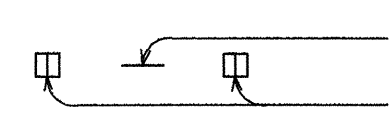
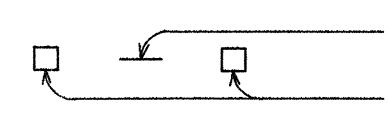

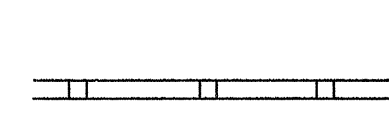



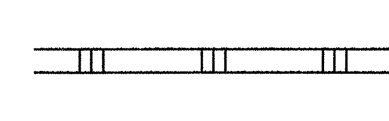

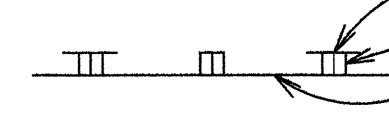
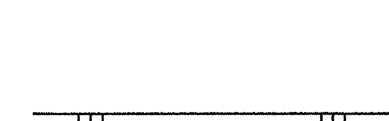

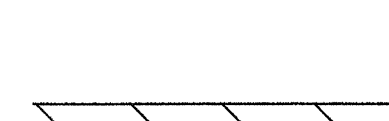



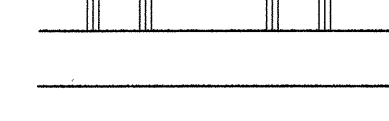



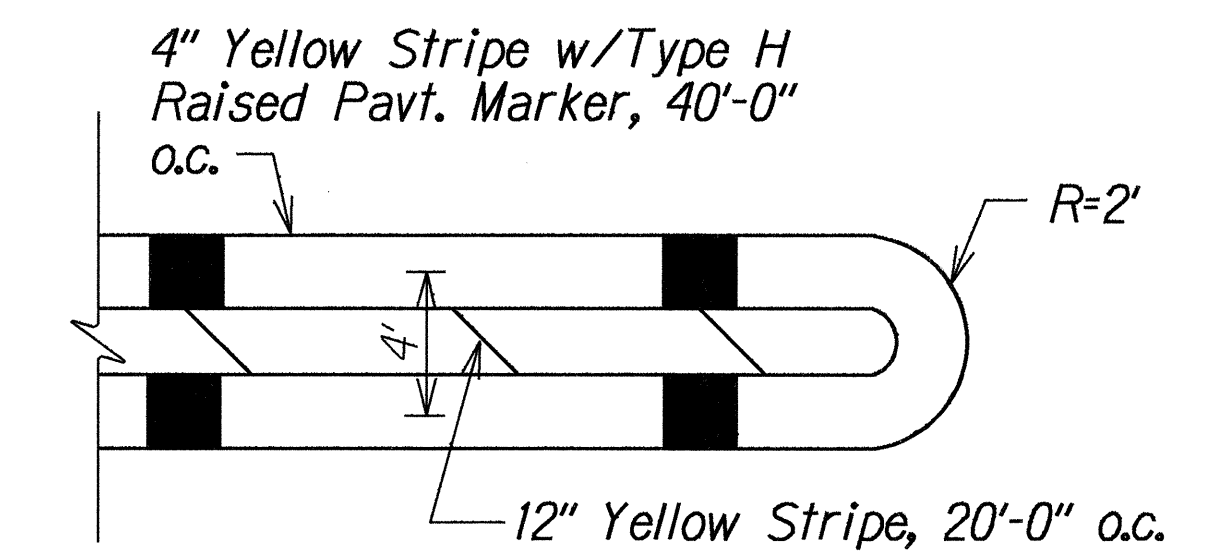
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	26	46

LEGEND

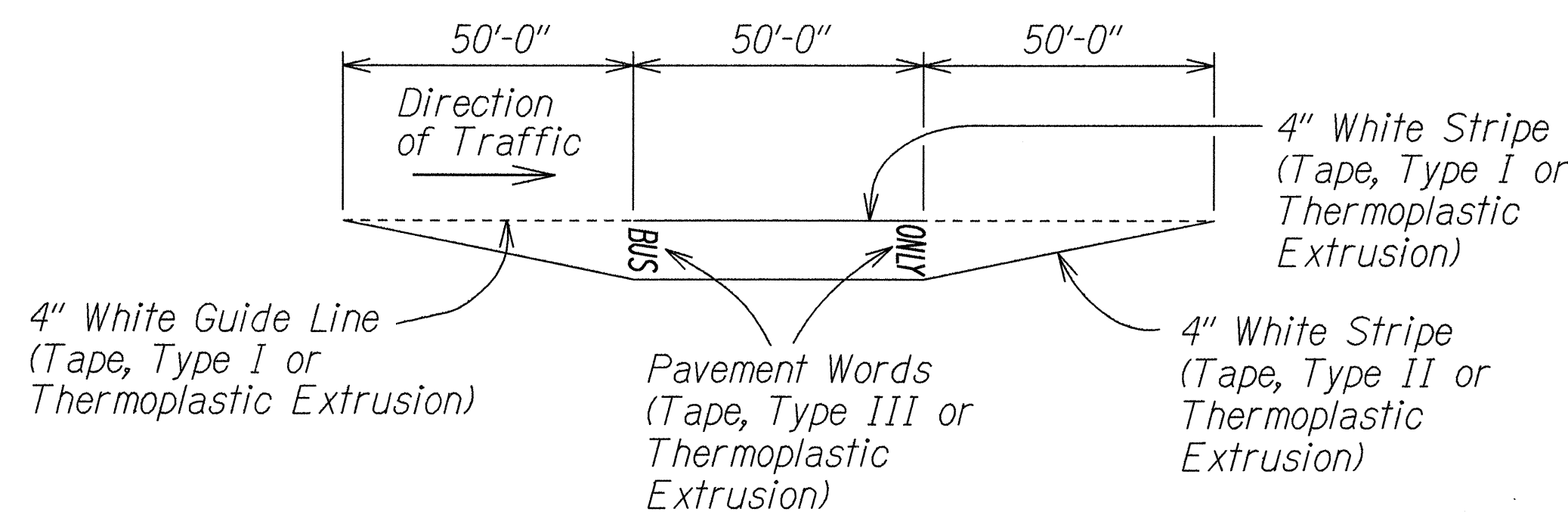
-  4 each Type A Raised Pavement Markers
Type C Raised Pavement Markers @ 40'-0" o.c.
-  4 each Type J Raised Pavement Markers
Type D Raised Pavement Markers @ 40'-0" o.c.
-  8" White Stripe with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
-  4" Double Solid 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

