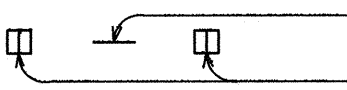
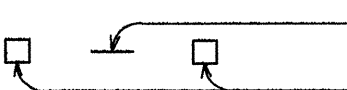
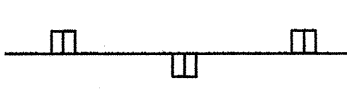
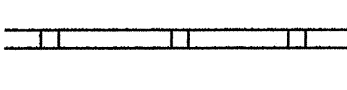




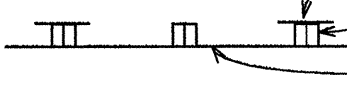

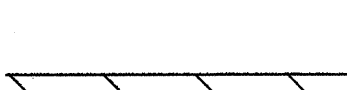
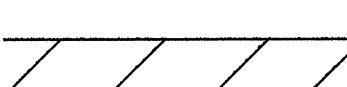






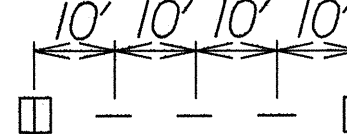


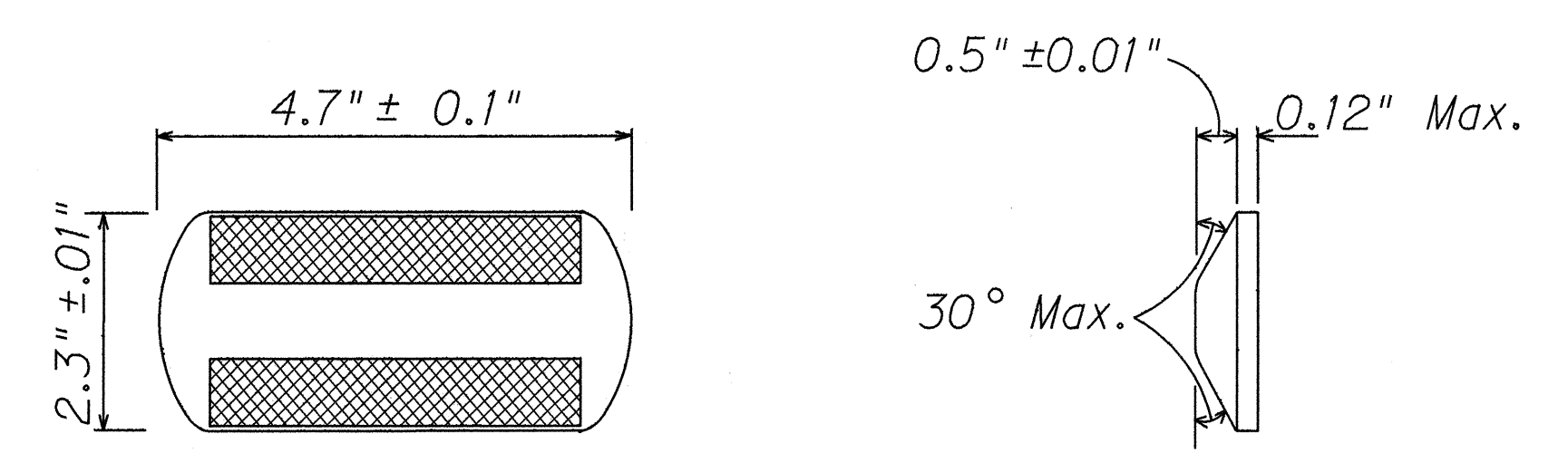
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HES-STP-030-1(20)	1992	6	12

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

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING
LEGEND, DETAILS & NOTES

HONOAPIILANI HIGHWAY
LEFT-TURN STORAGE LANE AT PAPAIAI LOOKOUT
PROJECT NO. HES-STP-030-1(20)

