

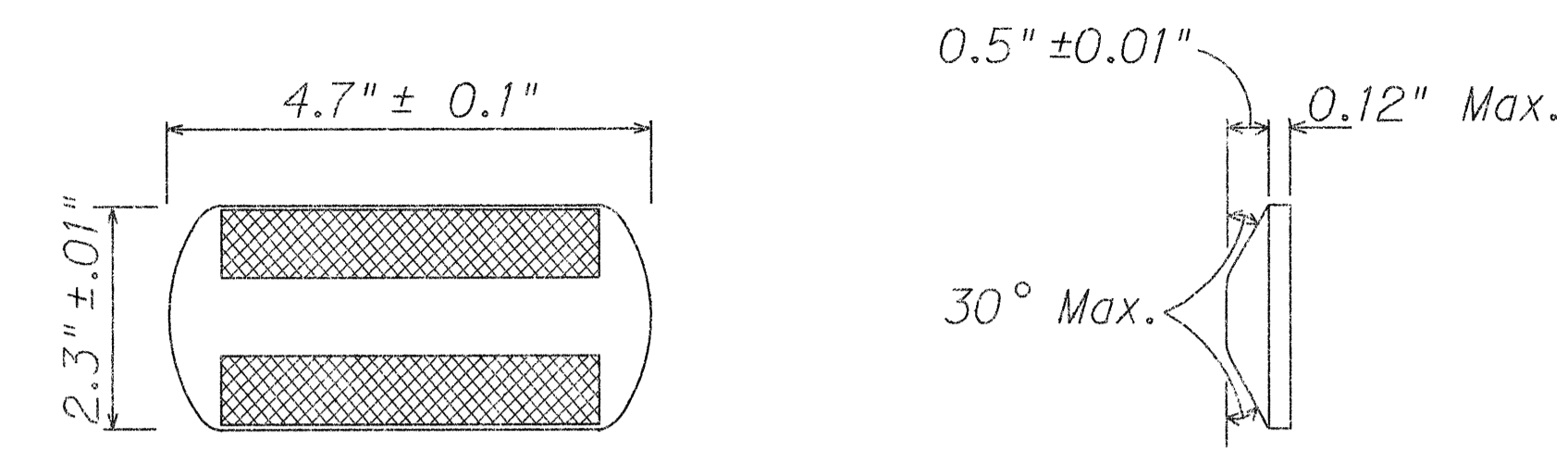
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-01-92	1991	44	55

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)

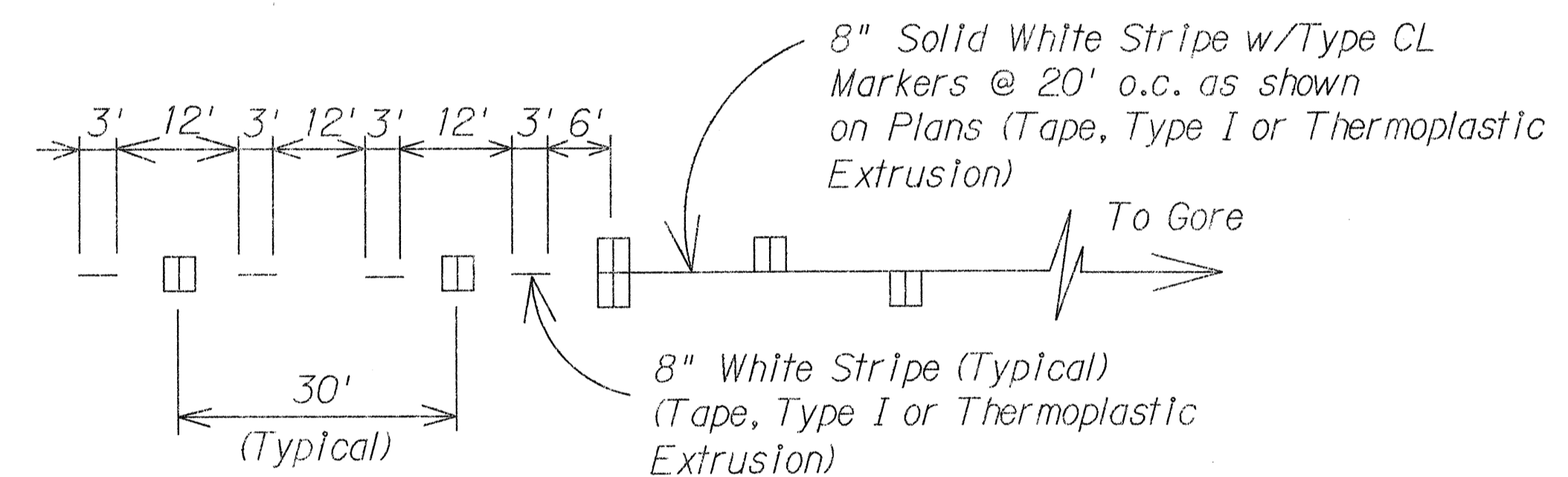
NOTES

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 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.

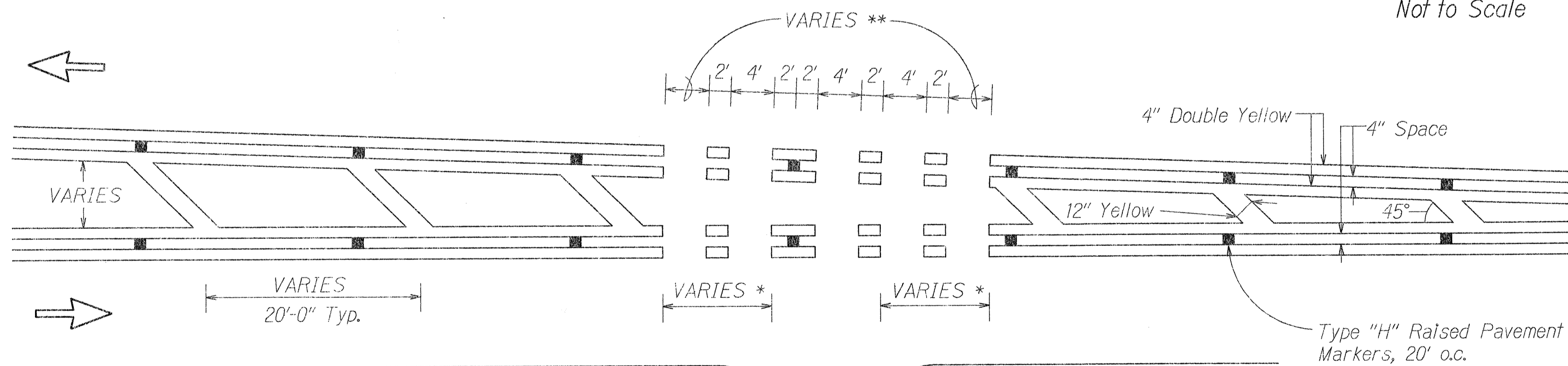


TYPE CL
Red-Clear Reflective Marker
or
TYPE DL
Two-Way Yellow Reflective Marker
or
TYPE HL
One-Way Yellow Reflective Marker

RAISED PAVEMENT MARKER DETAILS
Not to Scale



LANE DROP MARKING
Not to Scale



* 8' Minimum, 12' Maximum
** 2' Minimum, 5' Maximum

- NOTE:**
1. Striping shall border each raised pavement marker.
 2. Dashed striping shall be laid out using raised pavement markers as control points.

TRANSVERSE MEDIAN OPENING DETAIL
Not To Scale

STRIPES: CHECKED BY: DATE: _____
 DRAWN BY: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 IN: _____

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
PAVEMENT MARKING
LEGEND, DETAILS, & NOTES
 HALEAKALA HIGHWAY, PUKALANI SEC. - PH. II
 HAMAKUA DITCH TO KULA JCT.
 Project No. 37C-01-92
 Scale: As Shown Date: October 1991
 SHEET No. 44 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-01-92	1992	00 45	66

Sta. 10+60± Rt.
Remove Exist. Sign
W9-1(L)-B # Posts

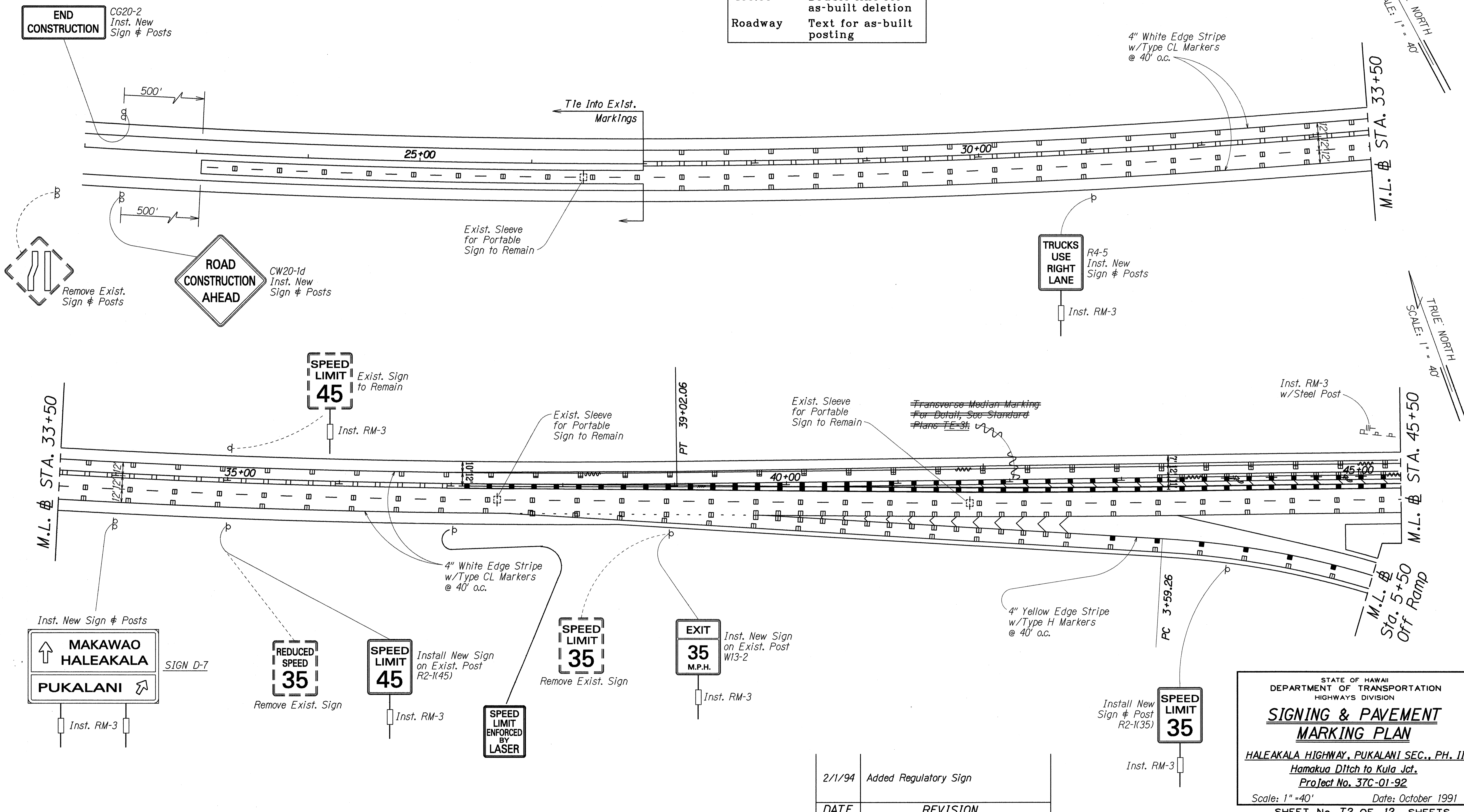
Sta. 15+20± Rt.
Remove Exist. Sign
W9-2(R)-A # Posts

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     |
| DESIGNED BY       |          |
| CHECKED BY        |          |
| QUANTITIES BY     |          |
| DATE              | 10/91    |
| NOTE BOOK         |          |
| DESIGNED BY       | 05/08/91 |
| CHECKED BY        |          |
| DATE              |          |
| QUANTITIES BY     |          |
| DATE              |          |

| DATE   | REVISION              |
|--------|-----------------------|
| 2/1/94 | Added Regulatory Sign |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SIGNING & PAVEMENT MARKING PLAN**

