

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY- H-01-86	1987	46	115

BORING NOTES:

1. THE INFORMATION SHOWN IN THE BORING LOGS WERE OBTAINED FOR THE USE OF THE ENGINEER.
2. THE ENGINEER WILL NOT BE HELD RESPONSIBLE IF THE INFORMATION IS FOUND ERRONEOUS AND/OR DOES NOT INDICATE TRUE CONDITIONS.
3. NO GUARANTEE IS GIVEN AS TO THE CHARACTER OF THE MATERIAL ENCOUNTERED IN ANY BORING NOR IS ANY GUARANTEE GIVEN THAT THE BORING REPRESENTS THE TRUE CHARACTER OF THE MATERIAL WHICH WILL BE ENCOUNTERED DURING CONSTRUCTION.
4. THE INFORMATION FOR THE BORING LOGS WERE TAKEN FROM A GEOTECHNICAL ENGINEERING INVESTIGATION REPORT PREPARED FOR THE PROJECT BY DAMES & MOORE DATED FEBRUARY 22, 1986. THE CONTRACTOR SHALL REVIEW THE ABOVE REPORT AND DRAW HIS OWN CONCLUSIONS.

MOISTURE CONTENT IN %	DRY DENSITY IN PCF	BLOWS/FT. ON SAMPLER	CORE AND % RECOVERY	SAMPLES AND/OR CORES	DEPTH IN FEET	GRAPH SYMBOL	LETTER SYMBOL	DESCRIPTION
14	16	10			0	GP		REDDISH BROWN FINE TO MEDIUM GRAVELLY SAND, LOOSE TO MEDIUM DENSE, MOIST
16	13				5			
0	34				10	GP		REDDISH BROWN BASALT CLINKER GRAVEL AND BOULDERS, VERY DENSE, MOIST BORING COMPLETED AT 11.5 FEET ON 10-04-85 GROUNDWATER NOT ENCOUNTERED

MOISTURE CONTENT IN %	DRY DENSITY IN PCF	BLOWS/FT. ON SAMPLER	CORE AND % RECOVERY	SAMPLES AND/OR CORES	DEPTH IN FEET	GRAPH SYMBOL	LETTER SYMBOL	DESCRIPTION
		14			0	GP		BLACK FINE TO MEDIUM GRAVEL, LOOSE, MOIST, WITH SOME SAND
		14			5			MEDIUM DENSE BELOW 3.0 FEET
11	15				10			
								BORING COMPLETED AT 11.5 FEET ON 10-04-85 GROUNDWATER NOT ENCOUNTERED

MOISTURE CONTENT IN %	DRY DENSITY IN PCF	BLOWS/FT. ON SAMPLER	CORE AND % RECOVERY	SAMPLES AND/OR CORES	DEPTH IN FEET	GRAPH SYMBOL	LETTER SYMBOL	DESCRIPTION
31	56	7			0	GP		BROWN MEDIUM TO COARSE GRAVEL, MEDIUM DENSE, MOIST, WITH GRAVEL, SAND AND ASH
		7			5			FINE TO MEDIUM BELOW 3.5 FEET
								ASH GRADES OUT BELOW 7.0 FEET
16	13	11			10			
		12			15			
10	68	8			20			
					25			GRADING COARSE BELOW 25.5 FEET
								BORING COMPLETED AT 26.5 FEET ON 10-03-85 GROUNDWATER NOT ENCOUNTERED

MOISTURE CONTENT IN %	DRY DENSITY IN PCF	BLOWS/FT. ON SAMPLER	CORE AND % RECOVERY	SAMPLES AND/OR CORES	DEPTH IN FEET	GRAPH SYMBOL	LETTER SYMBOL	DESCRIPTION
		10			0	GP		BLACK COARSE GRAVEL, LOOSE MOIST
					5			MEDIUM TO COARSE BELOW 4.0 FEET
		10			10			FINE TO MEDIUM BELOW 6.5 FEET
14	12				10			
9	12				15			
								BORING COMPLETED AT 16.5 FEET ON 10-08-85 GROUNDWATER NOT ENCOUNTERED

