
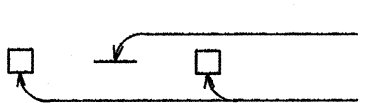
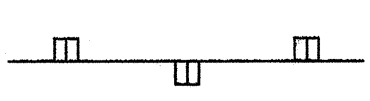
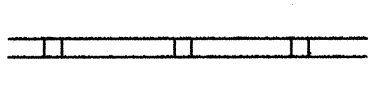


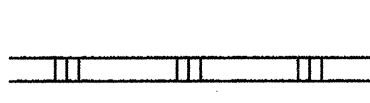


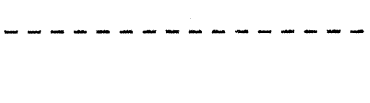
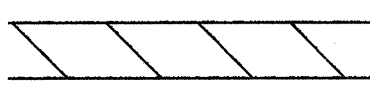
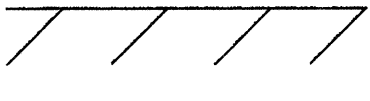
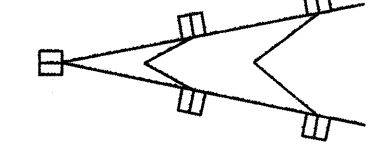
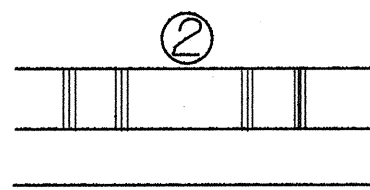




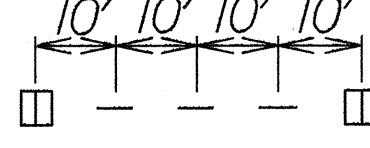


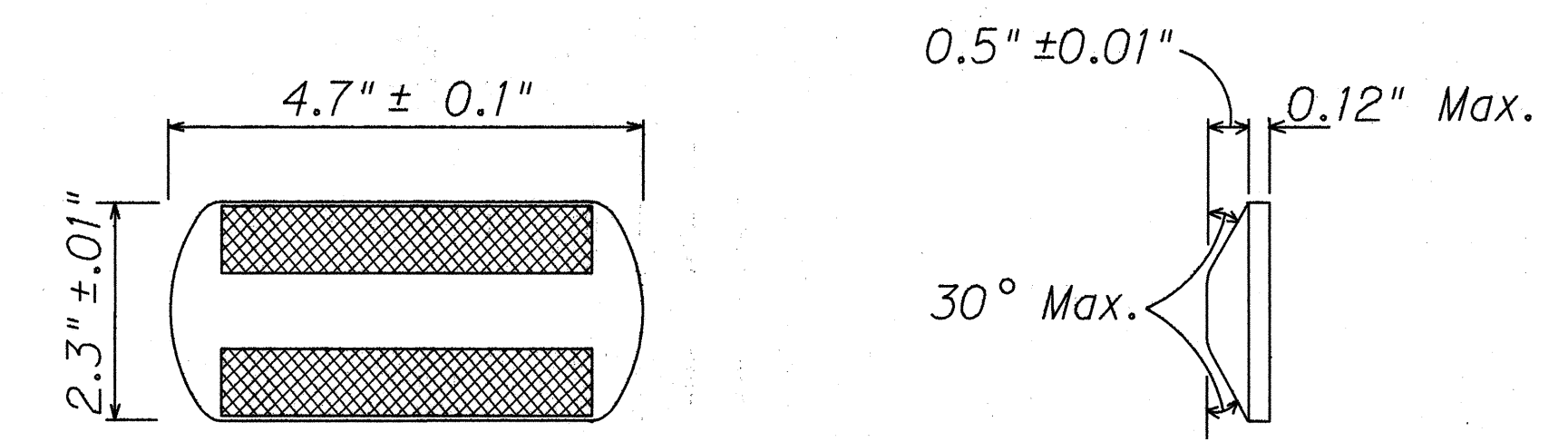
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	92AB-01-92M	1992	13	32

**LEGEND**

-  4 each Type A Raised Pavement Markers  
Type CL Raised Pavement Markers @ 40' - 0" o.c.
-  4 each Type J Raised Pavement Markers  
Type DL Raised Pavement Markers @ 40' - 0" o.c.
-  8" White Stripe with Type CL Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
-  4" Double Solid Yellow with Type DL Raised Pavement Markers @ 20' - 0" o.c. (Tape, Type I or Thermoplastic Extrusion)
-  4" Double Solid Yellow Stripes with Type HL Raised Pavement Markers @ 20" - 0" o.c. (Tape, Type II or Thermoplastic Extrusion)
-  4" Yellow Edge Stripe with Type HL Raised Pavement Markers @ 40' - 0" o.c. (Tape, Type II or Thermoplastic Extrusion)
-  4" Double Solid White Stripes with Type CL 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 CL Raised Pavement Markers @ 20' - 0" o.c.  
4" White Stripe (Tape, Type I or Thermoplastic Extrusion)
-  4" or 8" White Edge Stripe with Type CL Raised Pavement Markers @ 40' - 0" o.c. (Tape, Type II or Thermoplastic Extrusion)
-  4" White Guide Lines (Thermoplastic Extrusion)
-  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. (Thermoplastic Extrusion)
-  Pavement Arrow (Tape, Type I or Thermoplastic Extrusion)
-  Pavement Word (Tape, Type I or Thermoplastic Extrusion)
-  4 Each Type J Raised Pavement Markers  
Type DL Raised Pavement Markers @ 40' - 0" o.c.  
Type HL 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 CL Markers @ 40'-0" o.c. (Thermoplastic Extrusion)

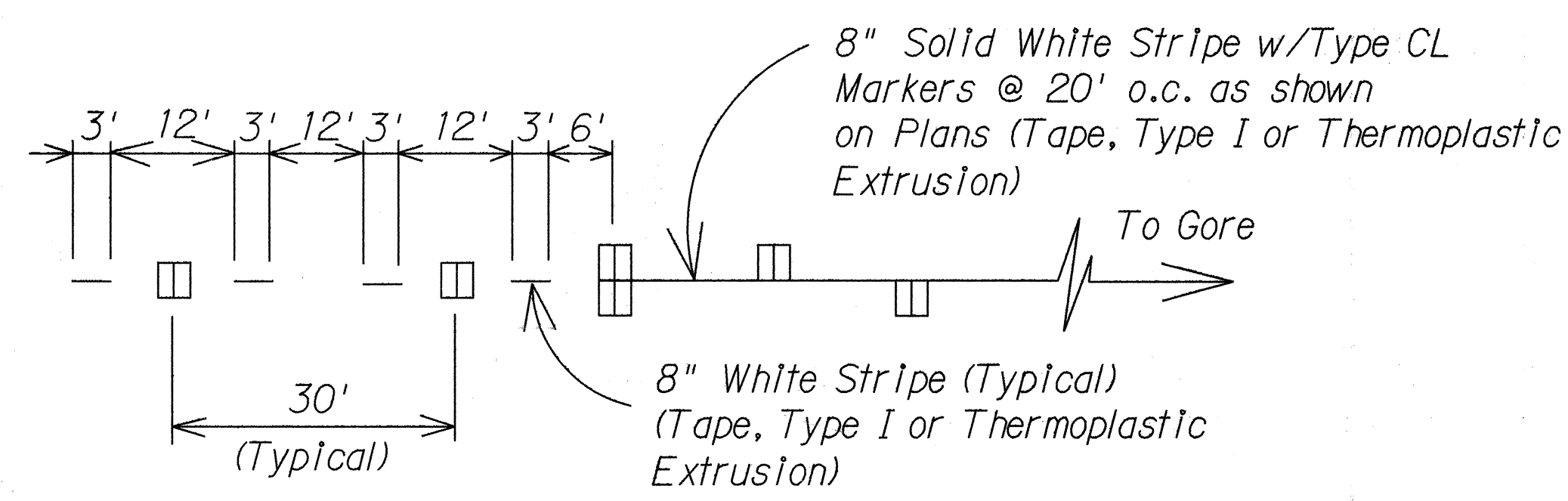
**NOTES**

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. Details of Type C, Type D and Type H Markers on Standard Plan Nos. TE-30, TE-31 and TE-32 shall be deleted and replaced with details of Type CL, Type DL and Type HL Markers as shown on this sheet. All references to Type C, Type D and Type H Markers in the plans shall mean Type CL, Type DL and Type HL Markers.
5. Final locations of all signs shall be approved by the Engineer prior to any installation work.
6. 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.
7. Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
8. All pavement striping shall be as noted on the Legend or plans.
9. 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.



TYPE CL  
Red-Clear Reflective Marker  
or  
TYPE DL  
Two-Way Yellow Reflective Marker  
or  
TYPE HL  
One-Way Yellow Reflective Marker

**RAISED PAVEMENT MARKER DETAILS**  
Not to Scale



**LANE DROP MARKING**  
Not to Scale

SURVEY PLOTTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 ORIGINAL PLAN \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 No. \_\_\_\_\_

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**PAVEMENT MARKING LEGEND,  
 DETAILS & NOTES**  
**ALA MOANA BOULEVARD RESURFACING**  
 Keawe Street to Kalakaua Avenue  
 Project No. 92AB-01-92M  
 Scale: As Shown Date: April 1992  
 SHEET No. 11 OF 17 SHEETS

**KEY:**

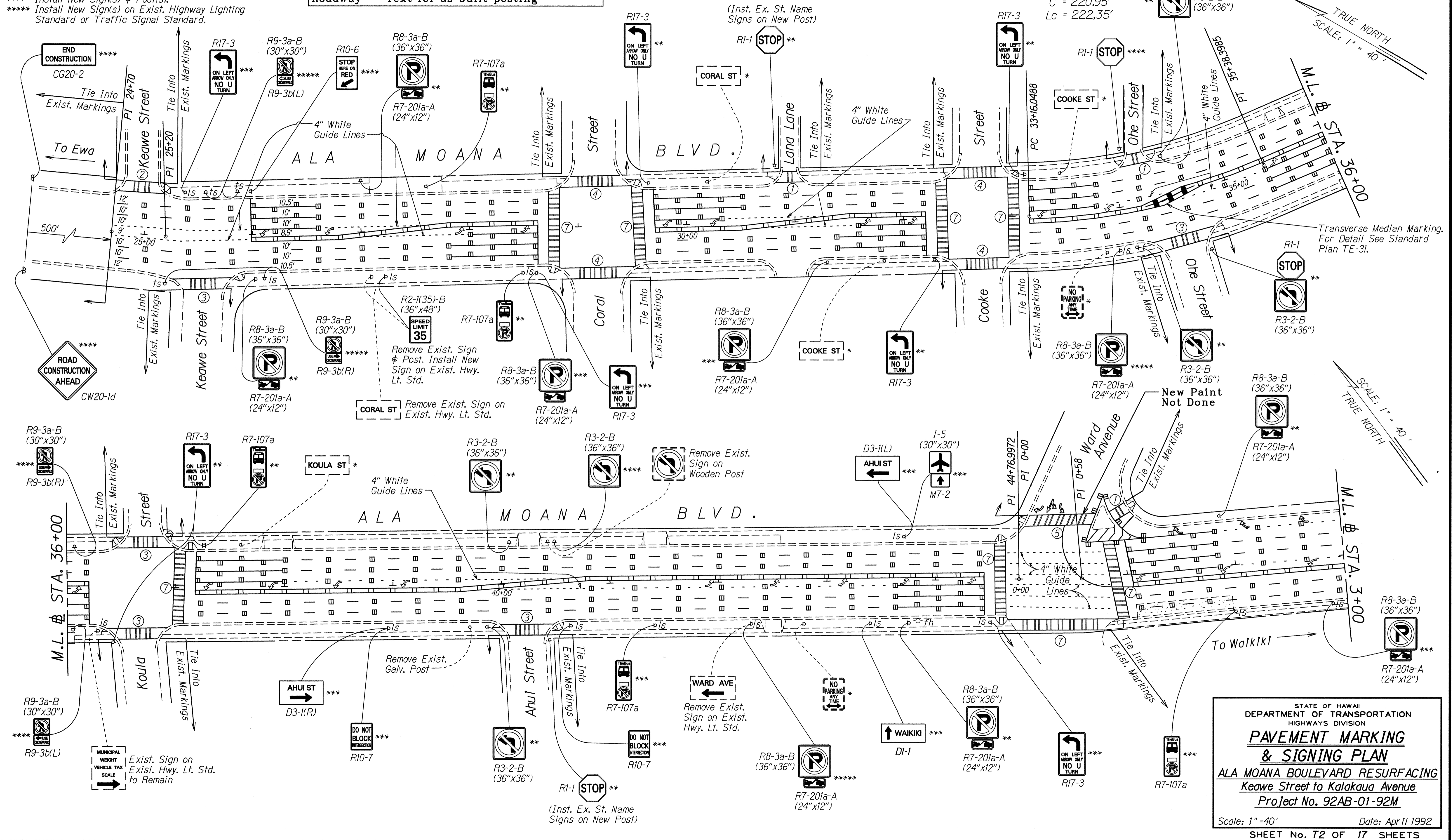
- \* Remove Exist. Sign(s) & Post(s).
- \*\* Remove Exist. & Install New Sign(s) & Post(s).
- \*\*\* Remove Exist. & Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard.
- \*\*\*\* Install New Sign(s) & Post(s).
- \*\*\*\*\* Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard.

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

**CURVE DATA**

$\Delta = 22^{\circ}14'00''$   
 $R = 573.00'$   
 $T = 112.59'$   
 $C = 220.95'$   
 $Lc = 222.35'$

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	92AB-01-92M	1992	14	32



STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

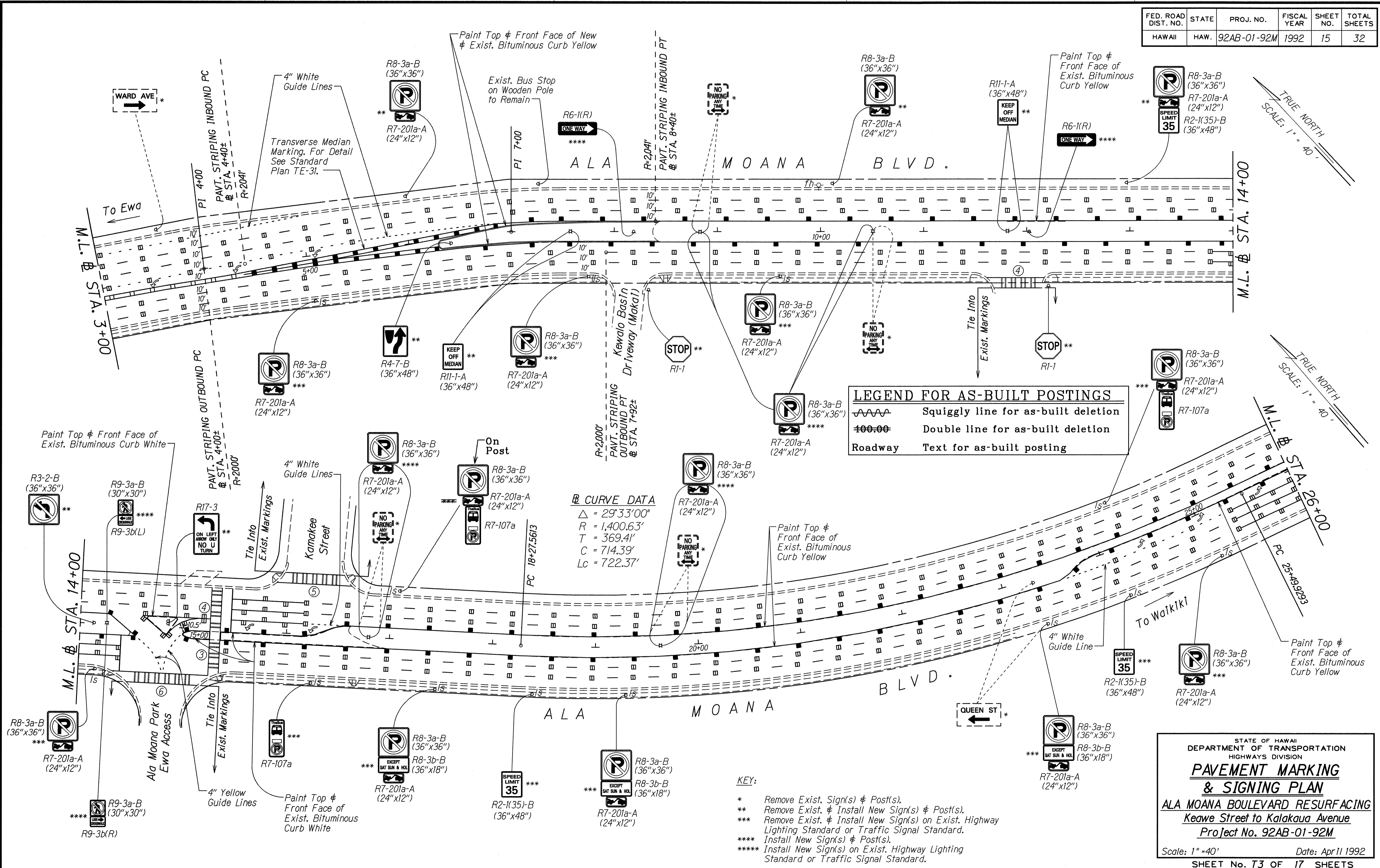
**PAVEMENT MARKING & SIGNING PLAN**

**ALA MOANA BOULEVARD RESURFACING**  
 Keawe Street to Kalakaua Avenue  
 Project No. 92AB-01-92M

Scale: 1"=40' Date: Apr 11 1992  
 SHEET No. T2 OF 17 SHEETS

DATE: \_\_\_\_\_  
 SURVEY PLOTTED BY: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 ORIGINAL PLAN NO. \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	92AB-01-92M	1992	15	32



**LEGEND FOR AS-BUILT POSTINGS**

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

**CURVE DATA**  
 $\Delta = 29^\circ 33' 00''$   
 $R = 1,400.63'$   
 $T = 369.41'$   
 $C = 714.39'$   
 $Lc = 722.37'$

- KEY:**
- \* Remove Exist. Sign(s) & Post(s).
  - \*\* Remove Exist. & Install New Sign(s) & Post(s).
  - \*\*\* Remove Exist. & Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard.
  - \*\*\*\* Install New Sign(s) & Post(s).
  - \*\*\*\*\* Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PAVEMENT MARKING & SIGNING PLAN**