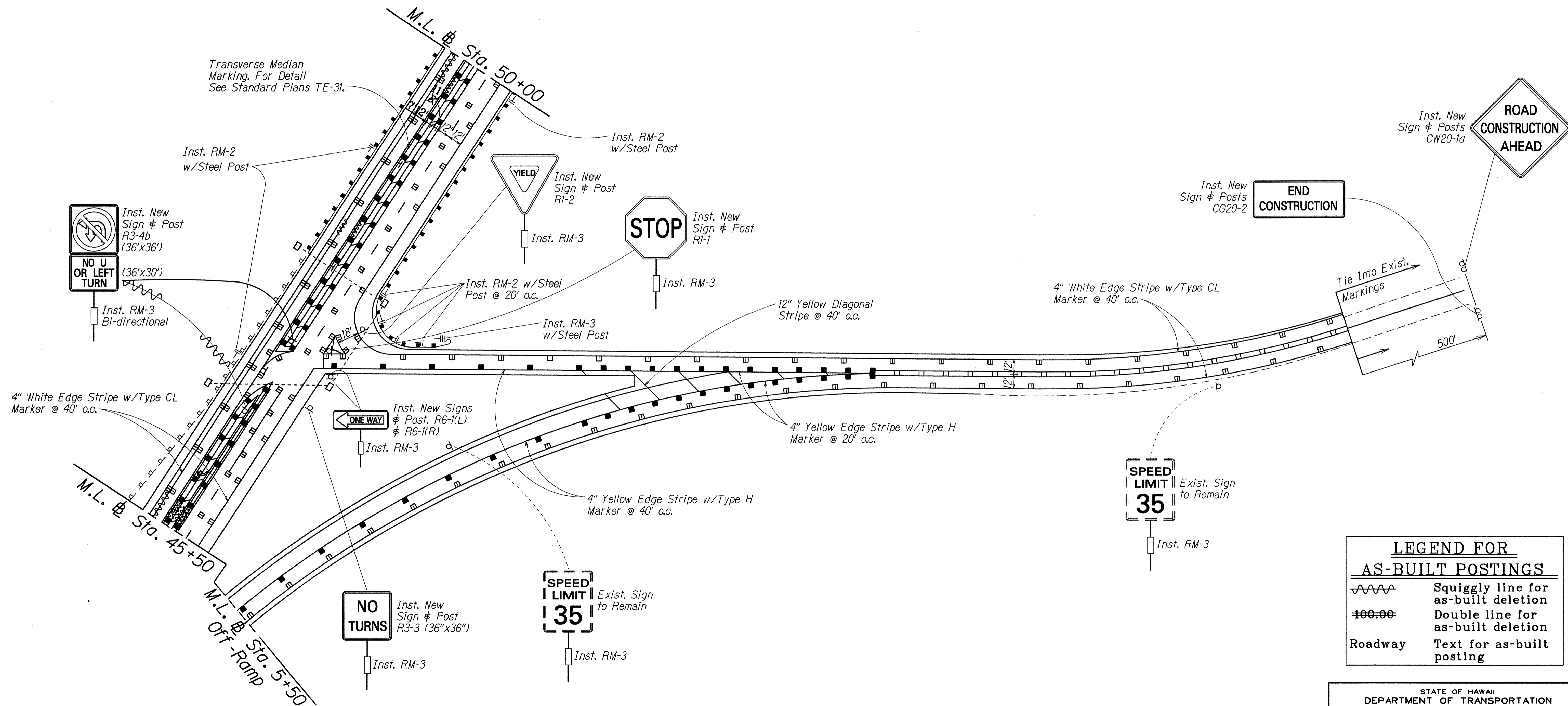
HALEAKALA HIGHWAY, PUKALANI SEC., PH. II  
Hamakua Ditch to Kula Jct.  
Project No. 37C-01-92

Scale: 1" = 40'      Date: October 1991  
SHEET No. T2 OF 12 SHEETS

AS-BUILT C.O. 45

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 37C-01-92 | 1992        | 46        | 66           |

TRUE NORTH  
SCALE: 1" = 40'



**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

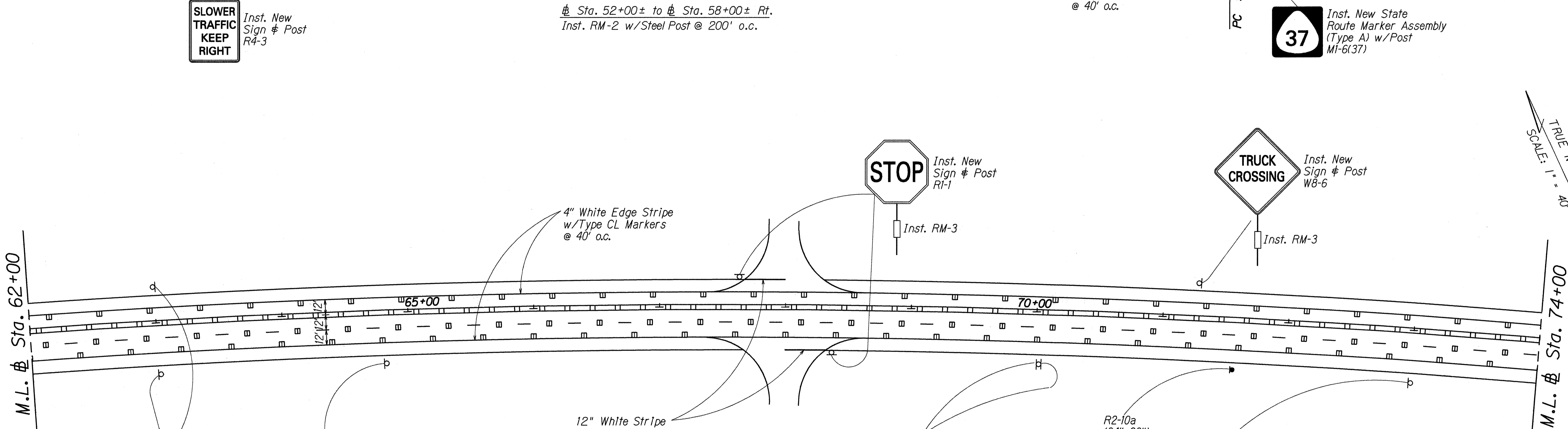
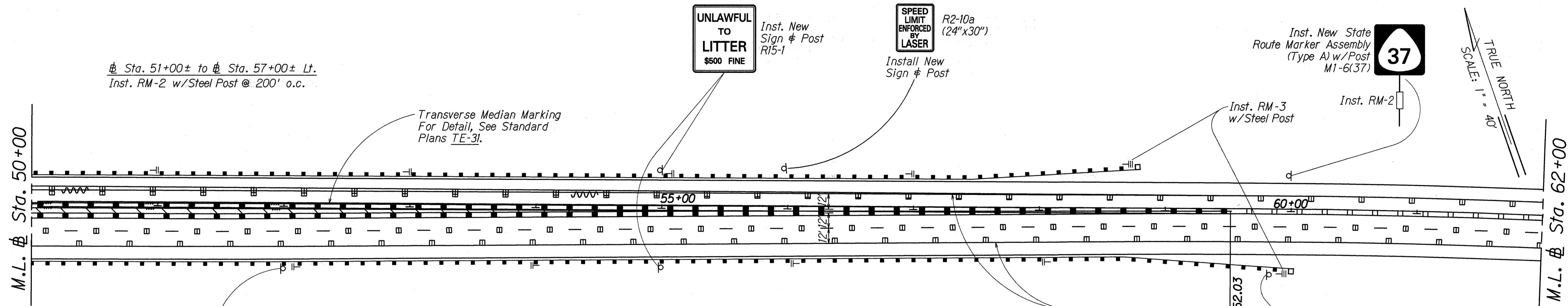
**SIGNING & PAVEMENT MARKING PLAN**

HALEAKALA HIGHWAY, PUKALANI SEC., PH. II  
Hamakua Ditch to Kula Jct.  
Project No. 37C-01-92

Scale: 1" = 40' Date: October 1991  
SHEET No. 46 OF 12 SHEETS

SURVEY PLOTTED BY: DATE: 10/28  
DESIGNED BY: M. HANDELIS  
CHECKED BY: G. T. LARSEN  
NOTE BOOK: 301016  
QUANTITIES BY: 3/21/92  
CHECKED BY: 3/21/92

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 37C-01-92 | 1992        | CO 47     | 66           |



**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               |
|--------|------------------------|
| 2/1/94 | Added Regulatory Signs |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SIGNING & PAVEMENT MARKING PLAN**

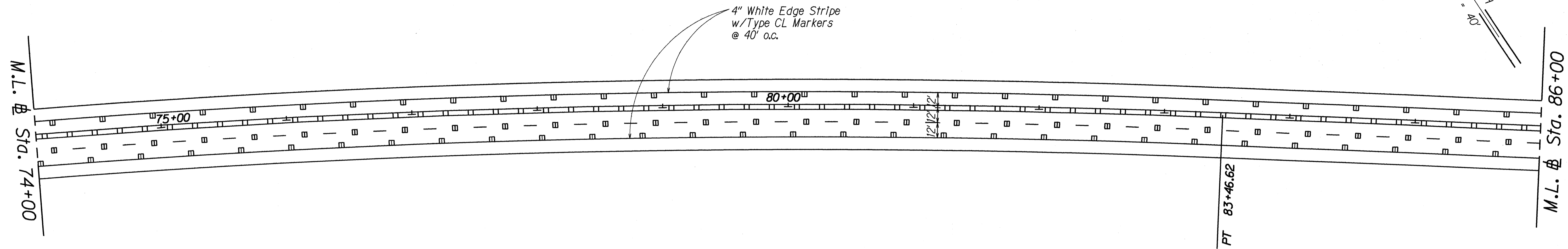
HALEAKALA HIGHWAY, PUKALANI SEC., PH. II  
Hamakua Ditch to Kula Jct.  
Project No. 37C-01-92

Scale: 1" = 40' Date: October 1991  
SHEET No. T4 OF 12 SHEETS

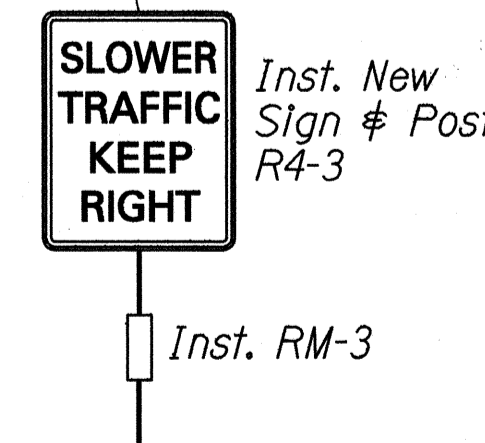
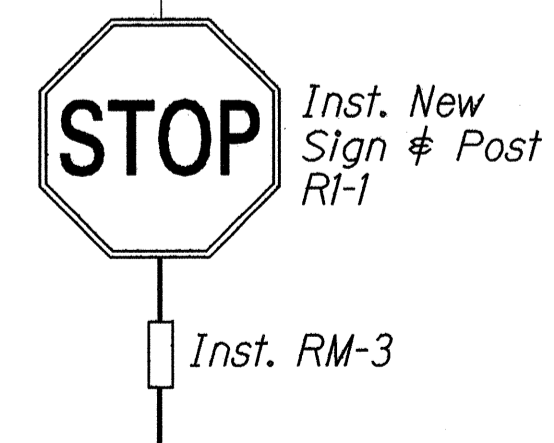
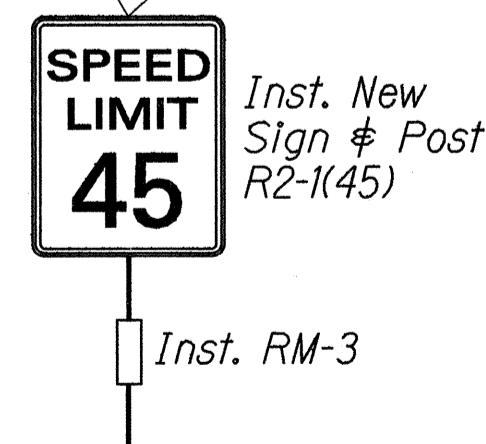
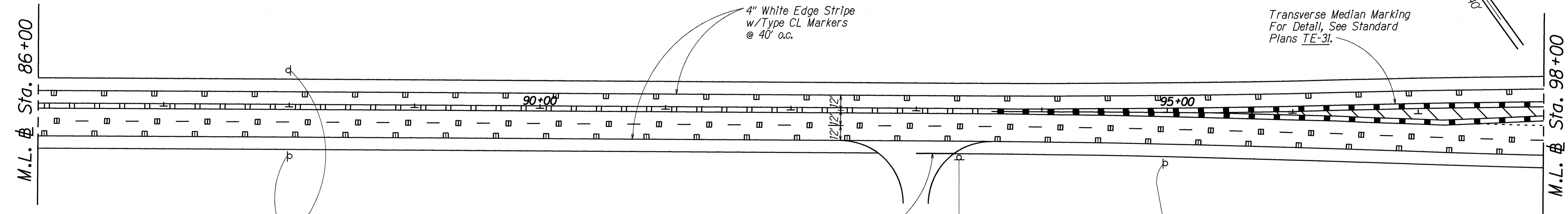
|             |                 |
|-------------|-----------------|
| DATE        | 10/91           |
| DESIGNED BY | GEORGE I. ENOKA |
| CHECKED BY  | 2/21/94         |