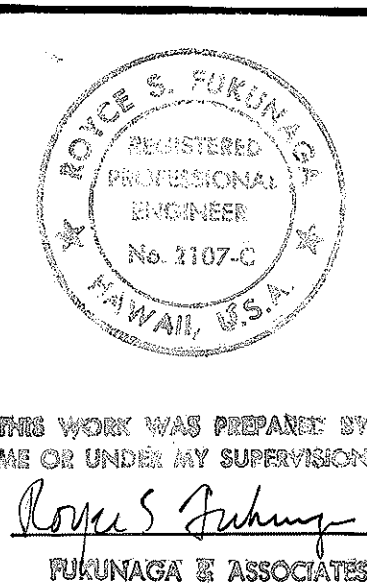
MOISTURE CONTENT IN %	DRY DENSITY IN PCF	BLOWS/FT. ON SAMPLER	CORE AND % RECOVERY	SAMPLES AND/OR CORES	DEPTH IN FEET	GRAPH SYMBOL	LETTER SYMBOL	DESCRIPTION
18	17	0			0	GP		REDDISH BROWN SANDY GRAVEL, LOOSE, MOIST, MEDIUM TO COARSE PARTICLES (FILL)
		0			5			
9	16	11			10	GP		REDDISH BROWN GRAVELLY SAND, MEDIUM DENSE, MOIST
		0			15			
9	0				20			
		6			25			
28	8				30			WET BELOW 16.0 FEET
								BORING COMPLETED AT 31.5 FEET ON 10-03-85 GROUNDWATER NOT ENCOUNTERED

MOISTURE CONTENT IN %	DRY DENSITY IN PCF	SAMPLES	DEPTH IN FEET	GRAPH SYMBOL	LETTER SYMBOL	DESCRIPTION
			0	GP		REDDISH BROWN SILTY GRAVELLY SAND, MEDIUM DENSE, MOIST
			5	GP		REDDISH BROWN SANDY GRAVEL, MEDIUM DENSE, MOIST
			10			
						TEST PIT COMPLETED TO 10.0 FEET ON 09-30-85 GROUNDWATER NOT ENCOUNTERED

MOISTURE CONTENT IN %	DRY DENSITY IN PCF	SAMPLES	DEPTH IN FEET	GRAPH SYMBOL	LETTER SYMBOL	DESCRIPTION
			0	GP		BROWN GRAVEL, MEDIUM DENSE MOIST
			5			
			10	GP		BLACK SAND, MEDIUM DENSE, MOIST
						TEST PIT COMPLETED TO 10.0 FEET ON 09-30-85 GROUNDWATER NOT ENCOUNTERED

MOISTURE CONTENT IN %	DRY DENSITY IN PCF	SAMPLES	DEPTH IN FEET	GRAPH SYMBOL	LETTER SYMBOL	DESCRIPTION
			0	GP		LIGHT GRAY SANDY GRAVEL, MEDIUM DENSE, MOIST
			5	GP		BLACK SAND, MEDIUM DENSE, MOIST, WITH SOME GRAVEL
			10			
						TEST PIT COMPLETED TO 10.3 FEET ON 09-30-85 GROUNDWATER NOT ENCOUNTERED

MOISTURE CONTENT IN %	DRY DENSITY IN PCF	SAMPLES	DEPTH IN FEET	GRAPH SYMBOL	LETTER SYMBOL	DESCRIPTION
			0	GP		LIGHT GRAY GRAVEL, MEDIUM DENSE, MOIST
						CONTAINS OCCASIONAL BOULDERS BELOW 2.0 FEET
						TEST PIT COMPLETED AT 8.5 FEET ON 09-30-85 GROUNDWATER NOT ENCOUNTERED



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING AND TEST PIT LOGS, AND NOTES

MAUNA KEA OBSERVATORY ACCESS ROAD
PHASE I
PROJECT NO. HWY- H-01-86