

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(17)	2000	41	72

BORING NO. B1		DRIVING WT. 140 lb.		DATE OF DRILLING 12-2-92	
SURFACE ELEV. 513±		DROP 30 in.		WATER LEVEL None	
DEPTH	GRAIN SAMPLE	BLOWS PER FOOT	DRY DENSITY (PCF)	MOIST. CONT. (%)	DESCRIPTION
0					Silty CLAY (MH) - Brown, moist, stiff.
		44	75	38	
		51	78	39	
5					
		79	83	40	
10					
		52	82	41	
15					
		30	74	44	Highly weathered rock fragments at 18 feet.
20					End boring at 19 feet.
					* Elevations based on Topographic Map provided by Kwock Associates, Inc.
25					
30					

BORING NO. B2		DRIVING WT. 140 lb.		DATE OF DRILLING 12-15-92	
SURFACE ELEV. 497±		DROP 30 in.		WATER LEVEL @ 14.1 ft.	
DEPTH	GRAIN SAMPLE	BLOWS PER FOOT	DRY DENSITY (PCF)	MOIST. CONT. (%)	DESCRIPTION
0					Silty CLAY (MH) - Mottled brown, moist, stiff.
		22	76	48	
5					
		34	73	46	Highly weathered gravel from 6 feet.
10					Boulders from 9 feet.
					Begin NX coring from 10.5 feet.
					78% Recovery from 10.5 to 13.5 feet.
					RQD = 78%
					70% Recovery from 13.5 to 18.5 feet.
					RQD = 64%
15					End NX coring at 18.5 feet.
					HIGHLY WEATHERED BASALT (WH-WC) - Yellowish brown, dense, sandy.
20		76	74	51	
25		59	75	51	
30		74	71	54	
35		77	73	46	
40		56	62	69	
45		77	71	48	
50		97	71	51	
55					
60					End boring at 50.5 feet.

BORING NO. B3		DRIVING WT. 140 lb.		DATE OF DRILLING 1-4-93	
SURFACE ELEV.		DROP 30 in.		WATER LEVEL @ 4.5 ft.	
DEPTH	GRAIN SAMPLE	BLOWS PER FOOT	DRY DENSITY (PCF)	MOIST. CONT. (%)	DESCRIPTION
0					Silty CLAY (MH) - Mottled brown moist, stiff.
		20	70	46	HIGHLY WEATHERED BASALT (WH-WC) - Mottled yellowish brown, moist, medium dense, sandy.
5		27	71	48	
10		25	68	58	Medium dense to dense from 9 feet.
15		31	69	57	
20		49	67	58	
25		46	69	58	
30		49	73	43	
35		46	74	42	
					End boring at 35.5 feet.

BORING NO. B4		DRIVING WT. 140 lb.		DATE OF DRILLING 12-15-92	
SURFACE ELEV. 475±		DROP 30 in.		WATER LEVEL @ 5.1 ft.	
DEPTH	GRAIN SAMPLE	BLOWS PER FOOT	DRY DENSITY (PCF)	MOIST. CONT. (%)	DESCRIPTION
0					Silty CLAY (MH) - Mottled brown, moist, stiff, with gravel and cobbles.
		12/No			Cobbles and boulders from 3 feet.
		29/6"			Begin NX coring from 4.5 feet.
		12/No			70% Recovery from 4.5 to 9.5 feet.
					RQD = 50%
10					100% Recovery from 9.5 to 11 feet.
					RQD = 0%
					End NX coring at 11 feet.
15		28	68	59	Begin NX coring from 13 feet.
					100% Recovery from 13 to 14 feet.
					RQD = 0%
					End NX coring at 14 feet.
20		69	78	42	HIGHLY WEATHERED BASALT (WH-WC) - Mottled yellowish brown, medium dense to dense, sandy.
25		47	71	50	Dense from 18 feet.
30		53	71	48	
35		52	83	39	
					End boring at 35.5 feet.

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

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

BORING LOGS

KAUMUALII HIGHWAY INTERSECTION  
IMPROVEMENTS AT KOLOA ROAD

FED. AID PROJ. No. STP-050-1(17)  
DATE: 10/08/99

SHEET No. 41 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(17)	2000	42	72

BORING NO. B5      DRIVING WT. 140 lb.      DATE OF DRILLING 12-3-92  
SURFACE ELEV. 492±      DROP 30 in.      WATER LEVEL @ 23.5 ft.

DEPTH	GRAPH	SAMPLE	BLOWS PER FOOT	DRY DENSITY (PCF)	MOIST. CONT. (%)	DESCRIPTION
0						Silty CLAY (MH) - Mottled brown moist, stiff, with gravel and cobbles.
			13	62	39	
5			15	83	36	
10			17	71	40	Mottled orange brown color with completely weathered rock fragments and sandy from 9 feet.
15			15	71	49	
20			11/6" 50/4"	80	43	Cobbles and boulders from 20.5 feet.
25			25/No Penetration			Begin NX coring from 26.5 feet. 58% Recovery from 26.5 to 31.5 feet. RQD = 42%
30						HIGHLY WEATHERED BASALT (WH-WC) - Mottled yellowish brown, medium dense to dense, sandy.
35						86% Recovery from 31.5 to 36.5 feet. RQD = 7% Mottled light orange brown color from 33 feet.
40			20		50	End NX coring at 36.5 feet. Dense from 36.5 feet.
			53	73	46	
45			53	73	44	
						End boring at 45.5 feet.

BORING NO. B6      DRIVING WT. 140 lb.      DATE OF DRILLING 12-1-92  
SURFACE ELEV. 483±      DROP 30 in.      WATER LEVEL None

DEPTH	GRAPH	SAMPLE	BLOWS PER FOOT	DRY DENSITY (PCF)	MOIST. CONT. (%)	DESCRIPTION
0			27	70	45	Silty CLAY (MH) - Mottled brown, moist, stiff with highly weathered rock fragments.
			13/6" 50/5"	72	46	
5			15/6" 50/3"	76	44	Cobbles at 4 and 5.5 feet.
10						Cobbles and boulders from 7.5 feet.
15						Begin NX coring from 11.5 feet. 67% Recovery from 11.5 to 14.5 feet. RQD = 30%
						58% Recovery from 14.5 to 19.5 feet. RQD = 14%
20			16			Tip Recovery End NX coring at 19.5 feet.
						End boring at 21 feet.

BORING NO. B7      DRIVING WT. 140 lb.      DATE OF DRILLING 12-2-92  
SURFACE ELEV. 487±      DROP 30 in.      WATER LEVEL None

DEPTH	GRAPH	SAMPLE	BLOWS PER FOOT	DRY DENSITY (PCF)	MOIST. CONT. (%)	DESCRIPTION
0			20	70	45	Silty CLAY (MH) - Brown, moist, stiff.
			23	73	41	
5			45	75	42	
10			20	75	47	Mottled brown color with highly weathered rock fragments from 9 feet.
15			26/6" 50/4"	72	54	Cobbles and boulders from 13.5 feet. Boulder at 15.5 feet.
20						End boring at 17 feet.

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN	NO.
NOTE BOOK	

STATE OF HAWAII  
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HIGHWAYS DIVISION

BORING LOGS

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SHEET No. 6-2 OF 2 SHEETS