

Application Submittal Checklist

The following items are required for submittal of the grant application. Please verify and check off that the items have been included in the application packet.

- 1) Hawaii Compliance Express Certificate (If the Applicant is an Organization)
- 2) Declaration Statement
- 3) Verify that grant shall be used for a public purpose
- 4) Background and Summary
- 5) Service Summary and Outcomes
- 6) Budget
 - a) Budget request by source of funds ([Link](#))
 - b) Personnel salaries and wages ([Link](#))
 - c) Equipment and motor vehicles ([Link](#))
 - d) Capital project details ([Link](#))
 - e) Government contracts, grants, and grants in aid ([Link](#))
- 7) Experience and Capability
- 8) Personnel: Project Organization and Staffing


AUTHORIZED SIGNATURE

Greg Payton, Chief Executive Office
PRINT NAME AND TITLE

January 22, 2026
DATE

Application for Grants

If any item is not applicable to the request, the applicant should enter “not applicable”.

I. Certification – Please attach immediately after cover page

1. Hawaii Compliance Express Certificate (If the Applicant is an Organization)

If the applicant is an organization, the applicant shall submit one (1) copy of a Hawaii Compliance Express Certificate from the Comptroller of the Department of Accounting and General Services that is dated no earlier than December 1, 2025.

See appendix.

2. Declaration Statement

The applicant shall submit a declaration statement affirming its compliance with [Section 42F-103, Hawaii Revised Statutes](#).

See appendix.

3. Public Purpose

The applicant shall specify whether the grant will be used for a public purpose pursuant to [Section 42F-102, Hawaii Revised Statutes](#).

- a. The name of the requesting organization: Mental Health Kokua
- b. The public purpose for the grant: Renovation of foundation for group home serving homeless adults with serious mental illness.
- c. The services to be supported by the grant: Construction of property foundation support for group home. Operational services provided by other funding sources.
- d. The target group: Homeless adults ages >18-years-old, ambulatory, with serious mental illness, living at <30% area median income.
- e. The cost of the grant and budget: MHK’ requests a one-time capital amount

Funding Source	Budget
State GIA Funds	\$239,648
Other Grants/Funding	\$149,150
Total	\$388,798
State GIA % of Total	62%

II. Background and Summary

This section shall clearly and concisely summarize and highlight the contents of the request in such a way as to provide the State Legislature with a broad understanding of the request. Please include the following:

1. A brief description of the applicant's background:

Established in 1973 as “The House,” Mental Health Kokua (MHK) is the oldest mental health rehabilitation service provider in Hawaii.

- MHK’s mission is to passionately assist people with behavioral health and related challenges to achieve optimum functioning, quality of life, and integration in their communities.
- MHK programs goals enable people served to manage their mental illness symptoms while assuming self-care responsibilities.
- Recovery. MHK has demonstrated the ability to provide housing recovery-based services to people in Hawaii with serious mental illness.
- Compliance with Hawaii Landlord-Tenant Law, as well as contracts with the Department of Health/ AMHD; HMSA, Ohana Health/ Community Care Services; US Department of Housing and Urban Development (HUD); Hawaii Public Housing Authority (HPHA); the Social Security Administration (SSA); City and County of Honolulu; and Aloha United Way.
- HUD Housing. MHK has purchased 13 residential properties in partnership with the HUD Section 811, and MHK has purchased/ leased another 32 houses independently, providing 45 housing locations on Kauai, Oahu, Maui, Hilo, and Kona. MHK has been accredited by CARF (www.carf.org) for community housing at the optimal 3-year level since 1997.

2. The goals and objectives related to the request:

MHK’s GIA Capital Goals:

Goal 1. Phase 1 - Foundation Anchoring requesting \$239,648 State GIA Funds.

Objective: Month 1-2 - install 21 micro-pile anchors and tiebacks for the Mahani Hale retaining walls and foundation.

Goal 2. Phase 2 - Foundation Anchoring requesting \$149,150 other funds.

Objective: Month 2-3 - install 9 micro-pile anchors and tiebacks for the Mahani Hale foundation supporting the back extension units.

Goal 3. 90% of target population will remain housed (avoiding homelessness).

Objective: Month 4 - House 5 to 8 homeless adults with serious mental illness in single-room occupancy group housing, with a therapeutic community, recovery model.