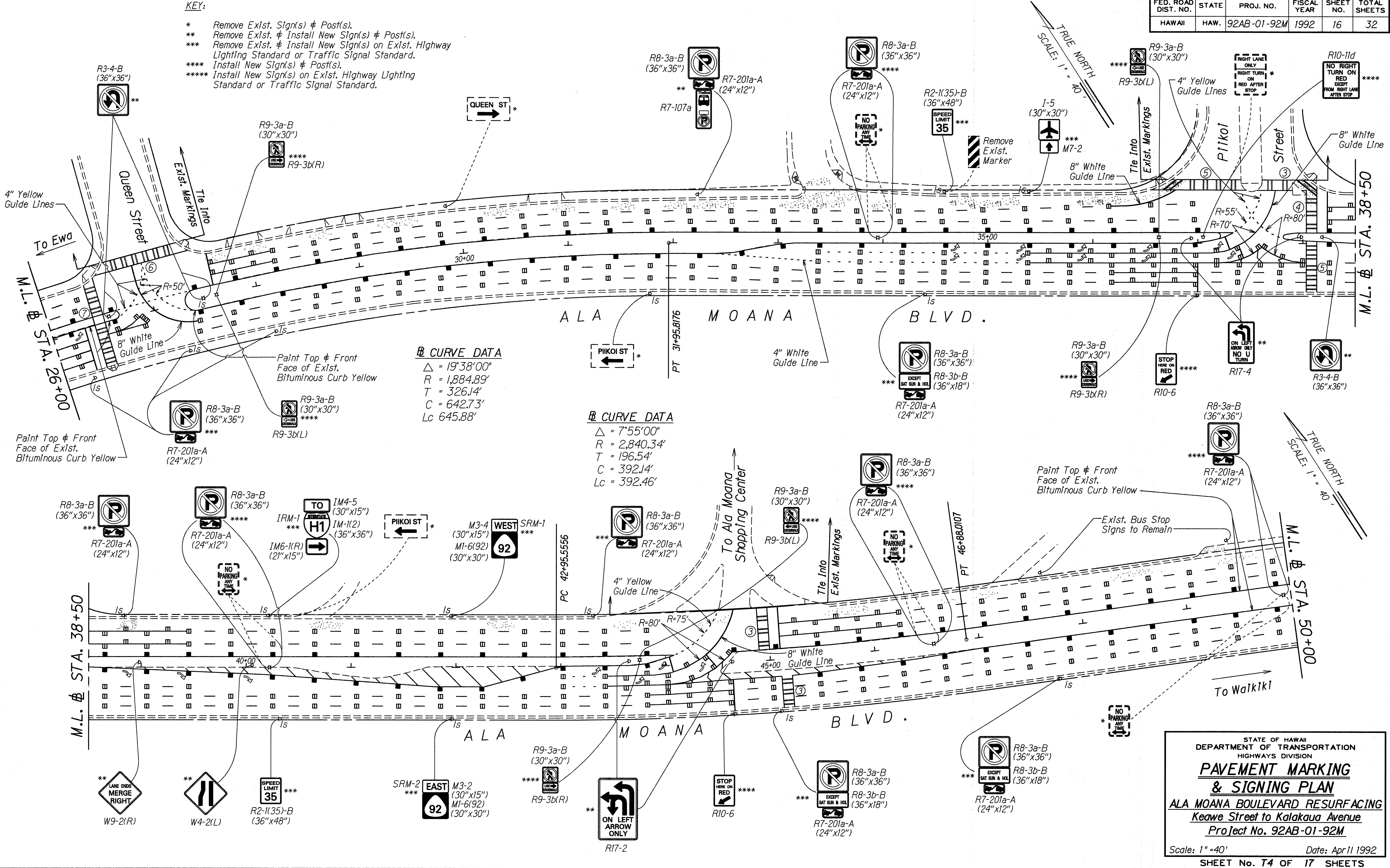
**ALA MOANA BOULEVARD RESURFACING**  
Keawe Street to Kalakaua Avenue  
Project No. 92AB-01-92M

Scale: 1" = 40' Date: April 1992  
SHEET No. T3 OF 17 SHEETS

DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	92AB-01-92M	1992	16	32

- KEY:**
- \* Remove Exist. Sign(s) & Post(s).
  - \*\* Remove Exist. & Install New Sign(s) & Post(s).
  - \*\*\* Remove Exist. & Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard.
  - \*\*\*\* Install New Sign(s) & Post(s).
  - \*\*\*\*\* Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard.



DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

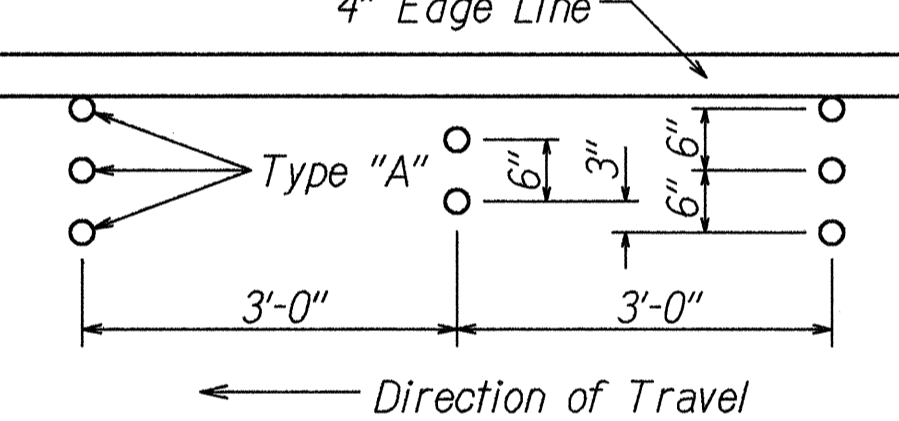
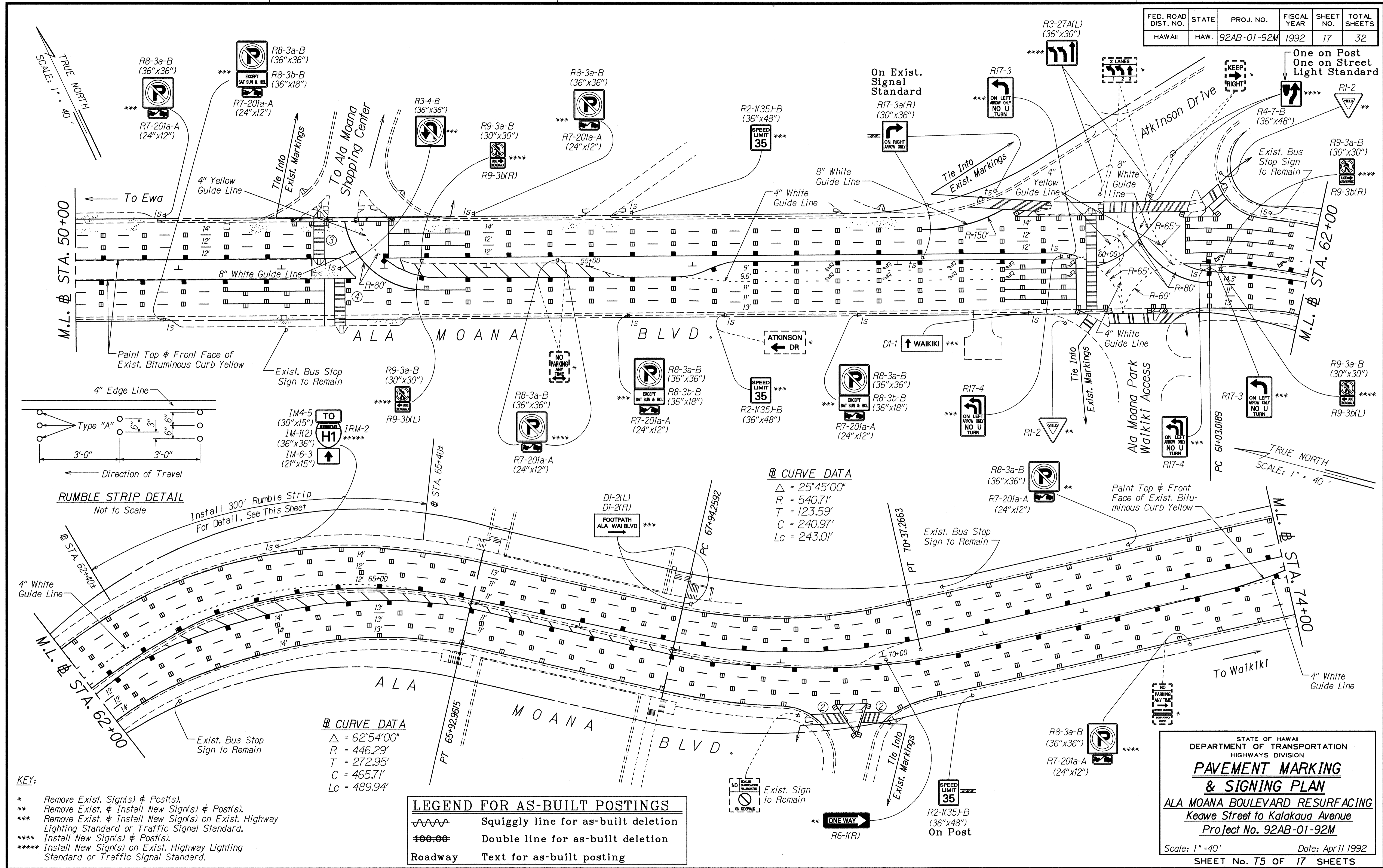
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PAVEMENT MARKING & SIGNING PLAN**

ALA MOANA BOULEVARD RESURFACING  
Keawe Street to Kalakaua Avenue  
Project No. 92AB-01-92M

Scale: 1"=40' Date: Apr 11 1992  
SHEET No. T4 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	92AB-01-92M	1992	17	32



**RUMBLE STRIP DETAIL**  
Not to Scale

Install 300' Rumble Strip  
For Detail, See This Sheet

**CURVE DATA**  
 $\Delta = 25^{\circ}45'00''$   
 $R = 540.71'$   
 $T = 123.59'$   
 $C = 240.97'$   
 $Lc = 243.01'$

**CURVE DATA**  
 $\Delta = 62^{\circ}54'00''$   
 $R = 446.29'$   
 $T = 272.95'$   
 $C = 465.71'$   
 $Lc = 489.94'$

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) & Post(s).
  - \*\*\* Remove Exist. & Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard.
  - \*\*\*\* Install New Sign(s) & Post(s).
  - \*\*\*\*\* Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PAVEMENT MARKING & SIGNING PLAN**

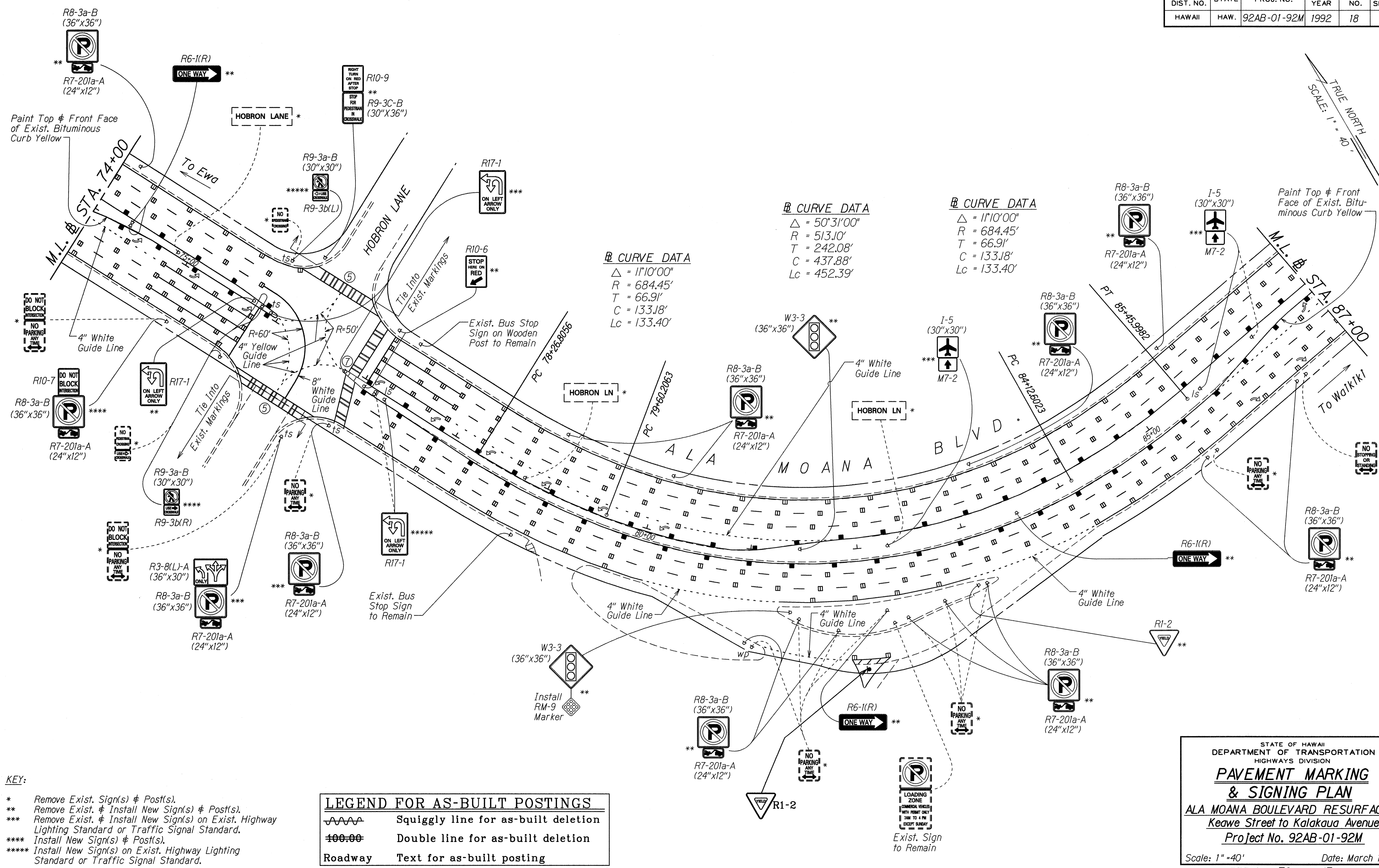
**ALA MOANA BOULEVARD RESURFACING**  
Keawe Street to Kalakaua Avenue  
Project No. 92AB-01-92M

Scale: 1" = 40' Date: Apr 11 1992  
SHEET No. T5 OF 17 SHEETS

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	92AB-01-92M	1992	18	32

TRUE NORTH  
SCALE: 1" = 40'



**Δ CURVE DATA**  
 $\Delta = 50^{\circ}31'00''$   
 $R = 513.10'$   
 $T = 242.08'$   
 $C = 437.88'$   
 $Lc = 452.39'$

**Δ CURVE DATA**  
 $\Delta = 11^{\circ}10'00''$   
 $R = 684.45'$   
 $T = 66.91'$   
 $C = 133.18'$   
 $Lc = 133.40'$

**Δ CURVE DATA**  
 $\Delta = 11^{\circ}10'00''$   
 $R = 684.45'$   
 $T = 66.91'$   
 $C = 133.18'$   
 $Lc = 133.40'$

**KEY:**

- \* Remove Exist. Sign(s) & Post(s).
- \*\* Remove Exist. & Install New Sign(s) & Post(s).
- \*\*\* Remove Exist. & Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard.
- \*\*\*\* Install New Sign(s) & Post(s).
- \*\*\*\*\* Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard.

**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

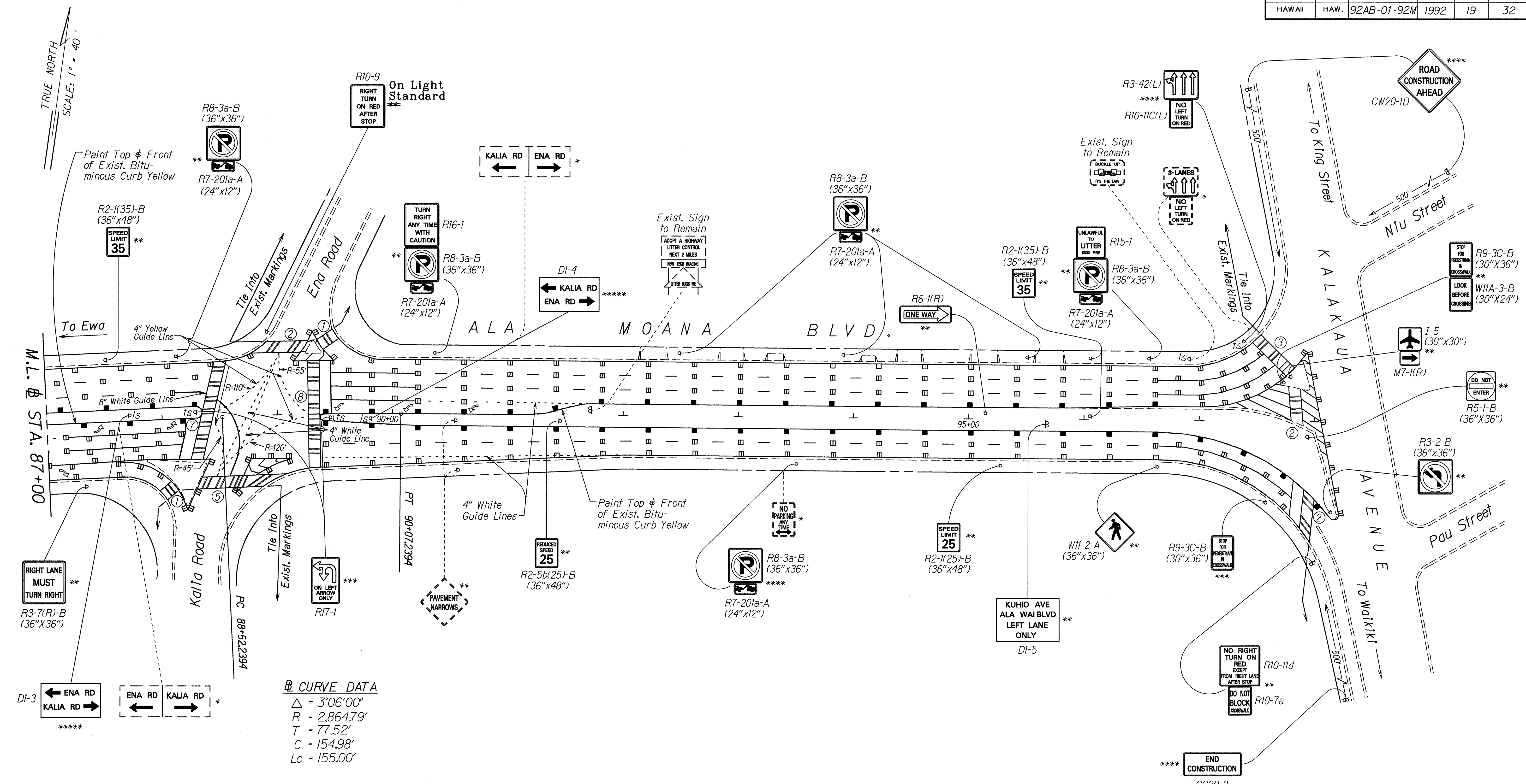
**PAVEMENT MARKING  
& SIGNING PLAN**

ALA MOANA BOULEVARD RESURFACING  
Keawe Street to Kalakaua Avenue  
Project No. 92AB-01-92M

