

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360B-01-80	1980	3	28

PAVEMENT WIDENING SCHEDULE

STATION	EXISTING PAVEMENT WIDTH	NEW PAVEMENT WIDTH (W)	APPROX. WIDENING	STATION	EXISTING PAVEMENT WIDTH	NEW PAVEMENT WIDTH (W)	APPROX. WIDENING	STATION	EXISTING PAVEMENT WIDTH	NEW PAVEMENT WIDTH (W)	APPROX. WIDENING	STATION	EXISTING PAVEMENT WIDTH	NEW PAVEMENT WIDTH (W)	APPROX. WIDENING
Kaeluku Sta. SECTION "A" 0 + 00	14.0'	22.0'	8.0'	Conc. Bridge #3 Sta. SECTION "D" 0 + 00	14.0'	14.0'	0	Honomaele Bridge Sta. SECTION "F" 0 + 00	16.0'	16.0'	0	8 + 50	11.5'	17.0'	5.5'
1 + 00	14.0'	22.0'	8.0'	1 + 00	11.5'	22.0'	10.5'	1 + 00	17.0'	22.0'	5.0'	9 + 00	11.5'	19.0'	7.5'
2 + 00	15.5'	22.0'	6.5'	2 + 00	13.0'	22.0'	9.0'	2 + 00	11.0'	22.0'	11.0'	10 + 00	11.0'	17.0'	6.0'
2 + 75	13.0'	20.0'	7.0'	3 + 00	11.0'	22.0'	11.0'	2 + 70	11.0'	20.0'	9.0'	11 + 00	12.0'	20.0'	8.0'
3 + 45	14.5'	14.5'	0	4 + 00	11.5'	22.0'	10.5'	3 + 05	10.5'	21.0'	8.5'	12 + 00	13.5'	20.0'	6.5'
Conc. Bridge #1 Sta. SECTION "B" 0 + 00	14.5'	14.5'	0	5 + 00	14.5'	22.0'	7.5'	4 + 00	12.0'	21.0'	9.0'	13 + 00	12.5'	21.0'	8.5'
1 + 00	16.5'	22.0'	5.5'	5 + 50	12.5'	18.0'	5.5'	5 + 00	12.0'	22.0'	9.0'	14 + 00	12.0'	21.0'	9.0'
2 + 00	13.5'	22.0'	8.5'	6 + 00	12.0'	22.0'	10.0'	5 + 40	11.5'	20.0'	8.5'	15 + 45	12.0'	21.0'	9.0'
3 + 00	12.0'	22.0'	10.0'	7 + 00	12.0'	22.0'	10.0'	6 + 00	14.0'	20.0'	6.0'	16 + 50	12.0'	21.0'	9.0'
4 + 00	11.0'	22.0'	11.0'	8 + 00	12.0'	22.0'	10.0'	6 + 80	14.0'	20.0'	6.0'	17 + 50	11.5'	20.0'	8.5'
5 + 00	12.0'	22.0'	10.0'	9 + 00	13.0'	22.0'	9.0'	7 + 40	14.5'	20.0'	5.5'	18 + 25	12.0'	22.0'	10.0'
6 + 00	12.0'	22.0'	10.0'	10 + 00	12.0'	22.0'	10.0'	8 + 00	13.0'	22.0'	9.0'	19 + 50	12.0'	22.0'	10.0'
7 + 00	14.0'	22.0'	8.0'	11 + 00	12.0'	22.0'	10.0'	8 + 80	12.5'	22.0'	9.5'	20 + 50	13.0'	22.0'	9.0'
8 + 00	14.0'	20.0'	0	12 + 00	14.5'	14.5'	0	9 + 50	16.0'	22.0'	6.0'	21 + 50	12.5'	22.0'	9.5'