3. The public purpose and need to be served:

According to the 2024 unsheltered Point In Time Count (the last unsheltered count) conducted by Partners In Care, Oahu's Continuum of Care, there are 4,494 total homeless count, with 2,766 unsheltered, and about 40% or 1,106 self-reporting a serious mental illness. Mahani Hale can help to house and stabilize homeless adults with serious mental illness, e.g., schizophrenia, bipolar disorder, major depression, and PTSD, with <30% area median income. MHK's Mahani Hale single-room occupancy (SRO) group housing can help stabilize 5 to 8 residents/year. More than 90% of homeless adults with mental illness served by MHK remain in housing.

4. Describe the target population to be served:

- Homeless adults, <30% area median income and unable to work full time.
- Ages >18 years old.
- Diagnosed with serious mental illness, e.g., schizophrenia, bi-polar, major depression, or PTSD.
- Able to ambulate, or self-transfer from bed, wheelchair, walker, navigate bathroom independently, and self-toilet.
- Voluntary, willing, and able to reside in a group living environment.

5. Describe the geographic coverage:

MHK's Mahani Hale is centrally located in the Kalihi neighborhood of Honolulu, at 1731 Mahani Loop, Honolulu, HI 96819. MHK's Mahani Hale can serve homeless adult referrals with serious mental illness from the island of Oahu.

III. Service Summary and Outcomes

The Service Summary shall include a detailed discussion of the applicant's approach to the request. The applicant shall clearly and concisely specify the results, outcomes, and measures of effectiveness from this request. The applicant shall:

1. Describe the scope of work, tasks and responsibilities:

MHK owns Mahani Hale, a group home at 1731 Mahani Loop, Honolulu, HI 96819, located on a slope, serving 8 unsheltered homeless adults, ages >18, with serious mental illness (SMI). In January 2025 the ground began separating from the house foundation. MHK reported to property insurance company who did not cover this type of damage and did not cover lost revenue. MHK's insurance broker suggested MHK obtain an engineering assessment by Advanced Geotechnical Engineering recommending anchoring the property.

See appendix for Advanced Geotechnical Engineering reports:

Phase 1 – Assessed in 05/2025.

Phase 2 – Assessment updated and added support for back addition 11/2025.

Scope of Work	Tasks	Responsibilities	Target Date
<u>Phase 1</u> - Foundation Anchoring (front house)	Install 21 micro-pile anchors and tiebacks for the Mahani Hale retaining walls and foundation	CEO, COO, CFO, Prog. Dir. will procure contractors to complete work	Month 1
<u>Phase 2</u> - Foundation Anchoring (back house)	Install 9 micro-pile anchors and tiebacks for the Mahani Hale back extension unit's foundation	CEO, COO, CFO, Prog. Dir. will procure contractors to complete work	Month 2

2. Provide a projected annual timeline for accomplishing the results or outcomes of the service

Objectives and Major Tasks	Performed By (Position)	Month			
		1	2	3	4
Secure 3 proposals to bid construction	COO	X			
Develop contract with general contractor	CEO	X			
Contractor secures emergency building permits	COO	X			
Notice to proceed	CEO/CFO		X		
Contractor secures retaining wall tiebacks	Prog Dir		X	X	
Contractor installs 30 foundation micro-pile anchors	Prog Dir		X	X	
Complete repair and punch list	CEO/COO/CFO			X	
Occupy with residents	Prog Dir				X

3. Describe its quality assurance and evaluation plans for the request. Specify how the applicant plans to monitor, evaluate, and improve their results; and

Plan	Monitor	Evaluate	Improve
Phase 1	City & County of Honolulu	Review by architect	Extend life of house by 30-years
Phase 2	City & County of Honolulu	Review by architect	Extend life of house by 30-years

Note: MHK is requesting capital funds only for foundation restoration of the Mahani house. MHK has program operational funds to provide ongoing services with the DOH-Adult Mental Health Division.

4. List the measure(s) of effectiveness that will be reported to the State agency through which grant funds are appropriated (the expending agency). The measure(s) will provide a standard and objective way for the State to assess the program's achievement or accomplishment. Please note that if the level of

appropriation differs from the amount included in this application that the measure(s) of effectiveness will need to be updated and transmitted to the expending agency.

