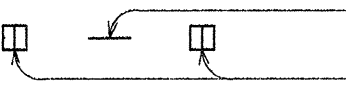
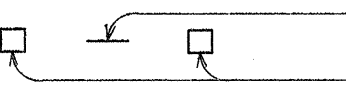


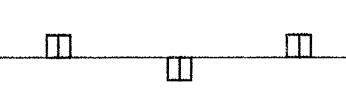
LEGEND



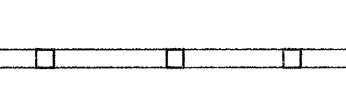
4 each Type A Raised Pavement Markers  
Type CL Raised Pavement Markers @ 40'- 0" o.c.




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 at 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)



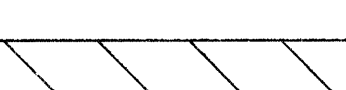
4" White Guide Lines (Thermoplastic Extrusion)



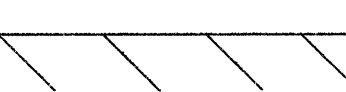
Transverse Median Marking (Tape, Type II or Thermoplastic Extrusion)




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)



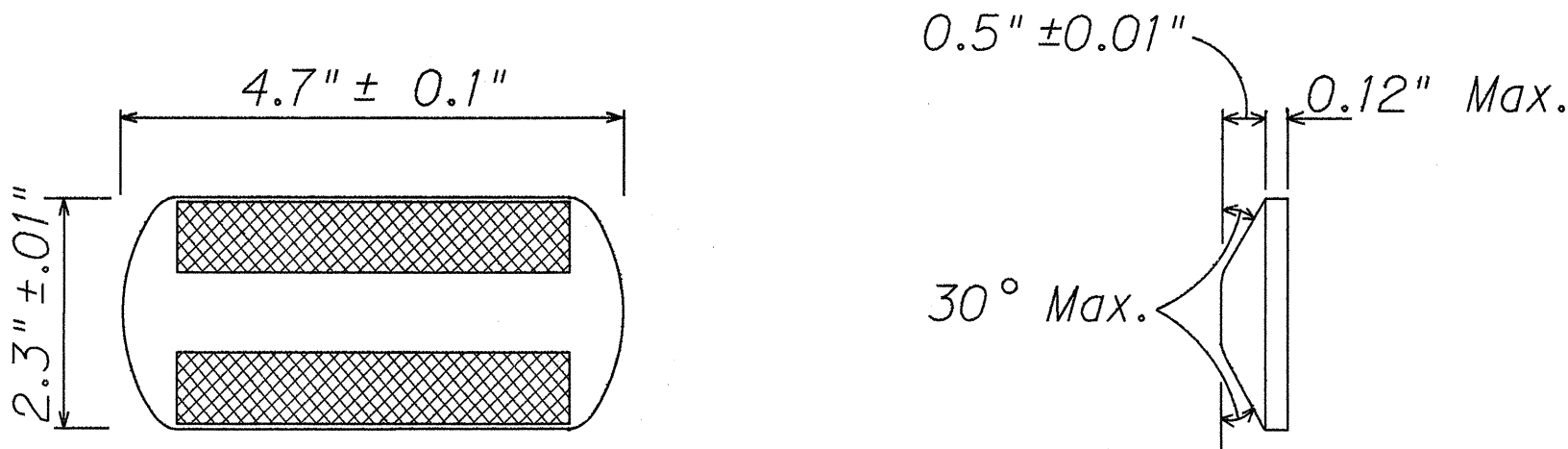
Pavement Word (Tape, Type I or Thermoplastic Extrusion)



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

Not to Scale

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
TRACED BY	DRAWN BY	
NOTED BY	CHECKED BY	
DATE		