9 + 00	14.0'	22.0'	8.0'	Conc. Bridge #4 Sta. SECTION "E" 0 + 00	14.5'	14.5'	0	10 + 00	12.0'	21.0'	7.0'	22 + 50	12.0'	22.0'	10.0'
10 + 00	13.5'	22.0'	8.5'	1 + 00	12.0'	22.0'	10.0'	10 + 80	10.5'	17.0'	6.5'	23 + 50	12.0'	22.0'	10.0'
10 + 25	13.5'	22.0'	8.5'	2 + 00	12.0'	22.0'	10.0'	11 + 00	12.0'	20.0'	7.0'	24 + 50	12.0'	22.0'	10.0'
11 + 00	12.5'	22.0'	9.5'	3 + 00	12.0'	22.0'	10.0'	11 + 50	12.0'	20.0'	7.0'	25 + 50	12.0'	22.0'	10.0'
12 + 00	12.0'	22.0'	10.0'	4 + 00	13.0'	22.0'	9.0'	12 + 50	11.5'	21.0'	9.5'	26 + 35	13.0'	17.0'	4.0'
13 + 00	12.0'	22.0'	10.0'	5 + 00	13.5'	22.0'	8.5'	13 + 50	12.0'	21.0'	9.0'	27 + 00	12.0'	22.0'	10.0'
14 + 00	12.0'	22.0'	10.0'	5 + 90	13.0'	21.0'	8.0'	14 + 50	12.0'	22.0'	10.0'	28 + 00	12.0'	22.0'	10.0'
14 + 60	12.0'	20.0'	8.0'	7 + 00	12.5'	22.0'	9.5'	15 + 50	12.0'	22.0'	10.0'	29 + 00	13.0'	22.0'	9.0'
15 + 00	21.0'			8 + 10	12.0'	22.0'	10.0'	16 + 50	12.0'	22.0'	8.0'	30 + 00	12.0'	22.0'	10.0'
15 + 85	14.0'	14.0'	0	9 + 00	10.5'	22.0'	11.5'	17 + 50	12.0'	20.0'	8.0'	31 + 00	12.5'	22.0'	9.5'
16 + 12	14.0'			10 + 00	12.0'	22.0'	10.0'	Oilowai Bridge Sta. SECTION "G" 0 + 00	15.5'	15.5'	0	32 + 00	11.0'	22.0'	11.0'
Conc. Bridge #2 Sta. SECTION "C" 0 + 00	14.0'	14.0'	0	11 + 00	11.5'	22.0'	10.5'	1 + 00	11.5'	22.0'	8.5'	33 + 00	11.5'	22.0'	10.5'
1 + 00	12.0'	22.0'	10.0'	12 + 00	11.5'	21.0'	9.5'	2 + 00	13.0'	22.0'	7.0'	34 + 00	11.5'	22.0'	10.5'
1 + 50	11.0'	22.0'	11.0'	13 + 00	12.0'	21.0'	9.0'	3 + 00	14.0'	22.0'	8.0'	35 + 00	12.5'	22.0'	9.5'
2 + 00	11.5'	22.0'	10.5'	14 + 00	14.5'	22.0'	7.5'	4 + 00	11.5'	22.0'	10.5'	36 + 00	12.0'	20.0'	8.0'
3 + 00	12.0'	22.0'	10.0'	15 + 00	13.0'	22.0'	9.0'	5 + 00	12.0'	22.0'	10.0'	37 + 00	12.5'	22.0'	9.5'
4 + 00	12.5'	22.0'	9.5'	16 + 00	16.0'	16.0'	0	6 + 00	12.0'	22.0'	10.0'	38 + 00	13.5'	22.0'	8.5'
5 + 00	13.0'	22.0'	9.0'	7 + 00	14.0'	22.0'	8.0'	7 + 00	14.0'	22.0'	8.0'	39 + 00	12.0'	22.0'	10.0'
5 + 60	14.0'	14.0'	0	8 + 00	11.5'	22.0'	10.5'	8 + 00	11.5'	22.0'	10.5'	40 + 00	12.0'	22.0'	10.0'
												40 + 65	12.0'	20.0'	8.0'