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 37C-01-92 | 1992        | 48        | 66           |

TRUE NORTH  
SCALE: 1" = 40'



TRUE NORTH  
SCALE: 1" = 40'



|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| DESIGNED BY       |      |
| QUANTITIES BY     |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     |      |
| NOTE BOOK         |      |
| N.                |      |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

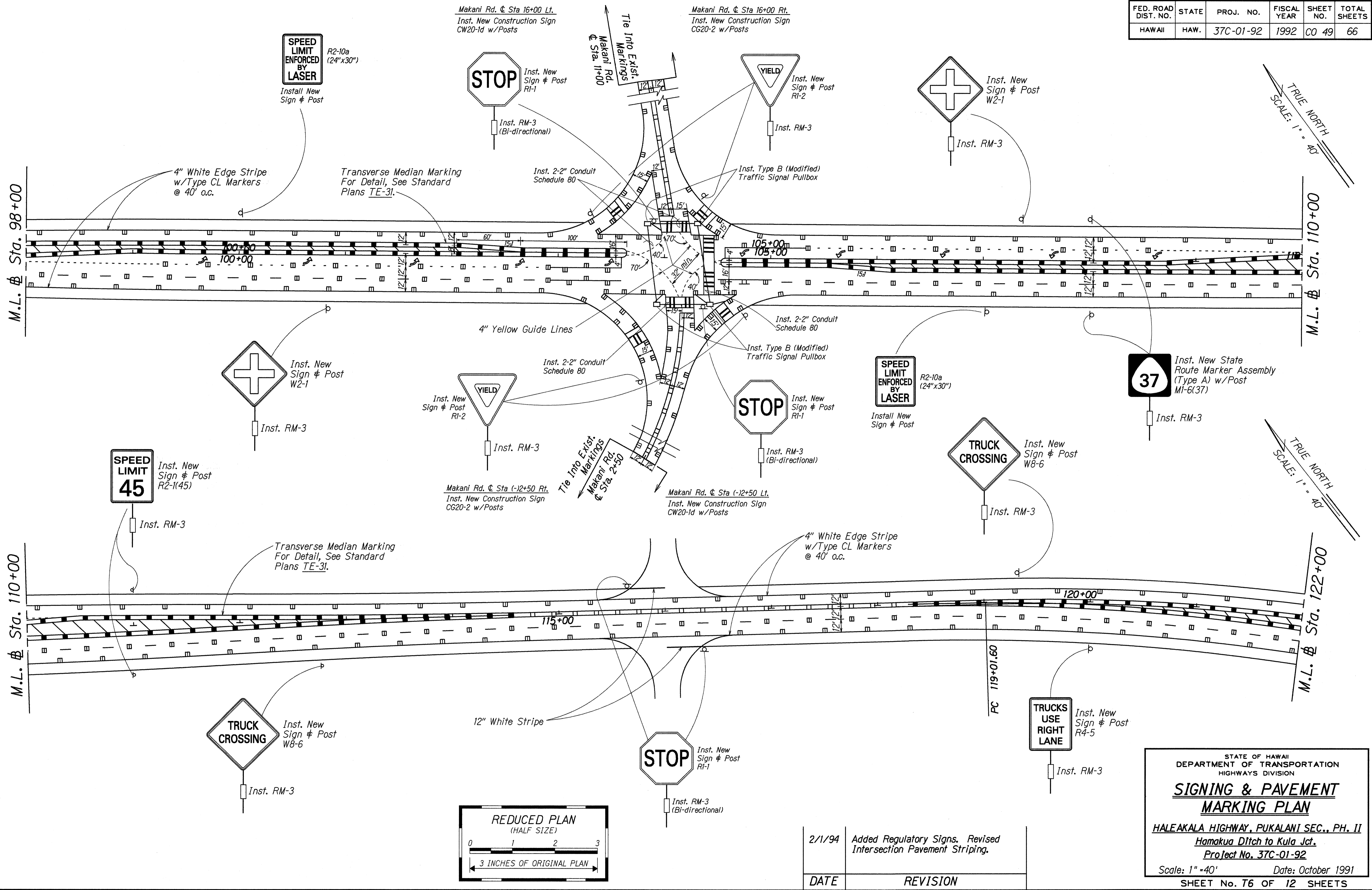
**SIGNING & PAVEMENT MARKING PLAN**

HALEAKALA HIGHWAY, PUKALANI SEC., PH. II  
Hamakua Ditch to Kula Jct.  
Project No. 37C-01-92

Scale: 1" = 40' Date: October 1991

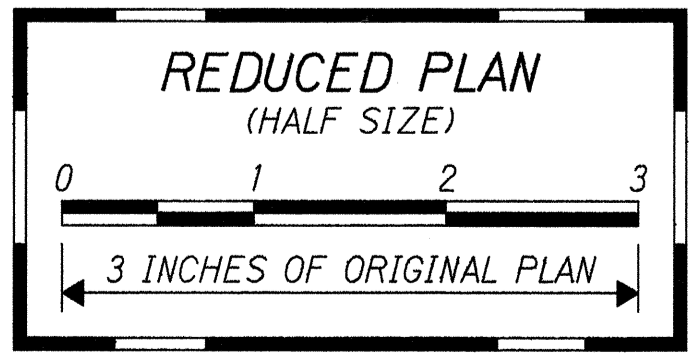
SHEET No. 75 OF 12 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 37C-01-92 | 1992        | 00 49     | 66           |



|                   |             |
|-------------------|-------------|
| DATE              | 10/91       |
| SURVEY PLOTTED BY | M. HONOLULU |
| DRAWN BY          | M. HONOLULU |
| DESIGNED BY       | M. HONOLULU |
| CHECKED BY        | M. HONOLULU |
| QUANTITIES BY     | M. HONOLULU |
| ORIGINAL PLAN     |             |
| NOTE BOOK         |             |
| DATE              |             |
| CHECKED BY        |             |

C.O. E. Isobe, 2/1/94



| DATE   | REVISION                                                        |
|--------|-----------------------------------------------------------------|
| 2/1/94 | Added Regulatory Signs. Revised Intersection Pavement Striping. |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

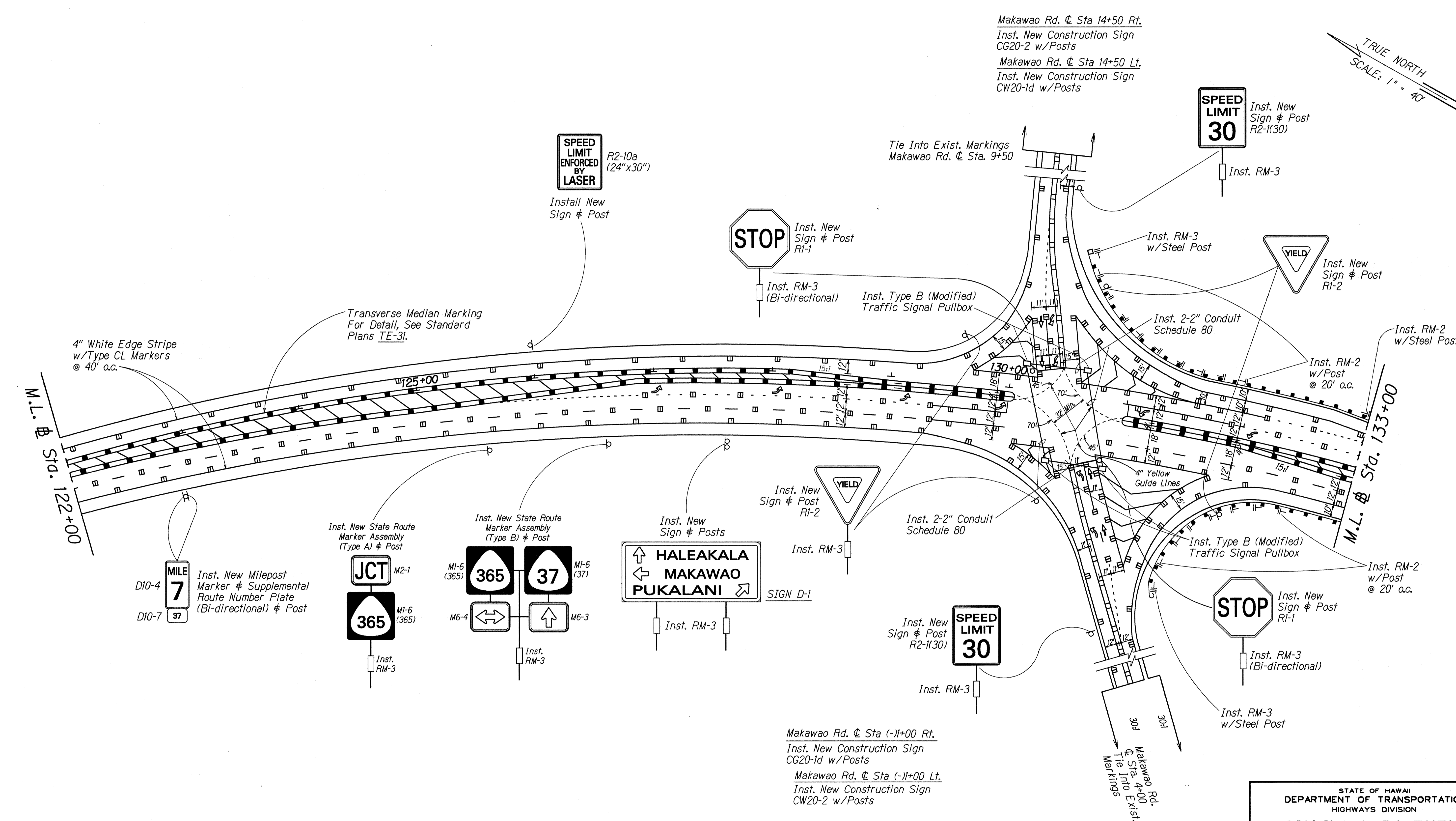
**SIGNING & PAVEMENT MARKING PLAN**

HALEAKALA HIGHWAY, PUKALANI SEC., PH. II  
Hamakua Ditch to Kula Jct.  
Project No. 37C-01-92

Scale: 1"=40' Date: October 1991  
SHEET No. T6 OF 12 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 37C-01-92 | 1992        | CO 50     | 66           |

TRUE NORTH  
SCALE: 1" = 40'



Makawao Rd. @ Sta 14+50 Rt.  
Inst. New Construction Sign  
CG20-2 w/Posts  
Makawao Rd. @ Sta 14+50 Lt.  
Inst. New Construction Sign  
CW20-1d w/Posts

SPEED LIMIT ENFORCED BY LASER  
R2-10a (24"x30")  
Install New Sign & Post

STOP  
Inst. New Sign & Post RI-1

SPEED LIMIT 30  
Inst. New Sign & Post R2-1(30)

YIELD  
Inst. New Sign & Post RI-2

4" White Edge Stripe w/Type CL Markers @ 40' o.c.

Transverse Median Marking For Detail, See Standard Plans TE-3f.

Tie Into Exist. Markings Makawao Rd. @ Sta. 9+50

Inst. RM-3 (Bi-directional)  
Inst. Type B (Modified) Traffic Signal Pullbox

Inst. RM-3 w/Steel Post

Inst. 2-2" Conduit Schedule 80

Inst. RM-2 w/Steel Post

Inst. RM-2 w/Post @ 20' o.c.