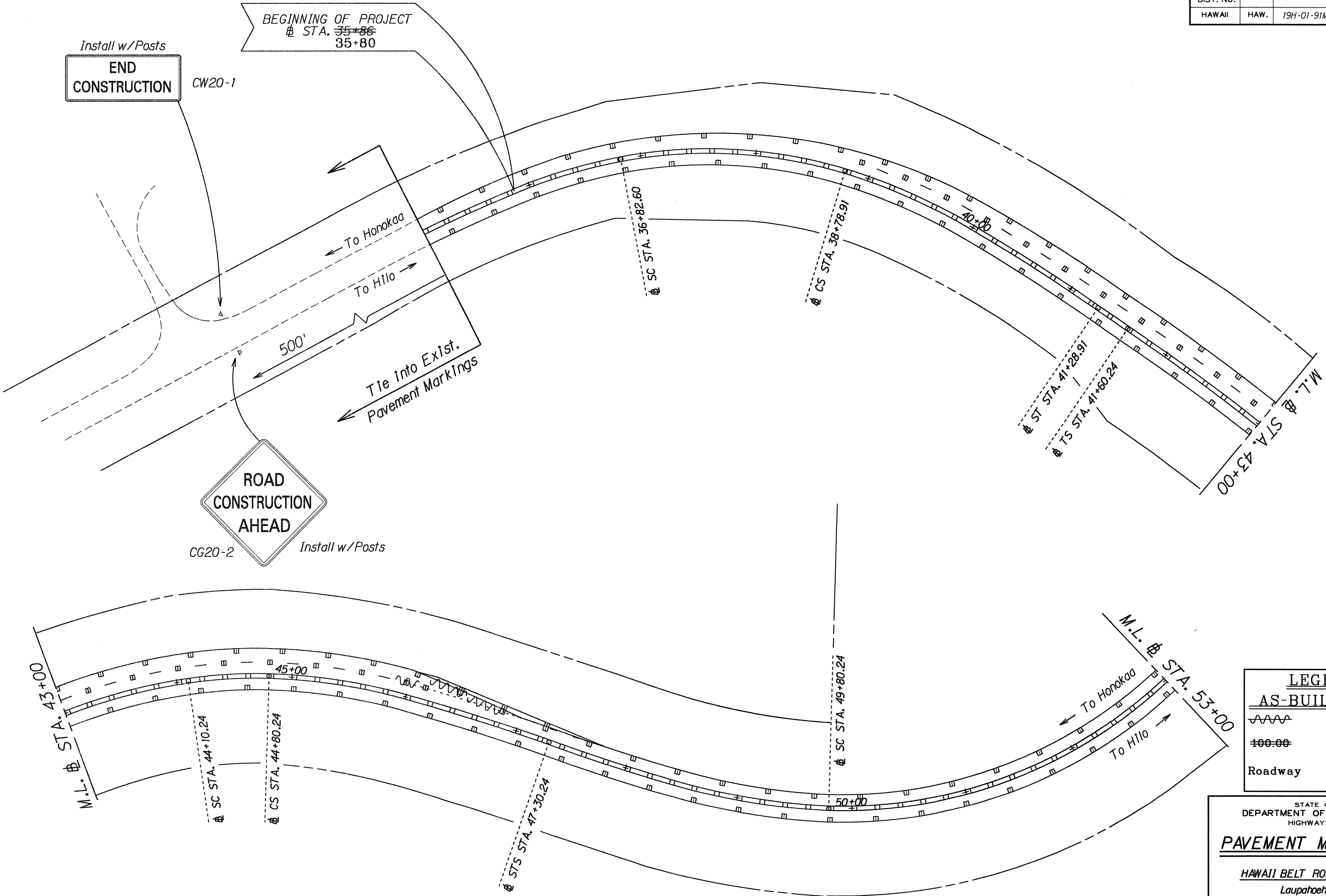
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

PAVEMENT MARKING  
LEGEND, DETAILS & NOTES

HAWAII BELT ROAD RESURFACING  
Laupahoehoe Gulch  
Project No. 19H-01-91M  
Date: Sept. 1990