CONTRACT

CONTRACT

(NOT IN CONTRACT)

7/22/80 Revised Pavement Widening Schedule

DATE REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION LAND TRANSPORTATION FACILITIES DIVISION
PAVEMENT WIDENING SCHEDULE
HANA HWY. IMPROVEMENTS Hana towards Wailua, Phase I Project No. 360B-01-80
Date: May, 1980

SHEET NO. 1 OF 3 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	

PAVEMENT RESURFACING SCHEDULE

APPROXIMATE LIMITS STA. TO STA.	A.C. MIX NO. & THICKNESS
Kaeleku Sta. -0+50 to Sta. 3+45	2"
Bridge #1 Sta. 0+00 to Sta. 16+12	1"
Bridge #2 Sta. 0+00 to Sta. 5+60	1"
Bridge #3 Sta. 0+00 to Sta. 10+00±	1"
Bridge #3 Sta. 10+00± to Sta. 12+38	1 1/2"
Bridge #4 Sta. 0+00 to Sta. 5+00±	1 1/2"
Bridge #4 Sta. 5+00± to Sta. 16+08	1"
Honomaele Bridge Sta. 0+00 to Sta. 10+00±	1"
Honomaele Bridge Sta. 10+00± to Sta. 18+58	1 1/2"
Oilowai Bridge Sta. 0+00 to Sta. 3+00±	1 1/2"
Oilowai Bridge Sta. 3+00± to Sta. 8+00±	1"
Oilowai Bridge Sta. 30+00± to Sta. 36+00±	2"
Oilowai Bridge Sta. 36+00± to Sta. 45+75	1"
Mokulehua Bridge Sta. 0+00 to Sta. 3+00±	1"
Mokulehua Bridge Sta. 3+00± to Sta. 7+00±	2"
Mokulehua Bridge Sta. 7+00± to Sta. 17+20	1"
Ulaino Bridge Sta. 0+00 to Sta. 3+25	1"

(NOT IN CONTRACT)

PAVEMENT RECONSTRUCTION SCHEDULE

APPROXIMATE LIMITS STA. TO STA.	APPROX. WIDTH	APPROX. LENGTH	APPROX. AREA SQ. YD.
Sec. A Sta. 0+30 to Sta. 2+12 Rt. Lane			
Bridge #3 Sta. 10+00± Rt. to Sta. 11+00± Rt.	4' from Rt. E.P.	100'	44
Sec. E Sta. 12+00 to Sta. 12+50 Rt. Lane			
Bridge #4 Sta. 15+00± Rt. to Sta. 15+20± Rt.	7.5' from Rt. E.P.	20'	17
Sec. F Sta. 8+40 to Sta. 9+25 Rt. Lane			
Honomaele Br. Sta. 14+00± Lt. to Sta. 14+15± Lt.	3' from Lt. E.P.	15'	5
DELETED			
Oilowai Bridge Sta. 5+00± Lt. to Sta. 5+15± Lt.	3' from Lt. E.P.	15'	5
Mokulehua Br. Sta. 4+00± Lt. to Sta. 4+65± Lt.	5' from Lt. E.P.	65'	36
Mokulehua Br. Sta. 5+00± to Sta. 5+30±	13' entire pav't	30'	43

(NOT IN CONTRACT)