Scale: As noted Date: September, 1992

SHEET No. 11 OF 3 SHEETS

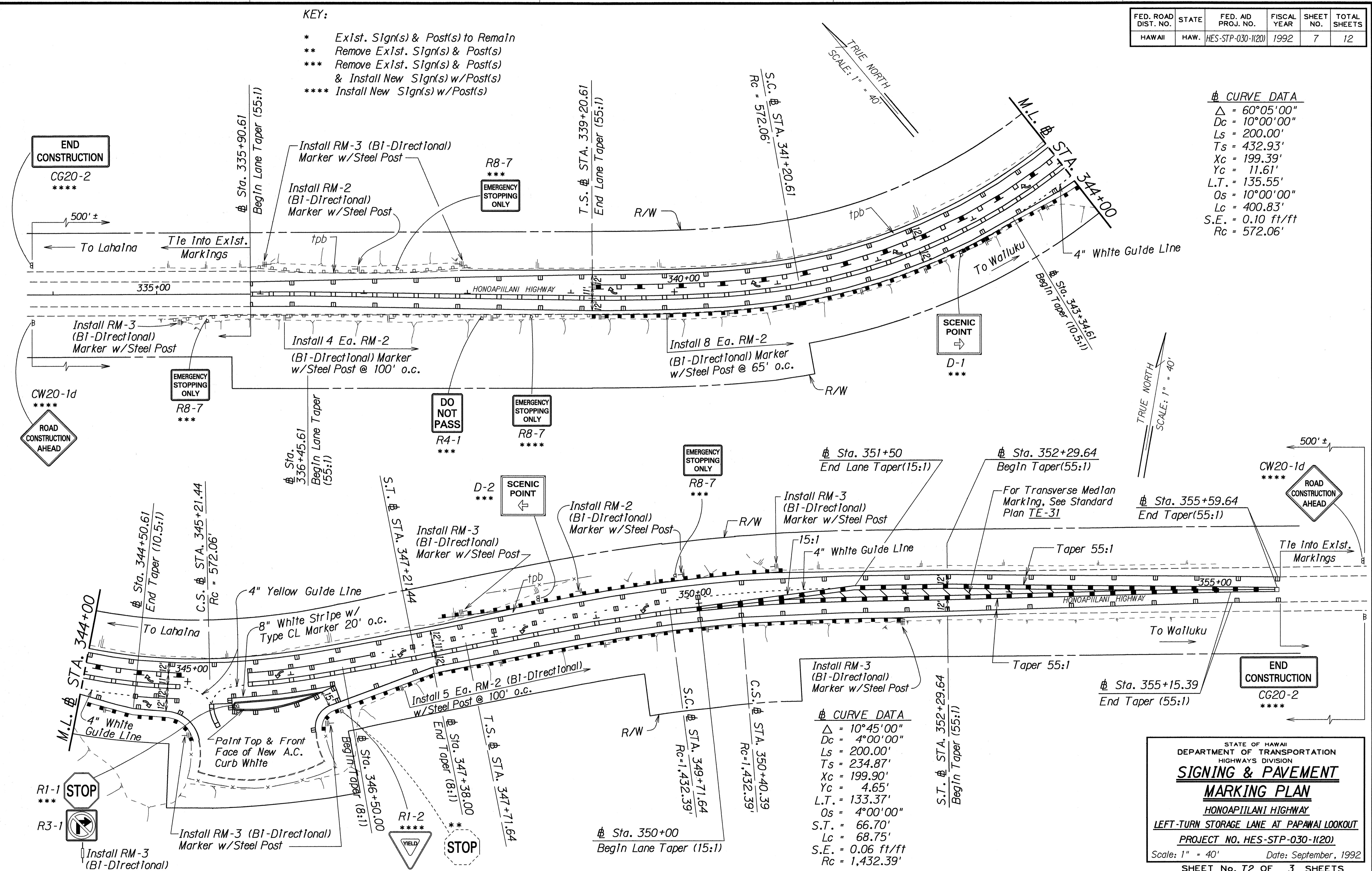
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HES-STP-030-1(20)	1992	7	12