Scale: 1" = 40' Date: March 1992  
SHEET No. T6 OF 17 SHEETS

SURVEY PLOTTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
NOTE BOOK: \_\_\_\_\_  
QUANTITIES BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_

| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 92AB-01-92M | 1992        | 19        | 32           |



**CURVE DATA**  
 $\Delta = 3^{\circ}06'00''$   
 $R = 2,864.79'$   
 $T = 77.52'$   
 $C = 154.98'$   
 $Lc = 155.00'$

- KEY:**
- \* Remove Exist. Sign(s) & Post(s).
  - \*\* Remove Exist. & Install New Sign(s) & Post(s).
  - \*\*\* Remove Exist. & Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard.
  - \*\*\*\* Install New Sign(s) & Post(s).
  - \*\*\*\*\* Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard.

| 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**

**ALA MOANA BOULEVARD RESURFACING**  
Keawe Street to Kalakaua Avenue  
Project No. 92AB-01-92M

Scale: 1" = 40' Date: Apr 11 1992  
SHEET No. 17 OF 17 SHEETS

|             |  |
|-------------|--|
| DATE        |  |
| DESIGNED BY |  |
| DRAWN BY    |  |
| CHECKED BY  |  |
| IN CHARGE   |  |
| DATE        |  |
| DESIGNED BY |  |
| DRAWN BY    |  |
| CHECKED BY  |  |
| IN CHARGE   |  |


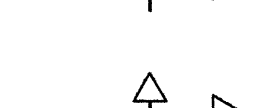
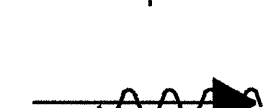


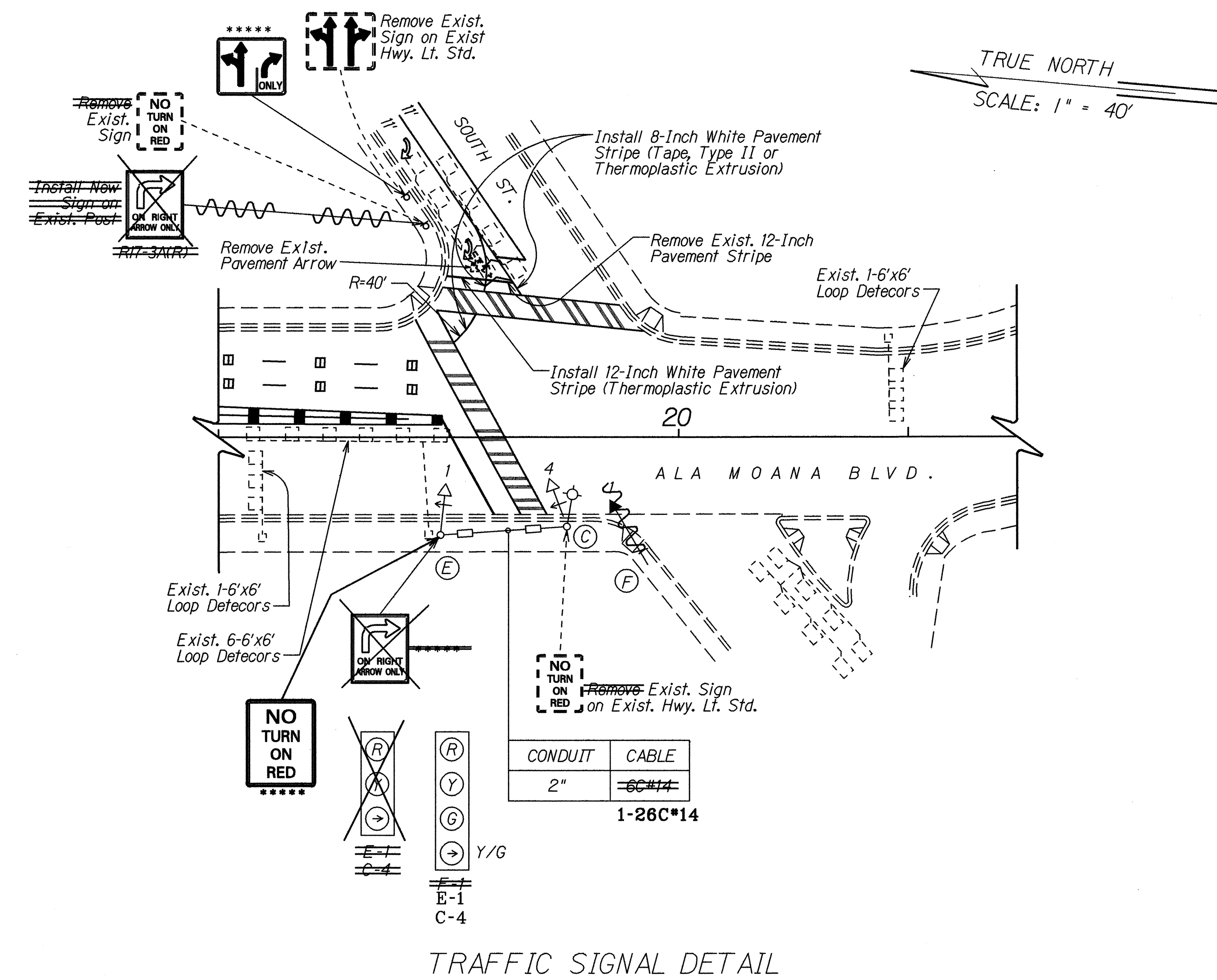
|                     |       |             |             |           |              |
|---------------------|-------|-------------|-------------|-----------|--------------|
| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| HAWAII              | HAW.  | 92AB-01-92M | 1992        | 20        | 32           |

**NOTES**

- All traffic signal controller equipment shall be completely wired in the cabinet and shall control the traffic signals as called for in the plans.
- The Contractor shall install each meter socket and 50 Amp. breaker on power pole as shown on the plans in accordance with HECO requirements. Meter shall be mounted between 5 feet and 7 feet above ground. Meter socket shall be 4-prong, complete with a manual circuit closing device.
- Existing traffic signal standards to be replaced shall be removed together with its respective footing. The Contractor may elect to remove only the top portion of the footing. In such cases, the Contractor shall ensure that the remaining footing shall be 6 inches below the existing ground. The Engineer will determine whether the removed standards shall be disposed of or salvaged. Costs shall be considered incidental to the various contract items.
- Exist conduits, cables and pullboxes not to be incorporated in the new traffic signal system shall remain in place unless otherwise noted on plans or directed by the Engineer.
- Locations of all new traffic signal equipment shall be staked out in the field by the Contractor for approval by the Engineer prior to construction and installation.
- All splicing shall be done in the pullboxes.
- The existing traffic signal system shall remain in operation until the new traffic signal system is put into service. The Contractor shall arrange his work accordingly and shall provide temporary relocations and wirings as necessary. Payment shall be considered incidental to the various contract items.
- Furnishing and installing controller barriers, risers on poles and conduit stubouts (pullboxes to edge of pavement) will not be paid for separately but shall be considered incidental to the various contract items.
- 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.
- The existing controller foundation not to be incorporated in the final traffic signal system shall be removed in accordance with Section 202, Removal of Structure and Obstruction of the Standard Specifications. Costs shall be considered incidental to the various contract items.
- The Contractor shall notify the Traffic Signal Branch, Department of Transportation Services, City & County of Honolulu, 2 weeks prior to commencing any work on the traffic signal system.
- Department of Transportation Services, City & County of Honolulu, will assist the Engineer in construction inspection for the traffic signal system.
- 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.

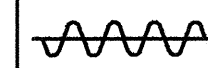
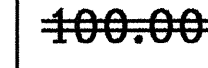
**LEGEND**

-  ~~RYG~~ TRAFFIC SIGNAL HEAD ON TYPE I SIGNAL STANDARD, HEIGHT = 10'
-  ~~RYG~~ TRAFFIC SIGNAL HEAD ON EXIST. HWY. LT. STD.
-  ~~RYG~~ TRAFFIC SIGNAL HEAD ON EXIST. SIGNAL STANDARD TO REPLACE EXIST. RYG SIGNAL HEAD



**KEY**

\*\*\*\*\* Install New Sign(s) on Exist. Highway Lighting Standard or Traffic Signal Standard.

| 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

**TRAFFIC SIGNAL  
LEGEND, DETAILS & NOTES**

ALA MOANA BLVD. RESURFACING  
Keawe St. to Kalakaua Ave.

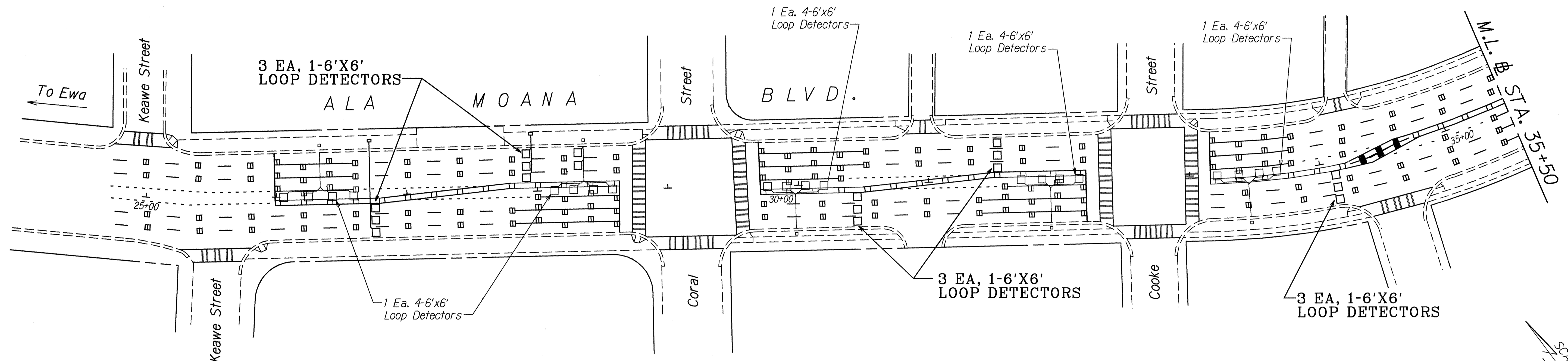
Project No. 92AB-01-92M

Scale: As shown Date: Nov., 1991

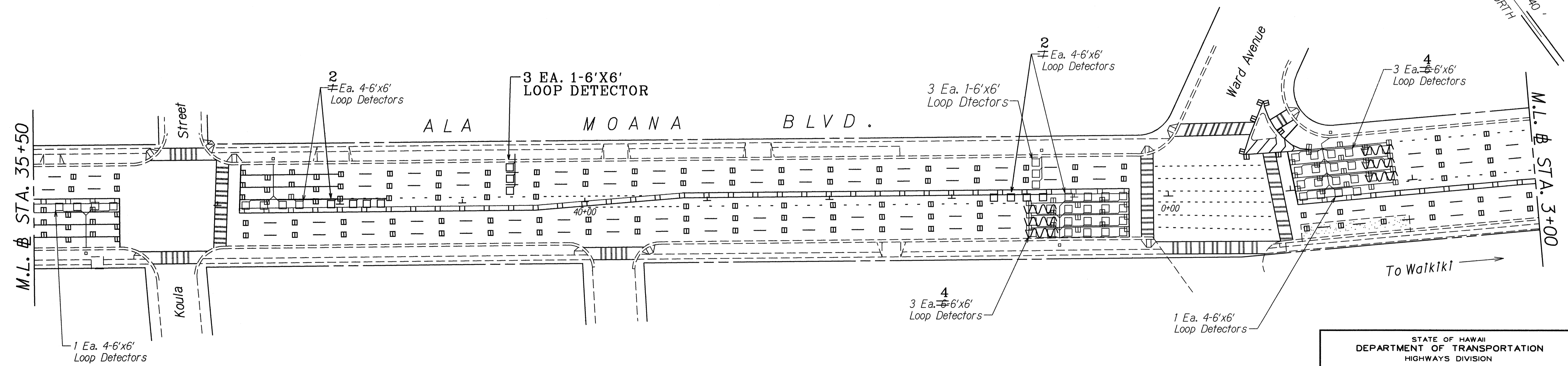
SHEET No. 78 OF 17 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 92AB-01-92M | 1992        | 21        | 32           |

TRUE NORTH  
SCALE: 1" = 40'



TRUE NORTH  
SCALE: 1" = 40'



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**LOOP DETECTOR PLAN**

ALA MOANA BOULEVARD RESURFACING  
Keawe Street to Kalakaua Avenue  
Project No. 92AB-01-92M

Scale: 1" = 40'      Date: April 1992  
SHEET No. T9 OF 17 SHEETS

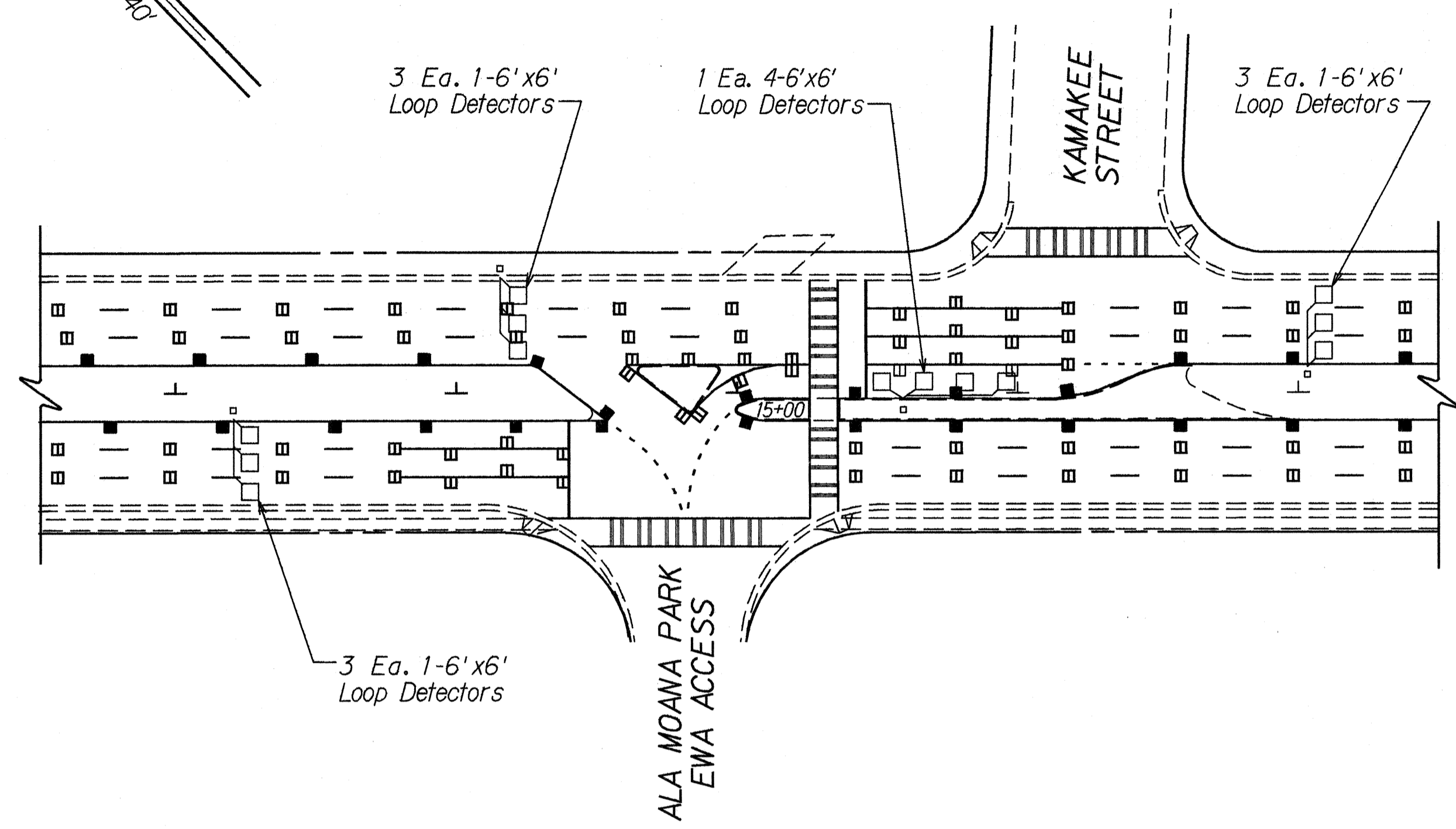
**LEGEND FOR AS-BUILT POSTINGS**

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

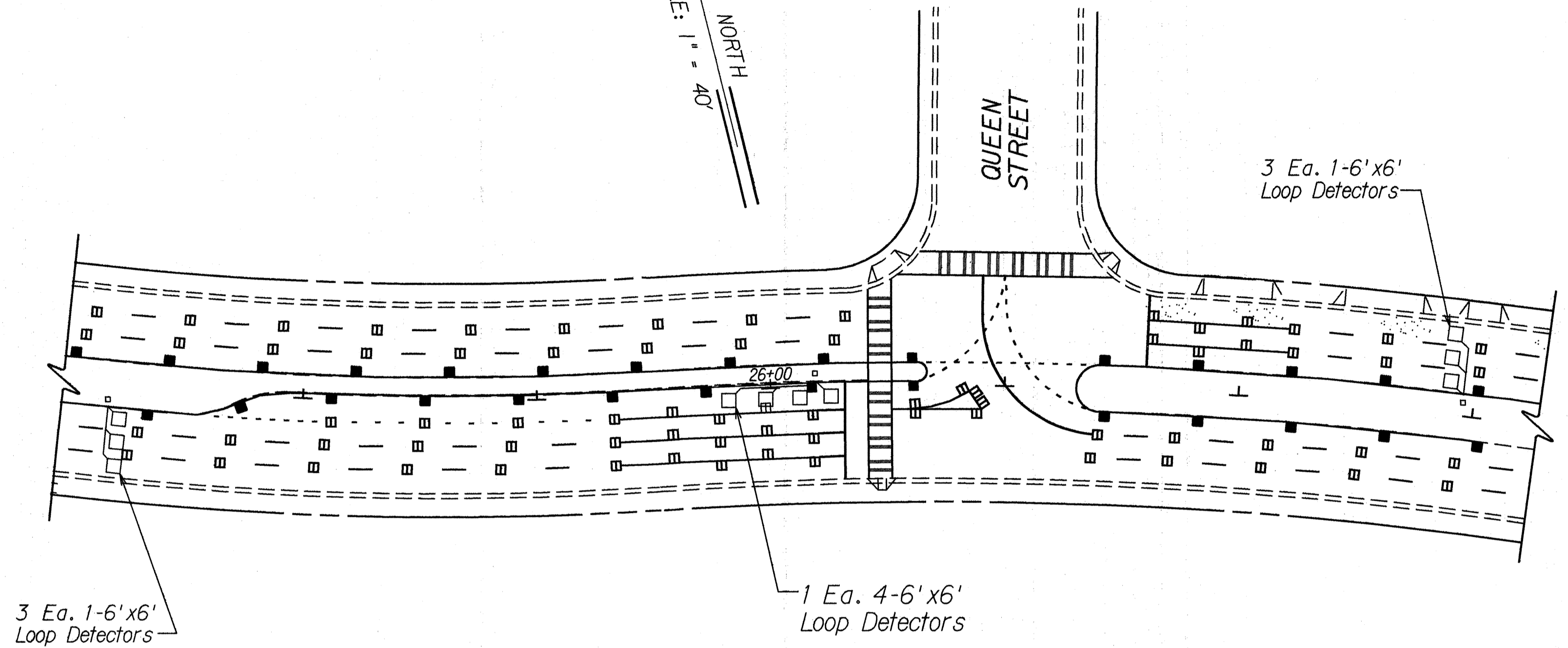
DATE: \_\_\_\_\_  
SURVEY PLOTTED BY: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_  
NOTE BOOK: \_\_\_\_\_  
QUANTITIES BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_

| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 92AB-01-92M | 1992        | 22        | 32           |