M.L. @ Sta. 122+00

MILE 7  
Inst. New Milepost Marker & Supplemental Route Number Plate (Bi-directional) & Post

JCT M2-1  
Inst. New State Route Marker Assembly (Type A) & Post

M6-4 M6-3  
Inst. New State Route Marker Assembly (Type B) & Post

HALEAKALA  
MAKAWAO  
PUKALANI  
Inst. New Sign & Posts SIGN D-1

YIELD  
Inst. New Sign & Post RI-2

Inst. 2-2" Conduit Schedule 80

Inst. Type B (Modified) Traffic Signal Pullbox

Inst. RM-2 w/Post @ 20' o.c.

SPEED LIMIT 30  
Inst. New Sign & Post R2-1(30)

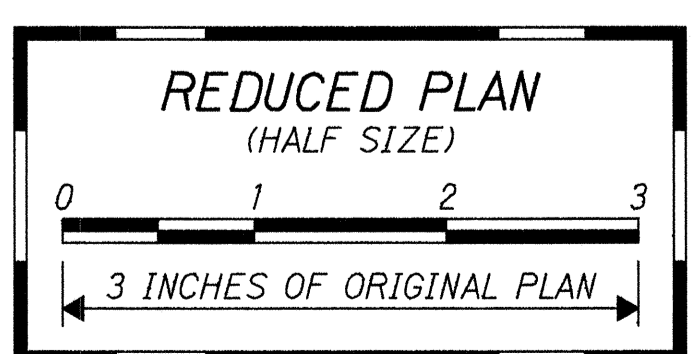
STOP  
Inst. New Sign & Post RI-1

Inst. RM-3 (Bi-directional)

Inst. RM-3 w/Steel Post

Makawao Rd. @ Sta (-11)+00 Rt.  
Inst. New Construction Sign CG20-1d w/Posts  
Makawao Rd. @ Sta (-11)+00 Lt.  
Inst. New Construction Sign CW20-2 w/Posts

Makawao Rd. @ Sta. 4+00 Tie Into Exist. Markings



2/1/94 Added Regulatory Sign. Revised Intersection Pavement Striping.

DATE REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

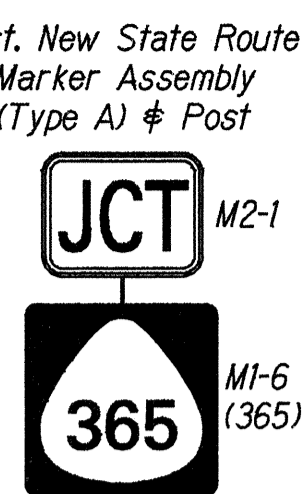
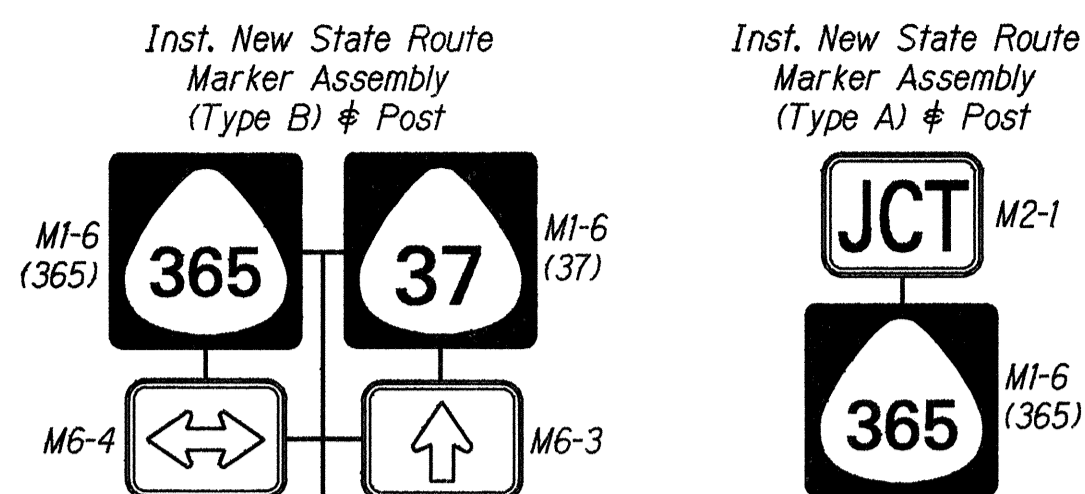
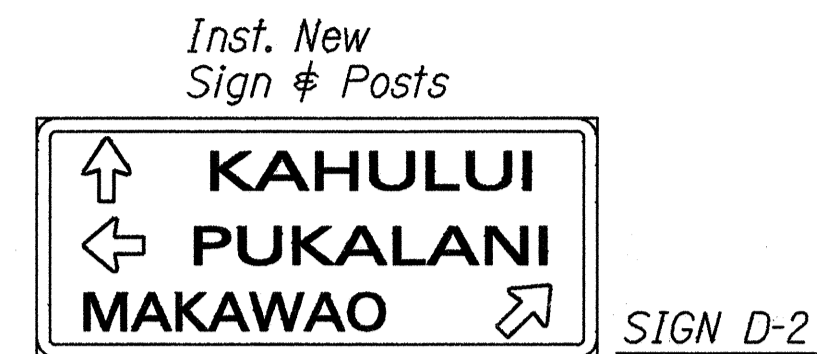
**SIGNING & PAVEMENT MARKING PLAN**

**HALEAKALA HIGHWAY, PUKALANI SEC., PH. II**  
Hamakua Ditch to Kula Jct.  
Project No. 37C-01-92

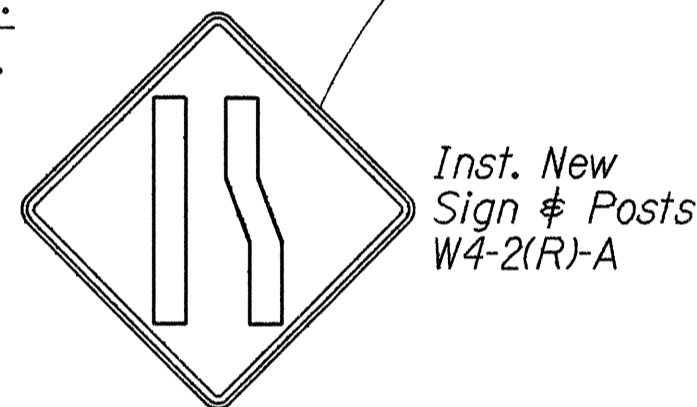
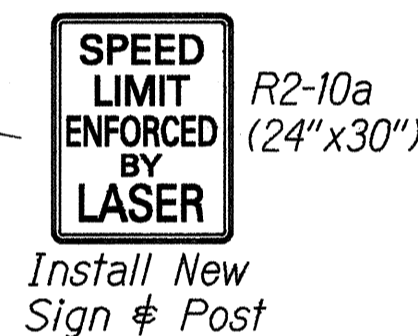
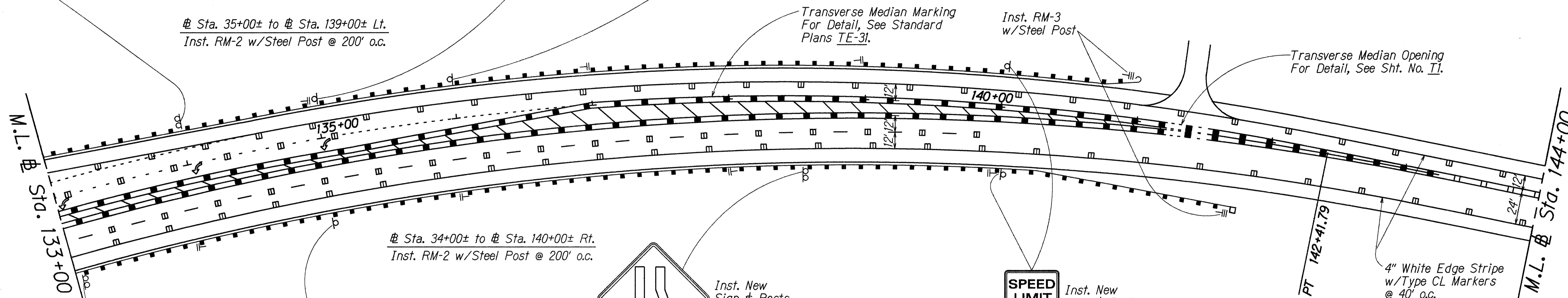
Scale: 1"=40' Date: October 1991  
SHEET No. 77 OF 12 SHEETS

DATE 10/29/91  
DRAWN BY M. TOMBISZ, EIT, 15039  
DESIGNED BY G. J. GIBSON, EIT, 12934  
CHECKED BY J. H. HARRISON, EIT, 12934  
SURVEY PLATTER BY G. J. GIBSON, EIT, 12934  
ORIGINAL PLAN No. 15039

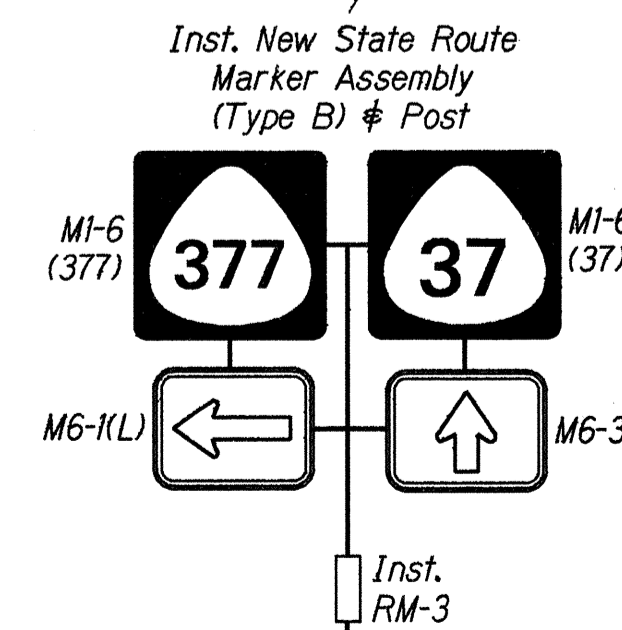
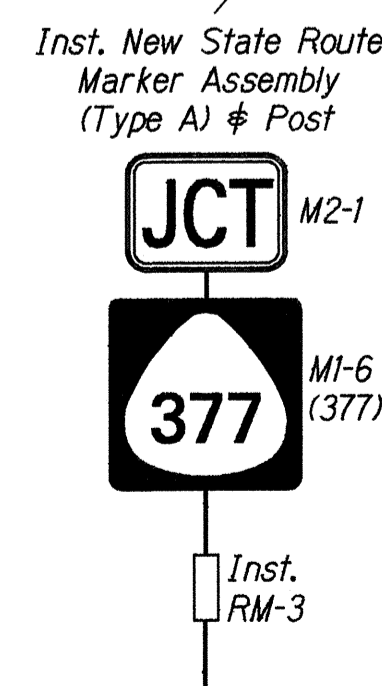
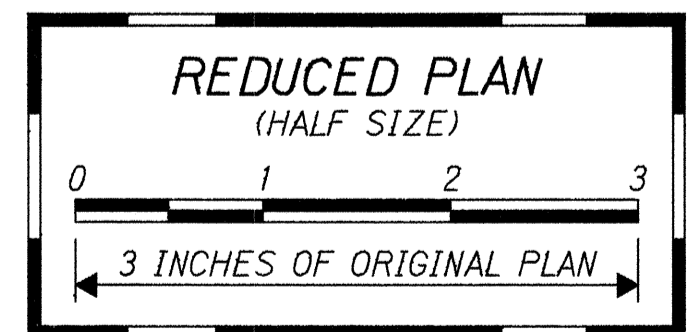
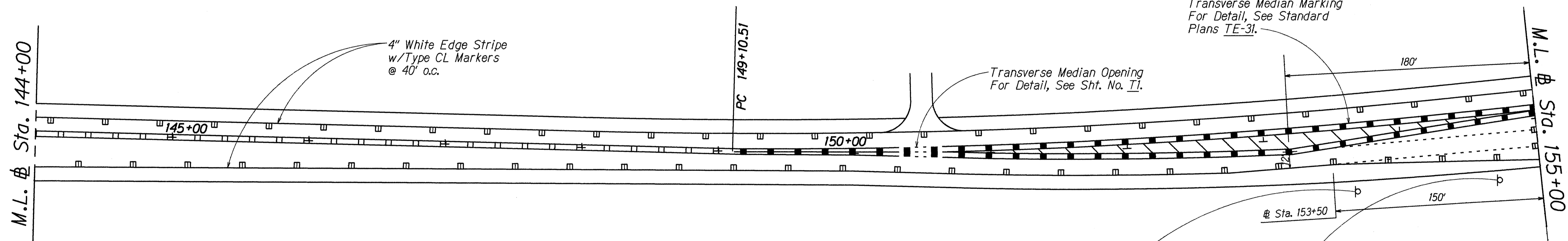
|                     |       |           |             |           |              |
|---------------------|-------|-----------|-------------|-----------|--------------|
| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| HAWAII              | HAW.  | 37C-01-92 | 1992        | CO 51     | 66           |



