## 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. (<del>Tape, Type For</del> Thermoplastic Extrusion) 4" Double Solid Yellow with Type DL Raised Pavement Markers @ 20'-0" o.c. (<del>Tape, Type for</del> Thermoplastic Extrusion) 4"Double Solid Yellow Stripes with Type HL Raised Pavement Markers @ 20"-0" o.c. (<del>Tape, Type H or</del> Thermoplastic Extrusion) 4" Yellow Edge Stripe with Type HL Raised Pavement Markers @ 40'-0" o.c. (<del>Tape,Type H-or</del> Thermoplastic Extrusion) 4"Double Solid White Stripes with Type CL Raised Pavement Markers @ 20"-0" o.c. (<del>Tape, Type for</del> 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 (<del>Tape, Type I</del> or Thermoplastic Extrusion) 4" or 8" White Edge Stripe with Type CL Raised Pavement Markers @ 40'-0" o.c. (<del>Tape, Type II or</del> Thermoplastic Extrusion) 4" White Guide Lines (Thermoplastic Extrusion) Transverse Median Marking (<del>Tape, Type Hor</del> Thermoplastic Extrusion) Transverse Shoulder Marking (Tape, Type II or Thermoplastic Extrusion) Channelizing Island or Deceleration Lane Gore (<del>Tape, Type II</del> 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 (<del>Tape, Type For</del> Thermoplastic Extrusion) Pavement Word (<del>Tape, Type For</del> Thermoplastic STOP 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 (<del>Tape, Type For</del> Thermoplastic Extrusion) Extension of Edge Line, 4" Wide x 2'-0" Long 10' 10' 10' 10' White Stripe @ 10'-0" o.c.w/Type CL Markers

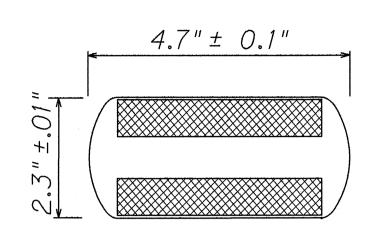
@ 40'-0" o.c. (<del>Tape,Type for</del> Thermoplastic

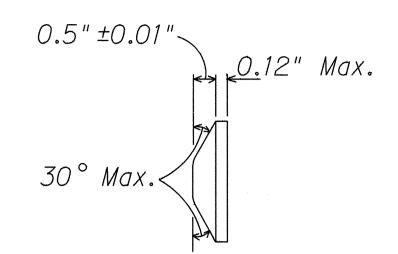
Extrusion)

## NOTES

- Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
- 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.
- 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.
- 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

TYPE DL

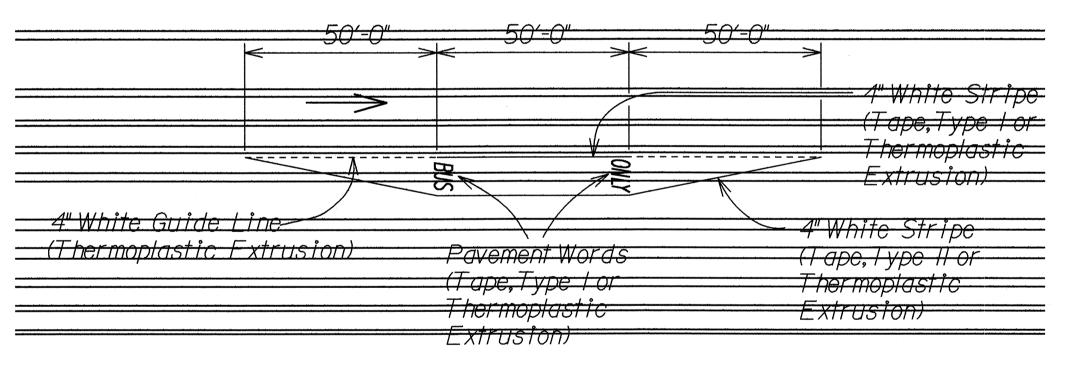
Two-Way Yellow Reflective Marker

TYPE HL

One-Way Yellow Reflective Marker

RAISED PAVEMENT MARKER DETAILS

Not to Scale



TYPICAL BUS BAY STRIPING

### 8" Solid White Stripe w/Type CL Markers @ 20' o.c. as shown 12' 3' 12' 3' 12' 3' 6' on Plans (<del>Tape, Type I or</del> Thermoplastic Extrusion) To Gore 8" White Stripe (Typical) (<del>Tape, Type I or</del> Thermoplastic (Typical) Extrusion)

LANE DROP MARKING Not to Scale

## LEGEND FOR AS-BUILT POSTINGS

**₩** 100.00

squiggly line for as-built deletion doulble line for as-built deletion text for as-built Roadway posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

#### PAVEMENT MARKING LEGEND, DETAILS, & NOTES

HAWAII BELT ROAD WIDENING Hawaii Volcanoes National Park Mile Post 34.7 to Mile Post 35.9 F.A. Proj. No. FLH-011-2(22)