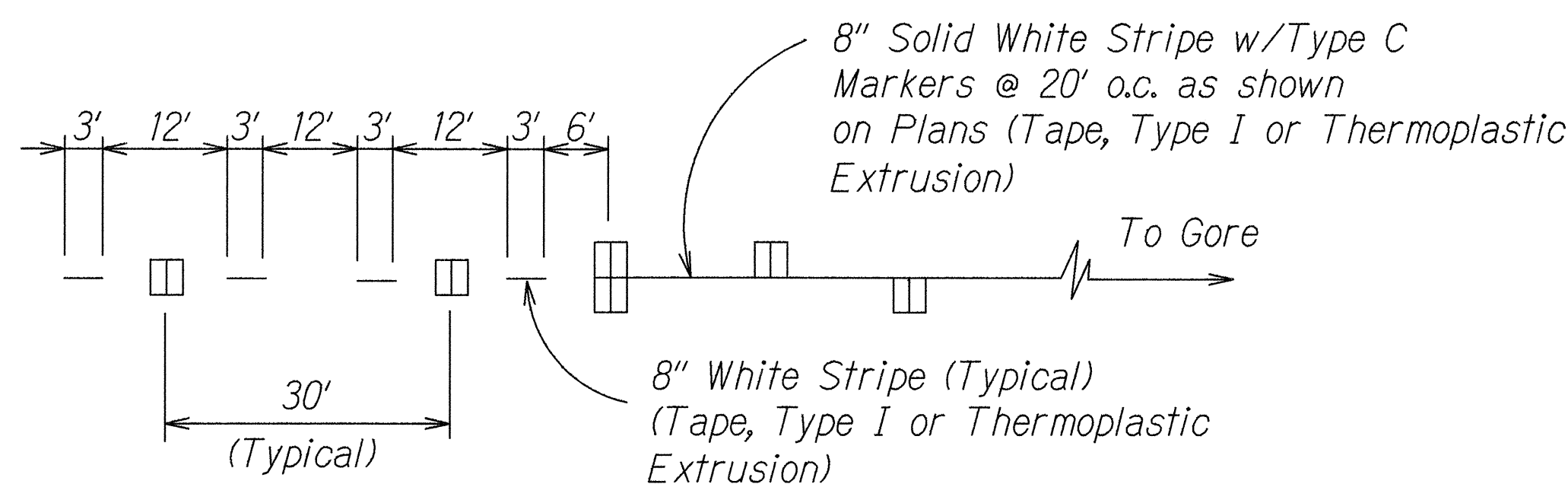
1. Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
2. Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. Costs shall be incidental to the various pavement 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.



MEDIAN STRIPING
Not to Scale



TYPICAL BUS BAY STRIPING
Not to Scale



LANE DROP MARKING
Not to Scale

ORIGINAL PLAN	DATE	2/94
SURVEY PLOTTED BY		
DRAWN BY		
DESIGNED BY		
QUANTITIES BY		
CHECKED BY		
NOTE BOOK		
FILE		
DATE		

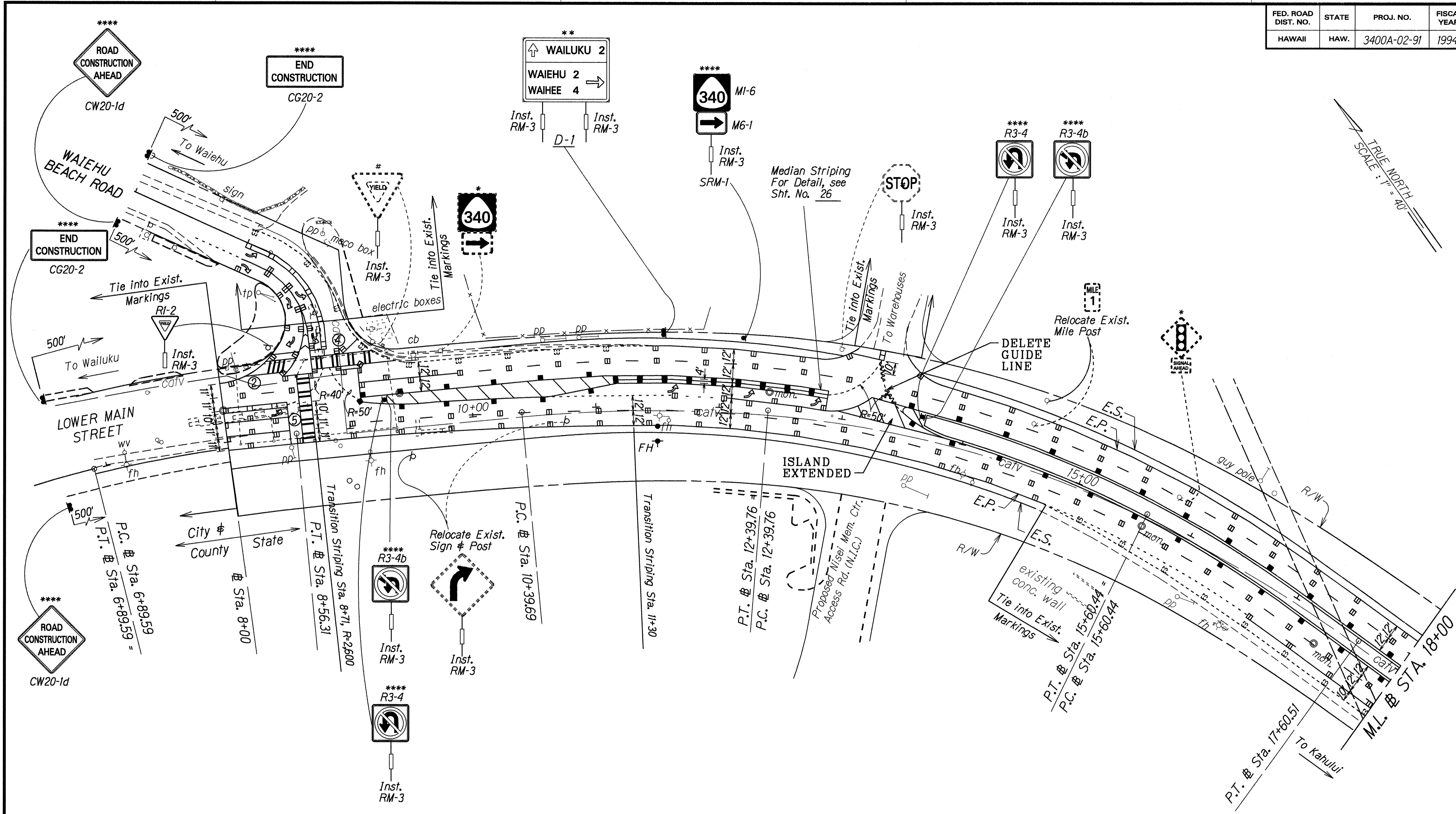
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING
LEGEND, DETAILS & NOTES

