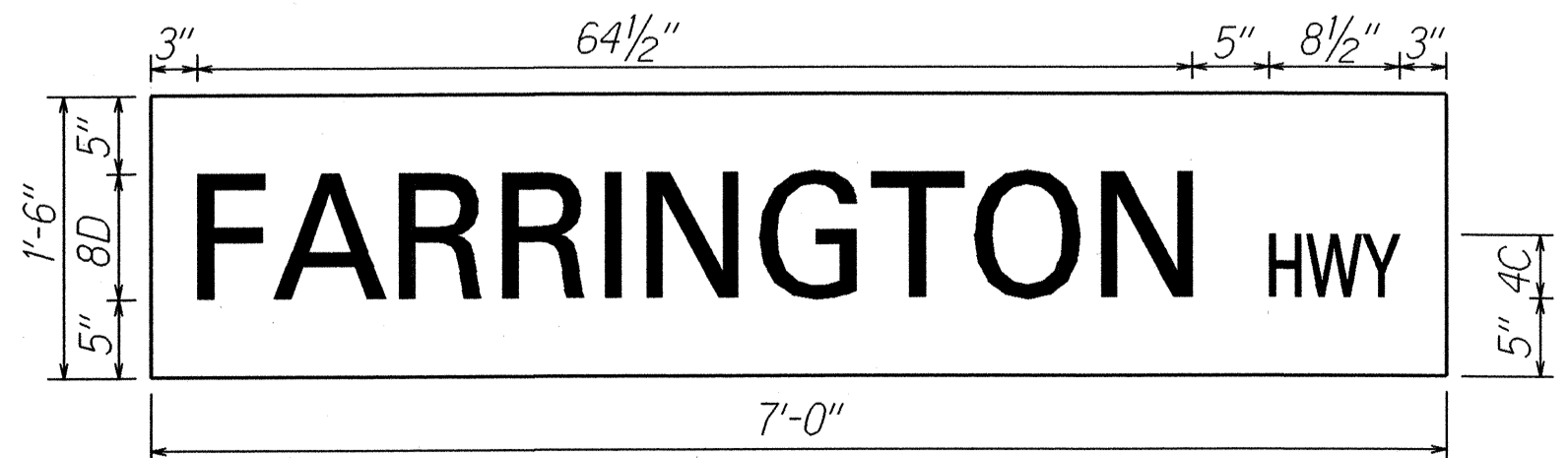
Remove Exist. R17-1 Sign & Post and Install New R17-2 & R17-1a Signs on Traffic Signal Standard  
**R17-2**  
(30"x48")  
**R17-1a**  
(30"x18")



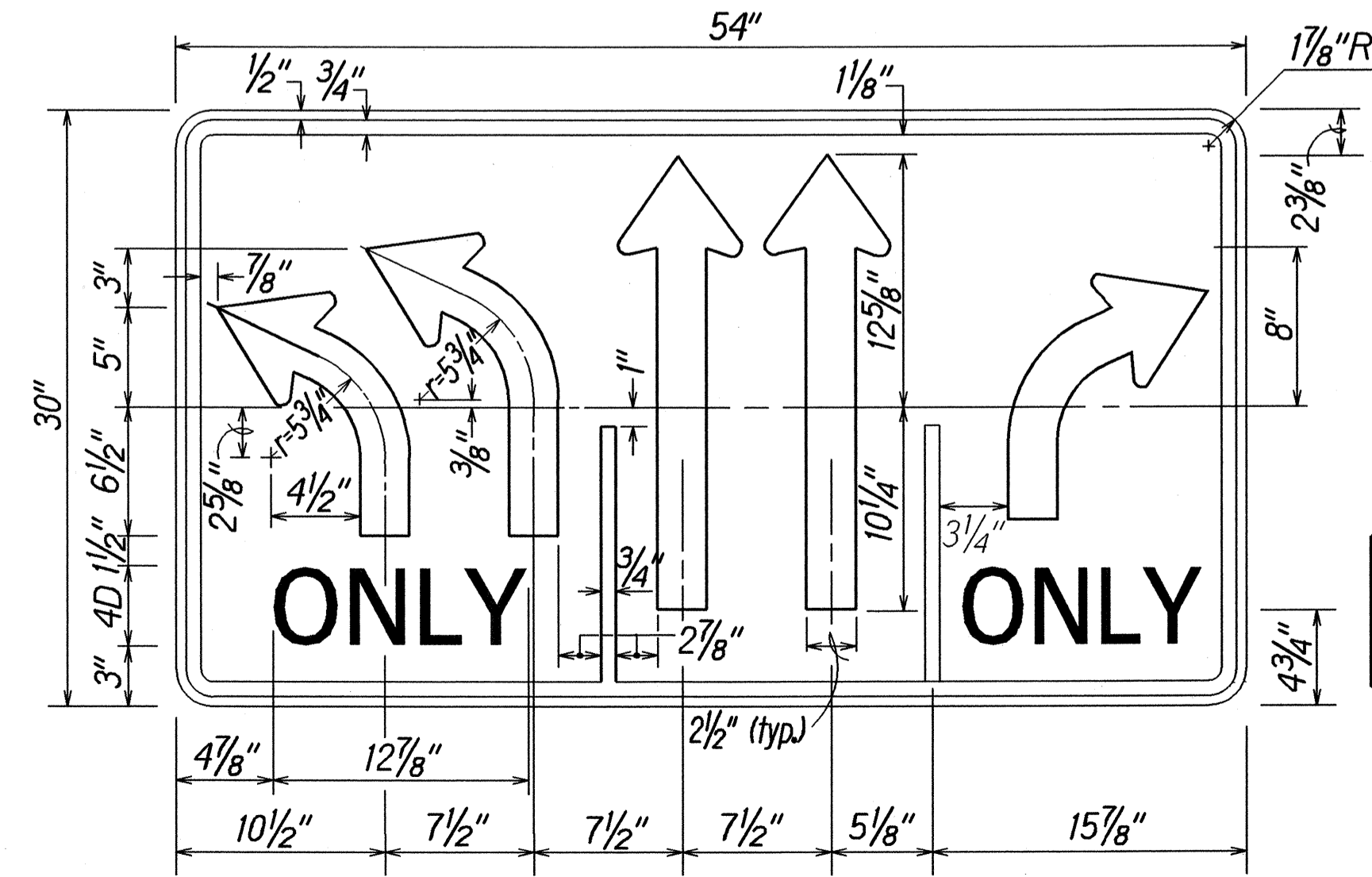
Install on Traffic Signal Mast Arm  
**D3-1**



Install w/Post  
**CG20-2A**  
(48"x24")



Not to Scale  
**D3-1**



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

Not to Scale  
**R3-60**

DATE	7/1/99
DESIGNED BY	S. L. O'SHEA
CHECKED BY	N. H. WILSON

9/27/00	Add two each R17-1a "TRUCKS NO U TURN".
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<b>PAVEMENT MARKING &amp; SIGNING PLAN</b>	
<b>FARRINGTON HIGHWAY</b> Intersection Improvements at Leoku Street Project No. 7101A-02-99	
Scale: 1"=40'	Date: April, 2000
SHEET No. T2 OF 8 SHEETS	