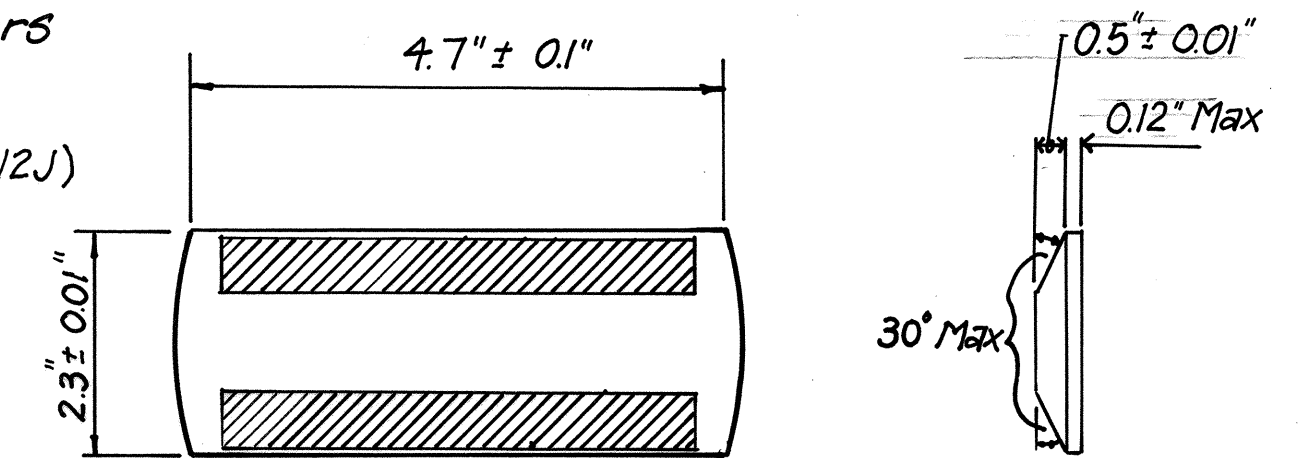


GENERAL NOTES:

1. Scope of Work: Resurfacing; stabilizing shoulders, Installing Pavement Reinforcing Fabric, Raised Pavement Markers and Pavement Markings; Pav't Striping; and adjusting manhole and Valve Box Covers.
2. All Potholes, Depression, Cracks and Wheel Ruts shall be cleaned, then filled and compacted with $\frac{3}{4}$ " \pm Leveling course of Asphalt Concrete Pavement Marshall Mix preceding laying of Reinf. Fabric. This Work will be measured and paid for as provided under item No. 401.0600 Asphalt Concrete Pavement Marshall Mix. Laying of Reinforcing Fabric will be paid for under Item No. 420.0100 Pavement Reinforcing Fabric.
3. Existing Raised Pavement Markers shall be removed from the entire area to be resurfaced by such a method that will cause the least possible damage to the pavement. This work will not be measured for payment but shall be considered incidental to various contract items.
4. Provide smooth riding connections from the new pavement overlay to the existing pavement at the Beginning and End of Project according to Typical Sections and to R/W line for all paved County approaches and paved private driveways.
5. "Brooming Off" and grading of the edge of existing surface prior to resurfacing will not be measured or paid for separately but shall be considered incidental to Asphalt Concrete Pavement Marshall Mix.
6. The Contractor shall be held liable for any Damages incurred to Existing Utility Facilities as a result of his operation. All damages shall be repaired and/or replaced immediately in accordance with the Standards and Specifications of the State and/or affected Utility Company. On any unreasonable delay by the Contractor the State shall repair said damages and Bill the Contractor.
7. All Lanes shall be Open to traffic during the Morning peak hours from 6:30 A.M. to 8:30 A.M., during Afternoon peak hours from 3:30 P.M. to 5:30 P.M. and during off work hours. Only one lane of Highway shall be closed at any other time. Failure of the Contractor to open lanes to traffic during the above peak hours shall result in assessment of liquidated damages as specified in Section 108.08 of the Special Provisions.
8. Existing wearing surface indicated in Typical Sections varies. Surface indicated is Typical and not intended to represent any specific location.
9. If it is necessary to run public traffic over roadways soon after the paving operations, the Contractor shall install temporary pavement marking tape and raised pavement marker as directed by the Engineer. For additional requirements, refer to Section 629 of the Standard Specifications and Special Provision. This work shall be considered incidental to various contract items and no separate payment will be made therefore.
10. Trimming and Dressing of shoulders will be done by others.
11. Adjusting of Manhole and Valve Box Covers to new finish grade shall be done in accordance with the Standard Specifications for Waterworks Construction, Department of Water, County of Kauai. Payment which shall include full compensation for removing, furnishing of additional materials needed and reinstalling, will be made at the contract unit price per each as specified in the proposal.
12. Placement of Reinforcing Fabric will not be required on transitions at the beginning and end of project, islands, storage lanes and deceleration lanes.
13. Existing Cable T.V. Pull Boxes and Telephone Manhole Covers shall be adjusted by others.