KAHULUI BEACH ROAD IMPROVEMENTS
Waiehu Beach Road to Kaahumanu Avenue
Project No. 3400A-02-91

Scale: Not to Scale Date: Feb. 1994
SHEET No. 26 OF 46 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	27	46



TRUE NORTH
SCALE: 1" = 40'

- KEY:**
- * Remove Exist. Sign(s) & Post(s)
 - ** Remove Exist. & Install New Sign(s) and Post(s)
 - *** Remove Exist. & Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard
 - **** Install New Sign(s) w/Post(s)
 - ***** Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard
 - # Exist. Sign(s) to Remain

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

DATE	REVISION
6/1/94	Revised Pavement Marking & Striping

SURVEY PLOTTED BY	DATE
DRAWN BY	1/94
NOTE BOOK	
TRANSMITTED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**PAVEMENT MARKING
& SIGNING PLAN**

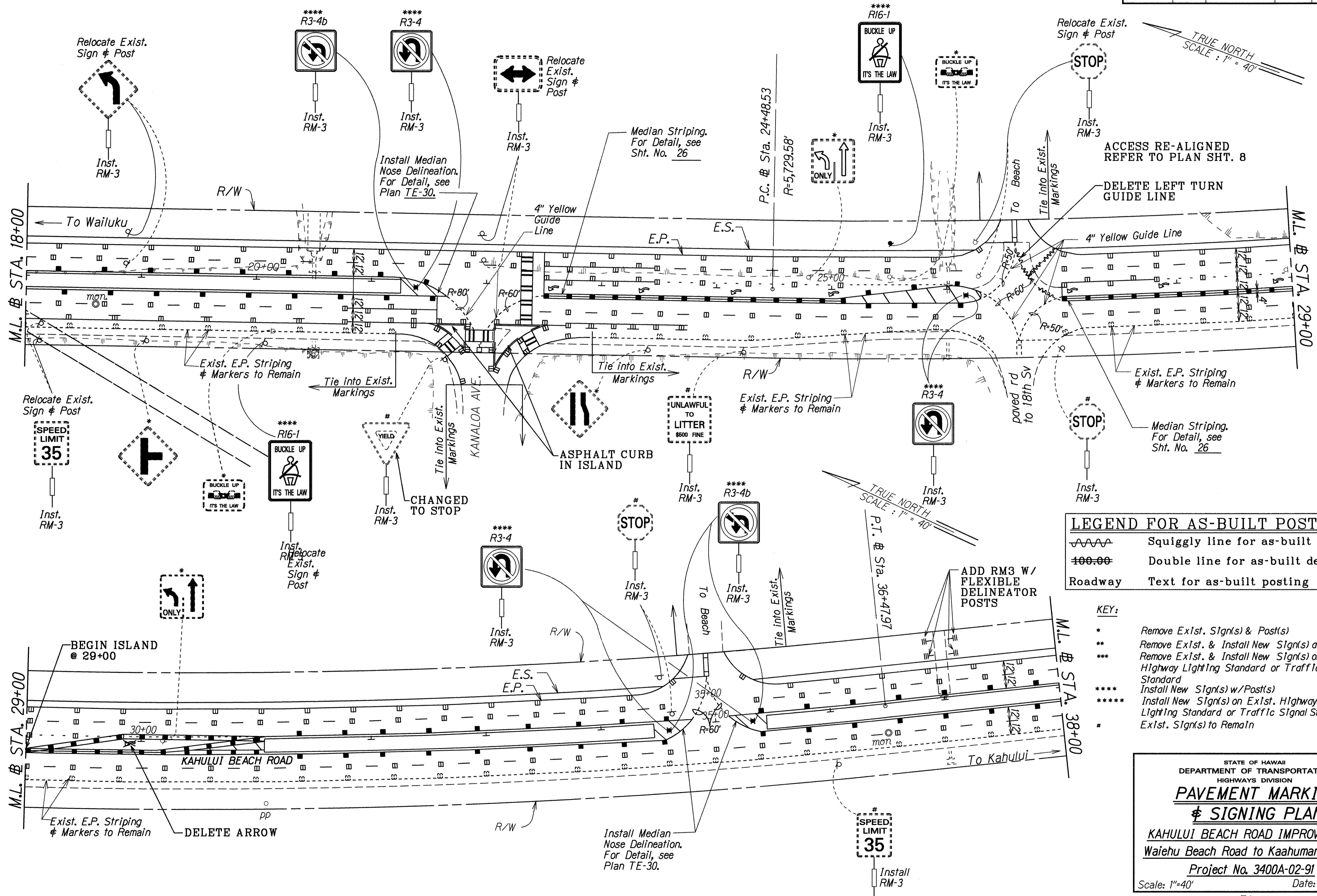
KAHALUI BEACH ROAD IMPROVEMENTS
Waiehu Beach Road to Kaahumanu Avenue
Project No. 3400A-02-91

Scale: 1"=40' Date: Sept., 1993

SHEET No. 27 OF 11 SHEETS

AS-BUILT ADD. 27

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	28	46



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

KEY:	
*	Remove Exist. Sign(s) & Post(s)
**	Remove Exist. & Install New Sign(s) and Post(s)
***	Remove Exist. & Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard
****	Install New Sign(s) w/Post(s)
*****	Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard
#	Exist. Sign(s) to Remain

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**PAVEMENT MARKING
& SIGNING PLAN**