TRUE NORTH  
SCALE: 1" = 40'



TRUE NORTH  
SCALE: 1" = 40'



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SIGNING & PAVEMENT MARKING PLAN**

HALEAKALA HIGHWAY, PUKALANI SEC., PH. II  
Hamakua Ditch to Kula Jct.  
Project No. 37C-01-92

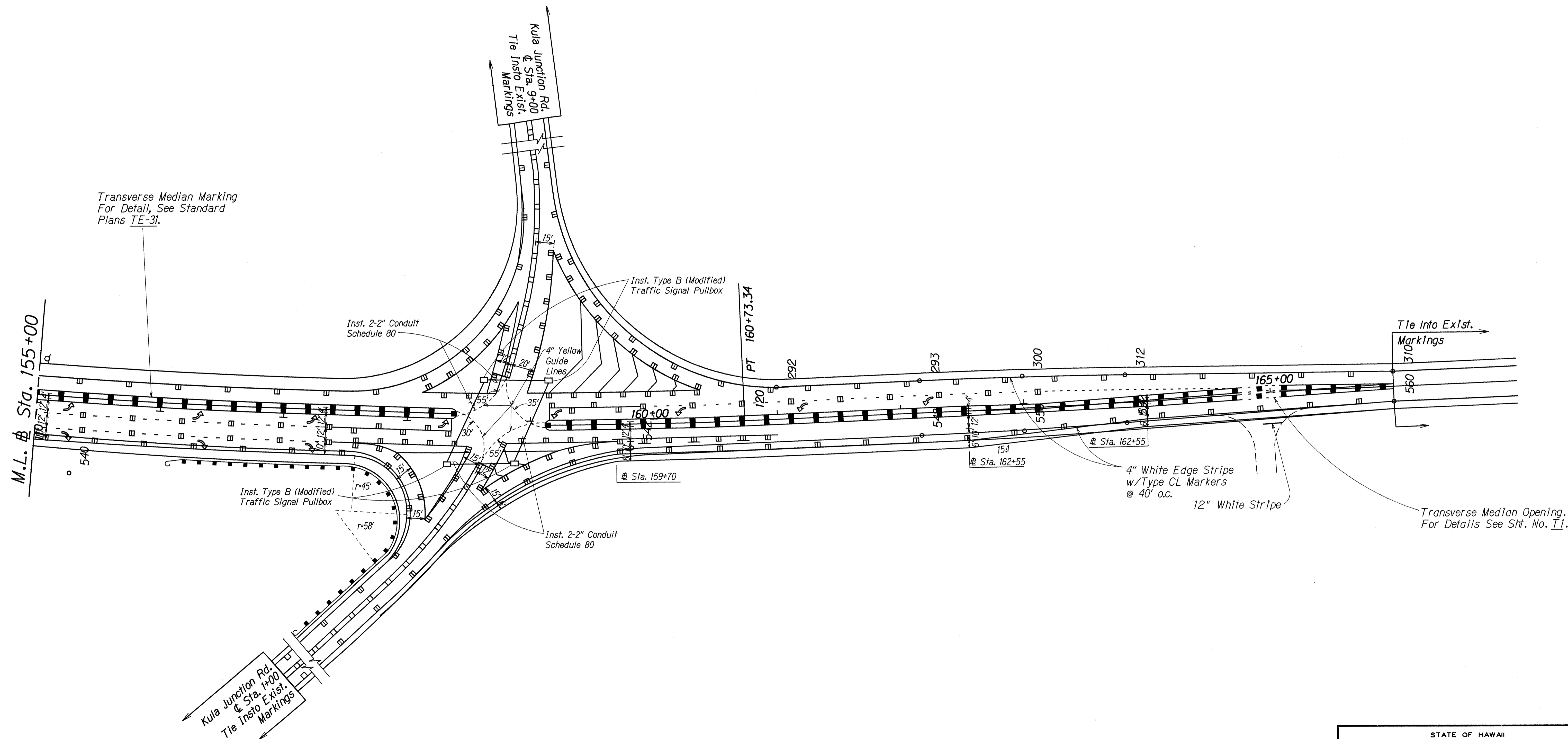
Scale: 1"=40' Date: October 1991  
SHEET No. T8 OF 12 SHEETS

|        |                                                   |
|--------|---------------------------------------------------|
| 2/1/94 | Added Regulatory Sign. Revised Pavement Striping. |
| DATE   | REVISION                                          |

ORIGINAL PLAN  
DATE 07/91  
SURVEY PLOTTED BY  
DRAWN BY  
DESIGNED BY  
CHECKED BY  
NOTE BOOK  
QUANTITIES BY  
C.O., E. Isaacs, 2/1/94

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 37C-01-92 | 1992        | CO 52     | 66           |

TRUE NORTH  
SCALE: 1" = 40'



|                   |                     |
|-------------------|---------------------|
| ORIGINAL PLAN     | DATE                |
| SURVEY PLOTTED BY | 10/29               |
| DRAWN BY          | M. Howells/E. Isobe |
| NOTED BY          | George Tanaka       |
| QUANTITIES BY     |                     |
| CHECKED BY        |                     |

C.O., E. Isobe, 2/1/94

| DATE   | REVISION                                                                                    |
|--------|---------------------------------------------------------------------------------------------|
| 2/1/94 | Added Regulatory Sign. Revised Intersection Pavement Striping. Construct Acceleration Lane. |

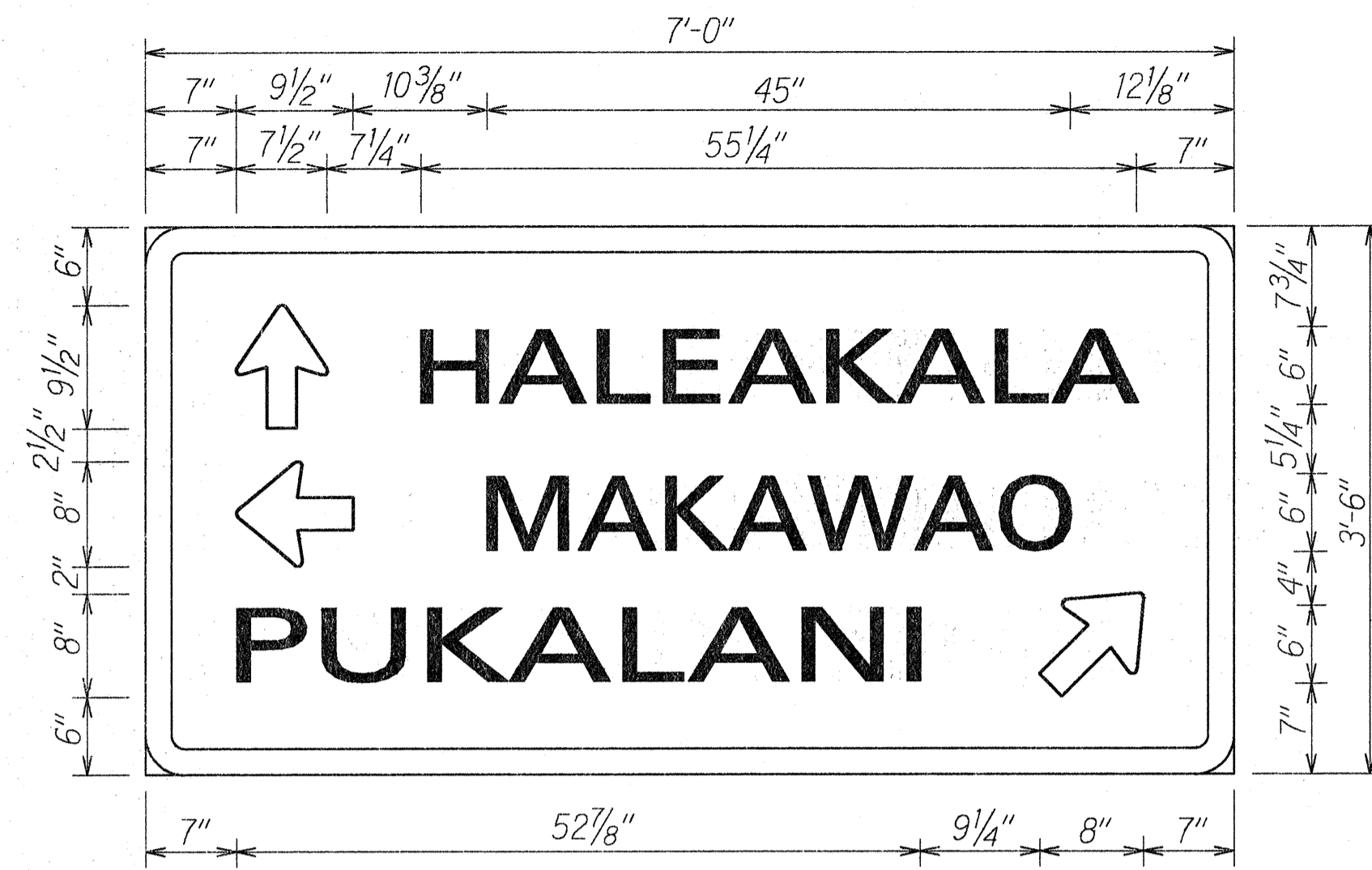
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SIGNING & PAVEMENT MARKING PLAN**

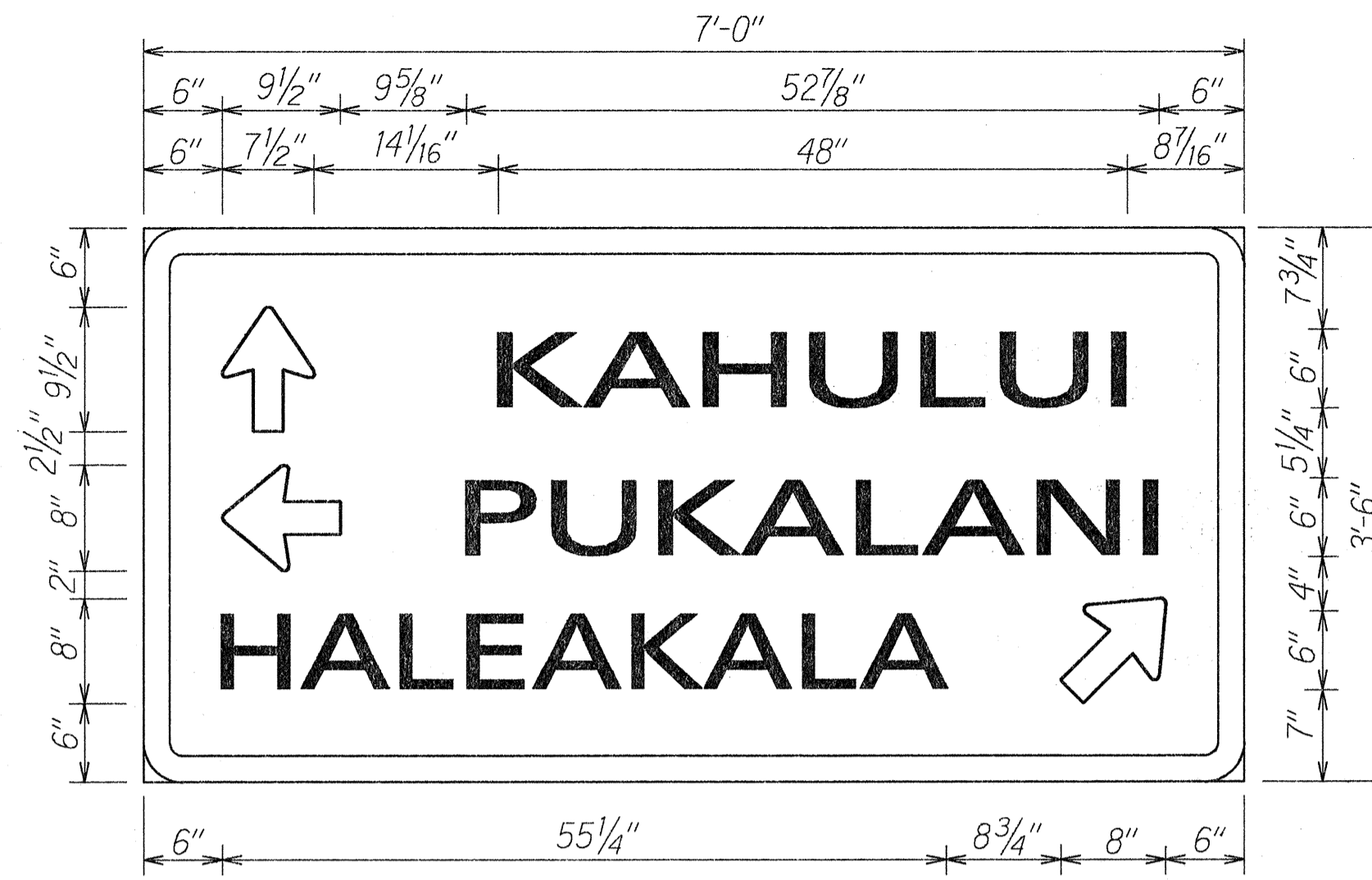
HALEAKALA HIGHWAY, PUKALANI SEC., PH. II  
Hamakua Ditch to Kula Jct.  
Project No. 37C-01-92