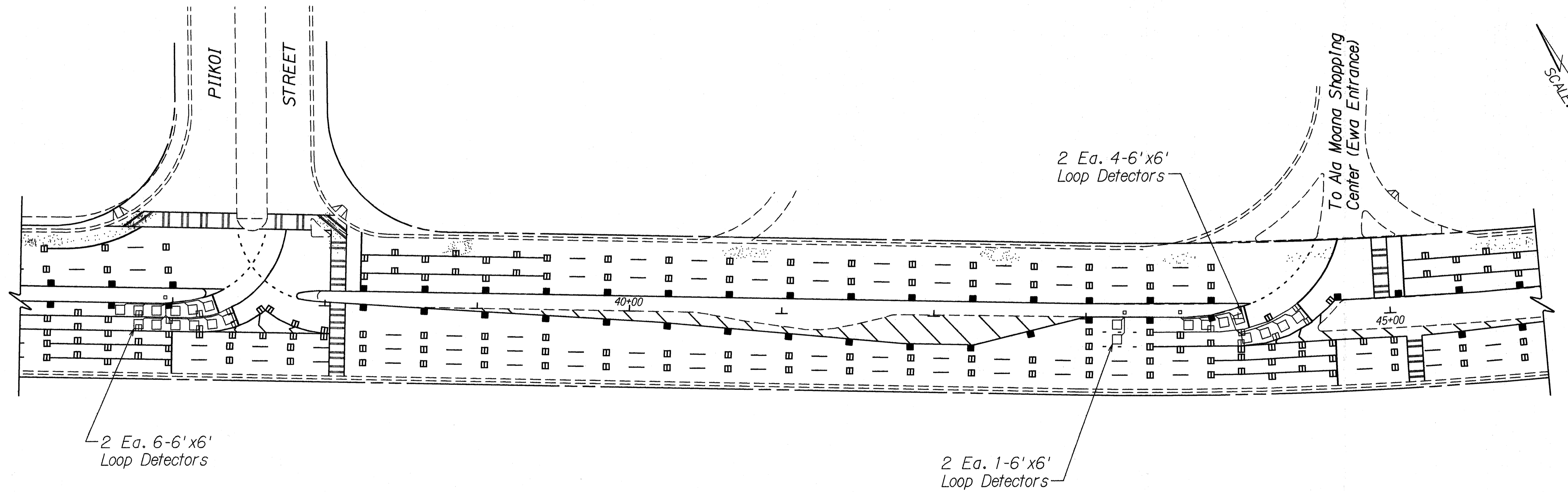
TRUE NORTH  
SCALE: 1" = 40'



TRUE NORTH  
SCALE: 1" = 40'



TRUE NORTH  
SCALE: 1" = 40'



ORIGINAL PLAN  
DATE  
DRAWN BY  
CHECKED BY  
NOTE BOOK  
NO.

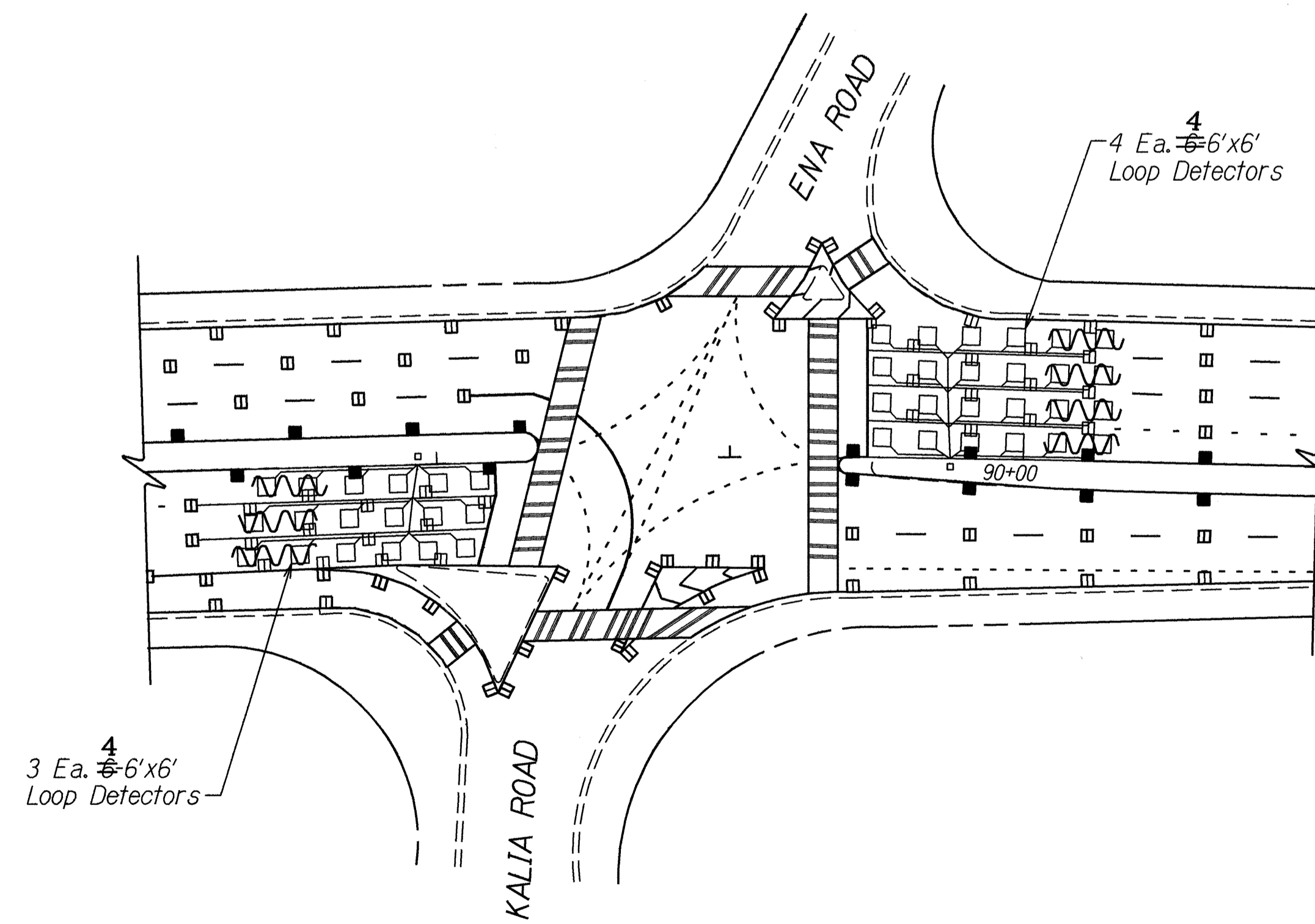
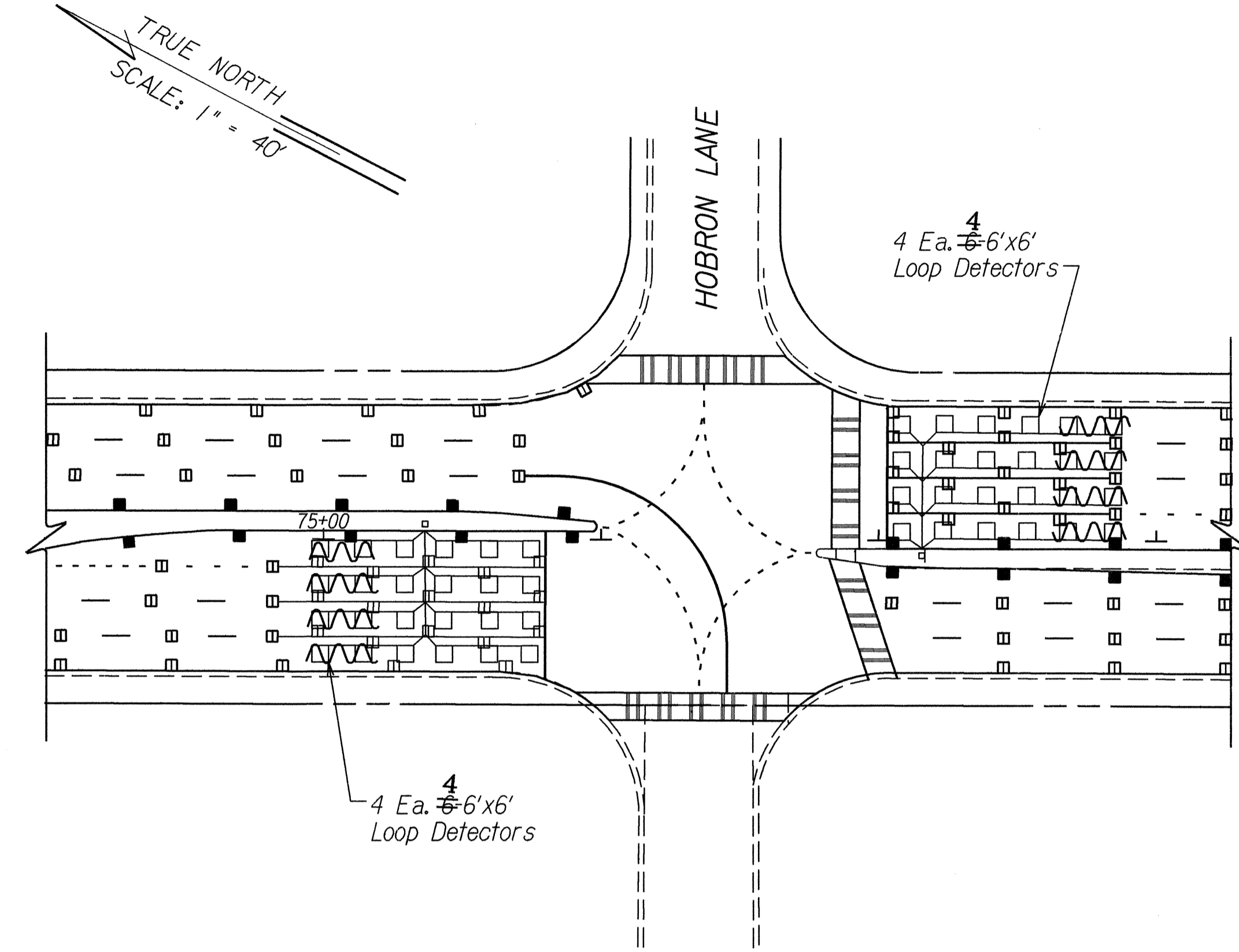
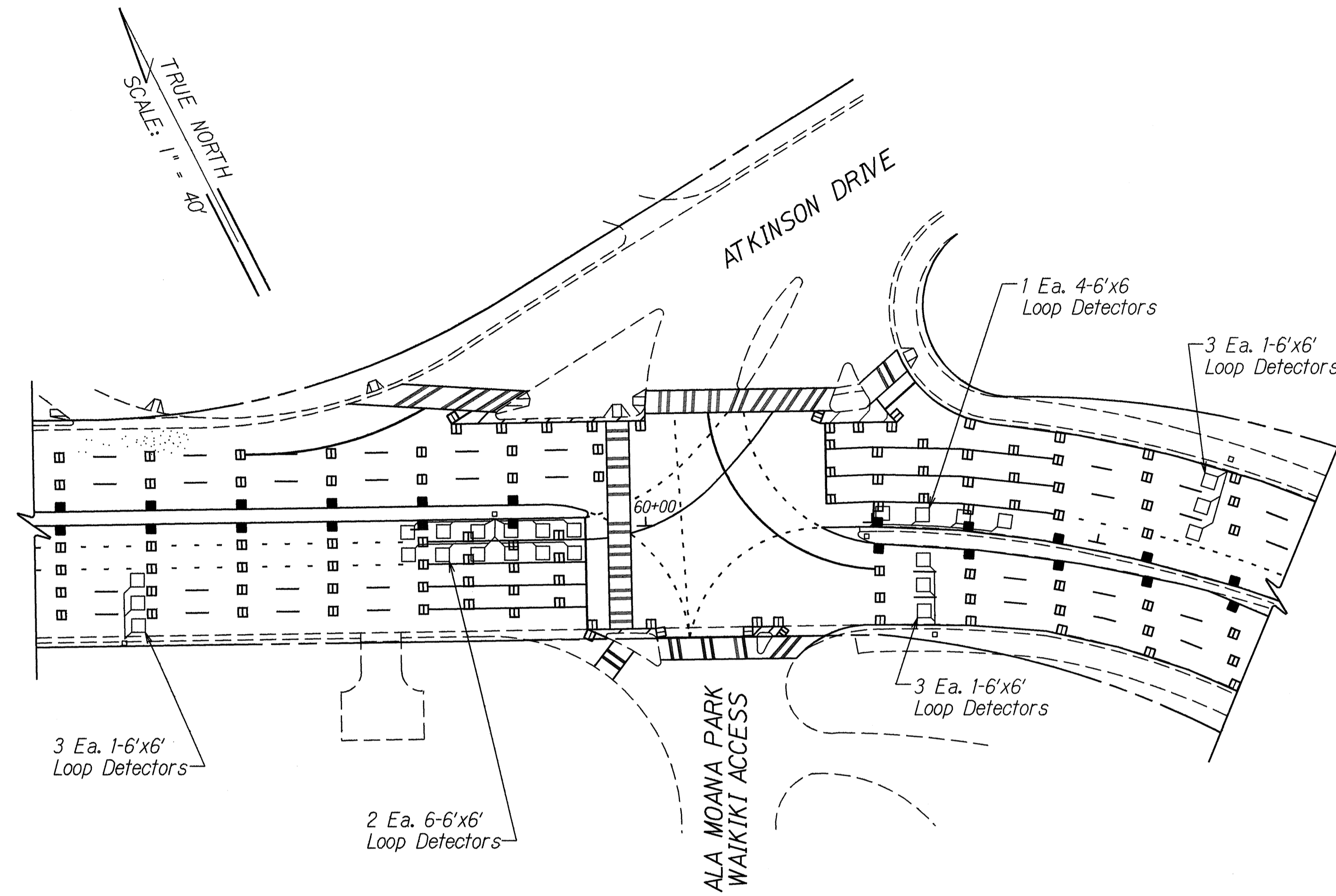
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**LOOP DETECTOR  
PLAN**

ALA MOANA BOULEVARD RESURFACING  
Keawe Street to Kalakaua Avenue  
Project No. 92AB-01-92M

Scale: 1" = 40'      Date: April 1992  
SHEET No. 110 OF 17 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 92AB-01-92M | 1992        | 23        | 32           |



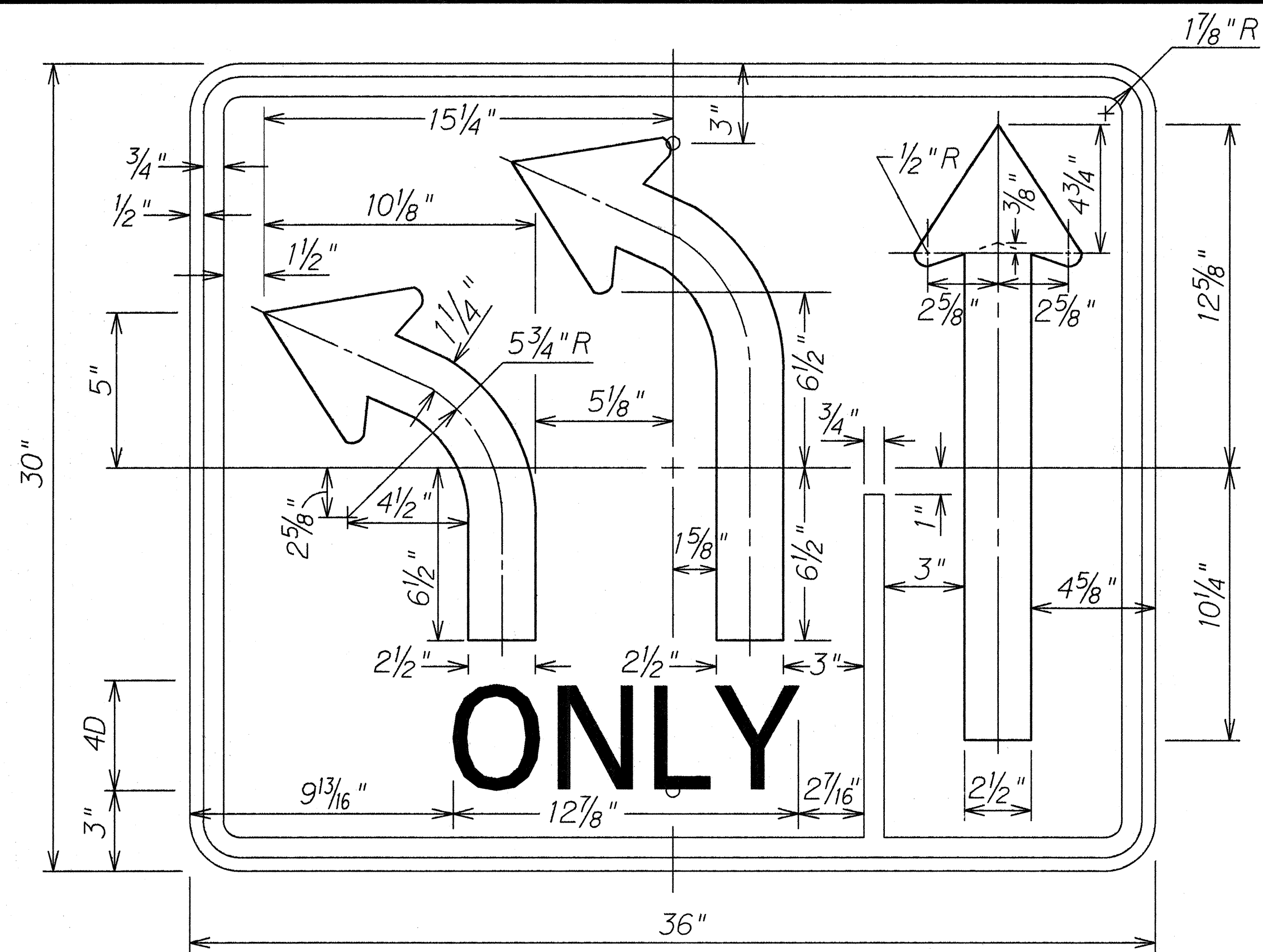
SURVEY PLOTTED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 ORIGINAL PLAN \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 No. \_\_\_\_\_