KAHULUI BEACH ROAD IMPROVEMENTS
Waiehu Beach Road to Kaahumanu Avenue

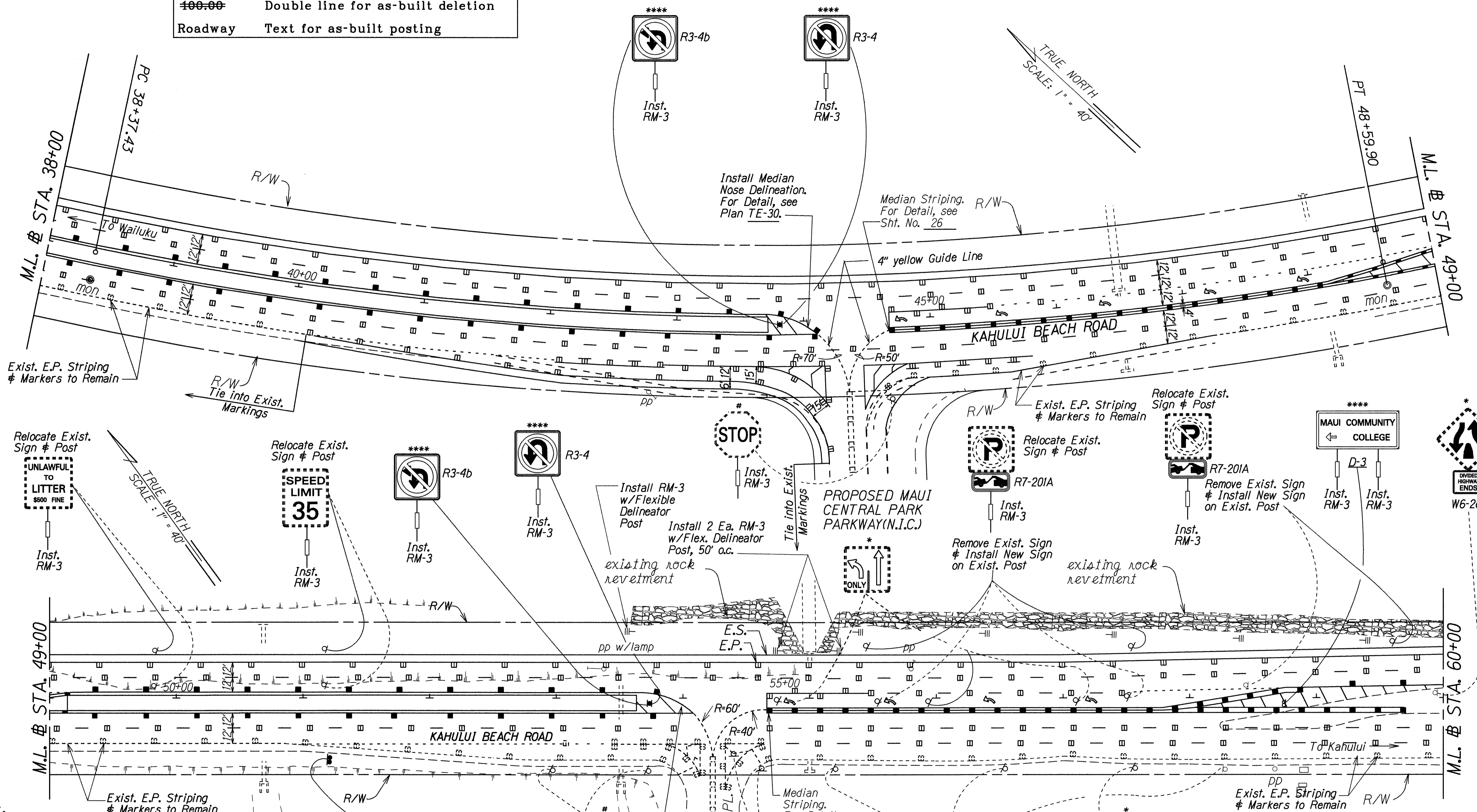
Project No. 3400A-02-91
Scale: 1"=40' Date: Sept., 1993

SHEET No. T3 OF 11 SHEETS

SURVEY PLOTTED BY	DATE	1/94
DRAWN BY		
DESIGNED BY		
QUANTITIES BY		
CHECKED BY		
ORIGINAL PLAN		
NOTE BOOK		
TELEPHONE		
NO.		

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	29	46

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



SURVEY PLOTTED BY	DATE	7/94
DRAWN BY	E. 1999	
TRACED BY	G. T. 1994	
NOTE BOOK		
QUANTITIES BY		
CHECKED BY		
ORIGINAL PLAN		
DATE		

- KEY:**
- * Remove Exist. Sign(s) & Post(s)
 - ** Remove Exist. & Install New Sign(s) and Post(s)
 - *** Remove Exist. & Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard
 - **** Install New Sign(s) w/Post(s)
 - ***** Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard
 - # Exist. Sign(s) to Remain