Scale: 1" = 40' Date: October 1991  
SHEET No. 79 OF 12 SHEETS

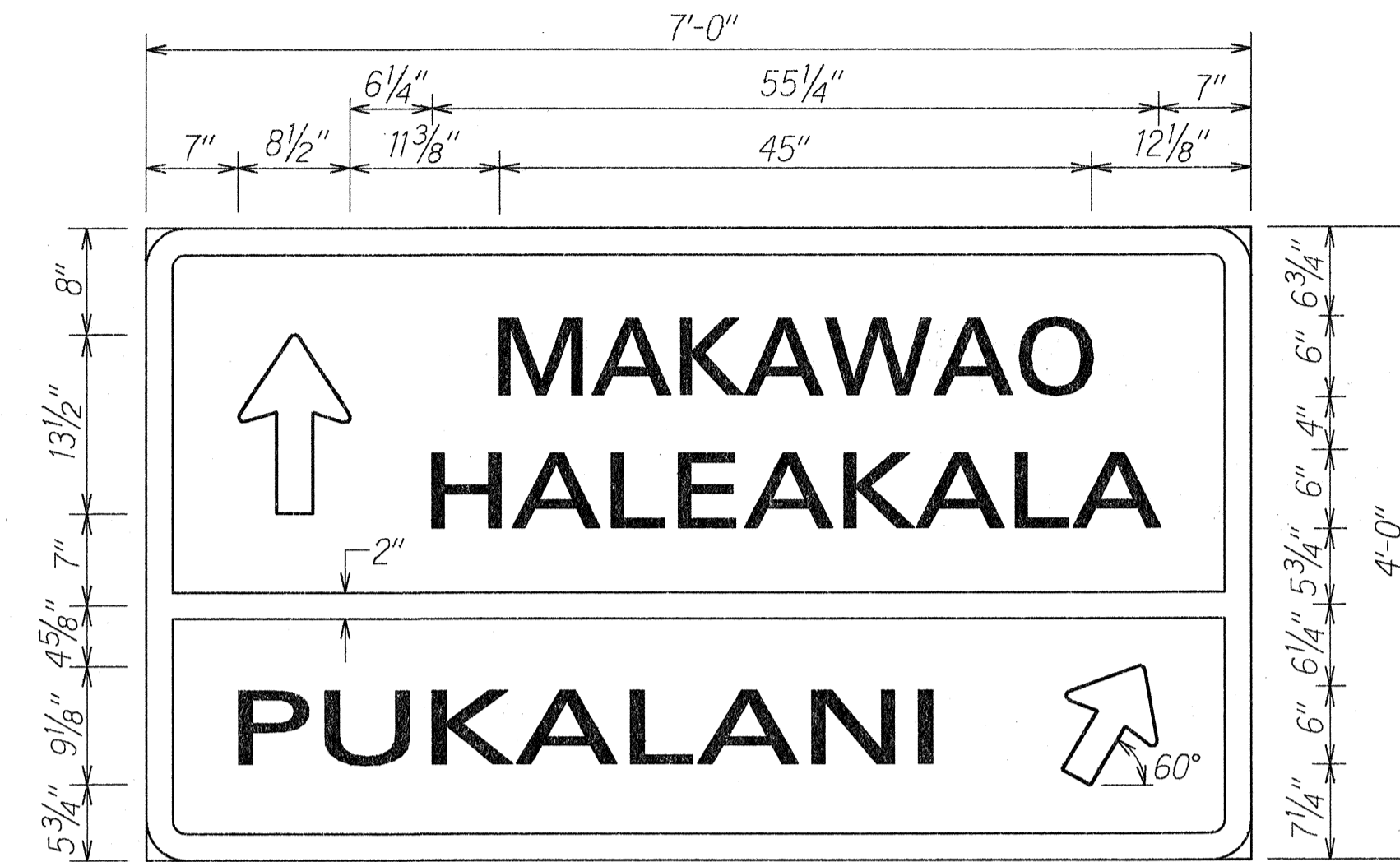
| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 37C-01-92 | 1991        | 53        | 66           |



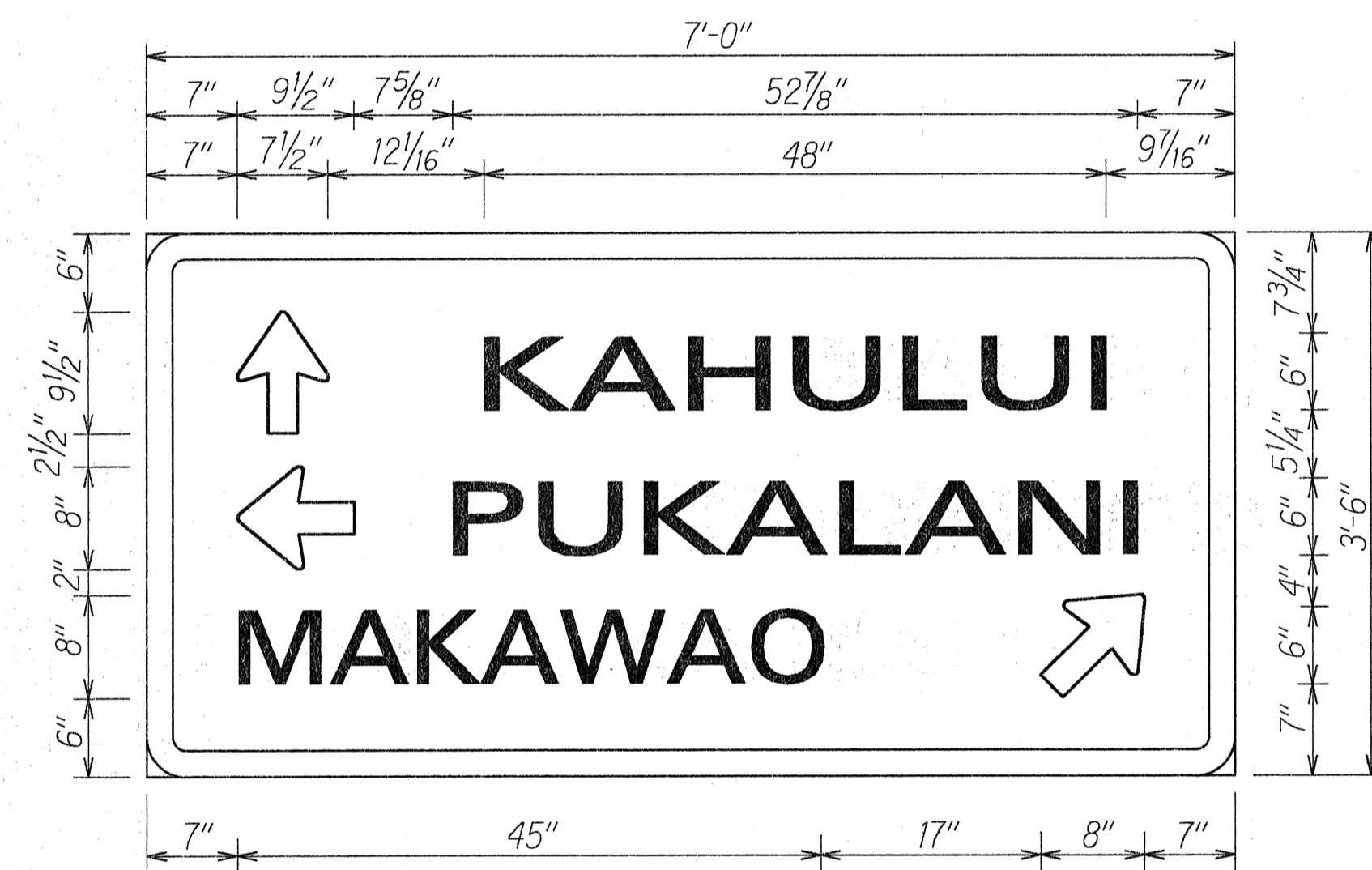
**SIGN D-1**  
Scale: 1"=1'-0"



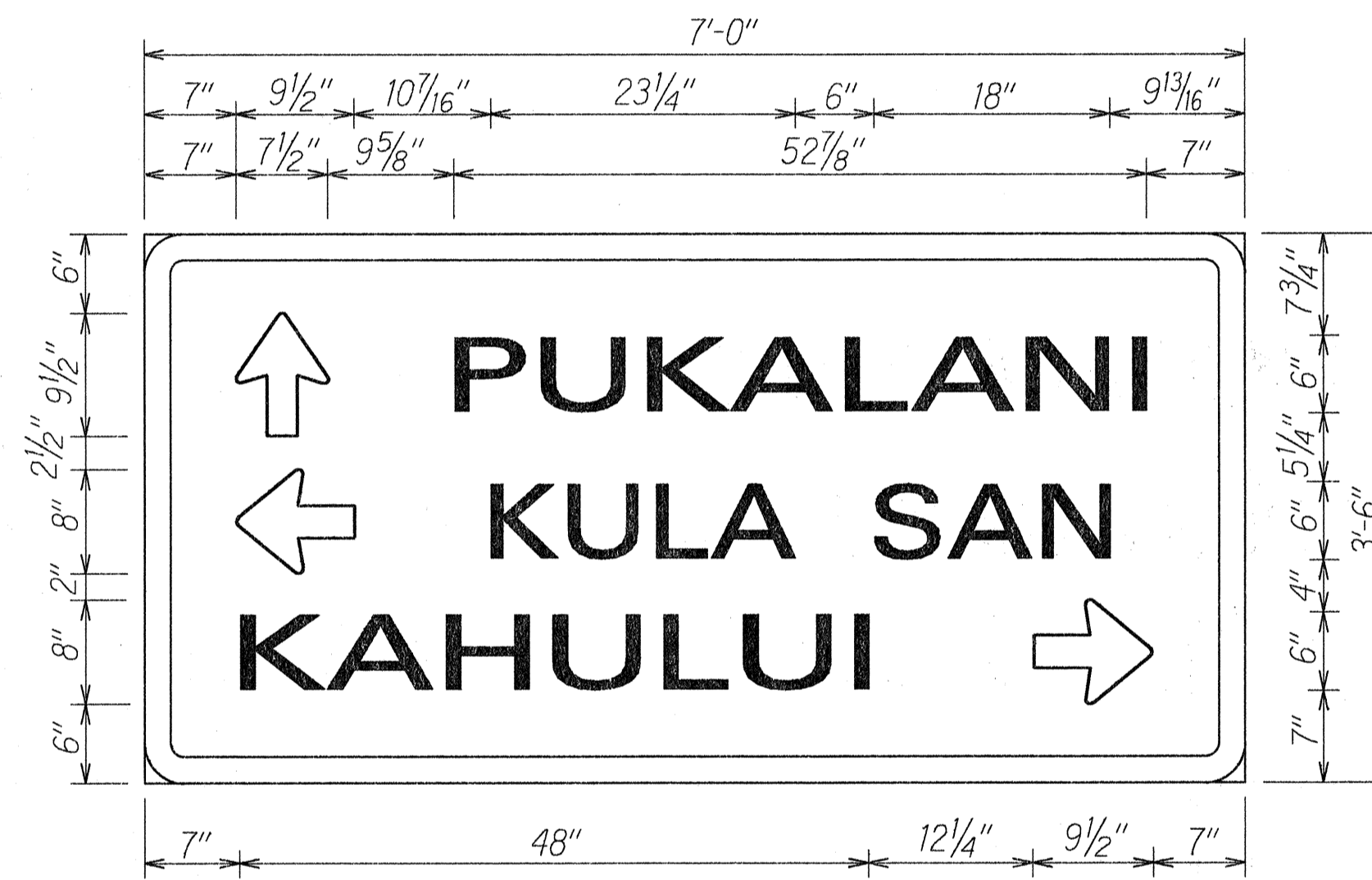
**SIGN D-4**  
Scale: 1"=1'-0"