SHEET No. 71 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19H-01-91M	1991	10	13



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 PLAN

HAWAII BELT ROAD RESURFACING  
Laupahoehoe Gulch  
Proj. No. 19H-01-91M

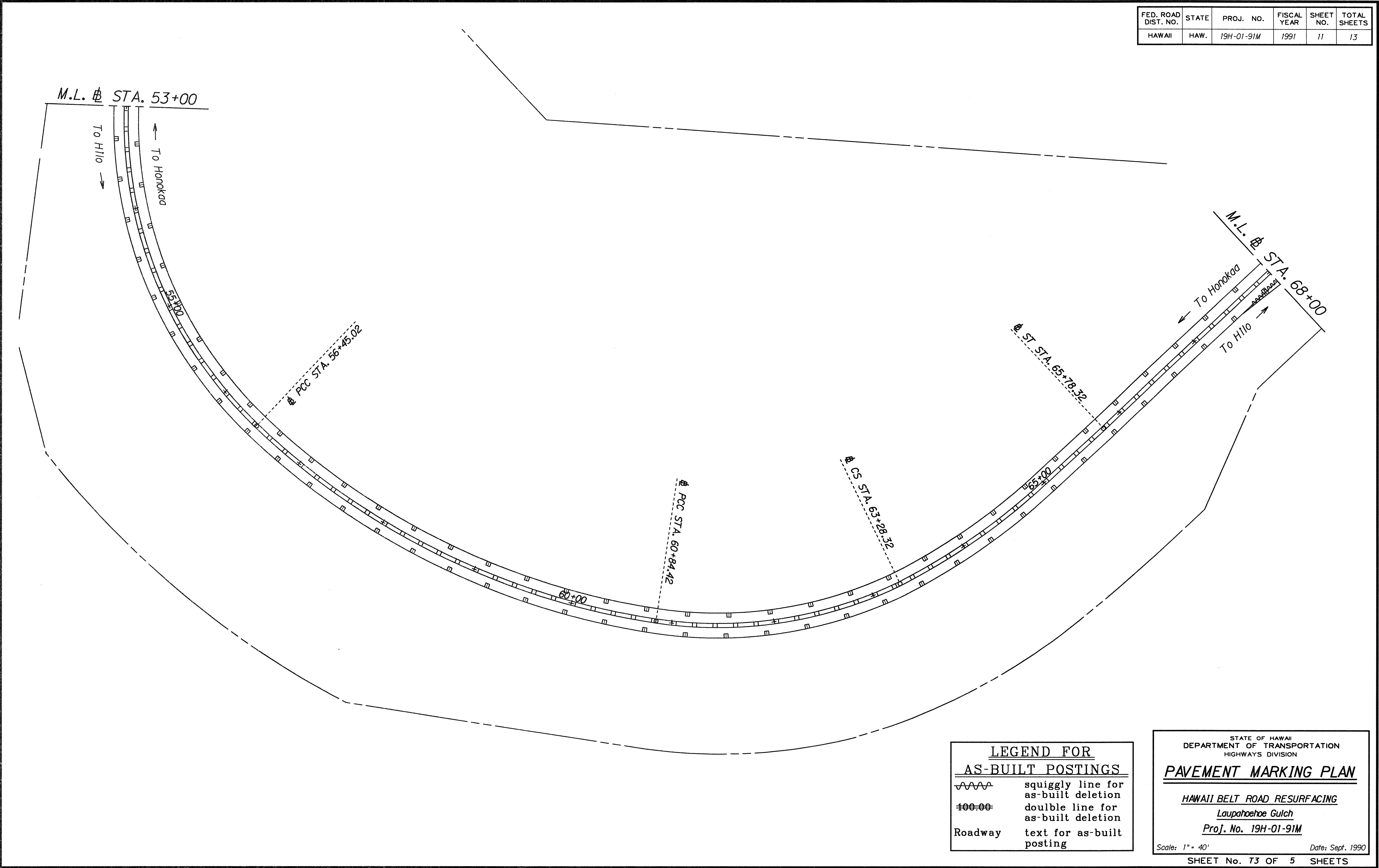
Scale: 1" = 40'  
Date: Sept. 1990

SHEET No. 12 OF 5 SHEETS

SURVEY PLOTTED BY	DATE
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.	19H-01-91M	1991	11	13