**LEGEND FOR AS-BUILT POSTINGS**

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

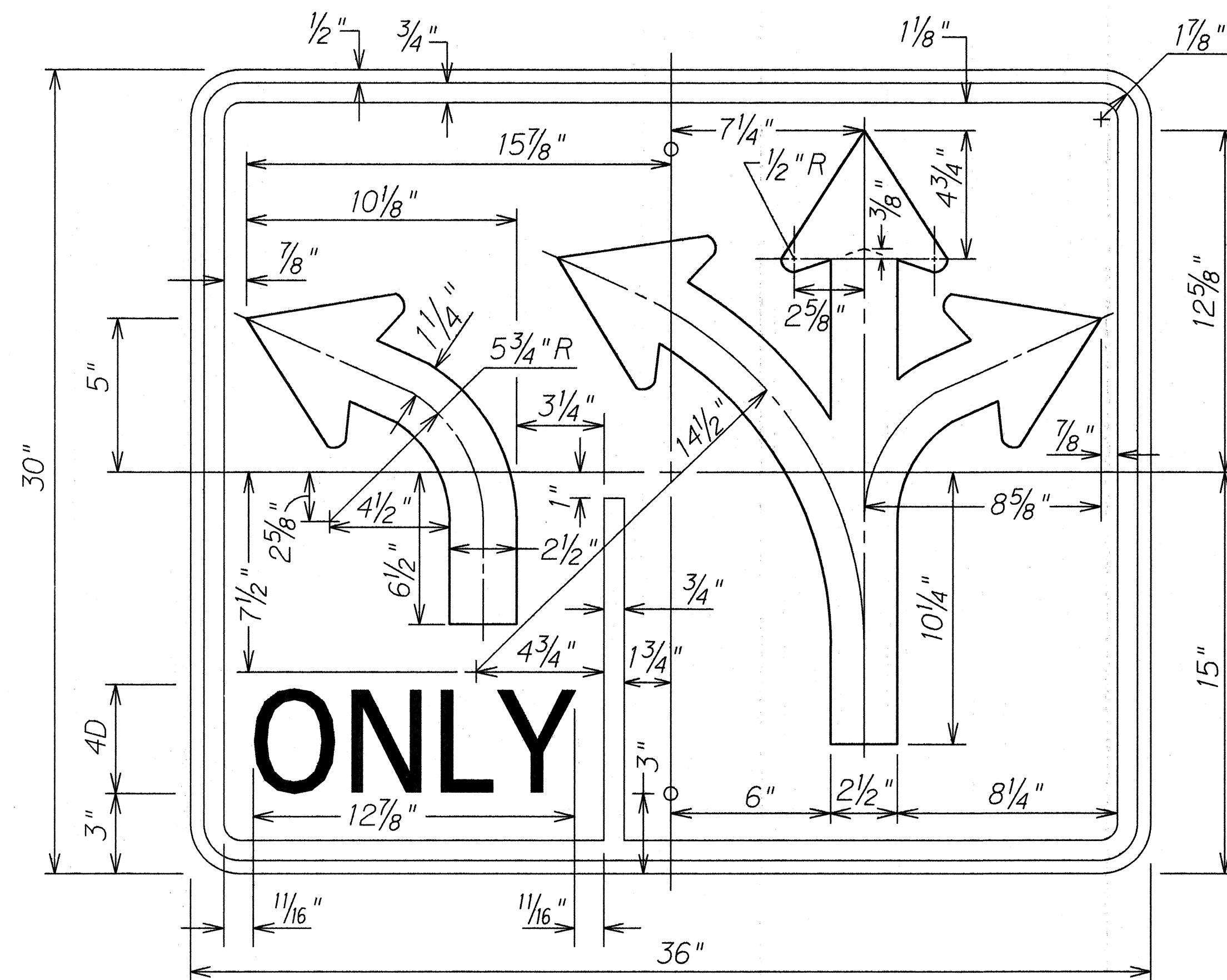
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**LOOP DETECTOR PLAN**  
 ALA MOANA BOULEVARD RESURFACING  
 Keawe Street to Kalakaua Avenue  
 Project No. 92AB-01-92M  
 Scale: 1" = 40' Date: Apr 11 1992  
 SHEET No. 111 OF 17 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 92AB-01-92M | 1992        | 24        | 32           |



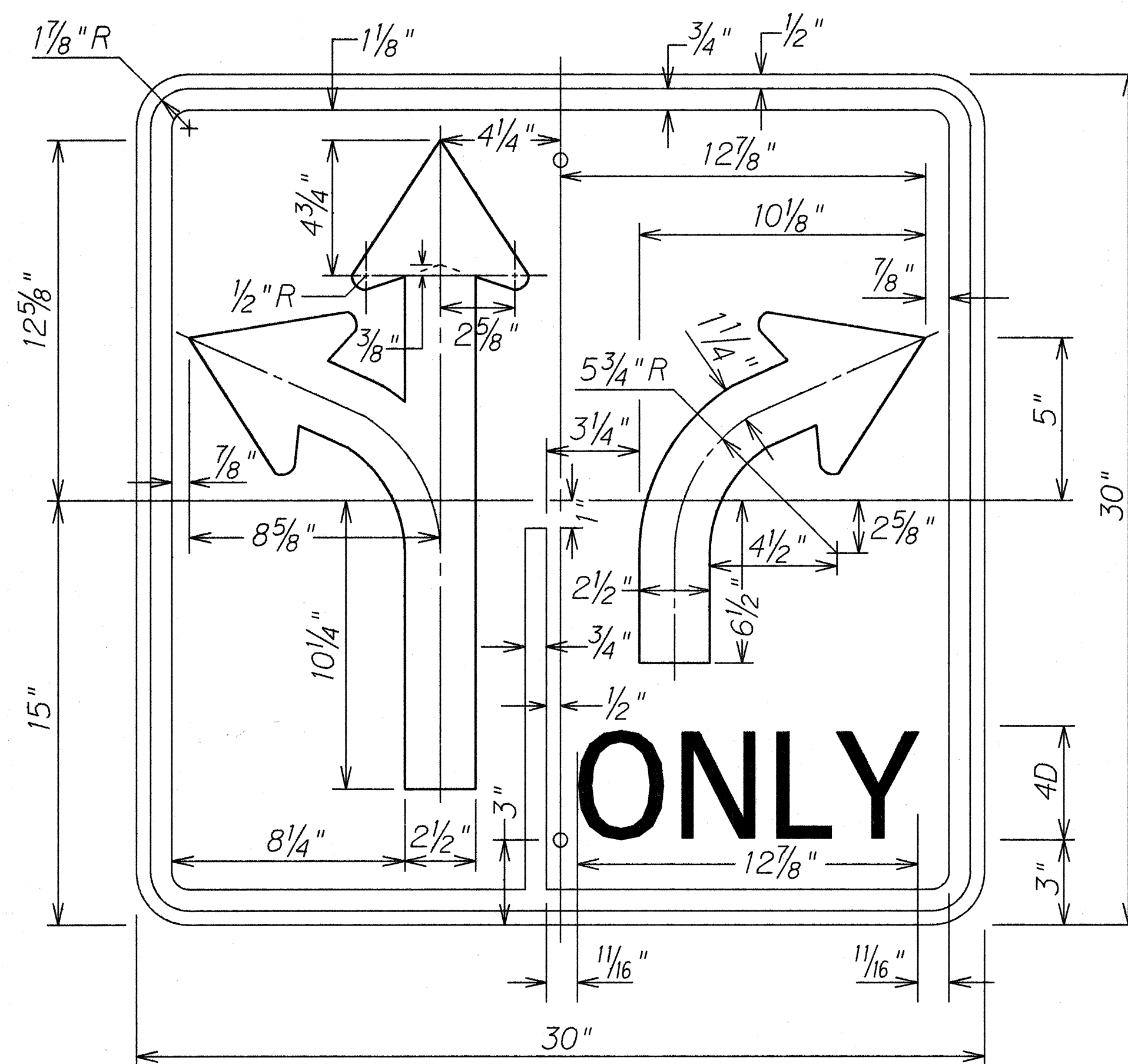
R3-27A(L)

Not to Scale



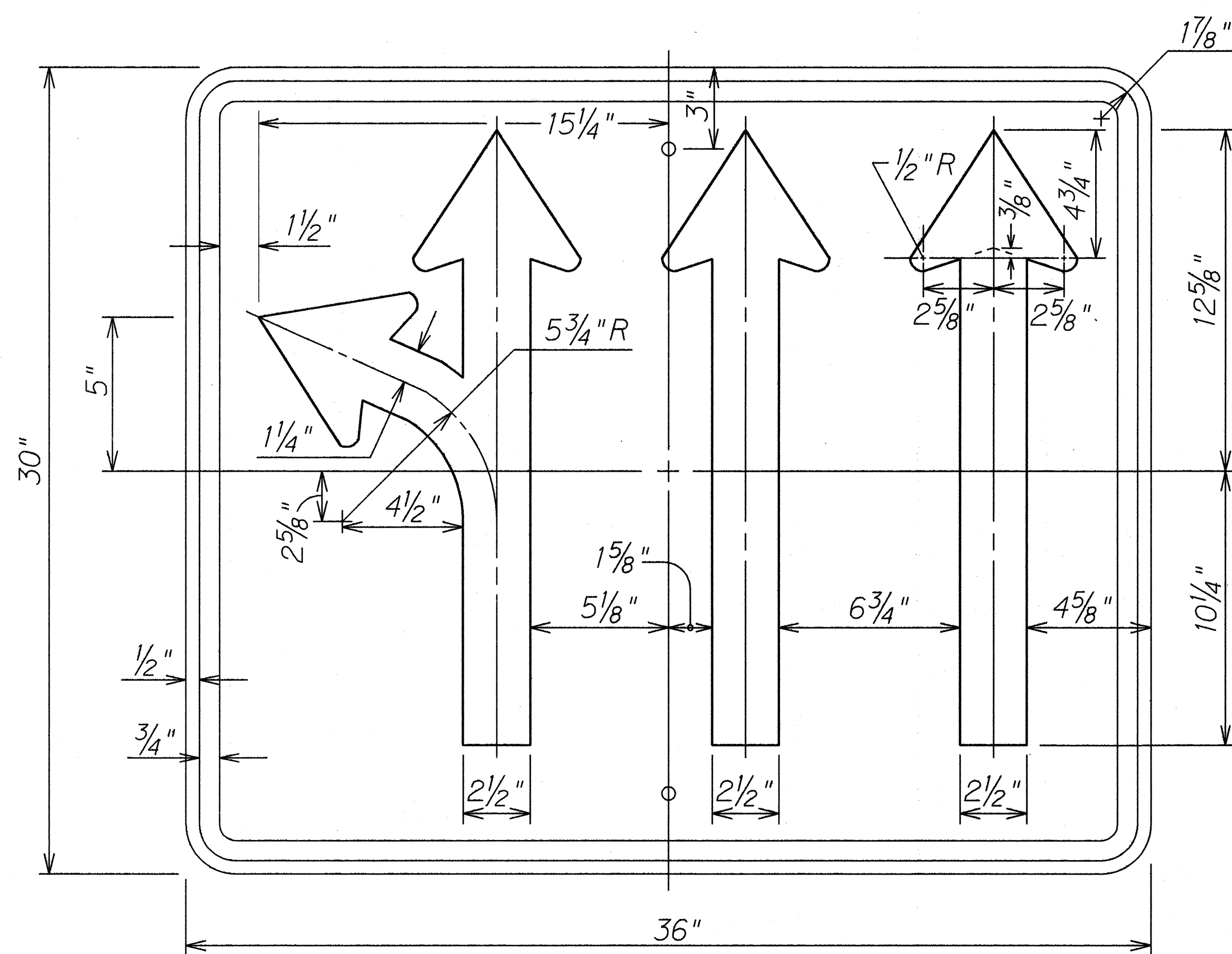
R3-32A

Not to Scale



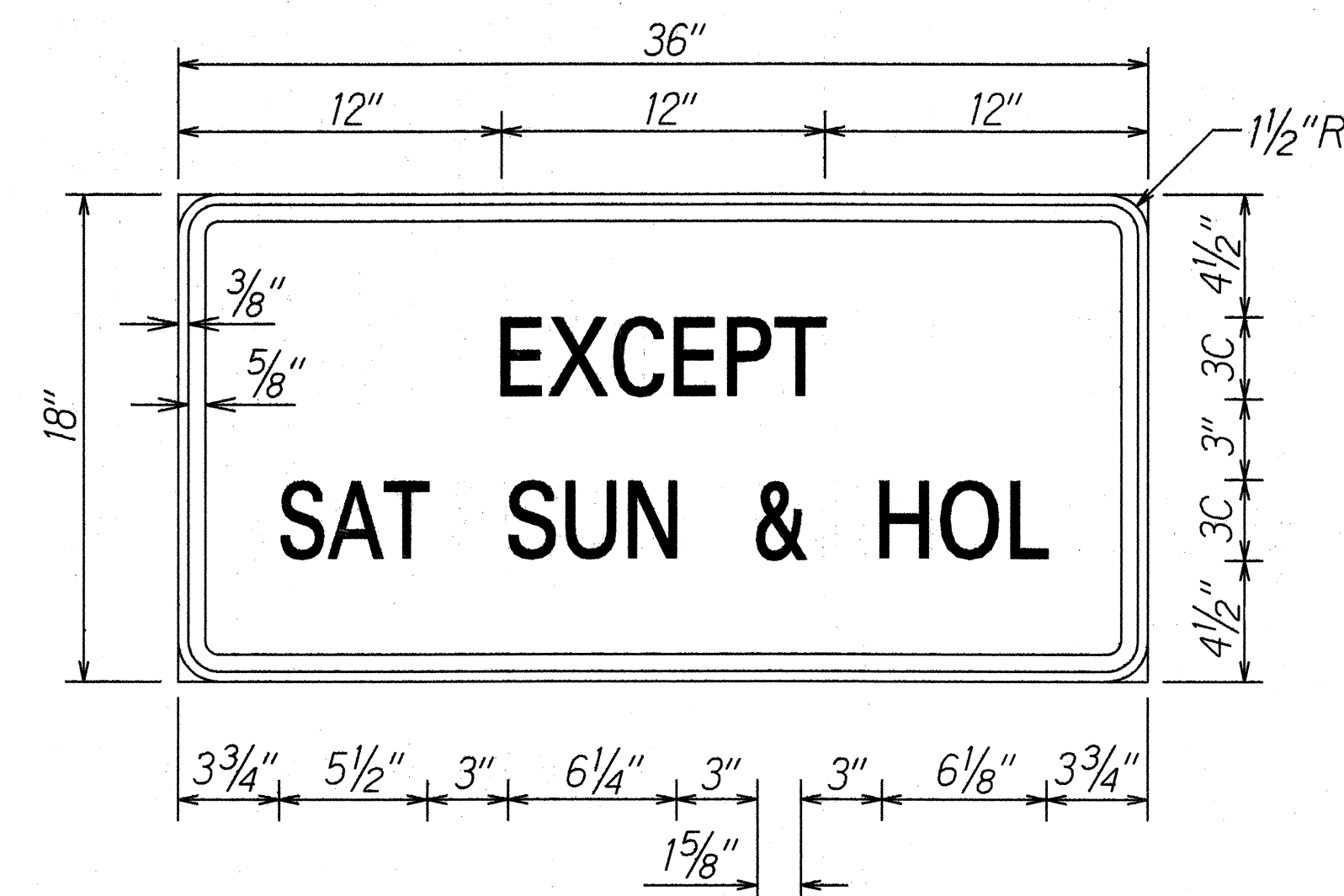
R3-31

Not to Scale



R3-42(L)

Not to Scale



R8-3b-B

Scale: 2" = 1'-0"

