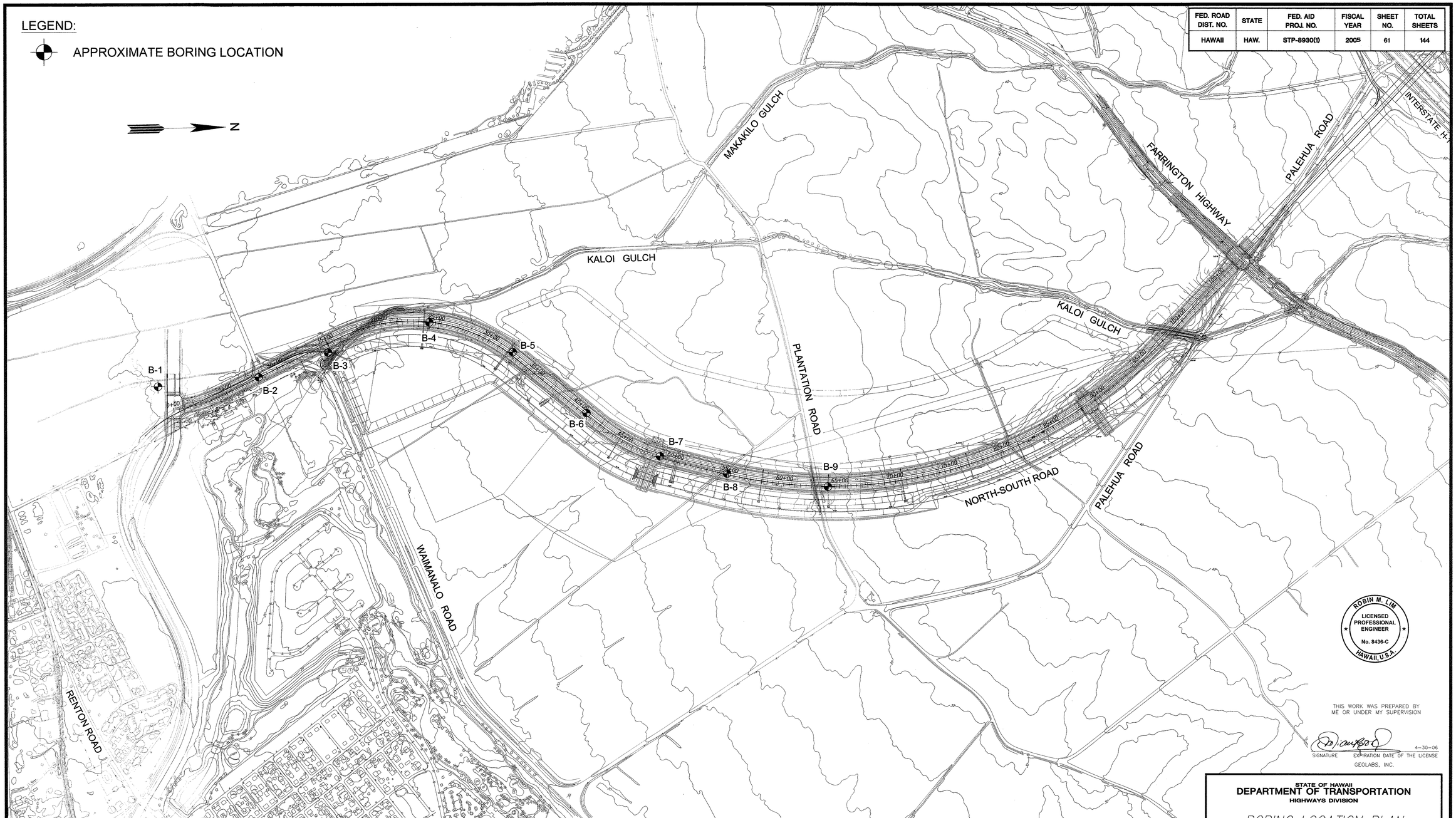
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(1)	2005	61	144

LEGEND:

APPROXIMATE BORING LOCATION



ROBIN M. LIM
LICENSED PROFESSIONAL ENGINEER
No. 8436-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SIGNATURE — 4-30-06 EXPIRATION DATE OF THE LICENSE

GEOLABS, INC.

