

GENERAL NOTES

- Two sets of references are used on these plans: (1) The Traverse Line was used for the topographic survey (2) The Centerline (4) of the existing roadway was established by scaling the plans of the existing roadway. This line 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 property 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.
- Paved Gutter and Reconstructed Pavement shall be paid under the following contract items: Roadway Excavation, Aggregate Subbase Course, Aggregate Base Course and Asphalt Concrete Pavement, Mix I.
- Graded Swale shall be constructed according to the plans and/or as directed by the Engineer and the limits shall be set and determined by the Engineer. The payment will be made under Roadway Excavation by the square yard.
- The exact location of the concrete spillway shall be determined in the field by the Engineer.
- The limits of the removal of the earth berms shall be determined in the field by the Engineer. Payment will be made under Roadway Excavation by the square yard.
- Longitudinal Filter Fabric French Drain shall be constructed along the mauka side of the roadway and Traverse Filter Fabric French Drains shall be constructed at all sag points as shown on the plans or as directed by the Engineer. The maximum spacing of nonperforated drain pipes shall be 200 feet.
- 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.
- Removal of existing guardrails and guardrail posts that are not to remain shall be incidental to new guardrail. Existing Guardrail to remain shall be reconstructed as follows and/or as directed by the Engineer: a) All existing wooden spacer blocks shall be replaced with new metal spacer blocks b) New metal posts with metal spacer blocks shall be installed midway between the existing concrete posts. No payment will be made for reconstructing the existing guardrails to remain and shall be considered incidental to new guardrail.
- The limits and quantities of Guardrails, Filter Fabric French Drain and Reconstructed Pavement are only approximate. The exact limits and quantities will be determined in the field by the Engineer.

GRADED SWALE, PAVED GUTTER & CONCRETE SPILLWAY SCHEDULE

APPROX. LIMITS & STA. TO & STA.	TYPE	APPROX. LENGTH
0+00± to 5+00±	Graded Swale	500'
	Transition	50'
5+00± to 11+30±	Paved Gutter	530'580'
11+30± to 11+70±	Conc. Spillway	25' 50'
11+70± to 12+15±	Conc. Spillway	30' 45'
12+15± to 16+00±	Paved Gutter	385'
16+00± to 27+00±	Graded Swale	1,030'
	Transition	50'
27+00± to 30+75±	Paved Gutter	155' 925'
	Transition	50'
30+75± to 31+25±	Paved Gutter	50'
31+25± to 31+75±	Graded Swale	50'
32+00± to 36+50±	Paved Gutter	450'
	Transition	50'
37+00± to 37+75±	Graded Swale	75'
	Transition	25'
37+75± to 38+25±	Paved Gutter	50' 25'
	Transition	50'
38+75± to 42+50±	Graded Swale	375'
	Transition	50'
43+00± to 46+85±	Paved Gutter	300' 385'
46+85± to 47+70±	Conc. Spillway	17' 25'
47+30± to 47+55±	Conc. Spillway	20' 40'
47+55± to 49+00±	Paved Gutter	150' 445'
49+10± to 49+25±	Graded Swale	15'
	Transition	25'
49+75± to 50+50±	Paved Gutter	75'
	Transition	50'
51+00± to 59+00±	Graded Swale	800'
	Transition	50'
59+50± to 64+55±	Paved Gutter	505'
64+55± to 65+05±	Conc. Spillway	12' 60'
65+05± to 66+00±	Conc. Spillway	14' 50'
66+00± to 70+00±	Paved Gutter	275' 400'
70+00± to 76+70±	Conc. Spillway	24' 35'
76+70± to 82+80±	Paved Gutter	225' 610'
82+80± to 83+00±	Graded Swale	20'
	Transition	25'
83+25± to 86+50±	Paved Gutter	325'

ON RIGHT SIDE OF PAVEMENT

ON LEFT SIDE OF PAVEMENT

0+00± to 2+80±	Graded Swale	280'
31+00± to 32+00±	Graded Swale	100'
36+50± to 38+50±	Graded Swale	200'
49+00± to 49+75±	Graded Swale	75'
82+80± to 84+50±	Graded Swale	170'

(NOT IN CONTRACT)

(NOT IN CONTRACT)

