APPENDIX B

A P P E N D I X B

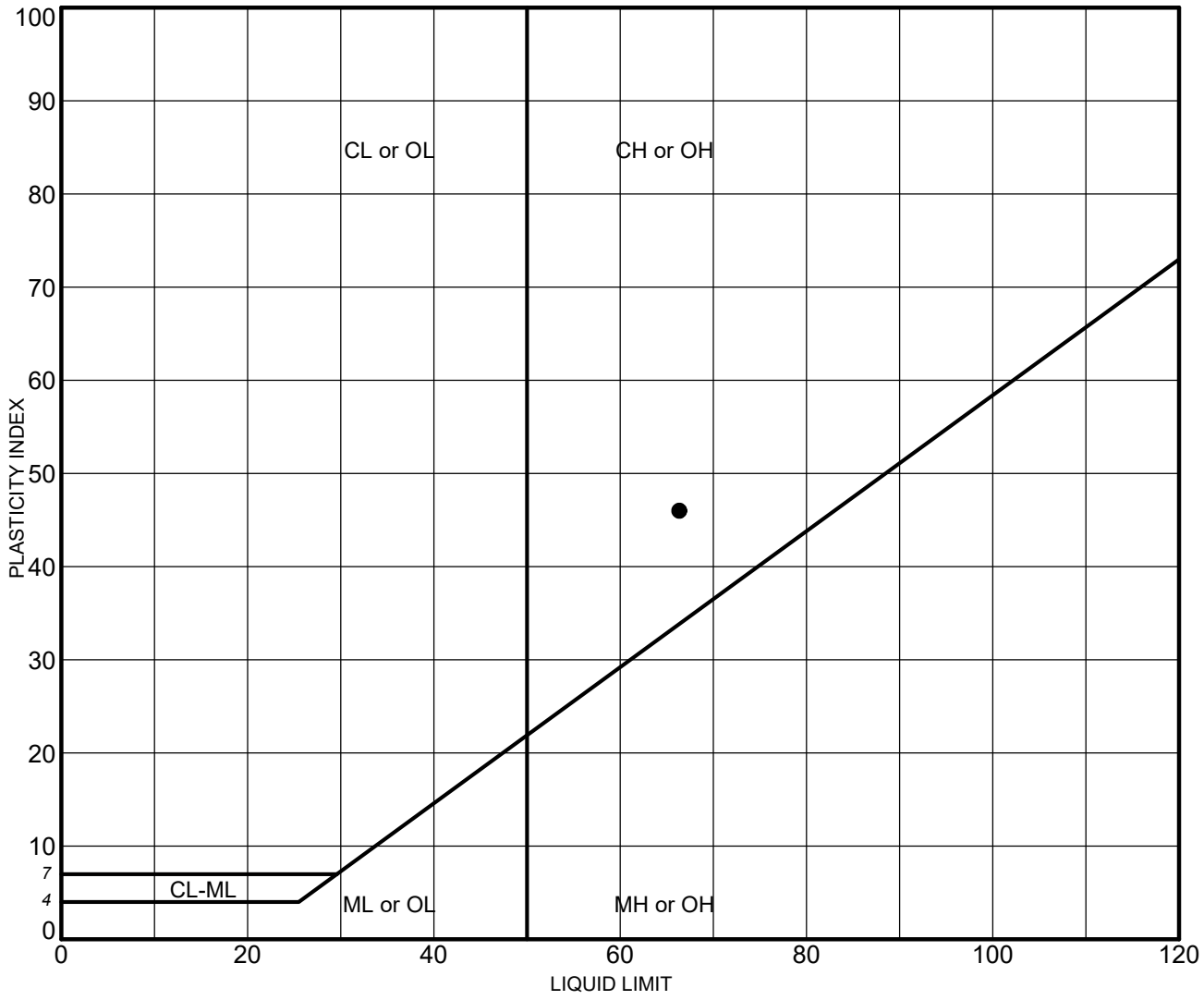
Laboratory Tests

Moisture Content (ASTM D2216) and Unit Weight (ASTM D2937) determinations were performed on selected samples as an aid in the classification and evaluation of soil properties. The test results are presented on the Logs of Borings at the appropriate sample depths.

One Atterberg Limits test (ASTM D4318) was performed on a selected soil sample to evaluate the liquid and plastic limits and to aid in soil classification. The test results are summarized on the Log of Boring at the appropriate sample depth. Graphic presentation of the test results is provided on Plate B-1.

One Unconfined Compression test (ASTM D2166) was performed on a selected in-situ cohesive soil sample to evaluate the unconfined compressive strength of the soil. The test results are provided on Plate 2.

Two Uniaxial Compression Strength tests (ASTM D7012 Method C) were performed on selected rock cores to evaluate the unconfined compressive strength of the rock formation encountered. Results of the uniaxial compression tests are presented on Plate B-3.