GUARDRAIL SCHEDULE
ADJACENT TO LEFT EDGE OF ROADWAY

SECTION	STATION	APPROX. TOTAL LENGTH	END TREATMENT
A	Kaeleku Sta. -0+20± to Sta. 0+08±	75' 80'	BCT
	Kaeleku Sta. 0+08± to Sta. 2+08±		BCT
	Kaeleku Sta. 2+08± to Sta. 3+40±	43.5' 59'	10:1 Flare w/Anchor Block
	Kaeleku Sta. 3+40± to Sta. 0+05±		Connection to Bridge Railing
B	Conc. Br. #1 Sta. 0+05± to Sta. 0+35±	43.5' 59'	Connection to Bridge Railing
	Conc. Br. #1 Sta. 0+35± to Sta. 7+50±		10:1 Flare w/Anchor Block
	Conc. Br. #1 Sta. 7+50± to Sta. 9+08±	124.5' 150'	10:1 Flare w/Anchor Block
	Conc. Br. #1 Sta. 9+08± to Sta. 15+30±		10:1 Flare w/Anchor Block
C	Conc. Br. #1 Sta. 15+30± to Sta. 15+50±	43.5' 59'	10:1 Flare w/Anchor Block
	Conc. Br. #1 Sta. 15+50± to Sta. 0+05±		Connection to Bridge Railing
	Conc. Br. #2 Sta. 0+05± to Sta. 0+08±	6' 55'	Connection to Bridge Railing
	Conc. Br. #2 Sta. 0+08± to Sta. 5+05±		BCT
D	Conc. Br. #2 Sta. 5+05± to Sta. 5+24±	62.5' 59'	10:1 Flare w/Anchor Block
	Conc. Br. #2 Sta. 5+24± to Sta. 5+55±		10:1 Flare w/Anchor Block
	Conc. Br. #3 Sta. 0+05± to Sta. 0+48±	43.5' 59'	Connection to Bridge Railing
	Conc. Br. #3 Sta. 0+48± to Sta. 5+20±		10:1 Flare w/Anchor Block
E	Conc. Br. #3 Sta. 5+20± to Sta. 5+80±	75.5' 60'	10:1 Flare w/Anchor Block
	Conc. Br. #3 Sta. 5+80± to Sta. 11+75±		10:1 Flare w/Anchor Block
	Conc. Br. #3 Sta. 11+75± to Sta. 12+25±	31' 50'	10:1 Flare w/Anchor Block
	Conc. Br. #3 Sta. 12+25± to Sta. 0+05±		Connection to Bridge Railing
F	Conc. Br. #4 Sta. 0+05± to Sta. 0+35±	31' 50'	Connection to Bridge Railing
	Conc. Br. #4 Sta. 0+35± to Sta. 5+20±		10:1 Flare w/Anchor Block
	Conc. Br. #4 Sta. 5+20± to Sta. 6+20±	50' 60'	10:1 Flare w/Anchor Block
	Conc. Br. #4 Sta. 6+20± to Sta. 2+40±		10:1 Flare w/Anchor Block
G	Honomaele Br. Sta. 2+40± to Sta. 0+05±	50' 65'	10:1 Flare w/Anchor Block
	Honomaele Br. Sta. 0+05± to Sta. 17+95±		10:1 Flare w/Anchor Block
	Honomaele Br. Sta. 17+95± to Sta. 18+45±	68.5' 59'	10:1 Flare w/Anchor Block
	Honomaele Br. Sta. 18+45± to Sta. 0+05±		Connection to Bridge Railing

(NOT IN CONTRACT)