KEY:

- * *Exist. Sign(s) & Post(s) to Remain*
- ** *Remove Exist. Sign(s) & Post(s)*
- *** *Remove Exist. Sign(s) & Post(s) & Install New Sign(s) w/Post(s)*
- **** *Install New Sign(s) w/Post(s)*

CURVE DATA

- $\Delta = 60^{\circ}05'00''$
- $D_c = 10^{\circ}00'00''$
- $L_s = 200.00'$
- $T_s = 432.93'$
- $X_c = 199.39'$
- $Y_c = 11.61'$
- $L.T. = 135.55'$
- $O_s = 10^{\circ}00'00''$
- $L_c = 400.83'$
- $S.E. = 0.10 \text{ ft/ft}$
- $R_c = 572.06'$



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKING PLAN
HONOAPIILANI HIGHWAY
LEFT-TURN STORAGE LANE AT PAPAWEI LOOKOUT
PROJECT NO. HES-STP-030-1(20)
Scale: 1" = 40' Date: September, 1992
SHEET No. T2 OF 3 SHEETS

DATE	
SURVEY PLOTTED BY	
DESIGNED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HES-STP-030-11(20)	1992	8	12

PAVEMENT MARKING SUMMARY

DESCRIPTION	QUANTITY
PAVEMENT MARKERS	
TYPE CL _____	130 Each
TYPE DL _____	85 Each
TYPE HL _____	70 Each
TYPE J _____	60 Each
TAPE - TYPE I OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (YELLOW) _____	570 L.F.
8-INCH PAVEMENT STRIPE (WHITE) _____	160 L.F.
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____	1,360 L.F.
PAVEMENT ARROW _____	10 Each
TAPE - TYPE II OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE) _____	3,940 L.F.
8-INCH PAVEMENT STRIPE (WHITE) _____	220 L.F.
12-INCH PAVEMENT STRIPE (YELLOW) _____	166 L.F.
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____	1,120 L.F.
THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE) _____	560 L.F.
4-INCH PAVEMENT STRIPE (YELLOW) _____	90 L.F.
12-INCH PAVEMENT STRIPE (WHITE) _____	50 L.F.

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		1			
R1-2		1			
R3-1			1		
R4-1		1			
R8-7		4			
TOTAL		7	1		