GUARDRAIL SCHEDULE

& STA.	APPROX. LENGTH	END CONDITION
5+00± Lt. to 15+25± Lt.	5+00± Lt. to 14+90± Lt.	Type 'F' Flare
11+72± Rt. to 12+22± Rt.	11+45± Rt. to 12+10± Rt.	Type 'C' Flare
16+25± Lt. to 19+68± Lt.	16+25± Lt. to 19+25± Lt.	Type 'F' Flare
16+30± Rt. to 17+05± Rt.	16+25± Rt. to 17+05± Rt.	Connect to Exist. Guardrail
17+05± Rt. to 19+25± Rt.	17+05± Rt. to 19+15± Rt.	Type 'C' Flare
19+25± Rt. to 19+60± Rt.	19+15± Rt. to 19+45± Rt.	Type 'F' Flare
21+15± Rt. to 21+52± Rt.	20+30± Rt. to 20+80± Rt.	Connect to Exist. Guardrail
25+23± Lt. to 25+48± Lt.	25+10± Lt. to 25+50± Lt.	Type 'F' Flare
42+02± Lt. to 49+80± Lt.	42+00± Lt. to 49+75± Lt.	Type 'A' Flare
46+80± Rt. to 47+70± Rt.	46+75± Rt. to 47+50± Rt.	Type 'D' Flare
51+60± Lt. to 51+95± Lt.	51+30± Lt. to 52+10± Lt.	Type 'C' Flare
53+30± Lt. to 55+80± Lt.	53+35± Lt. to 54+55± Lt.	Connect to Exist. Guardrail
58+00± Lt. to 60+60± Lt.	58+00± Lt. to 60+50± Lt.	Type 'A' Flare
61+40± Lt. to 66+23± Lt.	60+75± Lt. to 66+00± Lt.	Type 'D' Flare
64+70± Rt. to 65+80± Rt.	64+70± Rt. to 65+80± Rt.	Type 'C' Flare
68+58± Lt. to 72+50± Lt.	68+50± Lt. to 77+50± Lt.	Breakaway Cable Terminal (BCT)
	75+70± Rt. to 76+70± Rt.	Type 'D' Flare
		Type 'A' Flare
		Type 'C' Flare
		Type 'F' Flare

TOTAL LENGTH = 4,580' 390'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360A-01-80	1980	3	33

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

GENERAL NOTES & SCHEDULES

HANA HIGHWAY IMPROVEMENTS
Huele Towards Wailua, Phase I
PROJECT NO. 360A-01-80
Date: June, 1979

SHEET No. 1 OF 2 SHEETS

DATE
DRAWN BY
DESIGNED BY
NOTED BY
CHECKED BY
ORIGINAL
PLAN
BOOK
No.

PAVEMENT WIDENING AND PAVED GUTTER WIDTH SCHEDULE																	
STA.	EDGE OF SHLDR. TO EDGE OF SHLDR. WIDTH(W)	APPROXIMATE WIDENING LEFT	EXISTING PAVEMENT WIDTH	APPROXIMATE WIDENING RIGHT	PAVED GUTTER WIDTH	STA.	EDGE OF SHLDR. TO EDGE OF SHLDR. WIDTH(W)	APPROXIMATE WIDENING LEFT	EXISTING PAVEMENT WIDTH	APPROXIMATE WIDENING RIGHT	PAVED GUTTER WIDTH	STA.	EDGE OF SHLDR. TO EDGE OF SHLDR. WIDTH(W)	APPROXIMATE WIDENING LEFT	EXISTING PAVEMENT WIDTH	APPROXIMATE WIDENING RIGHT	PAVED GUTTER WIDTH
0+00	21	0	21	0		27+00	22	0	16	6		53+00	22	0	20	2	
+50	22	2	18	2		+50	22	2	13	7	1	+50	22	0	20	2	
1+00	22	3	16	3		28+00	22	2	14	6	1	54+00	22	0	19	3	
+50	22	4	14	4		+50	22	2	15	5	1	+50	22	0	19	3	
2+00	22	4	13	5		29+00	22	4	13	5	1	55+00	24	1	20	3	
+50	22	4	13	5		+50	20	3	13	4	0	+50	26	2	20	4	
3+00	24	4	15	5		30+00	22	5	15	2	1	56+00	26	2	20	4	
+50	26	4	19	3		+50	22	3	17	2	1	+50	26	2	20	4	
4+00	26	4	19	3		31+00	22	2	15	5	1	57+00	26	2	20	4	
+50	26	4	20	2		+50	22	3	16	3		+50	26	2	20	4	
5+00	24	4	16	4		32+00	22	4	15	3	1	58+00	26	2	20	4	
+50	22	4	14	4	0	+50	22	3	18	1	1	+50	24	1	20	3	
6+00	20	4	14	2	0	33+00	22	3	18	1	1	59+00	22	2	16	4	
+50	22	7	12	3	1	+50	22	3	15	4	1	+50	22	3	14	5	1
7+00	22	4	16	2	2	34+00	22	2	14	6	1	60+00	22	4	14	4	1
+50	22	4	15	3	2	+50	22	3	13	6	1	+50	22	6	12	4	1
8+00	22	4	14	4	1	35+00	22	4	13	5	1	61+00	22	6	12	4	1
+50	22	5	12	5	1	+50	22	5	13	4	1	+50	22	4	14	4	1
9+00	22	6	12	4	1	36+00	22	7	13	2	1	62+00	22	2	14	6	1
+50	22	7	12	3	1	+50	24	8	13	3	1	+50	22	3	13	6	1
10+00	22	7	12	3	2	37+00	26	7	14	5		63+00	22	5	12	5	1
+50	24	7	12	5	3	+50	26	6	14	6		+50	22	5	12	5	1
11+00	24	3	15	6	3	+75	26	5	14	7		64+00	22	4	13	5	1
+50	24	2	14	8	3	38+00	25	7	13	5	1	+25	22	4	13	5	3
12+00	24	1	14	9	3	+25	24	8	13	3	1	+50	25	3	13	9	3
+50	24	7	13	4	2	+50	24	6	15	3	3	+75	24	2	13	9	3
13+00	22	1	13	8	1	39+00	24	3	18	3		65+00	19	3	13	3	3
+50	22	2	14	6	1	+50	26	4	20	2		+25	18	3	13	2	
14+00	22	7	13	2	1	40+00	26	4	20	2		+50	18	3	13	2	
+50	22	6	14	2	1	+50	26	4	20	2		+75	20	4	13	3	
15+00	22	6	15	1	1	41+00	26	4	20	2		66+00	22	4	13	5	3
+50	22	5	15	2	1	+50	26	4	20	2		+50	22	5	12	5	1
16+00	22	3	16	3	2	42+00	26	4	20	2		67+00	22	6	12	4	1
+50	22	2	16	4		+50	24	2	19	3		+50	22	5	14	3	1
17+00	22	2	15	5		43+00	22	3	15	4	1	68+00	22	5	17	0	1
+50	22	2	16	4		+50	22	6	12	4	1	+50	22	4	15	3	1
18+00	22	1	18	3		44+00	22	7	11	4	1	69+00	22	2	13	7	1
+50	22	0	20	2		+50	22	4	13	5	1	+50	22	2	13	7	1
19+00	22	0	20	2		45+00	22	4	13	5	1	70+00	22	3	13	6	1
+50	22	0	20	2		+50	22	0	15	7	1	+50	22	3	13	6	1
20+00	22	0	20	2		46+00	22	3	14	5	1	71+00	22	3	12	7	1
+50	22	0	20	2		+50	22	3	15	4	3	+50	22	3	12	7	1
21+00	22	0	20	2		47+00	24	7	15	2	3	72+00	22	4	13	5	1
+50	22	0	20	2		+50	24	8	14	2	3	+50	24	6	16	2	1
22+00	22	0	20	2		48+00	24	8	13	3	1	73+00	24	7	17	0	0
+50	22	0	20	2		+50	24	9	13	2	1	+50	24	6	16	2	1
23+00	22	0	20	2		49+00	24	6	13	5	1	74+00	22	4	14	4	1
+50	22	0	20	2		+50	24	7	12	5		+50	22	5	13	4	1
24+00	24	0	20	4		50+00	22	4	12	6	1	75+00	22	7	13	2	1
+50	26	0	19	7		+50	22	2	12	8	1	+50	24	9	14	1	2
25+00	26	0	19	7		51+00	22	0	20	2		76+00	24	11	13	0	2
+50	26	0	20	6		+50	22	0	20	2		+50	24	5	13	6	
26+00	26	0	20	6		52+00	22	0	20	2		+75	24	1	11	12	3
+50	24	0	20	4		+50	22	0	20	2		77+00	23	2	11	10	3