GUARDRAIL SCHEDULE
ADJACENT TO RIGHT EDGE OF ROADWAY

SECTION	STATION	APPROX. TOTAL LENGTH	END TREATMENT
A	Kaeleku Sta. -0+20± to Sta. 0+08±	75' 80'	BCT
	Kaeleku Sta. 0+08± to Sta. 2+08±		BCT
	Kaeleku Sta. 2+08± to Sta. 3+40±	43.5' 59'	10:1 Flare w/Anchor Block
	Kaeleku Sta. 3+40± to Sta. 0+05±		Connection to Bridge Railing
B	Conc. Br. #1 Sta. 0+05± to Sta. 0+35±	43.5' 59'	Connection to Bridge Railing
	Conc. Br. #1 Sta. 0+35± to Sta. 7+50±		10:1 Flare w/Anchor Block
	Conc. Br. #1 Sta. 7+50± to Sta. 9+08±	124.5' 150'	10:1 Flare w/Anchor Block
	Conc. Br. #1 Sta. 9+08± to Sta. 15+30±		10:1 Flare w/Anchor Block
C	Conc. Br. #1 Sta. 15+30± to Sta. 15+50±	43.5' 59'	10:1 Flare w/Anchor Block
	Conc. Br. #1 Sta. 15+50± to Sta. 0+05±		Connection to Bridge Railing
	Conc. Br. #2 Sta. 0+05± to Sta. 0+08±	6' 55'	Connection to Bridge Railing
	Conc. Br. #2 Sta. 0+08± to Sta. 5+05±		BCT
D	Conc. Br. #2 Sta. 5+05± to Sta. 5+24±	62.5' 59'	10:1 Flare w/Anchor Block
	Conc. Br. #2 Sta. 5+24± to Sta. 5+55±		10:1 Flare w/Anchor Block
	Conc. Br. #3 Sta. 0+05± to Sta. 0+48±	43.5' 59'	Connection to Bridge Railing
	Conc. Br. #3 Sta. 0+48± to Sta. 5+20±		10:1 Flare w/Anchor Block
E	Conc. Br. #3 Sta. 5+20± to Sta. 5+80±	75.5' 60'	10:1 Flare w/Anchor Block
	Conc. Br. #3 Sta. 5+80± to Sta. 11+75±		10:1 Flare w/Anchor Block
	Conc. Br. #3 Sta. 11+75± to Sta. 12+25±	31' 50'	10:1 Flare w/Anchor Block
	Conc. Br. #3 Sta. 12+25± to Sta. 0+05±		Connection to Bridge Railing
F	Conc. Br. #4 Sta. 0+05± to Sta. 0+35±	31' 50'	Connection to Bridge Railing
	Conc. Br. #4 Sta. 0+35± to Sta. 5+20±		10:1 Flare w/Anchor Block
	Conc. Br. #4 Sta. 5+20± to Sta. 6+20±	50' 60'	10:1 Flare w/Anchor Block
	Conc. Br. #4 Sta. 6+20± to Sta. 2+40±		10:1 Flare w/Anchor Block
G	Honomaele Br. Sta. 2+40± to Sta. 0+05±	50' 65'	10:1 Flare w/Anchor Block
	Honomaele Br. Sta. 0+05± to Sta. 17+95±		10:1 Flare w/Anchor Block
	Honomaele Br. Sta. 17+95± to Sta. 18+45±	68.5' 59'	10:1 Flare w/Anchor Block
	Honomaele Br. Sta. 18+45± to Sta. 0+05±		Connection to Bridge Railing

(NOT IN CONTRACT)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
RESURFACING, PAV'T. RECONSTRUCTION
AND GUARDRAIL SCHEDULES
HANA HWY IMPROVEMENTS
Hana towards Wailua, Phase I
Project No. 360B-01-80
Date: May, 1980
SHEET NO. 2 OF 3 SHEETS

7/22/80 Revised Pavement Resurfacing
Schedule & Guardrail Schedule
DATE REVISION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360B-01-80	1980	5	28