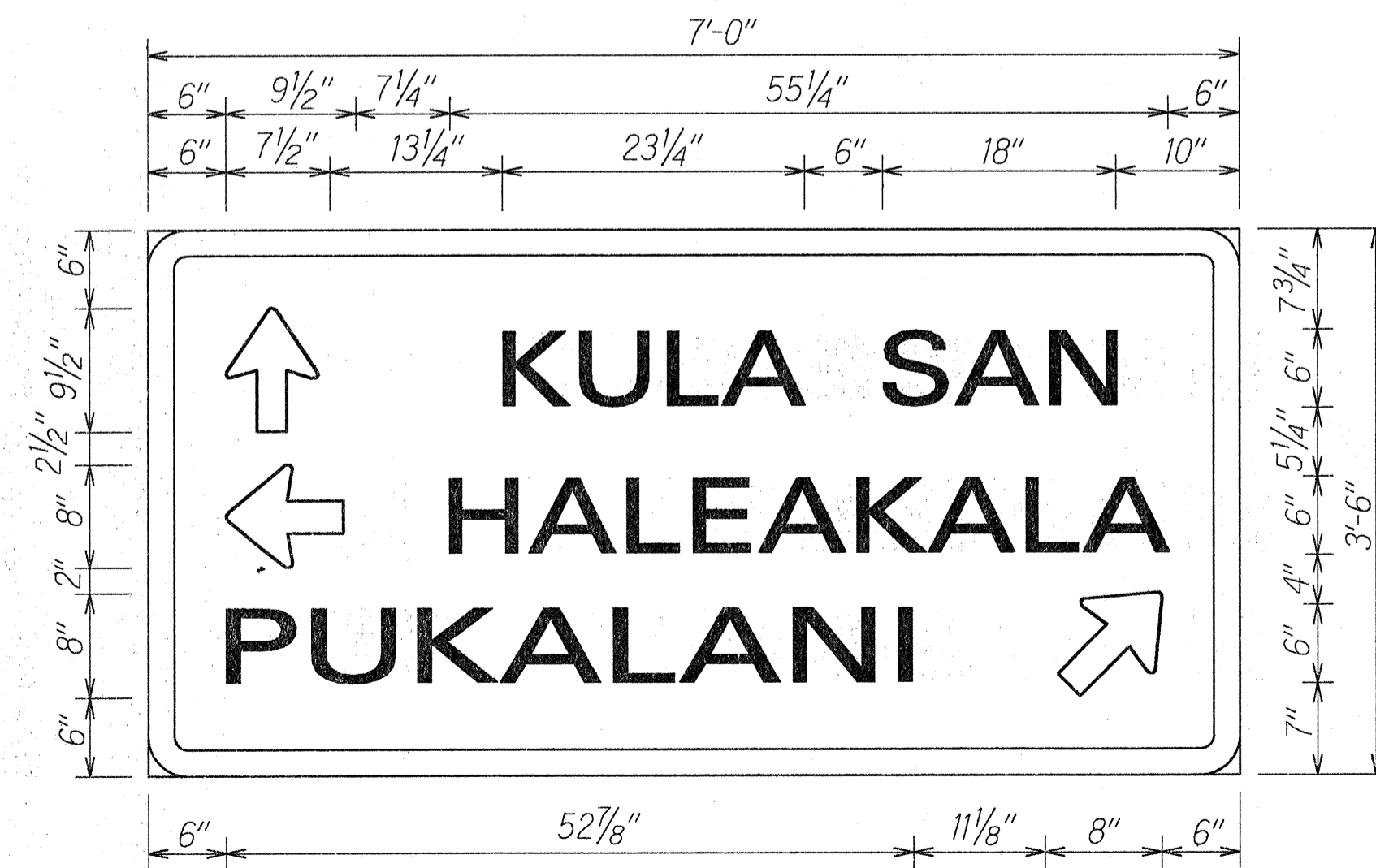
**SIGN D-7**  
Scale: 1"=1'-0"



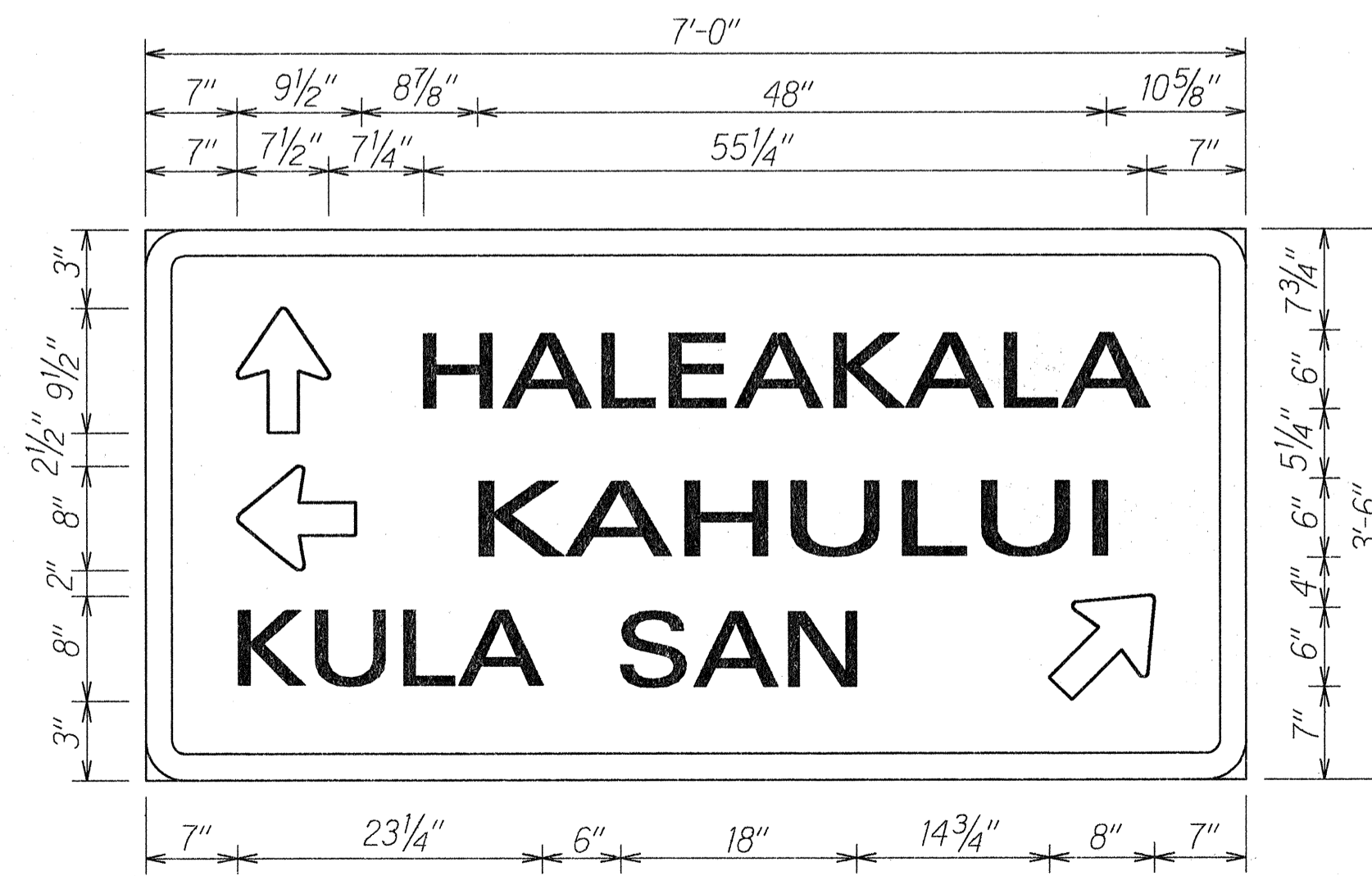
**SIGN D-2**  
Scale: 1"=1'-0"



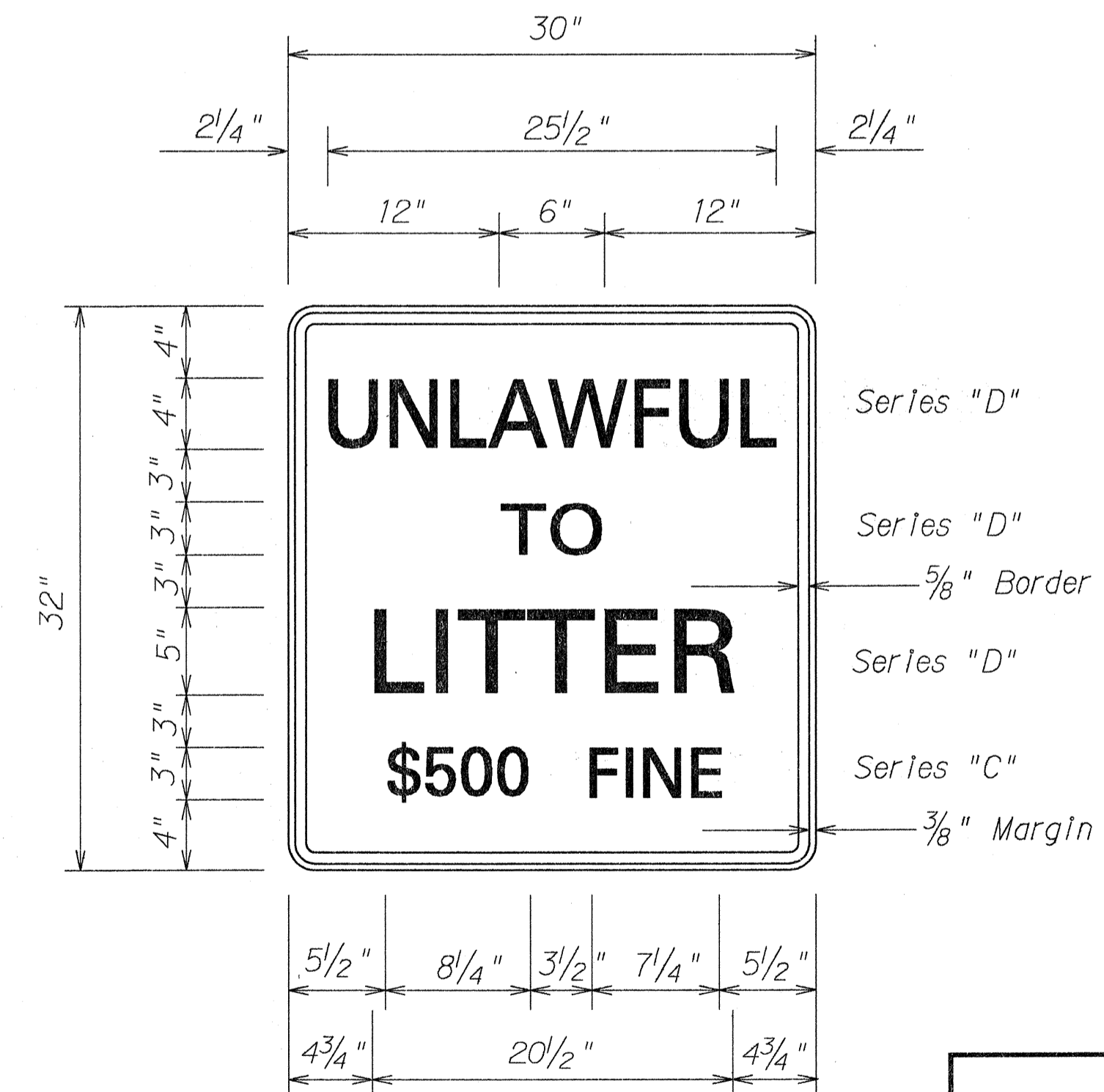
**SIGN D-5**  
Scale: 1"=1'-0"