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

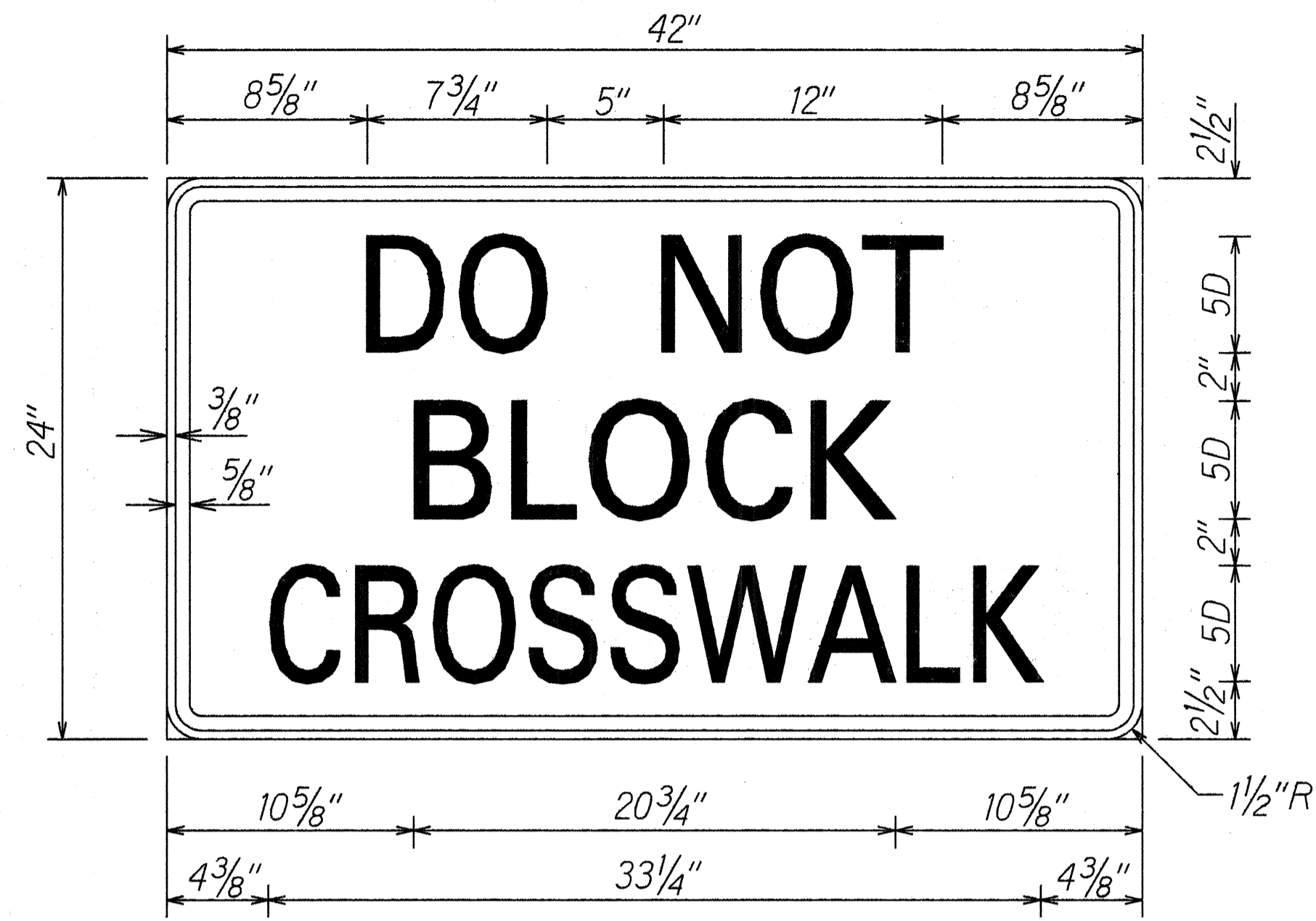
**TRAFFIC SIGN DETAILS**

ALA MOANA BOULEVARD RESURFACING  
Keawe Street to Kalakaua Avenue  
Project No. 92AB-01-92M

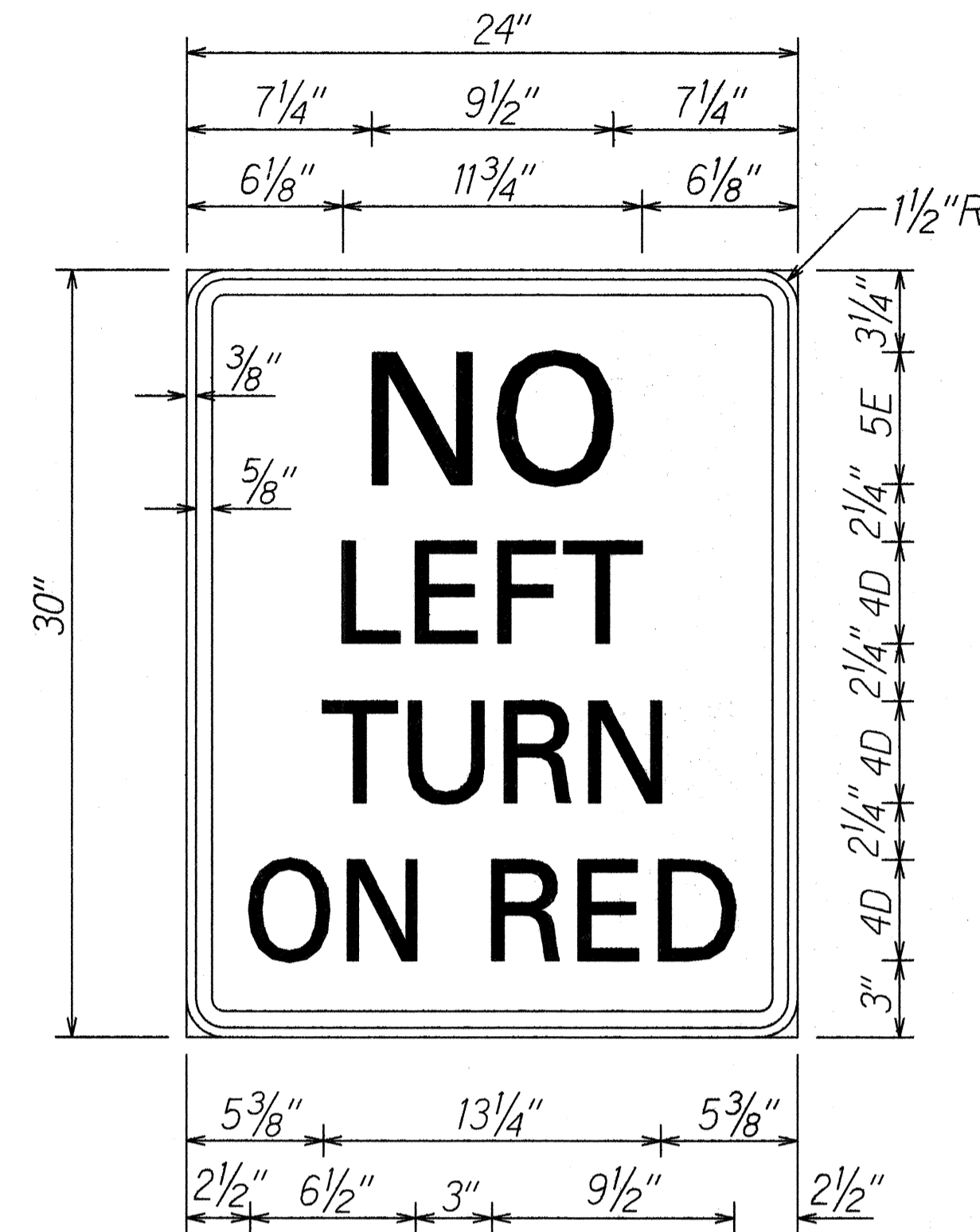
Scale: As Shown Date: Apr 11 1992  
SHEET No. T12 OF 17 SHEETS

ORIGINAL PLAN NO. \_\_\_\_\_  
DATE \_\_\_\_\_  
SURVEY PLOTTED BY \_\_\_\_\_  
DRAWN BY \_\_\_\_\_  
DESIGNED BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

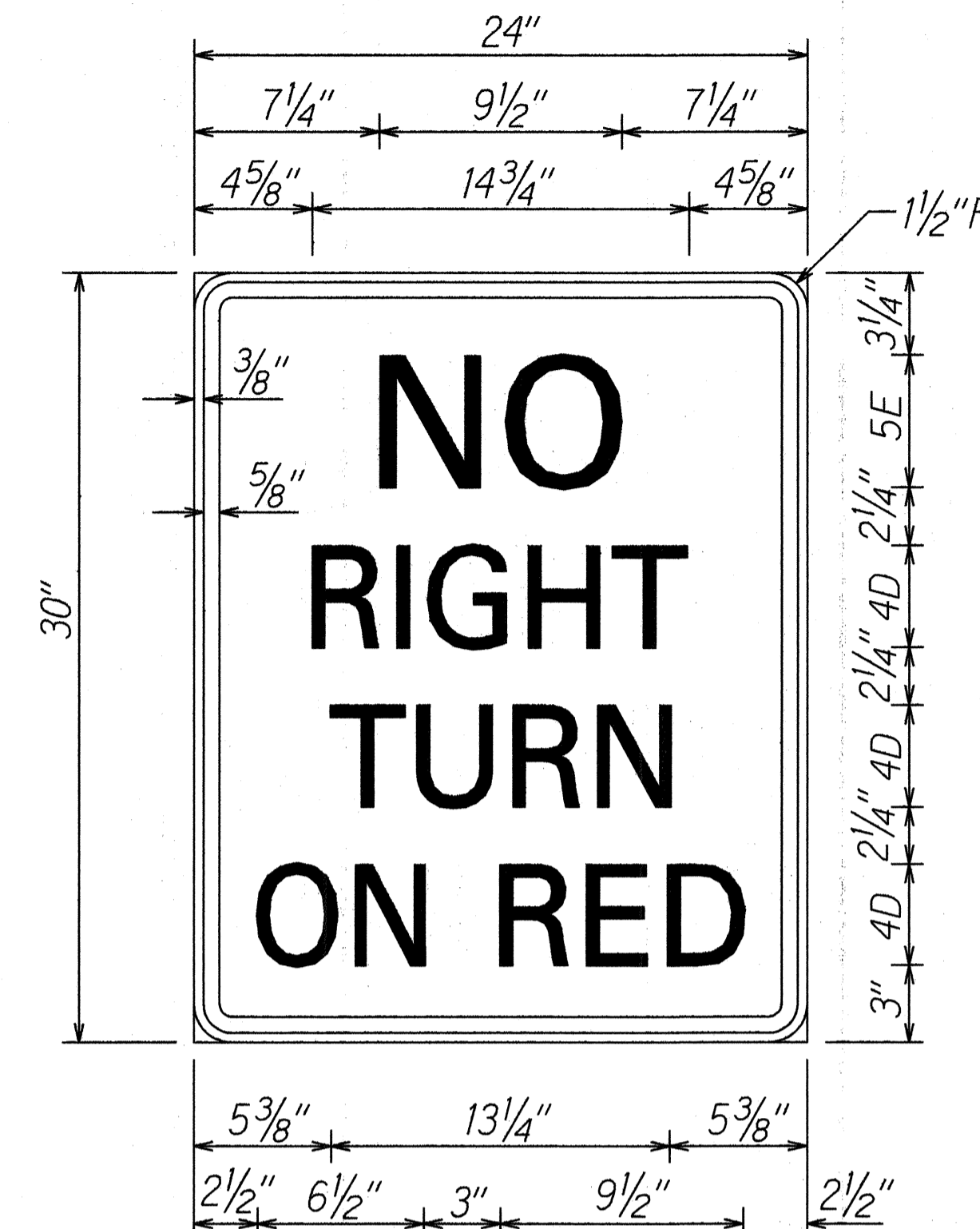
| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 92AB-01-92M | 1992        | 25        | 32           |



R10-7a



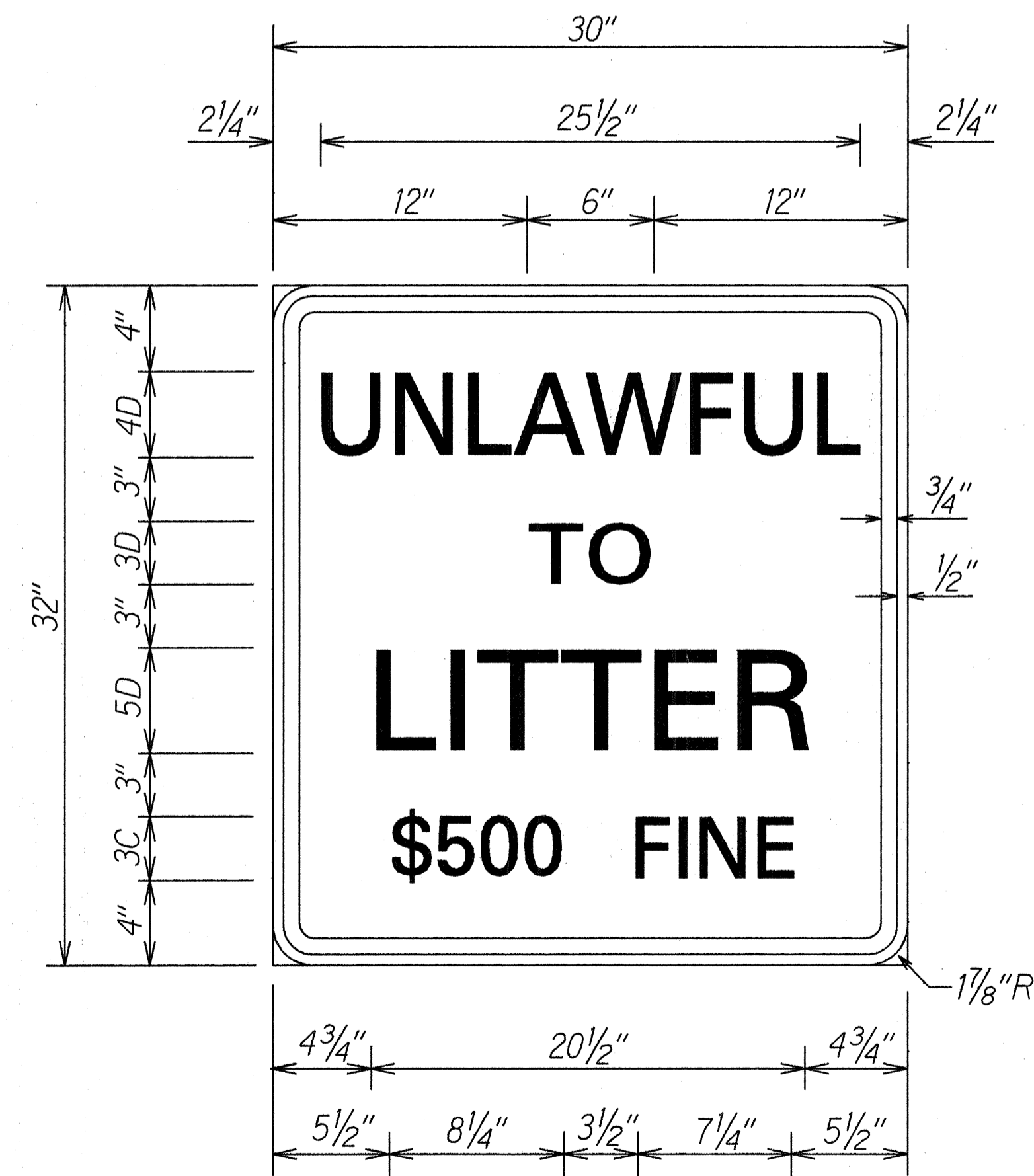
R10-11c(L)



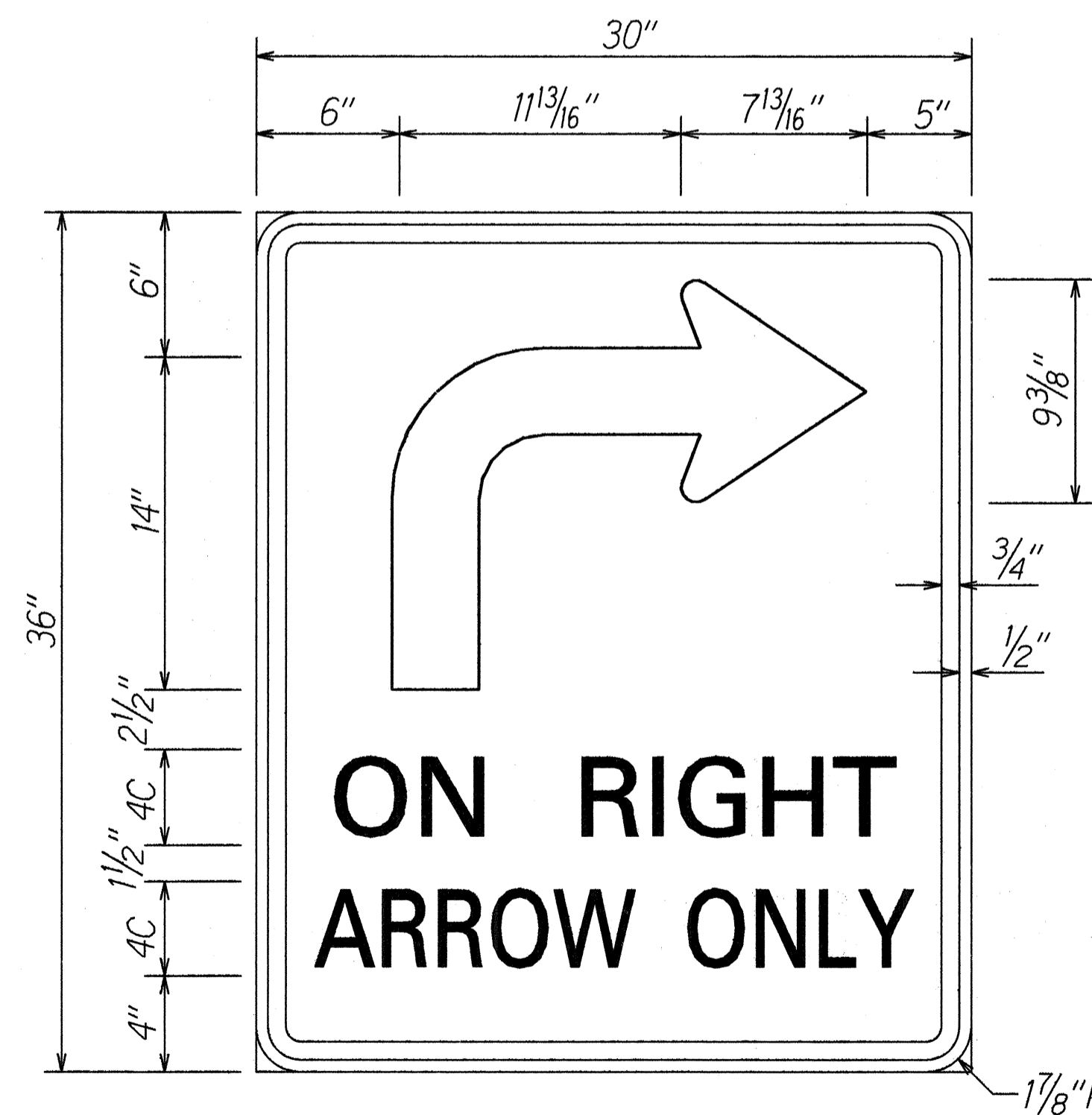
R10-11c(R)