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

Graphic Scale:

1" = 400' 400' 0 400' 800'

Scale in Feet

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOCATION PLAN

North-South Road
Phase 1A
F.A.I. Proj. No. STP-8930(1)

Scale: 1" = 400' Date: Dec. 22, 2004

SHEET No. G0.1 OF 7 SHEETS

REFERENCE: SITE PLAN DOWNLOADED FROM R.M. TOWILL CORPORATION FTP WEBSITE ON AUGUST 3, 2004.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(1)	2005	62	144

Boring Log Legend

UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)

MAJOR DIVISIONS			USCS	TYPICAL DESCRIPTIONS
COARSE-GRAINED SOILS	GRAVELS	CLEAN GRAVELS	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		LESS THAN 5% FINES	GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVELS WITH FINES	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
		MORE THAN 12% FINES	GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
MORE THAN 50% OF MATERIAL RETAINED ON NO. 200 SIEVE	SANDS	CLEAN SANDS	SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		LESS THAN 5% FINES	SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
	50% OR MORE OF COARSE FRACTION PASSING THROUGH NO. 4 SIEVE	SANDS WITH FINES	SM	SILTY SANDS, SAND-SILT MIXTURES
		MORE THAN 12% FINES	SC	CLAYEY SANDS, SAND-CLAY MIXTURES
FINE-GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50	ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
			OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
50% OR MORE OF MATERIAL PASSING THROUGH NO. 200 SIEVE	SILTS AND CLAYS	LIQUID LIMIT 50 OR MORE	MH	INORGANIC SILT, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
			CH	INORGANIC CLAYS OF HIGH PLASTICITY
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

LEGEND

	2-INCH O.D. STANDARD PENETRATION TEST	LL	LIQUID LIMIT
	3-INCH O.D. MODIFIED CALIFORNIA SAMPLE	PI	PLASTICITY INDEX
S	SHELBY TUBE SAMPLE	TV	TORVANE SHEAR (tsf)
G	GRAB SAMPLE	PEN	POCKET PENETROMETER (tsf)
	CORE SAMPLE	UC	UNCONFINED COMPRESSION (psi)
		▽	WATER LEVEL OBSERVED IN BORING

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

GEOTECHNICAL NOTES

1. A geotechnical engineering report entitled "Geotechnical Engineering Exploration, North-South Road, Phase 1A, F.A.I. Proj. No. STP-8930(1), Ewa, Oahu, Hawaii" dated September 10, 2004 has been prepared by Geolabs, Inc. A copy of the report is on file at the office of the Engineer for review by the Contractor.

2. For boring locations, see Sheet G0.1.

3. The information presented in the logs of borings depict the subsurface conditions encountered at that specified location and at the time of the field exploration only. Variations of subsoil conditions from those depicted in the logs of borings may occur between and beyond the borings.

4. The penetration resistance shown on the logs of borings indicate the number of blows required for the specific sampler type used. The blow counts may need to be factored to obtain the Standard Penetration Test (SPT) blow counts.

5. The data given is for general information only. Bidders shall examine the site and the boring data and draw their own conclusions therefrom as to the character of materials to be encountered. The Engineer will not assume responsibility for variations of subsoil quality or conditions other than at the boring locations shown and at the time the borings were taken.

ROBIN M. LIM
LICENSED PROFESSIONAL ENGINEER
No. 8436-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SIGNATURE 4-30-06 EXPIRATION DATE OF THE LICENSE

GEOLABS, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOG LEGEND AND NOTES

North-South Road
Phase 1A
F.A.I. Proj. No. STP-8930(1)

Scale: NTS Date: Dec. 22, 2004

SHEET No. G1.1 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(1)	2005	63	144

GEOLABS, INC.
Geotechnical Engineering

NORTH-SOUTH ROAD, PHASE 1A
F.A.I. PROJ. NO. STP-8930(1)
EWA, OAHU, HAWAII

Log of Boring 1

Approximate Ground Surface Elevation (feet MSL): 52.5 *

Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)	Depth (feet)	Sample Graphic	USCS	Description
	14	101			59	>4.5			CL	Brown SILTY CLAY, hard, damp to moist (alluvium)
	19				26					grades with black mottling
LL=48 PI=29	17	106			68	>4.5	5			
	15	106			82	>4.5	10		SW	White CORALLINE GRAVELLY SAND with silt, dense, moist (coral formation)
	15				60		15			grades to white and orange
					20/.0' Ref.		20			Boring terminated at 20 feet
							25			* Elevations estimated from Plan and Profile transmitted by R.M. Towill Corporation on September 5, 1997.
							30			
							35			
							40			
							45			
							50			
							55			