Effectiveness Measure	Evidence Met	Timeframe
Procure general contractor	Executed contract	Within 3 months
Construction permits	Emergency permits secured	Within 3 months
Install foundation anchors	Micro-pile anchors and tiebacks installed, front & back house. Pictures and documents.	Within 3 months
Completion of work	Punchlist completed and documented.	Within 3 months
Re-open homeless housing	Occupied with 5 residents	Within 3 months

IV. Financial

Budget

1. The applicant shall submit a budget utilizing the enclosed budget forms as applicable, to detail the cost of the request.
 - a. Budget request by source of funds ([Link](#))
 - b. Personnel salaries and wages ([Link](#))
 - c. Equipment and motor vehicles ([Link](#))
 - d. Capital project details ([Link](#))
 - e. Government contracts, grants, and grants in aid ([Link](#))

See appendix

2. The applicant shall provide its anticipated quarterly funding requests for the fiscal year 2027.

Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total Grant
\$239,648				\$239,648

3. The applicant shall provide a listing of all other sources of funding that they are seeking for fiscal year 2027.

Funding Source	Amount	Purpose
Weinberg Foundation	\$75,000	Phase 2 Construction
McInerney Foundation	\$37,150	Phase 2 Construction & Evaluation
Nareit Foundation	\$37,000	Phase 2 Construction
Total	\$149,150	

4. The applicant shall provide a listing of all state and federal tax credits it has been granted within the prior three years. Additionally, the applicant shall provide a

listing of all state and federal tax credits they have applied for or anticipate applying for pertaining to any capital project, if applicable.

Mental Health Kokua (MHK) is a nonprofit organization and is not subject to tax credits.

5. The applicant shall provide a listing of all federal, state, and county government contracts, grants, and grants in aid it has been granted within the prior three years and will be receiving for fiscal year 2027 for program funding.

Contracts	Services	Contact	Addresses	Email	Phone
DOH-Adult Mental Health Division	Community Housing PATH homeless outreach	Erin Snyder	1250 Punchbowl Street, Room #256. Honolulu, Hawaii 96813	erin.snyder@doh.hawaii.gov	808-453-6772
Ohana Health Plan.	Case management	Ashley Brown	949 Kamokila Blvd Suite 350 Kapolei, HI 96707	Ashley.Brown@centene.com	(808) 366-3552
City & County of Honolulu	Punawai Rest Stop (homeless hygiene)	Anton Krucky	925 Dillingham Blvd, Honolulu, HI 96817	anton.krucky@honolulu.gov	(808)-768-7760
County of Maui	Homeless outreach, PSR, stabilization	Curtis Jamison	200 S. High St., Wailuku, HI 96793	Curtis.Jamison@co.maui.hi.us	808-270-7178

6. The applicant shall provide the balance of its unrestricted current assets as of December 31, 2025.

Category	Current Assets 12/31/25
Cash	\$2,363,734.89
Accounts Receivable MHK	\$1,990,525.58
Accounts Receivable MHK-HUD811	\$433,867
Prepaid	\$203,088

V. Experience and Capability

1. Necessary Skills and Experience

The applicant shall demonstrate that it has the necessary skills, abilities, knowledge of, and experience relating to the request. State your experience and appropriateness for providing the service proposed in this application. The applicant shall also provide a listing of verifiable experience of related projects or contracts for the most recent three years that are pertinent to the request.

Established in 1973 as “The House,” Mental Health Kokua (MHK) is the oldest mental health rehabilitation service provider in Hawaii. MHK’s mission is to passionately assist people with behavioral health and related challenges to achieve optimum functioning, quality of life, and integration in their communities. MHK programs goals such as maintenance of Mahani Hale help people served to manage their mental illness symptoms while assuming self-care responsibilities.

Skills. MHK has demonstrated skills to provide housing such as Mahani Hale with model fidelity involving the best practice of recovery-based services (SAMHSA) with people in Hawaii experiencing serious mental illness, e.g., schizophrenia, bipolar disorder, major depression, and PTSD. Simultaneously, MHK applies compliance with Hawaii Landlord-Tenant Law, and helping people served learn to become good tenants, sustaining 90% with their community tenure versus returning to homelessness or institutions.

Abilities. Developed contracts with the Department of Health/ AMHD; HMSA, Ohana Health/ Community Care Services; Kaiser Permanente; United Health Care; Aloha Care; Partners in Care; US Department of Housing and Urban Development (HUD); Hawaii Public Housing Authority (HPHA); the Social Security Administration (SSA); City and County of Honolulu; and Aloha United Way.