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
TRACED BY		
DESIGNED BY		
CHECKED BY		
NOTED BY		
DATE		



**LEGEND FOR  
AS-BUILT POSTINGS**

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== double line for as-built deletion

Roadway text for as-built posting

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PAVEMENT MARKING PLAN**

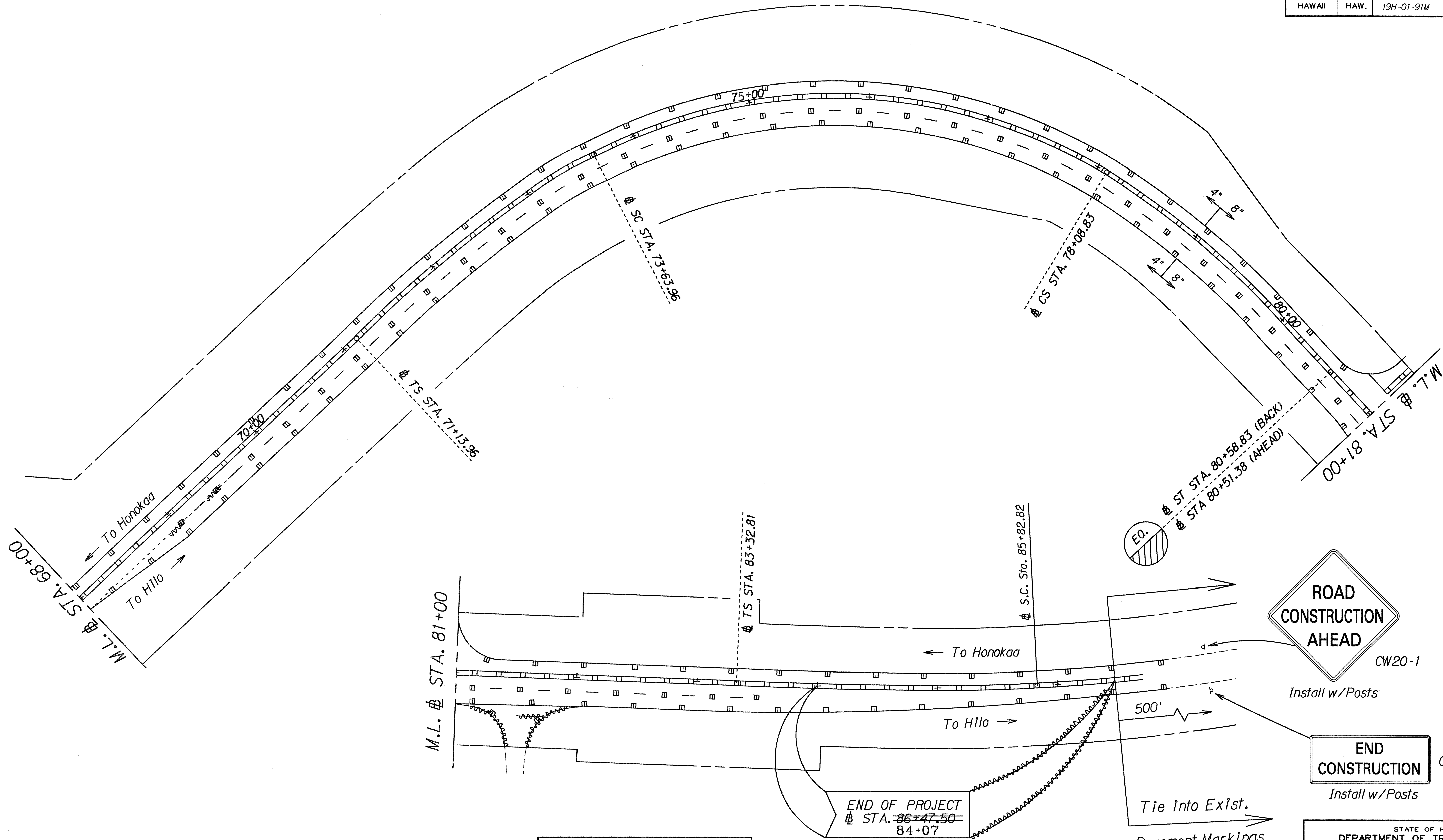
HAWAII BELT ROAD RESURFACING  
Laupahoehoe Gulch  
Proj. No. 19H-01-91M