Date Started:	October 1, 1997	Water Level: ▽	Not Encountered
Date Completed:	October 1, 1997		
Logged By:	S. Tanaka	Drill Rig:	CME-75
Total Depth:	20 feet	Drilling Method:	4" Auger
Work Order:	3860-20	Driving Energy:	140 lb. wt., 30 in. drop

BORING_LOG_DOT 3860-20.GPJ GEOLABS.GDT 8/05/04

GEOLABS, INC.
Geotechnical Engineering

NORTH-SOUTH ROAD, PHASE 1A
F.A.I. PROJ. NO. STP-8930(1)
EWA, OAHU, HAWAII

Log of Boring 2

Approximate Ground Surface Elevation (feet MSL): 60.7 *

Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)	Depth (feet)	Sample Graphic	USCS	Description
									SW	1-inch ASPHALTIC CONCRETE
	14	92			32					Tan GRAVELLY SAND with silt, medium dense to dense, damp (fill)
	23				21	4.0			CL	Brown with black mottling SILTY CLAY, very stiff, moist (alluvium)
	21	101			41	>4.5	5			grades to hard
	21	96			60	>4.5	10			
	19				60		15			grades with coralline sand
	16				30/.3' Ref.		20			Boring terminated at 20.3 feet
							25			
							30			
							35			
							40			
							45			
							50			
							55			

Date Started:	October 1, 1997	Water Level: ▽	Not Encountered
Date Completed:	October 1, 1997		
Logged By:	S. Tanaka	Drill Rig:	CME-75
Total Depth:	20.3 feet	Drilling Method:	4" Auger
Work Order:	3860-20	Driving Energy:	140 lb. wt., 30 in. drop

BORING_LOG_DOT 3860-20.GPJ GEOLABS.GDT 8/05/04

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

ROBIN M. LIM
LICENSED PROFESSIONAL ENGINEER
No. 8436-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SIGNATURE — EXPIRATION DATE OF THE LICENSE 4-30-06

GEOLABS, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOGS

North-South Road
Phase 1A
F.A.I. Proj. No. STP-8930(1)

Scale: NTS Date: Dec. 22, 2004

SHEET No. G12 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(1)	2005	64	144

GEOLABS, INC.
Geotechnical Engineering

NORTH-SOUTH ROAD, PHASE 1A
F.A.I. PROJ. NO. STP-8930(1)
EWA, OAHU, HAWAII

Log of Boring 3

Approximate Ground Surface Elevation (feet MSL): 64 *

Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)	Depth (feet)	Sample	Graphic	USCS	Description
	14	97			43	>4.5				CL	Brown SILTY CLAY with coralline sand, hard, damp (alluvium)
	18				38						
	19	112			59	>4.5	5				grades to moist
	19	106			84	>4.5	10				grades with black mottling
	10				87		15			SM	White SILTY CORALLINE SAND with coralline gravel, very dense, damp (coral formation)
					20/.0' Ref.		20				
	9				38		25				Boring terminated at 26.5 feet
							30				
							35				
							40				
							45				
							50				
							55				

Date Started:	October 1, 1997	Water Level: ▽	Not Encountered
Date Completed:	October 1, 1997		
Logged By:	S. Tanaka	Drill Rig:	CME-75
Total Depth:	26.5 feet	Drilling Method:	4" Auger
Work Order:	3860-20	Driving Energy:	140 lb. wt., 30 in. drop

BORING_LOG_DOT 3860-20.GPJ GEOLABS.GDT 8/5/04

GEOLABS, INC.
Geotechnical Engineering

NORTH-SOUTH ROAD, PHASE 1A
F.A.I. PROJ. NO. STP-8930(1)
EWA, OAHU, HAWAII

Log of Boring 4

Approximate Ground Surface Elevation (feet MSL): 68.9 *

Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)	Depth (feet)	Sample	Graphic	USCS	Description
	16	96			37	>4.5				CL	Brown SILTY CLAY, hard, damp (alluvium)
	15				31						
	16	105			76	>4.5	5				grades with black mottling
	21	106			83	>4.5	10				grades to moist
	15				50/.5' Ref.		15				grades with coralline sand
					20/.0' Ref.		20			SM	Tan SILTY CORALLINE SAND with coralline gravel, medium dense, damp (coral formation)
	8				24		25				Boring terminated at 26.5 feet
							30				
							35				
							40				
							45				
							50				
							55				