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

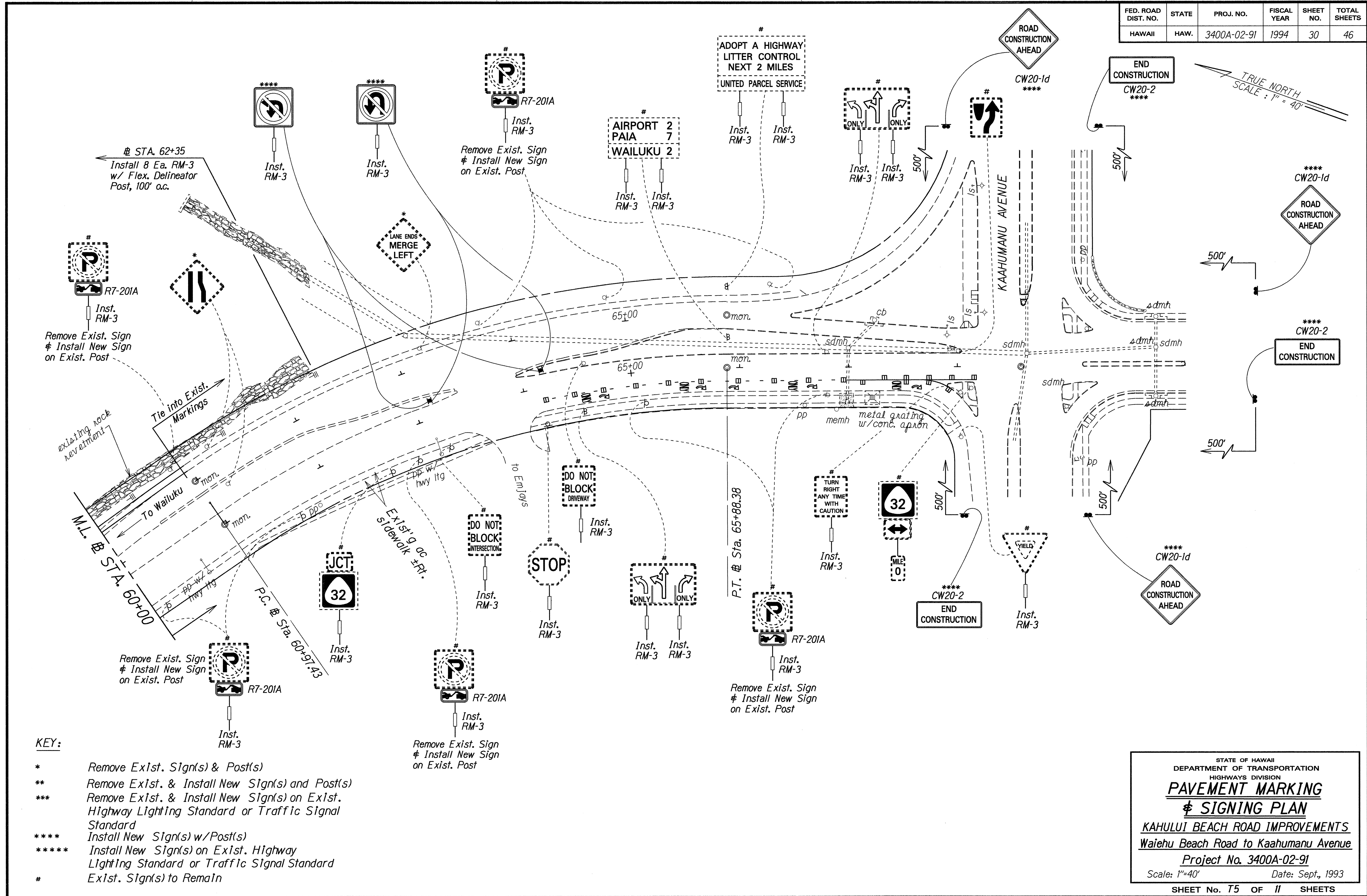
**PAVEMENT MARKING
& SIGNING PLAN**

KAHULUI BEACH ROAD IMPROVEMENTS
Waiehu Beach Road to Kaahumanu Avenue

Project No. 3400A-02-91
Scale: 1"=40' Date: Sept., 1993

SHEET No. T4 OF 11 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	30	46



DATE	1/94
SURVEY PLOTTED BY	E. 1500
DRAWN BY	G. T. 10/8/84
TRACED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
TABLE	
NO.	

- KEY:**
- * Remove Exist. Sign(s) & Post(s)
 - ** Remove Exist. & Install New Sign(s) and Post(s)
 - *** Remove Exist. & Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard
 - **** Install New Sign(s) w/Post(s)
 - ***** Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard
 - # Exist. Sign(s) to Remain