PAVEMENT MARKING NOTES:

1. Staking and Layout for pavement striping, markings and markers shall be performed by the Contractor, except from Sta 1+15 to Sta 8+10 (Proj. 50C-01-85) and from Sta 197+00 to Sta 212+30 (FAP 12J) where staking will be done by the State. Layout in the field by the Contractor shall be approved by the Engineer prior to installations.
2. All Striping, Marking and Raised Pavement Markers shall be installed in accordance with the Standard Plans of the Department.
3. All pavement striping except edge striping shall be with Thermoplastic Extrusion or Tape, Type I.
4. Edge pavement striping shall be with Thermoplastic Extrusion or Tape, Type II and crosswalk markings & pavt. arrows shall be w/ Tape, Type I.
5. Raised Pavement Marker shall not be placed within crosswalk.
6. Staking performed by the Contractor shall be considered incidental to the various items of work and no separate payment will be made.
7. Details of Type C, Type D and Type H markers on Standard Plan No. TE-30 and TE-31 shall be deleted and replaced with details of Type CL, Type DL and Type HL markers as shown on this sheet.



TYPE CL
Red Clear Reflective Marker

or

TYPE DL
Two Way Yellow Reflective Marker

or

TYPE HL
One Way Yellow Reflective Marker

DETAIL - RAISED PAVEMENT MARKER

ESTIMATED QUANTITIES

ITEM	KALAHEO TO LAWAI BR.	HANAPEPE L.O. TO ELEELE	TOTAL
Pav't. Reinforcing Fabric	18,977 S.Y.	11,696 S.Y.	30,673 S.Y.
SS-1 Tack Coat	4,817 Gal	2,171 Gal	6,988 Gal
A.C. Pav't. Marshall Mix	3,432 Tons	1,828 Tons	5,260 Tons
Pav't. Striping (Thermoplastic Extrusion or Tape, Type I)	8,185 L.F.	5,958 L.F.	14,143 L.F.
Edge Striping (Thermoplastic Extrusion or Tape, Type II)	15,405 L.F.	9,129 L.F.	24,534 L.F.
Pav't. Arrows (Tape Type I or Thermoplastic Extrusion)	7 Ea	12 Ea	19 Ea
Crosswalk Marking (Thermoplastic Extrusion)	10 Lanes	2 Lanes	12 Lanes
Curb Marking (Paint)	145 L.F.	105 L.F.	250 L.F.
Type CL Pav't. Markers	361 Ea	290 Ea	651 Ea
Type DL Pav't. Markers	347 Ea	148 Ea	495 Ea
Type HL Pav't. Markers	43 Ea	129 Ea	172 Ea
Type J Pav't. Markers	84 Ea	204 Ea	288 Ea
Reconstructed Grated Drop Inlet	1 Ea	1 Ea	2 Ea
Adjusting Centerline Monument	2 Ea	1 Ea	3 Ea
Adjusting Manhole Cover	2 Ea	2 Ea	4 Ea
Adjusting Valve Box Cover	10 Ea	6 Ea	16 Ea
Roadway Excavation	51 C.Y.	50.6 C.Y.	101.6 C.Y.

KALAHEO TO LAWAI BRIDGE SUMMARY - STRIPING & RAISED PAVEMENT MARKERS

Station	Striping L.F. E, etc.	E.P.	Ty. CL	Ty. DL	Ty. HL	Ty. J	Zone
(PROJ 50C-01-85)							
0+00 to 1+15	115	230	0	7			No Pass
1+15 to 8+10	1636	1300	46	26	26		See Pav't. Markg Plan, Sht No. 6
[PROJ F12 (10)]							
0+00 to 1+05	105	210	5	6			No Pass
1+05 to 1+35		60	2				Crosswalk
1+35 to 1+60	25	50	1	2	3		No Pass
1+60 to 5+20	360	720	12	9	9	36	No Pass/Pass
5+20 to 5+80	60	120	3	4			No Pass
5+80 to 10+60	480	960	24	12	12	48	Pass/No Pass
10+60 to 11+00	40	80	2	3	4		No Pass
11+00 to 11+40		40	1	2			40' Opening Hokua Rd.
11+40 to 21+66.4	1026.4	2052.8	51	53			No Pass
22+29.7 to 36+90	1460.3	2920.6	73	73			No Pass
36+90 to 37+30		40	1	2			40' Opening Waialeale Rd.
37+30 to 43+30	600	1200	30	31			No Pass
43+30 to 43+70		40	1	2			40' Opening Kuli Rd.
43+70 to 60+30.1	1660.1	3320.2	83	84			No Pass
63+40.5 to 66+50	309.5	619	10	16			No Pass
66+50 to 66+90		40	1	2			40' Opening Waialeale Rd.
66+90 to 67+75	85	170	4	5			No Pass
TOTAL	7962.3	14172.6	363	332	43	84	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NOTES, DETAILS, ESTIMATED QUANTITIES AND SUMMARY

Kaunualii Hwy. Resurfacing
Kalaheo to Lawai Bridge
& Hanapepe Lookout to Elele
Proj. No. 50C-01-90M
Scale: As Noted Date: April 1990

SHEET NO. 1 OF 1 SHEETS