Not To Scale

SHEET No. T1 OF 2 SHEETS

Date: August 1990

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR		TOTAL SHEETS
HAWAII	HAW.	FLH-011-2(22)	1991	11	18

SCHEDULE OF STRIPING AND PAVEMENT MARKERS									
	NEW STRIPING			NEW MARKERS					
STATION - STATION	4" YELLO	OW (L.F.)	4" WHITE	' WHITE TYPE		TYPE TYPE CON		COMMENTS	
1990+66 1947+00	DOUBLE	SINGLE	@ E.P. (L.F.)	"CL"	"DL"	"HL"	"J"		_
1839+66 1847+00 1841+16 - 1847+40		734 <del>624</del>			19 #	19 <i>‡</i> 6	76 <del>64</del>	NO PASS. TO PAHALA, PASS. TO HILO	
1847+00 1876+00 <del>1847+40</del> - <del>1863+50</del>	2,900 <del>- ,6/0</del>				147 ##			NO PASSING	
1876+00 1876+50		<b>50</b> 770			1 <del>20</del>	2 <del>20</del>	8 <del>80</del> N	PASS. TO PAHALA, NO PASS. TO HILO	
1881+50 1884+50 <del>/8//+20</del> - <del>/906+00</del>		300	STA. 1842+16		7 88	8	32 <del>352</del>	PASSING TO PAHALA, NO PASS. TO	HILO
1896+00 1900+00 <del>/84//6</del> - <del>1906+00</del>		400 300	TO	326	10 7	11 8	44 36	EDGE STRIPING NO PASS. TO PAHALA, PASS. '	то ніцо
1904+00-1907+00	<del>-/,6/0-</del>	<del>+,394</del> 1.7		326	205	<del>-36-</del>	<del>-496</del>	PASS. TO PAHALA, NO PASS. TO H	ILO
	2,900	STA. 18	76+50 TO STA. 84+50 TO STA. 00+00 TO STA.	1896+00			48 112 36	PASSING PASSING PASSING	

<del>41</del> 40

	тот	TAL	243	48 392					
TRAFFIC SIGN SUMMARY									
				QUANTITY					
SIGN NO.	MESSAGE		10 SQ. FT. OR LESS		GREATER THAN 10 SQ. FT.				
			W/POST	W/O POST	W/POST	W/O POST			
R2-1(45)	SPEED LIMIT 45		2						
	TO	OTAL	2	0	0	0			

	CONST	RUCTION SIGN SUMMARY		
SIGN NO.	LOCATION	MESSAGE	W/POST	W/O POST
CW20-1d	¢ Sta. 1831+16 ± Rt.	ROAD CONSTRUCTION AHEAD	1	
CW20-1c	¢ Sta. 1836+16 ± Rt.	ROAD CONSTRUCTION 500 FT.	1	
CG20-2	¢ Sta. 1836+16 ± Lt.	END CONSTRUCTION	1	
CW20-1c	¢ Sta. 1911+00 ± Rt.	ROAD CONSTRUCTION 500 FT.	1	
CG20-2	¢ Sta. 1911+00 ± Lt.	END CONSTRUCTION	1	
CW20-1d	¢ Sta. 1916+00 ± Rt.	ROAD CONSTRUCTION AHEAD	1	
		TOTAL	6	0

···········				١ .				
Λ	MILEPOST MARKER	SUMM	ARY		REFLECTOR	MARKER	SUMMARY	
M.P.	LOCATION	QUANTITY				QUANTITY		
NO.	LOCATION	w/Post	w/o Post		TYPE	w/Steel		
35	⊈ Sta. 1859+90 ± Rt.					Post		
	(Bi-Directional)	1			RM-1	Yellow	White	
	TOTAL	1	0		Bi-Directional		<del>-41</del> 4	
				,				

PAVEMENT MARKING SUMMARY	
DESCRIPTION	QUANTITY
PAVEMENT MARKERS           TYPE A         —           TYPE CL         —           TYPE DL         —           TYPE HL         —           TYPE J         —	326 EA. 243 <del>205</del> EA. 48 <del>- 36</del> EA. 392 <del>496</del> EA.
TAPE - THERMOPLASTIC EXTRUSION  4-INCH PAVEMENT STRIPE (WHITE)	1,784 <del>-/,394</del> L.F. 2,900 <del>-/,6/0</del> L.F.
TAPE - TYPE II OR THERMOPLASTIC EXTRUSION  4-INCH PAVEMENT STRIPE (WHITE)	12,968 L.F.
THERMOPLASTIC EXTRUSION  4-INCH PAVEMENT STRIPE (WHITE) ————————————————————————————————————	

# LEGEND FOR AS-BUILT POSTINGS

**₩** <del>100.00</del>

squiggly line for as-built deletion doulble line for as-built deletion

Roadway

text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

### MISCELLANEOUS SUMMARIES

HAWAII BELT ROAD WIDENING Hawaii Volcanoes National Park
Mile Post 34.7 to Mile Post 35.9
F.A. Proj. No. FLH-011-2(22)

Date: August 1990

SHEET No. T2 OF 2 SHEETS