* NOTE: APPROXIMATE WIDENING RIGHT EXCLUDES PAVED GUTTER WIDTH

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360A-01-80	1980	4	33

PAVEMENT RECONSTRUCTION SCHEDULE			
APPROX. LIMITS STA. TO STA.	APPROX. WIDTH	APPROX. LENGTH	APPROX. AREA SQ. YD.
5+00± to 8+00±	Full Width	300'	478
10+50± to 13+00±	Full Width	250'	381
16+90± to 18+00±	Full Width	110'	197
18+00± to 18+40±	4' From Exist. Rt. E.P.	40'	18
18+40± to 20+50±	Full Width	210'	467
27+00± to 27+60±	4' From Exist. Rt. E.P.	60'	27
29+10± to 31+60±	Full Width	250'	414
31+80± to 32+80±	10' From Exist. Rt. E.P.	100'	111
33+00± to 34+30±	8' From Exist. Rt. E.P.	130'	116
34+50± to 36+00±	8' From Exist. Rt. E.P.	150'	133
36+15± to 37+50±	Full Width	135'	203
44+00± to 46+05±	8' From Exist. Rt. E.P.	205'	182
49+10± to 50+60±	Full Width	150'	203
51+15± to 51+50±	Full Width	35'	78
59+25± to 60+75±	Full Width	150'	224
61+50± to 62+50±	Full Width	100'	153
67+50± to 68+50±	8' From Exist. Rt. E.P.	100'	89
70+00± to 75+50±	Full Width	550'	847
76+50± to 76+60±	6' From Exist. Rt. E.P.	10'	7
77+75± to 79+25±	Full Width	150'	234
82+75± to 85+85±	Full Width	310'	448

TOTAL = 3,474 SQ. YDS.

For revised "PAVEMENT RECONSTRUCTION SCHEDULE" see Plan Sheet No. 8.

7/22/80	Revised Pavement Widening and Paved Gutter Schedule & Pavement Reconstruction Sched.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORT FACILITIES DIVISION

SCHEDULES

HANA HIGHWAY IMPROVEMENTS
Huelo Towards Wailua, Phase I
PROJECT NO. 360A-01-80
Date: June, 1979

SHEET No. 2 OF 2 SHEETS