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

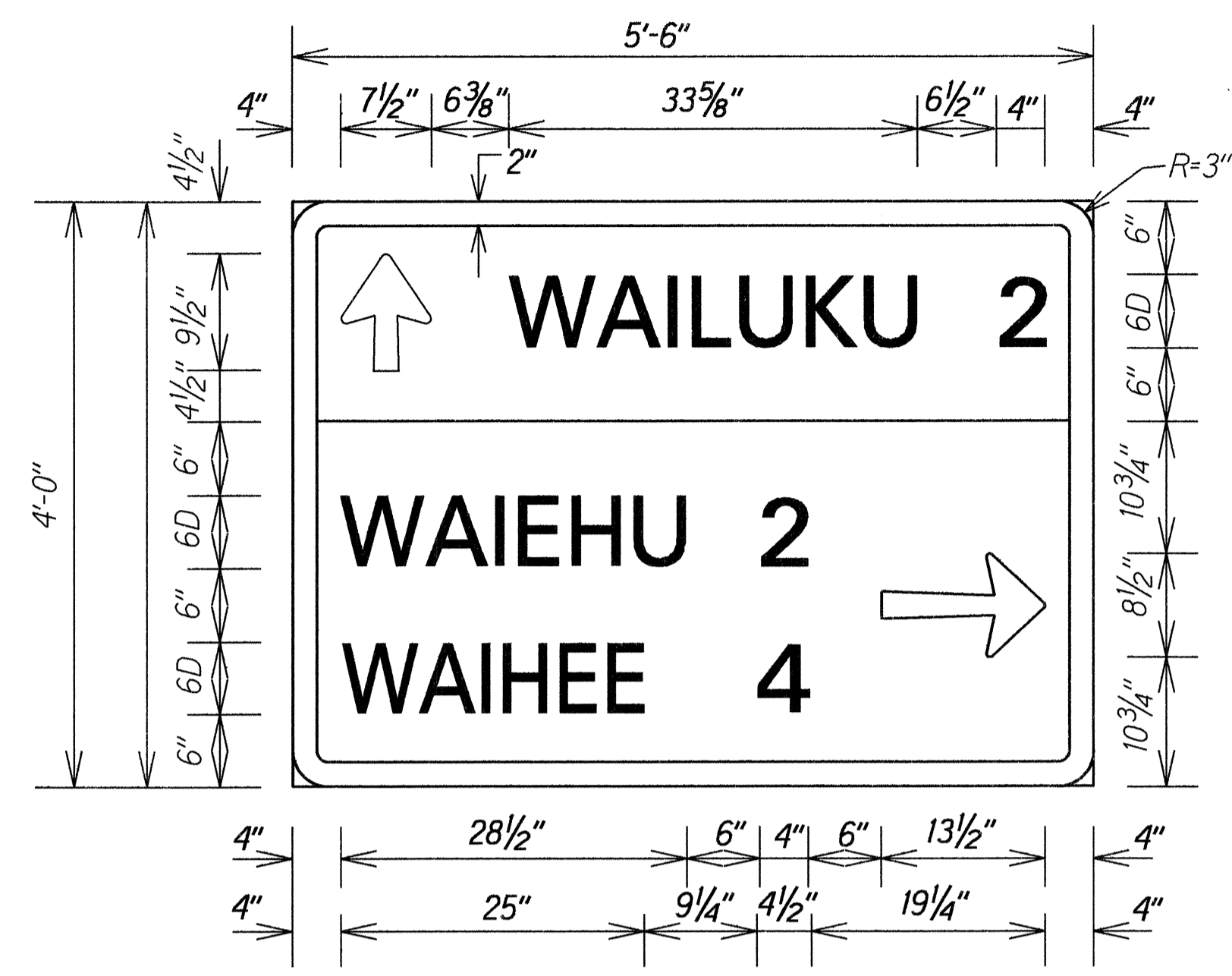
**PAVEMENT MARKING
& SIGNING PLAN**

**KAHULUI BEACH ROAD IMPROVEMENTS
Waiehu Beach Road to Kahumanu Avenue
Project No. 3400A-02-91**

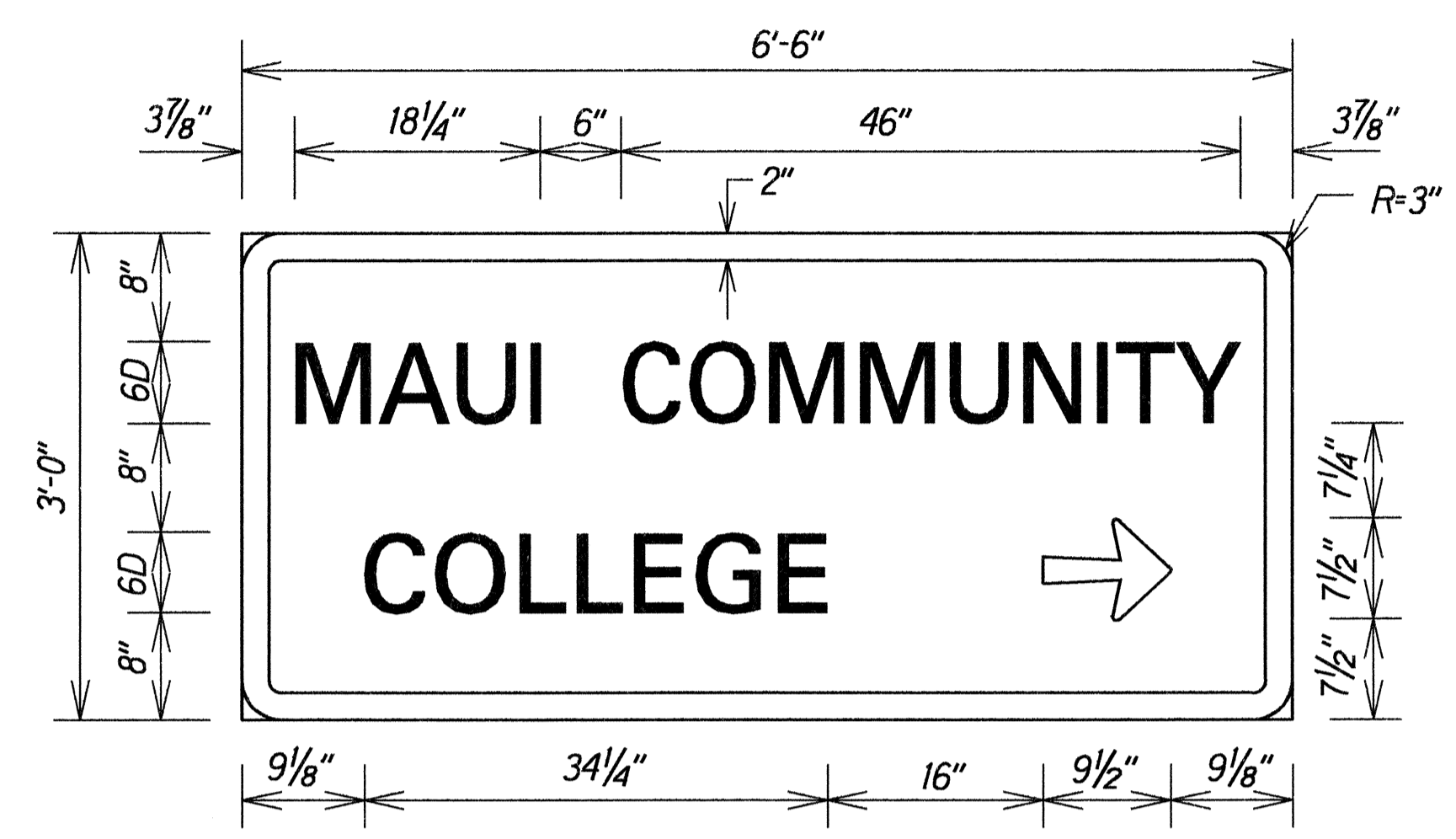
Scale: 1"=40' Date: Sept., 1993

SHEET No. 75 OF 11 SHEETS

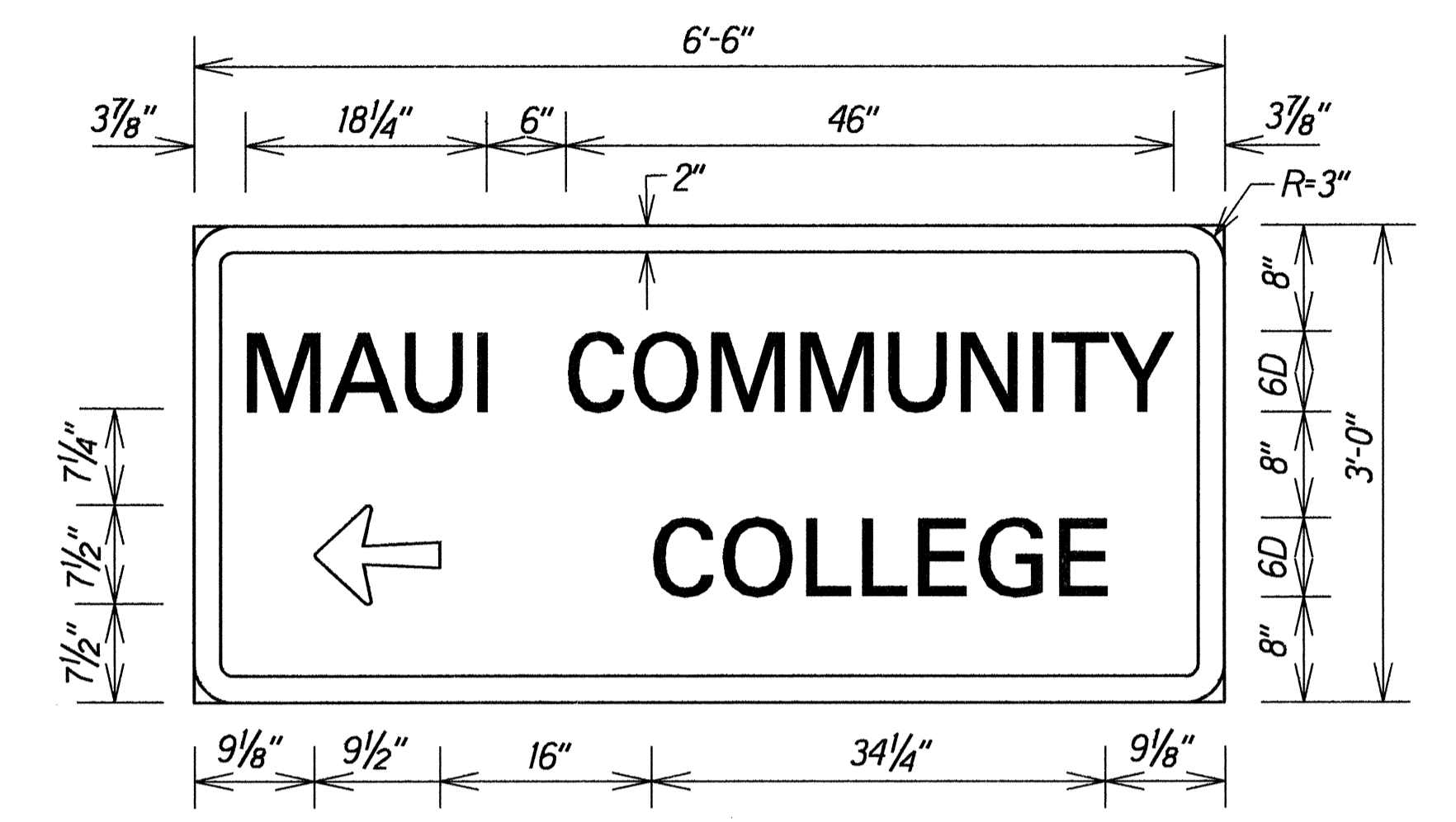
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	31	46