REFLECTOR MARKER SUMMARY

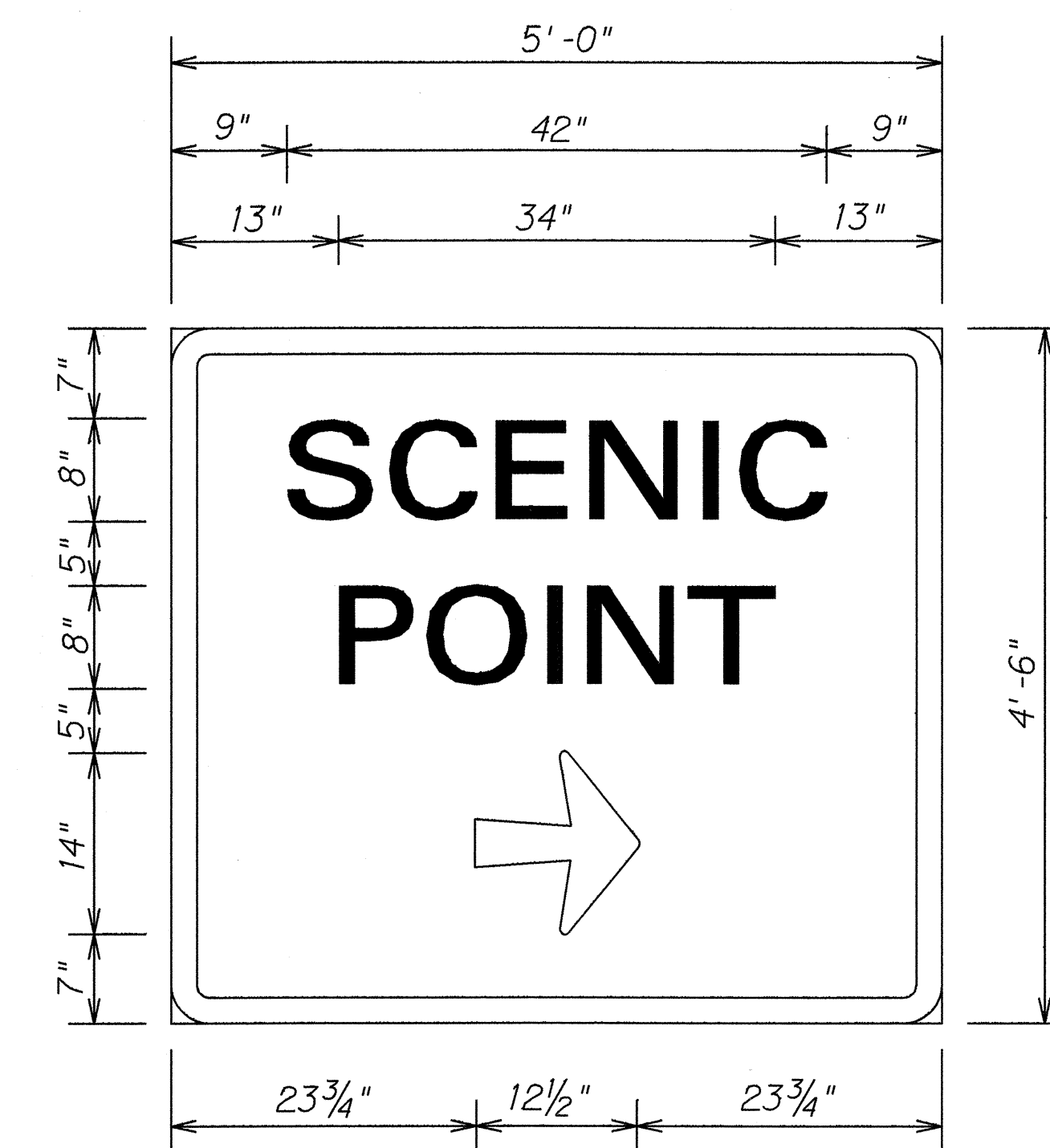
TYPE	QUANTITY			
	BI-DIRECTIONAL W/O POST		W/STEEL POST BI-DIRECTIONAL	
	YELLOW	WHITE	YELLOW	WHITE
RM-2				20
RM-3	1		7	

CONSTRUCTION SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	W/POSTS	W/O POST
CG20-2	Ⓜ STA. 330+90± LT.	END CONSTRUCTION	1	
CW20-1d	Ⓜ STA. 330+90± RT.	ROAD CONSTRUCTION AHEAD	1	
CW20-1d	Ⓜ STA. 360+60± LT.	ROAD CONSTRUCTION AHEAD	1	
CG20-2	Ⓜ STA. 360+60± RT.	END CONSTRUCTION	1	
TOTAL			4	

DESTINATION SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	SIZE	NEW PANEL AREA (SQ. FT.)	
				W/O POST	W/POSTS
D-1	Ⓜ STA. 342+75± RT.	SCENIC POINT →	5'-0" X 4'-6"		22.50
D-2	Ⓜ STA. 348+50± LT.	SCENIC POINT ←	5'-0" X 4'-6"		22.50
TOTAL					45



SIGN D-1 →
(2 Posts)

SIGN D-2 ←
(2 Posts)
Scale: 1" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**MISC. TRAFFIC SUMMARIES
AND SIGN DETAIL**

HONOAPIILANI HIGHWAY
LEFT-TURN STORAGE LANE AT PAPA'AI LOOKOUT
PROJECT NO. HES-STP-030-11(20)

Scale: As noted Date: September, 1992

SHEET No. 73 OF 3 SHEETS

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