Date Started:	October 1, 1997	Water Level: ▽	Not Encountered
Date Completed:	October 1, 1997		
Logged By:	S. Tanaka	Drill Rig:	CME-75
Total Depth:	26.5 feet	Drilling Method:	4" Auger
Work Order:	3860-20	Driving Energy:	140 lb. wt., 30 in. drop

BORING_LOG_DOT 3860-20.GPJ GEOLABS.GDT 8/5/04

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

ROBIN M. LIM
LICENSED PROFESSIONAL ENGINEER
No. 8436-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SIGNATURE — EXPIRATION DATE OF THE LICENSE 4-30-06

GEOLABS, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOGS

North-South Road
Phase 1A
F.A.I. Proj. No. STP-8930(1)

Scale: NTS Date: Dec. 22, 2004

SHEET No. G1.3 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(1)	2005	65	144

GEOLABS, INC.
Geotechnical Engineering

NORTH-SOUTH ROAD, PHASE 1A
F.A.I. PROJ. NO. STP-8930(1)
EWA, OAHU, HAWAII

Log of Boring 5

Approximate Ground Surface Elevation (feet MSL): 75.5 *

Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)	Depth (feet)	USCS	Description
	15	87			66	>4.5		CL	Brown SILTY CLAY, hard, damp (alluvium)
	15				52				
	15	90			50/.3' Ref.	>4.5	5		grades with black mottling
	20	104			79	>4.5	10		grades to moist
	14				50/.3' Ref.		15		grades with coralline sand and gravel
	16				50/.3' Ref.		20		
	18				50/.5' Ref.		25		Boring terminated at 25.5 feet
							30		
							35		
							40		
							45		
							50		
							55		

Date Started:	October 1, 1997	Water Level: ▽	Not Encountered
Date Completed:	October 1, 1997		
Logged By:	S. Tanaka	Drill Rig:	CME-75
Total Depth:	25.5 feet	Drilling Method:	4" Auger
Work Order:	3860-20	Driving Energy:	140 lb. wt., 30 in. drop

BORING LOG DOT 3860-20.GPJ GEOLABS.GDT 8/6/04

GEOLABS, INC.
Geotechnical Engineering

NORTH-SOUTH ROAD, PHASE 1A
F.A.I. PROJ. NO. STP-8930(1)
EWA, OAHU, HAWAII

Log of Boring 6

Approximate Ground Surface Elevation (feet MSL): 80.4 *

Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)	Depth (feet)	USCS	Description
	16	98			46	>4.5		CL	Brown SILTY CLAY, hard, damp (alluvium)
	7				39				grades with coralline sand
	16	117			50/.5' +30/.3' Ref.	>4.5	5		
	22	109			59	>4.5	10		grades to moist
	20				42		15		
	18				31/.5' +50/.3' Ref.		20		Boring terminated at 21.3 feet
							25		
							30		
							35		
							40		
							45		
							50		
							55		

Date Started:	September 30, 1997	Water Level: ▽	Not Encountered
Date Completed:	September 30, 1997		
Logged By:	S. Tanaka	Drill Rig:	CME-75
Total Depth:	21.3 feet	Drilling Method:	4" Auger
Work Order:	3860-20	Driving Energy:	140 lb. wt., 30 in. drop

BORING LOG DOT 3860-20.GPJ GEOLABS.GDT 8/6/04

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

ROBIN M. LIM
LICENSED PROFESSIONAL ENGINEER
No. 8436-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SIGNATURE 4-30-06 EXPIRATION DATE OF THE LICENSE

GEOLABS, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOGS

North-South Road
Phase 1A
F.A.I. Proj. No. STP-8930(1)

Scale: NTS Date: Dec. 22, 2004

SHEET No. G14 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(1)	2005	66	144

GEOLABS, INC.
Geotechnical Engineering

NORTH-SOUTH ROAD, PHASE 1A
F.A.I. PROJ. NO. STP-8930(1)
EWA, OAHU, HAWAII

Log of Boring 7

Approximate Ground Surface Elevation (feet MSL): 82 *

Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)	Depth (feet)	Sample	Graphic	USCS	Description
	16	90			55	>4.5				CL	Brown SILTY CLAY, hard, damp (alluvium)
	17				44						grades with black mottling
	19	108			84	>4.5	5				grades with coralline sand
LL=46 PI=30	20	104			78	>4.5	10				grades to moist
	20				58		15				
	18				50/.5' Ref.		20				
	17				50/.5' Ref.		25				Boring terminated at 25.5 feet
							30				
							35				
							40				
							45				
							50				
							55				