D-1
Scale: 1"=1'-0"
2 Each, 4.00 Lbs./Ft. Flanged Channel Post



D-2
Scale: 1"=1'-0"
2 Each, 4.00 Lbs./Ft. Flanged Channel Post



D-3
Scale: 1"=1'-0"
2 Each, 4.00 Lbs./Ft. Flanged Channel Post

CONSTRUCTION SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	W/POSTS	W/O POST
CG20-2	# Sta. 3+00 Lt.	END CONSTRUCTION	1	
CG20-1d	# Sta. 3+00 Rt.	ROAD CONSTRUCTION AHEAD	1	
CG20-2	Waiehu Beach Rd., # Sta.	END CONSTRUCTION	1	
CG20-1d	Waiehu Beach Rd., # Sta.	ROAD CONSTRUCTION AHEAD	1	
CG20-2	Kaahumanu Ave., # Sta.	END CONSTRUCTION	1	
CG20-1d	Kaahumanu Ave., # Sta.	ROAD CONSTRUCTION AHEAD	1	
CG20-1d	Kaahumanu Ave., # Sta.	ROAD CONSTRUCTION AHEAD	1	
CG20-2	Kaahumanu Ave., # Sta.	END CONSTRUCTION	1	
TOTAL			8	

SURVEY PLOTTED BY: _____ DATE: 2/94
 DRAWN BY: L. Isobe
 TRACED BY: G. Lanaka
 QUANTITIES BY: _____
 CHECKED BY: _____
 ORIGINAL PLAN: _____
 NOTE BOOK: _____
 Tolerance: _____
 N. 1/4 Sec. 10, T. 20N., R. 15E.




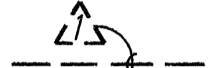


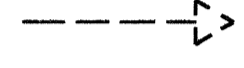
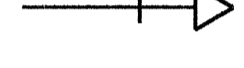



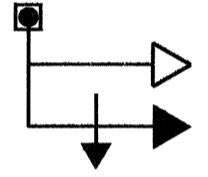

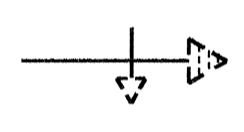
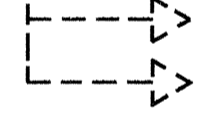





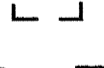
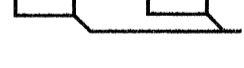

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
DESTINATION SIGN DETAILS
& MISC. TRAFFIC SUMMARY
 KAHULUI BEACH ROAD IMPROVEMENTS
 Waiehu Beach Road to Kaahumanu Ave.
 Project No. 3400A-02-91
 Scale: 1"=1'-0" Date: Feb. 1994

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	33	46

TRAFFIC SIGNAL NOTES

- The locations of the traffic signal standards, traffic signal standards with mast-arm, pedestrian push buttons, traffic controller, pullboxes, conduits and loop detectors shall be staked out in the field by the Contractor and approval of the locations shall be obtained from the Engineer prior to construction and installation.
- All traffic signal controller equipment shall be completely wired in the cabinet and shall control the traffic signals as called for in the plans.
- All splicing shall be done in the pullboxes.
- Furnishing and installing conduit stubouts (pullboxes to edge of pavement) will not be paid for separately but shall be considered incidental to the various contract items.
- A solid #8 bare copper wire shall be pulled with the traffic signal control cable for equipment ground. Cost shall be incidental to the installation of the control cable.
- All existing Pull Boxes, Traffic Signal Poles and Controller Bases not incorporated into the new Traffic Signal System shall be removed to 6 inches below grade and shall be restored to match existing conditions. This work will not be paid for separately but shall be considered incidental to the various contract items.
- Existing Loop Detectors and conduits not incorporated into the new Traffic Signal System shall be abandoned in place. Abandoned conduits shall be plugged with concrete. Remove unused existing cables.
- Existing Traffic Signal Poles, Mast Arms, Heads and Controllers which are removed and not incorporated into the new Traffic Signal System shall be delivered to the Highways Maui Baseyard or as directed by the Engineer.
- The Contractor shall clean and/or repair the existing traffic signal pullboxes to be used prior to installing conduits and cables. This work will not be paid for separately but shall be considered incidental to the various contract items.
- Locations of existing underground structures and utilities such as pipe lines, conduits, cables, etc., shown on plans are approximate only. It is not the intent of these plans to show the exact location of all underground utilities and structures. It is the responsibility of the Contractor to verify the locations of all existing utilities with the respective owners. Existing utilities damaged by the Contractor shall be repaired by the Contractor at his own cost.
- The Traffic Signals shall be kept operational during construction. Any relocation required shall be approved by the Engineer and paid for by the Contractor.

TRAFFIC SIGNAL LEGEND

-  New Traffic Signal Controller
-  Existing Traffic Signal Controller
-  New Traffic Signal Conduits and Cables
-  Existing Traffic Signal Conduits and Cables
-  New 12" RYG Traffic Signal Head
-  New 12" RY↑ Traffic Signal Head
-  Existing 12" RYG Traffic Signal Head
-  New 12" RYG Traffic Signal Head w/Back Plate
-  New 12" RY↑ Traffic Signal Head w/Back Plate
-  New 12" RY← Traffic Signal Head
-  New 12" RYG $\frac{6}{7}$ Traffic Signal Head
-  New Type II Traffic Signal Standard w/Mast Arm and Traffic Signal Heads
-  New 12" RY← Traffic Signal Head (Programmable Visibility)
-  Exist. 12" RY← Traffic Signal Head (Programmable Visibility)
-  Existing Type II Traffic Signal Standard w/Mast Arm and Traffic Signal Heads
-  New Pedestrian Signal Head
-  Existing Pedestrian Signal Head
-  New Type A Pullbox
-  Existing Type A Pullbox
-  New Type B Pullbox (Traffic Signal)
-  Existing Type B Pullbox
-  New Loop Detector
-  Existing Loop Detector