	Sample	Depth (ft)	LL	PL	PI	Description
●	B-2	2.5-4.0	66	20	46	Brown clay (CH) with some sand and gravel

NP = NON-PLASTIC

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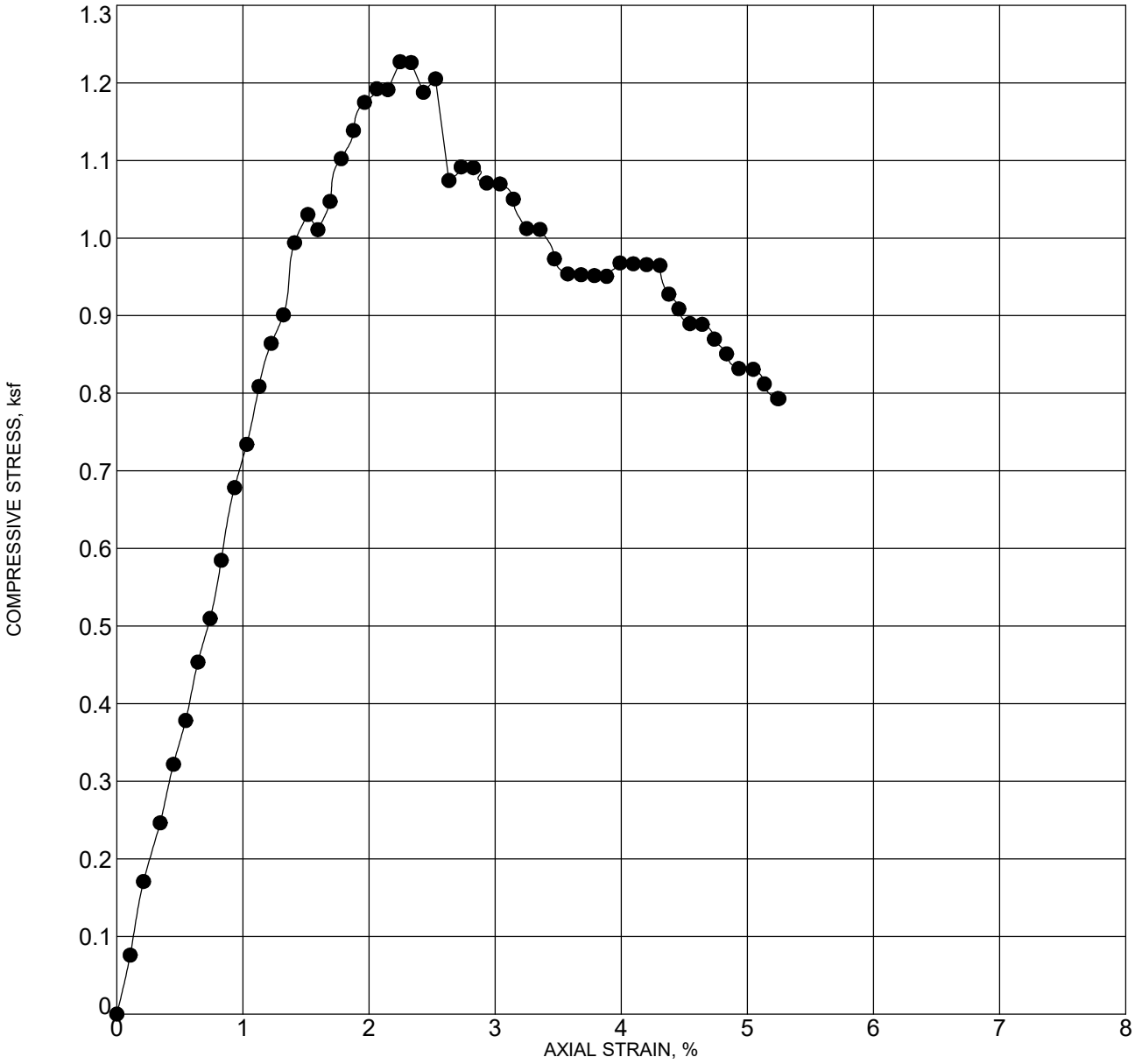
ATTERBERG LIMITS TEST RESULTS - ASTM D4318

TRAFFIC SIGNAL MODERNIZATION PROJECT
KALANIANAOLE HIGHWAY &
KALANIIKI STREET INTERSECTION
HONOLULU, OAHU, HAWAII

Plate
B - 1

G ATTERBERG PI-100 LL-120 7328-00(C).GPJ GEOLABS.GDT 8/12/19



Unconfined Compressive Strength (ksf):	1.23
Axial Strain at Failure (%):	2.2
Strain Rate (% / minute):	0.94

Location: B-2
Depth: 1.0 - 2.5 feet
Description: Brown clay with some sand and gravel
Test Date: 6/3/2019

Dry Density (pcf)	86.7	Sample Diameter (inches)	2.390
Moisture (%)	24.9	Sample Height (inches)	5.000

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UNCONFINED COMPRESSION TEST - ASTM D2166

TRAFFIC SIGNAL MODERNIZATION PROJECT
KALANIANAOLE HIGHWAY &
KALANIIKI STREET INTERSECTION
HONOLULU, OAHU, HAWAII

Plate
B - 2

G_UC_7328-00(C).GPJ GEOLABS.GDT 8/12/19

Location	Depth	Length	Diameter	Length/ Diameter Ratio	Density	Load	Compressive Strength
	(feet)	(inches)	(inches)		(pcf)	(lbs)	(psi)
B-2	6 - 11	6.900	3.300	2.09	141.6	35,870	4,190
B-2	17.5 - 21	6.900	3.300	2.09	111.0	23,410	2,740

ASTM D7012 (METHOD C)

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UNIAXIAL COMPRESSIVE STRENGTH TEST

TRAFFIC SIGNAL MODERNIZATION PROJECT
KALANIANAOLE HIGHWAY &
KALANIIKI STREET INTERSECTION
HONOLULU, OAHU, HAWAII

Plate
B - 3

G_ROCK_UC_TEST_PORTRAIT_7328-00(C).GPJ GEOLABS.GDT 8/12/19