**SIGN D-3**  
Scale: 1"=1'-0"



**SIGN D-6**  
Scale: 1"=1'-0"



**SIGN R15-1**  
Scale: 1 1/2"=1'-0"

ORIGINAL PLAN  
DATE  
DRAWN BY  
DESIGNED BY  
NOTE BOOK  
QUANTITIES BY  
CHECKED BY  
No.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**MISCELLANEOUS  
SIGN DETAILS**  
HALEAKALA HIGHWAY, PUKALANI SEC. -PH. II  
HAMAKUA DITCH TO KULA JCT.  
Project No. 37C-01-92  
Scale: As Shown Date: October 1991  
SHEET No. T10 OF 12 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 37C-01-92 | 1991        | 54        | 66           |

TRAFFIC SIGN SUMMARY

| SIGN NO.        | MESSAGE                       | QUANTITY           |          |                         |          |
|-----------------|-------------------------------|--------------------|----------|-------------------------|----------|
|                 |                               | 10 SQ. FT. OR LESS |          | GREATER THAN 10 SQ. FT. |          |
|                 |                               | W/POST             | W/O POST | W/POSTS                 | W/O POST |
| R1-1            | STOP                          | 13                 |          |                         |          |
| R1-2            | YIELD                         | 13                 |          |                         |          |
| R2-1(30)        | SPEED LIMIT 30                | 3                  |          |                         |          |
| R2-1(35)        | SPEED LIMIT 35                | 2                  |          |                         |          |
| R2-1(45)        | SPEED LIMIT 45                | 9                  | 1        |                         |          |
| R3-3 (36"x36")  | NO TURNS                      | 1                  |          |                         |          |
| R3-4b (36"x36") | NO U OR LEFT TURN             | 1                  | 1        |                         |          |
| R4-3            | SLOWER TRAFFIC KEEP RIGHT     | 2                  |          |                         |          |
| R4-5            | TRUCKS USE RIGHT LANE         | 3                  |          |                         |          |
| R6-1(R)         | ONE WAY                       | 1                  |          |                         |          |
| R6-1(L)         | ONE WAY                       |                    | 1        |                         |          |
| R15-1           | UNLAWFUL TO LITTER \$500 FINE | 2                  |          |                         |          |
| W2-1            | +                             | 2                  |          |                         |          |
| W4-2(R)-A       |                               |                    |          | 1                       |          |
| W8-6            | TRUCK CROSSING                | 4                  |          |                         |          |
| W9-2(L)-A       | LANE ENDS MERGE LEFT          |                    |          | 1                       |          |
| W13-2           | EXIT 35 MPH                   |                    | 1        |                         |          |
| TOTAL           |                               | 56                 | 4        | 2                       | 0        |

MILEPOST MARKER ASSEMBLY

| M.P. NO. | LOCATION                            | MESSAGE                     | QUANTITY |        |
|----------|-------------------------------------|-----------------------------|----------|--------|
|          |                                     |                             | W/O POST | W/POST |
| 6        | ⊕ Sta. 70+08 Rt.<br>Bi-Directional  | D10-4<br>6      D10-7<br>37 | 1        |        |
| 7        | ⊕ Sta. 122+88 Rt.<br>Bi-Directional | D10-4<br>7      D10-7<br>37 | 1        |        |
| TOTAL    |                                     |                             | 2        | 0      |

DESTINATION SIGN SUMMARY

| SIGN NO. | LOCATION                          | MESSAGE                           | SIZE        | NEW PANEL AREA (SQ. FT.) |         |
|----------|-----------------------------------|-----------------------------------|-------------|--------------------------|---------|
|          |                                   |                                   |             | W/O POST                 | W/POSTS |
| D-1      | ⊕ Sta. 127+60± Rt.                | ↑ HALEAKALA ← MAKAWAO PUKALANI ↗  | 7'-0"x3'-6" |                          | 24.5    |
| D-2      | ⊕ Sta. 134+00± Lt.                | ↑ KAHULUI ← PUKALANI MAKAWAO ↗    | 7'-0"x3'-6" |                          | 24.5    |
| D-3      | ⊕ Sta. 155+60± Rt.                | ↑ KULA SAN ← HALEAKALA PUKALANI ↗ | 7'-0"x3'-6" |                          | 24.5    |
| D-4      | ⊕ Sta. 162+70± Lt.                | ↑ KAHULUI ← PUKALANI HALEAKALA ↗  | 7'-0"x3'-6" |                          | 24.5    |
| D-5      | Kula Jct. Rd.<br>⊕ Sta. 8+20± Lt. | ↑ PUKALANI ← KULA SAN KAHULUI ⇔   | 7'-0"x3'-6" |                          | 24.5    |
| D-6      | Kula Jct. Rd.<br>⊕ Sta. 0+40± Rt. | ↑ HALEAKALA ← KAHULUI KULA SAN ↗  | 7'-0"x3'-6" |                          | 24.5    |
| D-7      | ⊕ Sta. 34+00± Rt.                 | ↑ MAKAWAO HALEAKALA PUKALANI ↗    | 7'-0"x4'-0" |                          | 28.0    |
| TOTAL    |                                   |                                   |             | 0                        | 175.0   |

REFLECTOR MARKER SUMMARY

| TYPE                  | QUANTITY |       |              |       |
|-----------------------|----------|-------|--------------|-------|
|                       | W/O POST |       | W/STEEL POST |       |
|                       | YELLOW   | WHITE | YELLOW       | WHITE |
| RM-2                  |          |       |              | 45    |
| RM-3 (Bi-Directional) | 7        |       |              |       |
| RM-3                  | 65       | 0     | 10           | 0     |

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

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
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**MISCELLANEOUS**  
**TRAFFIC SUMMARIES**  
 HALEAKALA HIGHWAY, PUKALANI SEC. -PH.II  
 HAMAKUA DITCH TO KULA JCT.  
 Project No. 37C-01-92  
 Date: October 1991

ROUTE MARKER SUMMARY

| LOCATION                            | SIGN NO. AND MESSAGE                                | TYPE A ASSEMBLY |          | TYPE B ASSEMBLY |          |
|-------------------------------------|-----------------------------------------------------|-----------------|----------|-----------------|----------|
|                                     |                                                     | W/POST          | W/O POST | W/POST          | W/O POST |
| Sta. 60+00± Rt. & Lt.               | M1-6(37)<br>37                                      | 2               |          |                 |          |
| Sta. 108+00± Rt. & Lt.              | M1-6(37)<br>37                                      | 2               |          |                 |          |
| Sta. 125+60± Rt.                    | M2-1 M1-6(365)<br>JCT 365                           | 1               |          |                 |          |
| Sta. 126+60± Rt.                    | M1-6(365) M6-4<br>365 ↔<br>M1-6(37) M6-3<br>37 ↑    |                 |          | 1               |          |
| Sta. 135+00± Lt.                    | M1-6(365) M6-4<br>365 ↔<br>M1-6(37) M6-3<br>37 ↑    |                 |          | 1               |          |
| Sta. 136+00± Lt.                    | M2-1 M1-6(365)<br>JCT 365                           | 1               |          |                 |          |
| Sta. 153+60± Rt.                    | M2-1 M1-6(377)<br>JCT 377                           | 1               |          |                 |          |
| Sta. 154+60± Rt.                    | M1-6(377) M6-1(L)<br>377 ←<br>M1-6(37) M6-3<br>37 ↑ |                 |          | 1               |          |
| Sta. 163+70± Lt.                    | M1-6(37) M6-3<br>37 ↑<br>M1-6(377) M6-2(R)<br>377 ↗ |                 |          | 1               |          |
| Sta. 164+70± Lt.                    | M2-1 M1-6(377)<br>JCT 377                           | 1               |          |                 |          |
| Kula Junction Rd.<br>Sta. 2+40± Rt. | M1-6(377) M6-3<br>377 ↑<br>M1-6(37) M6-4<br>37 ↔    |                 |          | 1               |          |
|                                     | TOTAL                                               | 8               | 0        | 5               | 0        |

CONSTRUCTION SIGN SUMMARY

| SIGN NO. | LOCATION                         | MESSAGE                 | W/POST | W/O POST |
|----------|----------------------------------|-------------------------|--------|----------|
| CW20-1d  | Sta. 18+10 Rt.                   | ROAD CONSTRUCTION AHEAD | 1      |          |
| CG20-2   | Sta. 18+10 Lt.                   | END CONSTRUCTION        | 1      |          |
| CG20-2   | Sta. 13+87 Rt. On-Ramp           | END CONSTRUCTION        | 1      |          |
| CW20-1d  | Sta. 13+87 Lt. On-Ramp           | ROAD CONSTRUCTION AHEAD | 1      |          |
| CW20-1d  | Makani Rd. Sta. -2+50 Rt.        | ROAD CONSTRUCTION AHEAD | 1      |          |
| CG20-2   | Makani Rd. Sta. -2+50 Lt.        | END CONSTRUCTION        | 1      |          |
| CG20-2   | Makani Rd. Sta. 16+00 Rt.        | END CONSTRUCTION        | 1      |          |
| CW20-1d  | Makani Rd. Sta. 16+00 Lt.        | ROAD CONSTRUCTION AHEAD | 1      |          |
| CW20-1d  | Makawao Rd. Sta. -1+80 Rt.       | ROAD CONSTRUCTION AHEAD | 1      |          |
| CG20-2   | Makawao Rd. Sta. -1+80 Lt.       | END CONSTRUCTION        | 1      |          |
| CG20-2   | Makawao Rd. Sta. 14+50 Rt.       | END CONSTRUCTION        | 1      |          |
| CW20-1d  | Makawao Rd. Sta. 14+50 Lt.       | ROAD CONSTRUCTION AHEAD | 1      |          |
| CW20-1d  | Kula Junction Rd. Sta. -4+00 Rt. | ROAD CONSTRUCTION AHEAD | 1      |          |
| CG20-2   | Kula Junction Rd. Sta. -4+00 Lt. | END CONSTRUCTION        | 1      |          |
| CG20-2   | Kula Junction Rd. Sta. 14+00 Rt. | END CONSTRUCTION        | 1      |          |
| CW20-1d  | Kula Junction Rd. Sta. 14+00 Lt. | ROAD CONSTRUCTION AHEAD | 1      |          |
| CG20-2   | Sta. 171+00 Rt.                  | END CONSTRUCTION        | 1      |          |
| CW20-1d  | Sta. 171+00 Lt.                  | ROAD CONSTRUCTION AHEAD | 1      |          |
|          | TOTAL                            |                         | 18     | 0        |

PAVEMENT MARKING SUMMARY

| DESCRIPTION                                      | QUANTITY    |
|--------------------------------------------------|-------------|
| <b>PAVEMENT MARKERS</b>                          |             |
| TYPE A _____                                     | 1,130 Ea.   |
| TYPE CL _____                                    | 1,440 Ea.   |
| TYPE DL _____                                    | 390 Ea.     |
| TYPE HL _____                                    | 860 Ea.     |
| <b>TAPE - TYPE I OR THERMOPLASTIC EXTRUSION</b>  |             |
| 4-INCH PAVEMENT STRIPE (WHITE) _____             | 1,800 L.F.  |
| 8-INCH PAVEMENT STRIPE (WHITE) _____             | 860 L.F.    |
| DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____     | 7,720 L.F.  |
| PAVEMENT ARROW _____                             | 27 Ea.      |
| <b>TAPE - TYPE II OR THERMOPLASTIC EXTRUSION</b> |             |
| 4-INCH PAVEMENT STRIPE (WHITE) _____             | 34,660 L.F. |
| 4-INCH PAVEMENT STRIPE (YELLOW) _____            | 2,320 L.F.  |
| 8-INCH PAVEMENT STRIPE (WHITE) _____             | 3,300 L.F.  |
| 12-INCH PAVEMENT STRIPE (WHITE) _____            | 1,360 L.F.  |
| 12-INCH PAVEMENT STRIPE (YELLOW) _____           | 3,390 L.F.  |
| DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____     | 16,670 L.F. |
| <b>THERMOPLASTIC EXTRUSION</b>                   |             |
| 4-INCH PAVEMENT STRIPE (WHITE) _____             | 1,190 L.F.  |
| 4-INCH PAVEMENT STRIPE (YELLOW) _____            | 660 L.F.    |
| 12-INCH PAVEMENT STRIPE (WHITE) _____            | 350 L.F.    |

SURVEY PLOTTED BY \_\_\_\_\_ DATE \_\_\_\_\_  
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 HAMAKUA DITCH TO KULA JCT.  
 Project No. 37C-01-92  
 Date: October 1991  
 SHEET No. 112 OF 12 SHEETS