Knowledge/Experience. MHK has provided mental health supportive housing for more than 50 years. MHK has purchased 15 houses in partnership with the HUD Section 811, Housing Trust Fund, and Community Development Block Grant (CDBG). MHK has managed \$4m in CDBG projects since 2020 and has purchased/ leased another 32 houses independently, providing 45 housing locations on Kauai, Oahu, Maui, Hilo, and Kona. MHK has been accredited by CARF (www.carf.org) (community housing) at optimal 3-year level since 1997.

Verifiable Contract	Related Experience	Timeframe
DOH-Adult Mental Health Division	24- and 8-to-16-hour supervised group homes on Kauai, Oahu, Maui, Hilo, and Kona serving 340 adults/ month.	Continuously since 1982
DOH-Adult Mental Health Division	Therapeutic Living Program – 14-bed, 24-hour, high acuity residential care licensed by OCHA.	Since 2010
Statewide Office on Homelessness and Housing Solutions (SOHHS)	Governor Green’s kauhale initiative, providing 10-bed senior homeless housing in Maui, 16-bed homeless stabilization in Maui, and 50-beds at Iwilei kauhale in Honolulu.	Contracted in March 2025.
County of Maui	Safe Haven homeless stabilization housing.	Since 2015

MHK's slogan is Opportunities to Begin Again. For 50 years MHK has provided housing, case management, and outpatient services for thousands of adults with serious mental illness who would otherwise remain psychotic and homeless. MHK's core values include recovery, safety of stakeholders, and cost effectiveness. MHK's program success has 3 principles: housing, psychiatric medication, and support. Most homeless adults MHK serves are from Hawaii, unable to work because of their condition, and disenfranchised from family and friends. MHK's group housing program provides a safe, supportive opportunity for homeless adults to learn how to manage their lives, stabilize psychiatric medications, build new social contacts, and live proud productive lives.

MHK's proposed grant with the State GIA not only repairs the foundation of Mahani Hale but also contributes to MHK's legacy of providing homeless adults with serious mental illness the Opportunity to Begin Again.

2. Facilities

The applicant shall provide a description of its facilities and demonstrate its adequacy in relation to the request. If facilities are not presently available, describe plans to secure facilities.

MHK owns Mahani Hale is an 8-bed, single-room occupancy (SRO) group home, centrally located in the Kalihi neighborhood, at 1731 Mahani Loop, Honolulu, HI 96819. MHK purchased the house through the City and County of Honolulu Housing Trust Funds (HTF) in 2020. Mahani Hale is located on a slope and MHK conducted due diligence assessments of the property as required as part of the HTF application for acquisition funds. In January 2025 the ground began separating from the house foundation. MHK obtained an engineering assessment which recommended to anchor the property. When Mahani Hale was used for housing the target population, it was inspected and approved by Hawaii Dept. of Health-Adult Mental Health Division, HUD Hearth Act, and CARF accreditation. MHK's GIA goal is to secure the foundation and restore housing services for homeless adults with mental illness for the useful life of the property.

VI. Personnel: Project Organization and Staffing

1. Proposed Staffing, Staff Qualifications, Supervision and Training

The applicant shall describe the proposed staffing pattern and proposed service capacity appropriate for the viability of the request. The applicant shall provide the qualifications and experience of personnel for the request and shall describe its ability to supervise, train and provide administrative directions relative to the request.