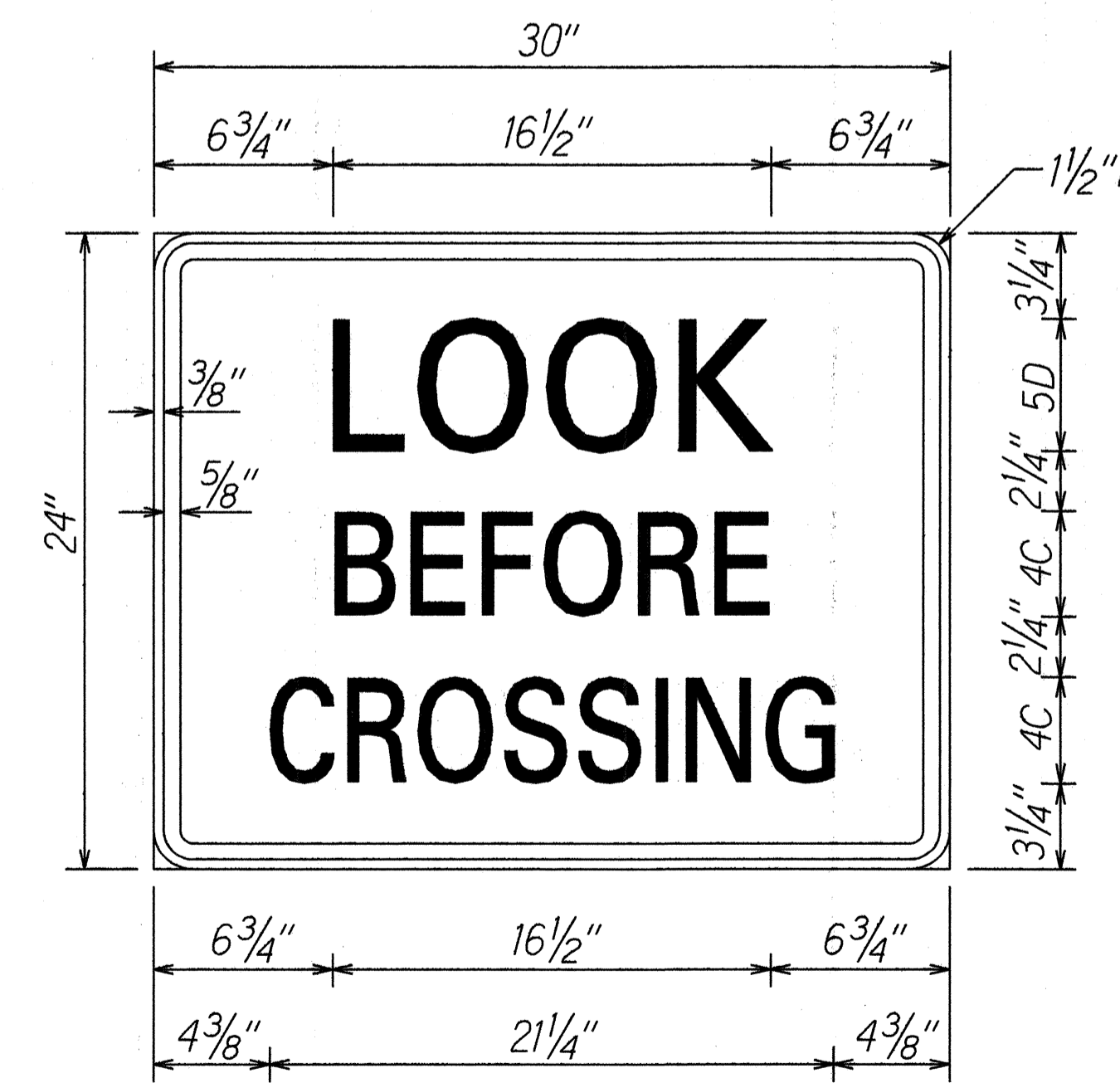
R9-3c-B



R15-1



R17-3A(R)



W11A-3-B

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

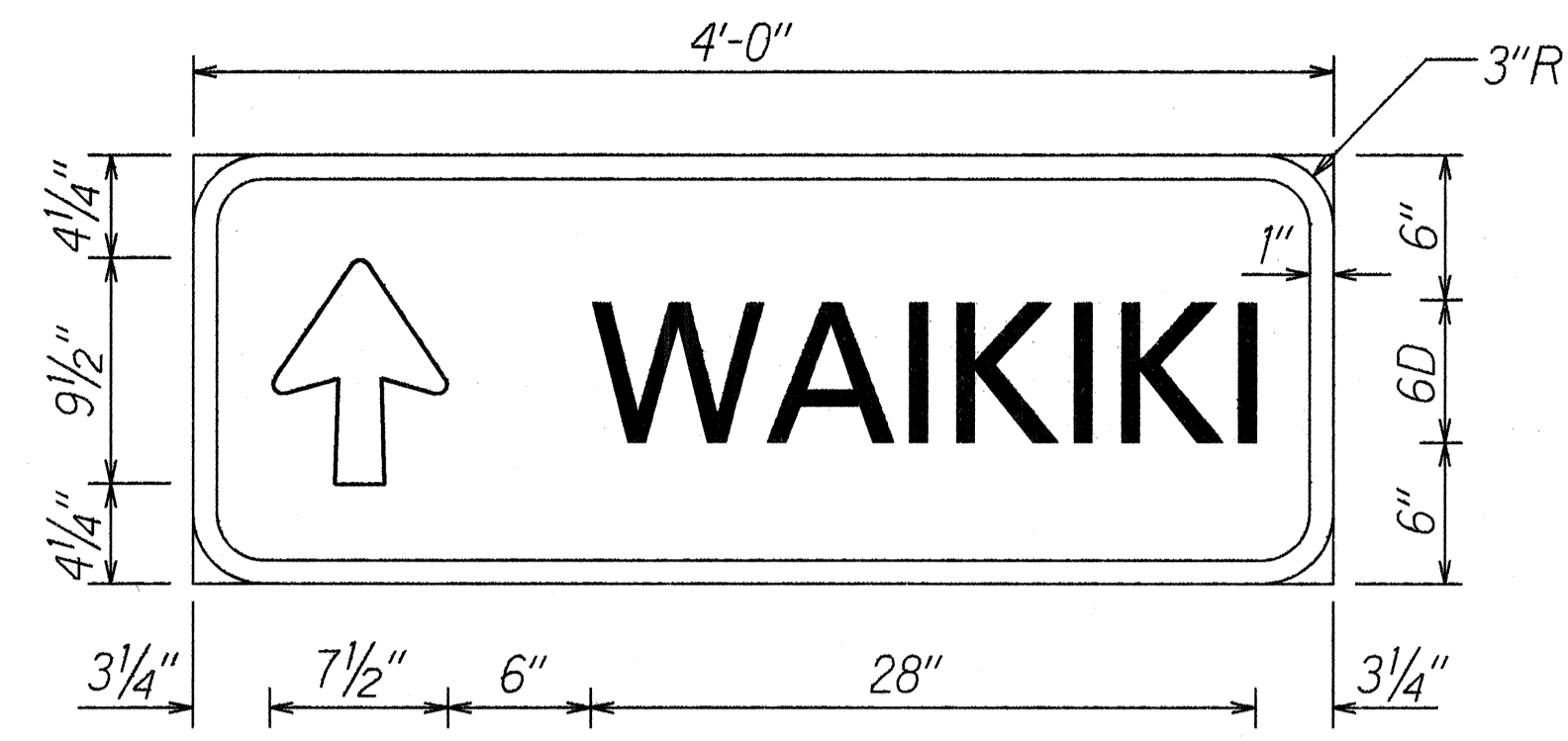
**TRAFFIC SIGN DETAILS**

ALA MOANA BOULEVARD RESURFACING  
Keawe Street to Kalakaua Avenue  
Project No. 92AB-01-92M

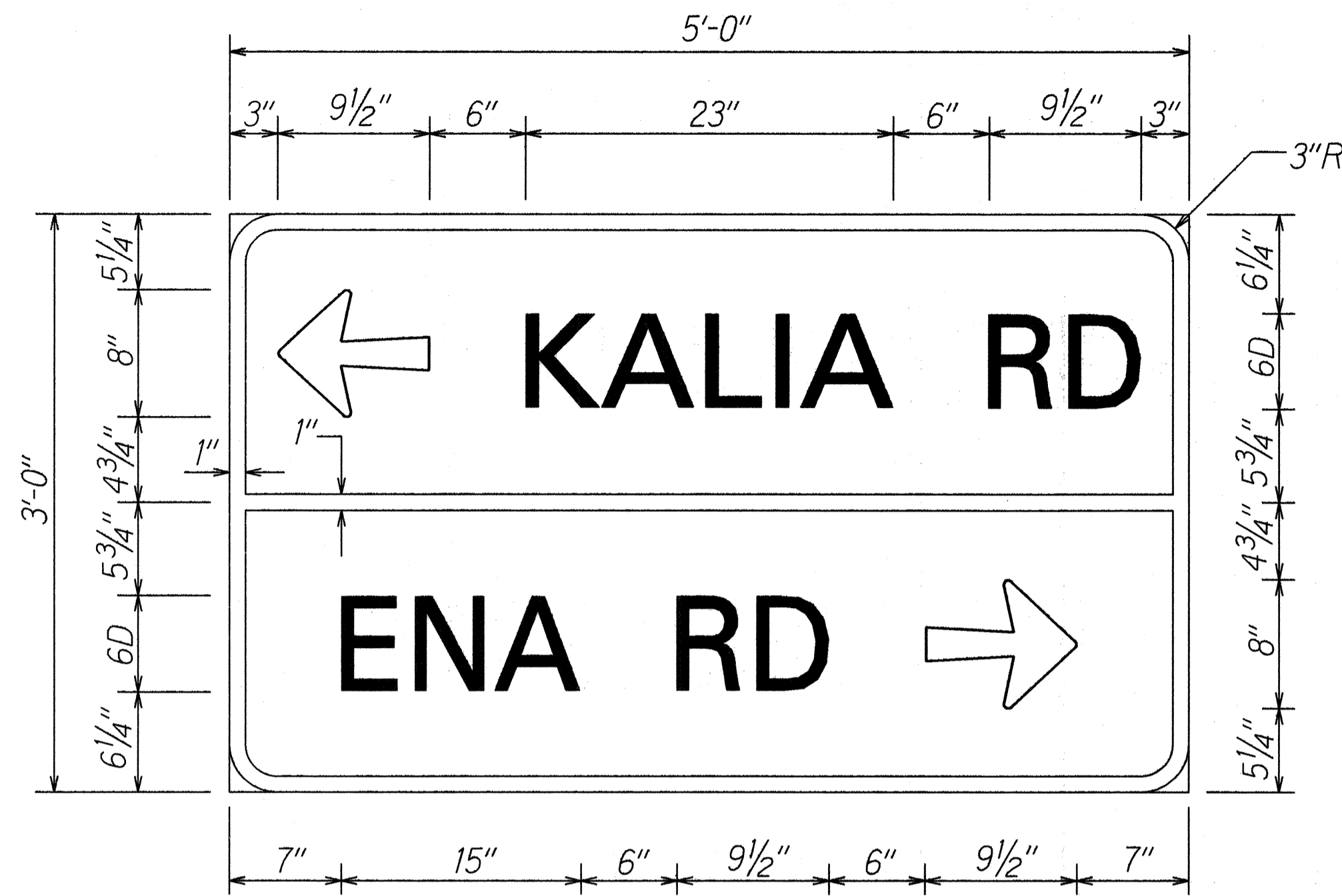
Scale: 2" = 1'-0" Date: April 1992  
SHEET No. T13 OF 17 SHEETS

DATE \_\_\_\_\_  
SURVEY PLOTTED BY \_\_\_\_\_  
DESIGNED BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_  
QUANTITIES BY \_\_\_\_\_  
NOTE BOOK \_\_\_\_\_  
ORIGINAL PLAN \_\_\_\_\_

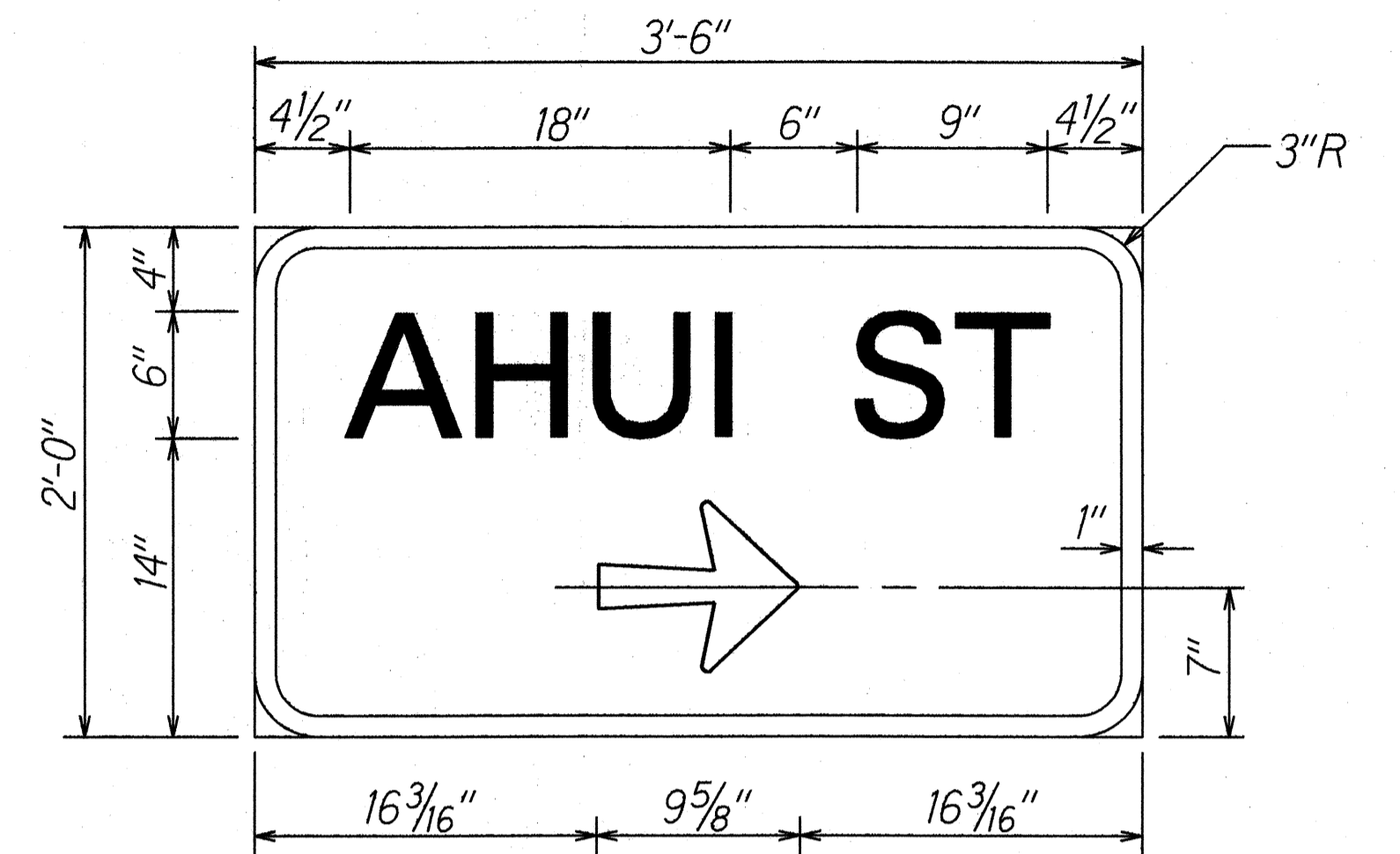
| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 92AB-01-92M | 1992        | 26        | 32           |