Date Started:	September 30, 1997	Water Level: ▽	Not Encountered
Date Completed:	September 30, 1997		
Logged By:	S. Tanaka	Drill Rig:	CME-75
Total Depth:	25.5 feet	Drilling Method:	4" Auger
Work Order:	3860-20	Driving Energy:	140 lb. wt., 30 in. drop

BORING LOG DOT 3860-20.GPJ GEOLABS.GDT 8/5/04

GEOLABS, INC.
Geotechnical Engineering

NORTH-SOUTH ROAD, PHASE 1A
F.A.I. PROJ. NO. STP-8930(1)
EWA, OAHU, HAWAII

Log of Boring 8

Approximate Ground Surface Elevation (feet MSL): 88.6 *

Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)	Depth (feet)	Sample	Graphic	USCS	Description
	16	103			92	>4.5				CL	Brown with black mottling SILTY CLAY, hard, damp (alluvium)
	16				48/.5' +50/.3' Ref.						grades with a little coralline sand
	17	107			50/.3' Ref.	>4.5	5				
	17	114			48/.5' +50/.3' Ref.	>4.5	10				grades to moist
	19				66		15				
	20				74		20				Boring terminated at 21.5 feet
							25				
							30				
							35				
							40				
							45				
							50				
							55				

Date Started:	September 30, 1997	Water Level: ▽	Not Encountered
Date Completed:	September 30, 1997		
Logged By:	S. Tanaka	Drill Rig:	CME-75
Total Depth:	21.5 feet	Drilling Method:	4" Auger
Work Order:	3860-20	Driving Energy:	140 lb. wt., 30 in. drop

BORING LOG DOT 3860-20.GPJ GEOLABS.GDT 8/5/04

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

ROBIN M. LIM
LICENSED PROFESSIONAL ENGINEER
No. 8436-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SIGNATURE 4-30-06 EXPIRATION DATE OF THE LICENSE

GEOLABS, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOGS

North-South Road
Phase 1A
F.A.I. Proj. No. STP-8930(1)

Scale: NTS Date: Dec. 22, 2004

SHEET No. G1.5 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(1)	2005	67	144

GEOLABS, INC.
Geotechnical Engineering

NORTH-SOUTH ROAD, PHASE 1A
F.A.I. PROJ. NO. STP-8930(1)
EWA, OAHU, HAWAII

Log of Boring 9

Approximate Ground Surface Elevation (feet MSL): 101.7 *

Other Tests	Moisture Content (%)	Dry Unit Weight (pcf)	Core Recovery (%)	RQD (%)	Penetration Resistance (blows/foot)	Pocket Pen. (tsf)	Depth (feet)	Sample	Graphic	USCS	Description
	17	90			38	>4.5				CL	Brown SILTY CLAY, hard, damp (alluvium)
	16				24						
	20	107			83	>4.5	5				grades with black mottling
	19	114			99	>4.5	10				grades with some coralline sand, moist
	20				52		15				
	18				48/.5' +30/.2' Ref.		20				Boring terminated at 21.2 feet
							25				
							30				
							35				
							40				
							45				
							50				
							55				

Date Started:	September 30, 1997	Water Level: ▽	Not Encountered
Date Completed:	September 30, 1997		
Logged By:	S. Tanaka	Drill Rig:	CME-75
Total Depth:	21.2 feet	Drilling Method:	4" Auger
Work Order:	3860-20	Driving Energy:	140 lb. wt., 30 in. drop

BORING LOG PLOT - ROCKOFF GEOLABS.SDT 8/2004

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

ROBIN M. LIM
LICENSED PROFESSIONAL ENGINEER
No. 8436-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SIGNATURE — EXPIRATION DATE OF THE LICENSE 4-30-06

GEOLABS, INC.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOGS

North-South Road
Phase 1A
F.A.I. Proj. No. STP-8930(1)

Scale: NTS Date: Dec. 22, 2004

SHEET No. G1.6 OF 7 SHEETS