TRAFFIC SIGNS, MARKERS, & PAVEMENT STRIPING & MARKERS
SCHEDULE

TYPE	DESCRIPTION	LOCATION								TOTAL
		SECTION	A	B	C	D	E	F	G	
		KAELEKU STA. -0+50 TO 3+45								
		CONC. BR. #1 STA. 0+00 TO 15+85								
		CONC. BR. #2 STA. 0+00 TO 5+60								
		CONC. BR. #3 STA. 0+00 TO 12+30								
		CONC. BR. #4 STA. 0+00 TO 16+00								
		HONOMAELE BR. STA. 0+00 TO 18+50								
		OLOWAI BR. STA. 0+00 TO 8+00								
		MOKULEHUA BR. STA. 0+00 TO 2+50								
R1-2	Yield w/Post	1	4	2	4	2	2	1		16
W1-5(R)	W/Post	1								1
W3-2a	Yield Ahead w/Post	1	4	2	4	2	2	1		16
W5-1	Road Narrows w/Post		2		2		2	1		6
W5-3	One Lane Bridge			X	X					2
W5-3	One Lane Bridge w/Post	1	4	2	4	2	2	1		14
W13-1(10)	10 MPH	2	4	2	4	2	2	2		18
W13-1(15)	15 MPH	X								X
W14-3	No Passing Zone			X	X					2
W14-3	No Passing Zone w/Post	X	4	X	4	2	4	1		16
R5P-1	To Oncoming Traffic	1	4	X	4	X	2	1		8
R12-6	All Bridge Weight Limit 10 Tons (C.C.O.#5)	1								1
W1-9	Narrow Winding Road Next 30 Miles (C.C.O.#5)	1								1
D10-2(24)	Mile 24				1					1
D10-2(24)	Mile 24 w/Post				1					1
D10-7(360)	360 (Hwy. Route Number Plate)				2					2
	Type II Object Marker		4		2	X	4	2		10
RM-1	Reflector Marker (White) w/Post	6	50	10	42	76	84	34		302
RM-3	Reflector Marker (Yellow)	5	8	4	8	4	4	2		32
RM-3	Reflector Marker (Yellow) w/Post	14	26	20	21	18	22	8		120
RM-4(R)	Reflector Marker (Yellow & Black) w/Post	1	2	2	2	2	2	1		12
RM-4(L)	Reflector Marker (Yellow & Black) w/Post	1	2	2	2	2	2	1		12
	Double 4" Yellow Pav't. Striping	600	1200	860	1250	800	1458	808		7,021
	Single 4" Yellow Pav't. Striping	250	800	460	850	400	1,050	400		4,160
	8" White Edge Stripe	35'	585'		780'	1,100'	700'	350		3,010'
	4" White Edge Stripe	497	1,231	127	483	2,214	2,747	1,107		8,406
	Type "D" Pav't. Marker	8	38	13	20	37	44	18		187
	12" White Stop Bars	9	36	15	36	18	18	9		144

GENERAL NOTES

- The stationline of the existing roadway is shown on the plans to designate approximate locations of work to be done and determine approximate quantities.
- The Contractor's attention is directed to Subsection 107.13 Public Convenience and Safety and Subsection 107.14 Barricades and Warning Signs of the Special Provisions.
- The Contractor shall revegetate all grubbed, excavated, shaped and bared surfaces with ground cover in kind, as directed by the Engineer, and shall maintain the vegetation for the duration of the project. This work shall commence as soon as work is completed on the exposed surfaces. No payment will be made for this work and shall be considered incidental to various contract items.
- Any fences, mailboxes or other public or private property adjacent to the roadway that is disturbed, removed or damaged by the Contractor during his construction operations shall be replaced by the Contractor, at his expense, as directed by the Engineer.
- Construction of adjacent driveway approaches shall be as shown on the plans and/or as directed by the Engineer.
- Reconstructed Pavement shall be paid under the following contract items: Roadway Excavation, Aggregate Base Course and Asphalt Concrete Pavement, Mix I.
- Dressing at shoulder areas shall be with material approved by the Engineer. The shoulders shall be cut or filled, graded, watered and rolled as directed by the Engineer. Payment incidental to Roadway Excavation.
- All holes, cracks and large depressions on the existing pavement that will not be reconstructed shall be filled and compacted with A.C. Pavement, Mix I, prior to resurfacing. Payment shall be incidental to A.C. Pavement, Mix I.
- The exact location and limits of the existing stone wall surfaces to be shotcreted shall be determined by the Engineer in the field. Prior to gunning the shotcrete, the surfaces of the stone walls shall be cleaned of all dirt, vegetative growth and other debris as directed by the Engineer. No payment will be made for cleaning the surfaces but shall be considered incidental to shotcrete. After gunning the shotcrete on the top of the stone wall, the shotcrete shall be trowelled as directed by the Engineer. No trowelling is required for shotcreting on face of the stone wall.
- All existing signs, reflector markers and mile post marker assemblies within the project limits shall be removed by the Contractor. No payment will be made for this work and shall be considered incidental to new signs, reflector markers and mile post marker assemblies.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
TRAFFIC SIGNS & MARKINGS
SCHEDULE & GENERAL NOTES
HANA HWY. IMPROVEMENTS
Hana towards Wailua, Phase I
Project No. 360B-01-80
Date: June, 1980

7/22/80	Revised Traffic Signs, Markers and Pavement Striping & Markers Schedule
DATE	REVISION