Scale: 1" = 40' Date: Sept. 1990

SHEET No. 73 OF 5 SHEETS



| FED. ROAD DIST. NO. | STATE | PROJ. NO.  | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 19H-01-91M | 1991        | 12        | 13           |



|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| DESIGNED BY       |      |
| QUANTITIES BY     |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     |      |
| NOTE BOOK         |      |
| N <sub>s</sub>    |      |

**LEGEND FOR AS-BUILT POSTINGS**

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== double line for as-built deletion

Roadway text for as-built posting

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PAVEMENT MARKING PLAN**

HAWAII BELT ROAD RESURFACING  
Laupahoehoe Gulch  
Proj. No. 19H-01-91M

Scale: 1" = 40' Date: Sept. 1990

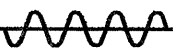
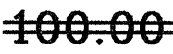
SHEET No. 12 OF 13 SHEETS

|                     |       |            |             |           |              |
|---------------------|-------|------------|-------------|-----------|--------------|
| FED. ROAD DIST. NO. | STATE | PROJ. NO.  | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| HAWAII              | HAW.  | 19H-01-91M | 1991        | 13        | 13           |

| PAVEMENT MARKING SUMMARY                  |                           |
|---|---------------------------|
| DESCRIPTION                               | QUANTITY                  |
| PAVEMENT MARKERS                          |                           |
| TYPE A                                    | 208 <del>212</del> EACH   |
| TYPE CL                                   | 316 <del>312</del> EACH   |
| TYPE DL                                   | 257 EACH                  |
| TAPE - TYPE I OR THERMOPLASTIC EXTRUSION  |                           |
| DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW)    | 5118 <del>5148</del> L.F. |
| TAPE - TYPE II OR THERMOPLASTIC EXTRUSION |                           |
| 4-INCH PAVEMENT STRIPE (WHITE)            | 8694 <del>8800</del> L.F. |
| 8-INCH PAVEMENT STRIPE (WHITE)            | 1479 <del>1550</del> L.F. |
| THERMOPLASTIC EXTRUSION                   |                           |
| 4-INCH PAVEMENT STRIPE (WHITE)            | 126 <del>200</del> L.F.   |
| 12-INCH PAVEMENT STRIPE (WHITE)           | 15 <del>45</del> L.F.     |

| CONSTRUCTION SIGN SUMMARY |                         |         |          |
|---------------------------|-------------------------|---------|----------|
| SIGN NO.                  | MESSAGE                 | W/POSTS | W/O POST |
| CW20-1                    | ROAD CONSTRUCTION AHEAD | 2       |          |
| CG20-2                    | END CONSTRUCTION        | 2       |          |
|                           |                         |         |          |
|                           | TOTAL                   | 4       | 0        |

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| DESIGNED BY       |      |
| NOTED BY          |      |
| CHECKED BY        |      |
| IN.               |      |

| 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

MISCELLANEOUS SUMMARIES

HAWAII BELT ROAD RESURFACING  
Laupahoehoe Gulch  
Project No. 19H-01-91M  
Date: Sept. 1990

SHEET No. T5 OF 5 SHEETS