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	2/94
to define	TRACED BY	
horizontal	DESIGNED BY	
lines	CHECKED BY	
to		
define		
horizontal		
lines		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**TRAFFIC SIGNAL
LEGEND & NOTES**

KAHULUI BEACH ROAD IMPROVEMENTS
Waiehu Beach Rd. to Kaahumanu Ave.
PROJECT NO. 3400A-02-91

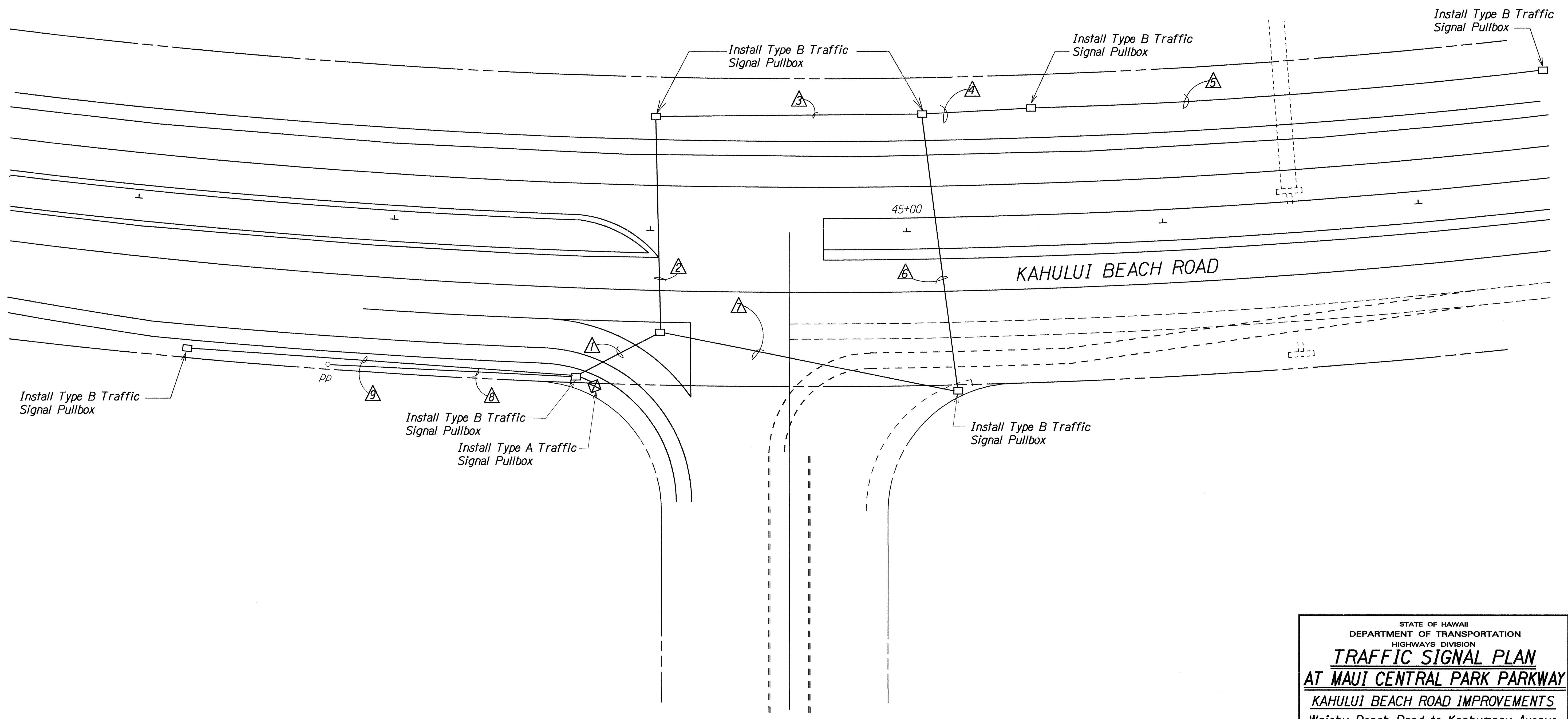
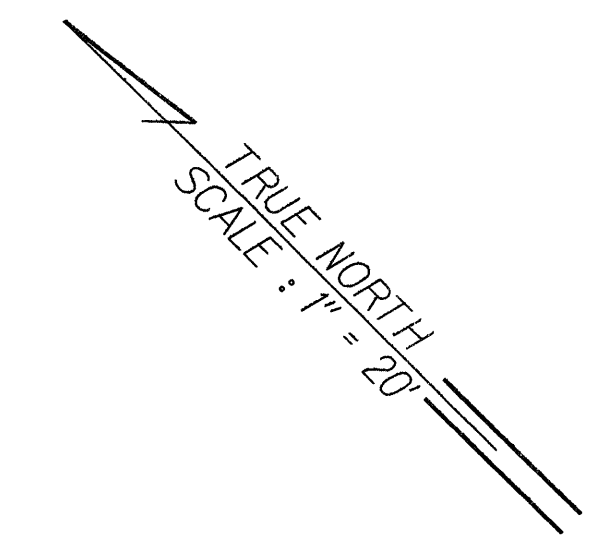
Date: Feb., 1994

SHEET No. 78 OF 11 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400A-02-91	1994	36	46

TRAFFIC SIGNAL SYSTEM CONDUIT AND CABLE SCHEDULE												
	DELTA ITEM NO. (Δ)											
	1	2	3	4	5	6	7	8	9	10	11	12
QUANTITY OF 2" C, SEE NOTE NO. 1	5	2	2	1	1	4	4	1	1	6		
SPARE	1	1	1			1	1			1		

NOTE: 1. ALL CONDUITS SHALL BE SCHEDULE 80 PVC, UNLESS OTHERWISE NOTED.



SURVEY PLOTTED BY: _____ DATE: 2/94
 DRAWN BY: E. 1508
 CHECKED BY: _____
 NOTE BOOK: _____
 QUANTITIES BY: C. 10/2/93
 CHECKED BY: _____

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
TRAFFIC SIGNAL PLAN
AT MAUI CENTRAL PARK PARKWAY
 KAHULUI BEACH ROAD IMPROVEMENTS
 Waiehu Beach Road to Kaahumanu Avenue
 Project No. 3400A-02-91
 Scale: 1"=20' Date: Feb., 1994
 SHEET No. 11 OF 11 SHEETS