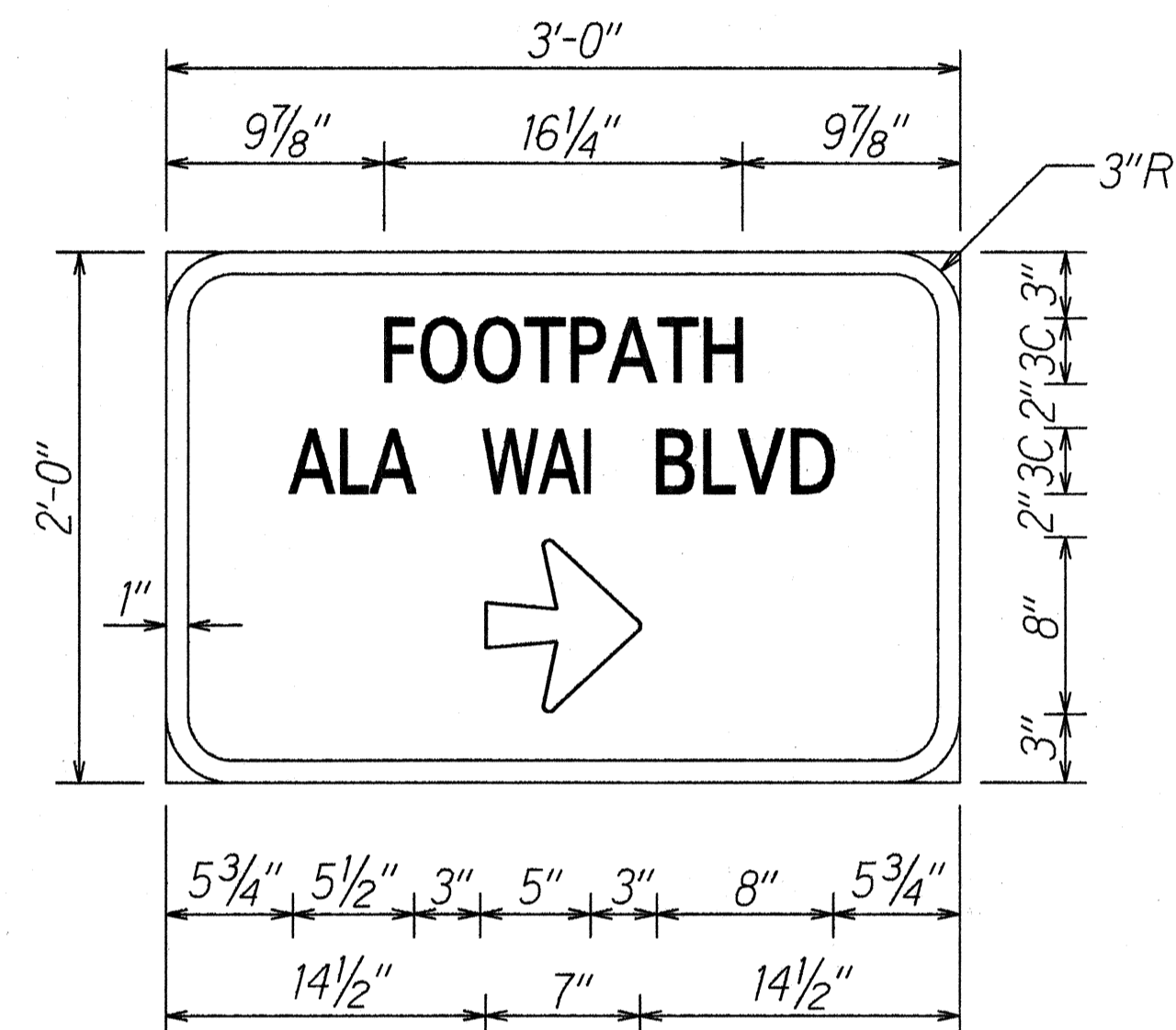
D1-1



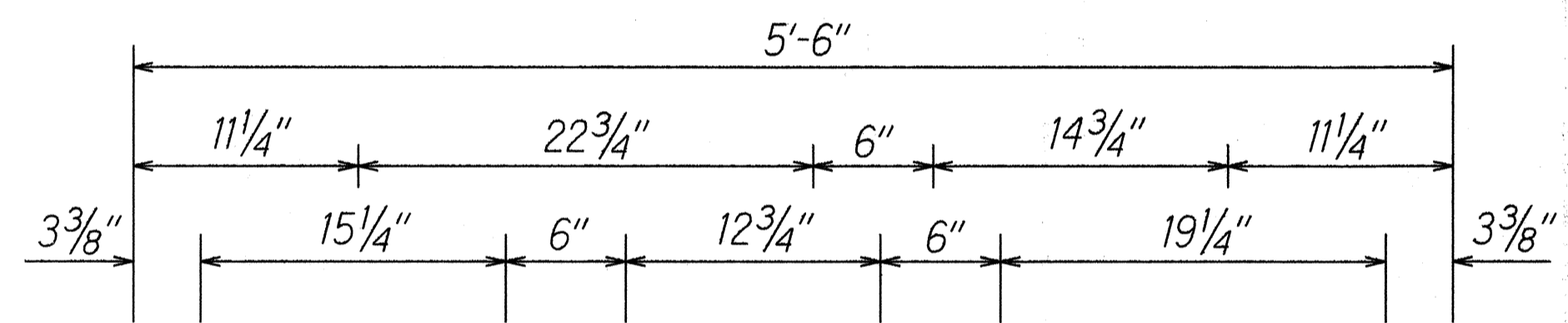
D1-4



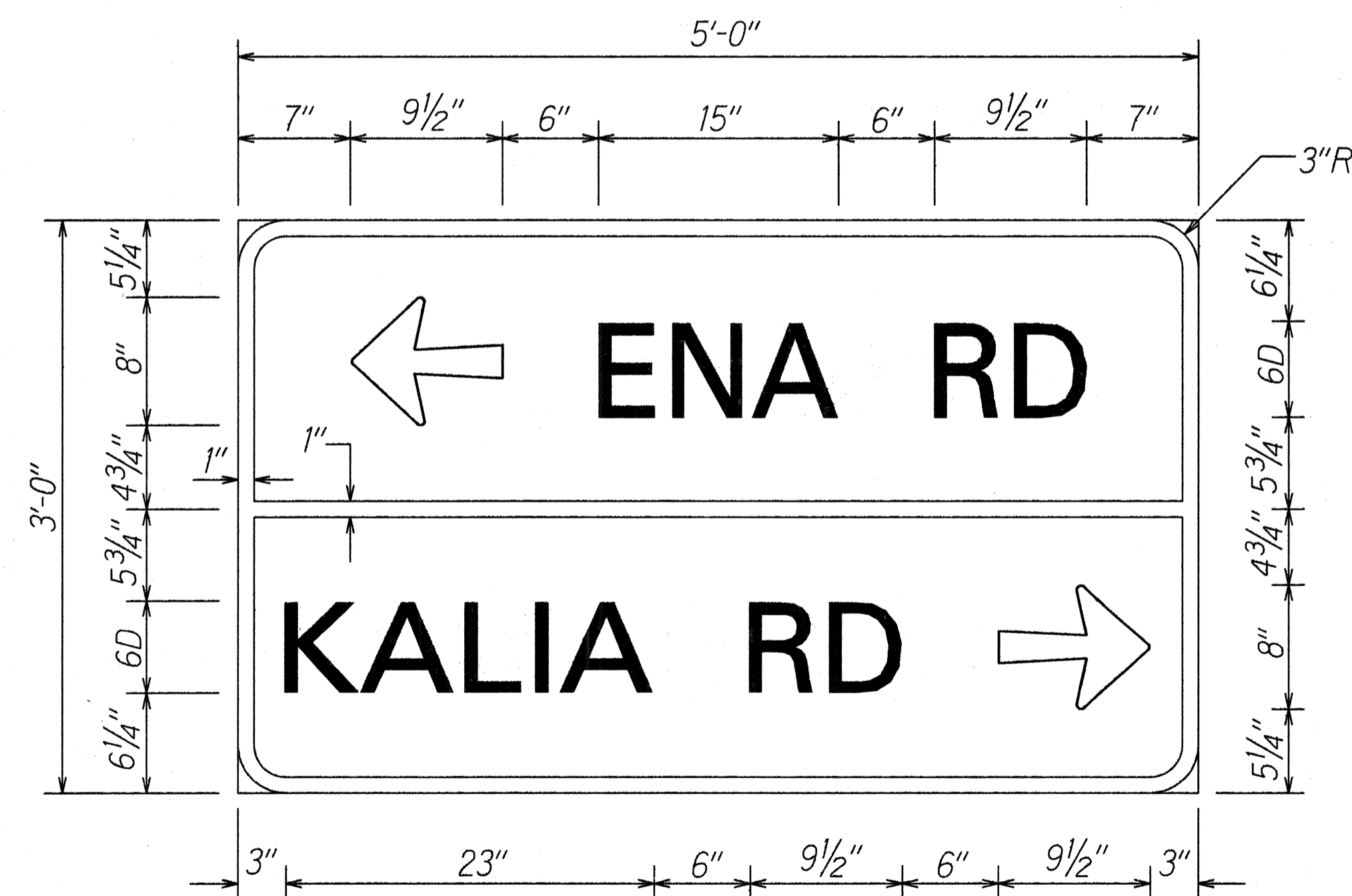
D3-1(R)  
D3-1(L) = ←



D1-2(R)  
D1-2(L) = ←



D1-5



D1-3

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TRAFFIC SIGN DETAILS**

ALA MOANA BOULEVARD RESURFACING  
Keawe Street to Kalakaua Avenue  
Project No. 92AB-01-92M

Scale: 1/2" = 1'-0" Date: Apr 11 1992

SHEET No. T14 OF 17 SHEETS

DATE: \_\_\_\_\_  
SURVEY PLOTTED BY: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_  
NOTED BY: \_\_\_\_\_  
QUANTITIES BY: \_\_\_\_\_  
REVISIONS BY: \_\_\_\_\_



### TRAFFIC SIGN SUMMARY

| SIGN NO.      | MESSAGE                                           | QUANTITY           |          |                         |          |
|---------------|---------------------------------------------------|--------------------|----------|-------------------------|----------|
|               |                                                   | 10 SQ. FT. OR LESS |          | GREATER THAN 10 SQ. FT. |          |
|               |                                                   | W/POST             | W/O POST | W/POST                  | W/O POST |
| R1-1          | STOP                                              | 6                  |          |                         |          |
| R1-2          | YIELD                                             | 3                  |          |                         |          |
| R2-1(25)-B 1  | SPEED LIMIT 25                                    |                    |          | 1                       |          |
| R2-1(35)-B 1  | SPEED LIMIT 35                                    |                    |          | 4                       | 8        |
| R2-5b(25)-B 1 | REDUCED SPEED 25                                  |                    |          | 1                       |          |
| R3-2-B 2      |                                                   | 7                  | 2        |                         |          |
| R3-4-B 2      |                                                   | 2                  | 4        |                         |          |
| R3-7(R)-B 2   | RIGHT LANE MUST TURN RIGHT                        | 1                  |          |                         |          |
| R3-27A(L) 3   |                                                   | 1                  | 1        |                         |          |
| R3-31 5       |                                                   |                    | 1        |                         |          |
| R3-32a 3      |                                                   |                    | 1        |                         |          |
| R3-42(L) 3    |                                                   | 1                  |          |                         |          |
| R4-7-B 1      |                                                   |                    |          | 2                       | 1        |
| R5-1-B 2      | DO NOT ENTER                                      | 1                  |          |                         |          |
| R6-1(R)       | ONE WAY                                           | 7                  |          |                         |          |
| R7-107a       | The BUS                                           | 1                  | 9        |                         |          |
| R7-201a-A 4   |                                                   |                    | 78       |                         |          |
| R8-3a-B 2     |                                                   | 38                 | 40       |                         |          |
| R8-3b-B 2     | EXCEPT SAT SUN & HOL                              |                    | 9        |                         |          |
| R9-3a-B 5     |                                                   | 11                 | 13       |                         |          |
| R9-3b(L)-A    | ← USE CROSSWALK                                   |                    | 14       |                         |          |
| R9-3b(R)-A    | USE → CROSSWALK                                   |                    | 10       |                         |          |
| R9-3c-B 6     | STOP FOR PEDESTRIAN IN CROSSWALK                  | 1                  | 2        |                         |          |
| R10-6(L)      | STOP HERE ON RED                                  | 4                  |          |                         |          |
| R10-6(R)      | STOP HERE ON RED                                  | 1                  |          |                         |          |
| R10-7         | DO NOT BLOCK INTERSECTION                         | 1                  | 2        |                         |          |
| R10-7a        | DO NOT BLOCK CROSSWALK                            |                    | 1        |                         |          |
| R10-9         | RIGHT TURN ON RED AFTER STOP                      | 2                  |          |                         |          |
| R10-11a(L)    | NO LEFT TURN ON RED                               |                    | 1        |                         |          |
| R10-11d       | NO RIGHT TURN ON RED EXCEPT RIGHT LANE AFTER STOP |                    |          | 1                       | 1        |
| R11-1-A 1     | KEEP OFF MEDIAN                                   |                    |          | 2                       | 2        |
| R15-1         | UNLAWFUL TO LITTER \$500 FINE                     | 1                  |          |                         |          |
| R16-1         | TURN RIGHT ANYTIME WITH CAUTION                   | 1                  |          |                         |          |
| R17-1         |                                                   | 1                  | 5        |                         |          |
| R17-2         |                                                   | 2                  |          |                         |          |
| R17-3         |                                                   | 8                  | 3        |                         |          |
| R17-3a(R)     |                                                   |                    | 4        |                         |          |
| R17-4         |                                                   | 2                  | 2        |                         |          |
| W3-3          |                                                   | 2                  |          |                         |          |
| W4-2(R)       |                                                   | 1                  |          |                         |          |
| W9-2(R)       | LANE ENDS MERGE RIGHT                             | 1                  |          |                         |          |
| W11-2-A 2     |                                                   | 1                  |          |                         |          |
| W11A-3-B 7    | LOOK BEFORE CROSSING                              |                    | 1        |                         |          |
| I-5 5         |                                                   | 1                  | 4        |                         |          |
| M7-1(R)       |                                                   |                    | 1        |                         |          |
| M7-2          |                                                   |                    | 4        |                         |          |
| TOTAL         |                                                   | 109                | 212      | 11                      | 12       |

1=(36"X48"), 2=(36"X36"), 3=36"X30", 4=(24"X12"), 5=(30"X30"), 6=(30"X36"), 7=(30"X24")

### REFLECTOR MARKER SUMMARY

| TYPE | QUANTITY |       |
|------|----------|-------|
|      | W/O POST |       |
|      | YELLOW   | WHITE |
| RM-9 | 1        | 0     |

### CONSTRUCTION SIGN SUMMARY

| SIGN NO.  | LOCATION                                 | MESSAGE                 | W/POST'S |
|-----------|------------------------------------------|-------------------------|----------|
| CG20-2    | ± STA. 19+70± LT.                        | END CONSTRUCTION        | 1        |
| CW20-1d   | ± STA. 19+70± RT.                        | ROAD CONSTRUCTION AHEAD | 1        |
| * CW20-1d | NIU ST (500' FROM KALAKAUA AVE)          | ROAD CONSTRUCTION AHEAD | 1        |
| * CW20-1d | KALAKAUA AVE. (500' FROM ALA MOANA BLVD) | ROAD CONSTRUCTION AHEAD | 1        |
| * CG20-2  | KALAKAUA AVE (500' PAST ALA MOANA BLVD)  | END CONSTRUCTION        | 1        |
| TOTAL     |                                          |                         | 5        |

\* See Plan Sht. T7 for Location.

### ROUTE MARKER SUMMARY

| SIGN ASSEMBLY | LOCATION          | SIGN NO. AND MESSAGE            | TYPE A ASSEMBLY |          |
|---------------|-------------------|---------------------------------|-----------------|----------|
|               |                   |                                 | W/POST          | W/O POST |
| IRM-1         | ± STA. 40+25± LT. | IM4-5 TO<br>IM-1(2)<br>IM6-1(R) |                 | 1        |
| IRM-2         | ± STA. 64+15± LT. | IM4-5 TO<br>IM-1(2)<br>IM-6-3   |                 | 1        |
| SRM-1         | ± STA. 41+95± LT. | M3-4 WEST<br>M1-6(92)           |                 | 1        |
| SRM-2         | ± STA. 41+95± RT. | M3-2 EAST<br>M1-6(92)           |                 | 1        |
| TOTAL         |                   |                                 | 0               | 4        |

### OBJECT MARKER SUMMARY

| TYPE                  | QUANTITY |                  |
|-----------------------|----------|------------------|
|                       | W/O POST | W/FLEX-IBLE POST |
| TYPE II OBJECT MARKER | 230      |                  |
| TOTAL                 | 230      | 0                |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

### TRAFFIC SUMMARIES

ALA MOANA BOULEVARD RESURFACING  
Keawe Street to Kalakaua Avenue  
Project No. 92AB-01-92M

Date: April 1992  
SHEET No. T16 OF 17 SHEETS

SURVEY PLOTTED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 QUANTITIES BY \_\_\_\_\_  
 ORIGINAL PLAN NO. \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

| FED. ROAD DIST. NO. | STATE | PROJ. NO.   | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 92AB-01-92M | 1992        | 29        | 32           |

**DESTINATION SIGN SUMMARY**

| SIGN NO. | LOCATION             | MESSAGE                               | SIZE          | NEW PANEL AREA (SQ. FT.) |         |
|----------|----------------------|---------------------------------------|---------------|--------------------------|---------|
|          |                      |                                       |               | W/O POST                 | W/POSTS |
| D1-1     | Ⓜ STA. 43+35± RT.    | ↑ WAIKIKI                             |               | 6                        |         |
| D1-1     | Ⓜ STA. 59+20± RT.    | ↑ WAIKIKI                             |               | 6                        |         |
| D1-2(R)  | Ⓜ STA. 68+00± LT.    | FOOTPATH ALA WAI BLVD ←               |               | 6                        |         |
| D1-2(L)  | Ⓜ STA. 68+00± LT.    | FOOTPATH ALA WAI BLVD →               |               | 6                        |         |
| D1-3     | Ⓜ STA. 87+85± MEDIAN | ← ENA RD KALIA RD →                   |               | 15                       |         |
| D1-4     | Ⓜ STA. 89+80± MEDIAN | ← KALIA RD ENA RD →                   |               | 15                       |         |
| D1-5     | Ⓜ STA. 95+70± MEDIAN | KUHIO AVE ALA WAI BLVD LEFT LANE ONLY | 3'-0" x 2'-0" |                          | 6       |
| D3-1(R)  | Ⓜ STA. 38+95± RT.    | AHUI ST →                             |               | 7                        |         |
| D3-1(L)  | Ⓜ STA. 43+75± LT.    | AHUI ST ←                             |               | 7                        |         |
| TOTAL    |                      |                                       |               | 68                       | 6       |

**PAVEMENT MARKING SUMMARY**

| DESCRIPTION                                      | QUANTITY   |             |
|--------------------------------------------------|------------|-------------|
|                                                  | NIGHT      | DAY         |
| <b>PAVEMENT MARKERS</b>                          |            |             |
| TYPE A _____                                     | 1,270 Ea.  | 2,710 Ea.   |
| TYPE CL _____                                    | 500 Ea.    | 1,090 Ea.   |
| TYPE DL _____                                    | 100 Ea.    |             |
| TYPE HL _____                                    | 100 Ea.    | 360 Ea.     |
| <b>TAPE - TYPE I OR THERMOPLASTIC EXTRUSION</b>  |            |             |
| 8-INCH PAVEMENT STRIPE (WHITE) _____             | 2,230 L.F. | 3,860 L.F.  |
| DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____     | 1,840 L.F. |             |
| PAVEMENT ARROW _____                             | 30 Ea.     | 51 Ea.      |
| <b>TAPE - TYPE II OR THERMOPLASTIC EXTRUSION</b> |            |             |
| 4-INCH PAVEMENT STRIPE (WHITE) _____             |            | 6,900 L.F.  |
| 4-INCH PAVEMENT STRIPE (YELLOW) _____            | 2,760 L.F. | 14,410 L.F. |
| 8-INCH PAVEMENT STRIPE (WHITE) _____             | 270 L.F.   | 1,400 L.F.  |
| 12-INCH PAVEMENT STRIPE (WHITE) _____            | 50 L.F.    | 380 L.F.    |
| 12-INCH PAVEMENT STRIPE (YELLOW) _____           |            | 310 L.F.    |
| DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____     | 490 L.F.   |             |
| <b>THERMOPLASTIC EXTRUSION</b>                   |            |             |
| 4-INCH PAVEMENT STRIPE (WHITE) _____             | 2,730 L.F. | 3,270 L.F.  |
| 4-INCH PAVEMENT STRIPE (YELLOW) _____            | 90 L.F.    | 1,260 L.F.  |
| 8-INCH PAVEMENT STRIPE (WHITE) _____             |            | 780 L.F.    |
| 12-INCH PAVEMENT STRIPE (WHITE) _____            | 440 L.F.   | 660 L.F.    |
| CROSSWALK MARKINGS _____                         | 117 LANE   | 118 LANE    |

6/17/92 Revised Pavement Marking Summary

DATE REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TRAFFIC SUMMARIES**

**ALA MOANA BOULEVARD RESURFACING**  
Keawe Street to Kalakaua Avenue

Project No. 92AB-01-92M

Date: April 1992

SHEET No. 117 OF 17 SHEETS

**ADD. 29**

SURVEY PLOTTED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 ORIGINAL PLAN \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 No. \_\_\_\_\_