MHK Staff Member	Education/Experience Qualifications	Duties/Supervision
Greg Payton, Chief Executive Officer, 1 FTE	<ul style="list-style-type: none"> ▪ DSW, MBA, MA ▪ 45 years of experience ▪ 35 years CARF surveyor 	GIA, grant management, and performance supervision and training.
Cordula Diaz, Chief Operating Officer, 1 FTE	<ul style="list-style-type: none"> ▪ MBA ▪ 18 years 	GIA grant management, and performance supervision.
Kaycee DeSouza, Clinical Director, LCSW, 1 FTE	<ul style="list-style-type: none"> ▪ 25 years of experience ▪ Licensed in Hawaii ▪ 5 years as CARF surveyor 	Program performance and clinical supervision. Unrelated to GIA.
Huilan Kamita, CFO, 1 FTE	<ul style="list-style-type: none"> ▪ BBA, accounting emphasis ▪ CPA ▪ 25 years of experience 	GIA authorization, billing, reimbursement, and training.
Tom Barrientos, Chief Technology Officer, 1 FTE	<ul style="list-style-type: none"> ▪ MS Information and Computer Sciences. ▪ 15 years of experience 	Data collection, e-platforms, & performance supervision. Unrelated to GIA.
Les Gusman, Oahu County Services Director, 1 FTE	<ul style="list-style-type: none"> ▪ BA Human Services ▪ 32 years of experience. 	Housing operations, training, & performance supervision.
George Nabea, Program Services Manager, 1 FTE	<ul style="list-style-type: none"> ▪ Social Worker ▪ 10 years of experience 	Program performance supervision. Unrelated to GIA.
Michelle Kido, Residential Services Coord Honolulu, 1 FTE	<ul style="list-style-type: none"> ▪ 20 years of experience 	Housing operations. Performance supervision. Unrelated to GIA.
Residential Assistant 1.4 FTE	<ul style="list-style-type: none"> ▪ High school diploma 	Direct resident supervision. Unrelated to GIA.

2. Organization Chart

The applicant shall illustrate the position of each staff and line of responsibility/ supervision. If the request is part of a large, multi-purpose organization, include an organization chart that illustrates the placement of this request.

See appendix – Placement of request is under CEO, COO, CFO and Oahu HON-2.

3. Compensation

The applicant shall provide an annual salary range paid by the applicant to the three highest paid officers, directors, or employees of the organization by position title, not employee name.

Highest Paid Position title	Annual Salary
Chief Executive Officer	\$174,000
Chief Financial Officer	\$130,000
Chief Operating Officer	\$130,000

VII. Other

1. Litigation

The applicant shall disclose any pending litigation to which they are a party, including the disclosure of any outstanding judgement. If applicable, please explain.

Mental Health Kokua (MHK) has no pending litigation.

2. Licensure or Accreditation

The applicant shall specify any special qualifications, including but not limited to licensure or accreditation that the applicant possesses relevant to this request.

CARF Accreditation, Community Housing, optimal 3-year level expires 5/31/27.

3. Private Educational Institutions

The applicant shall specify whether the grant will be used to support or benefit a sectarian or non-sectarian private educational institution. Please see [Article X, Section 1, of the State Constitution](#) for the relevance of this question.

Not Applicable

4. Future Sustainability Plan

The applicant shall provide a plan for sustaining after fiscal year 2027 the activity funded by the grant if the grant of this application is:

- (a) Received by the applicant for fiscal year 2027, but
- (b) Not received by the applicant thereafter.

Mental Health Kokua is requesting a one-time capital investment to mitigate the unique foundation erosion for MHK’s Mahani Hale group home, located at 1731 Mahani Loop, Honolulu, HI 96819. The funds will not be necessary or received by MHK after FY2027. A sustainability plan for repair and maintenance is provided on the table below:

Activity Funded	Sustainability Plan	Person Assigned	Target Date
Repair of foundation	<ul style="list-style-type: none"> ▪ Inspect the foundation by qualified engineer. ▪ Report to City & County of Honolulu, DCS. 	CEO, CFO	Annually
Preventative maintenance	<ul style="list-style-type: none"> ▪ Maintain reserve fund as required by contract. ▪ Increase by 3% annually 	CEO, CFO	Annually

Appendix

1. Hawaii Compliance Express Certificate
2. Declaration Statement
3. Advanced Geotechnical Engineering reports
 - a. Phase 1 – assessed in May 2026
 - b. Phase 2 – assessment updated and added support for back addition in November 2026
4. Budget pages
5. Organization chart



A non-profit organization
Main Administrative Office
680 Iwilei Road Suite 600
Honolulu, HI 96817
Phone (808) 737-2523 Fax (808) 734-1208





STATE OF HAWAII
STATE PROCUREMENT OFFICE

CERTIFICATE OF VENDOR COMPLIANCE

This document presents the compliance status of the vendor identified below on the issue date with respect to certificates required from the Hawaii Department of Taxation (DOTAX), the Internal Revenue Service, the Hawaii Department of Labor and Industrial Relations (DLIR), and the Hawaii Department of Commerce and Consumer Affairs (DCCA).

Vendor Name: MENTAL HEALTH KOKUA*

DBA/Trade Name: MENTAL HEALTH KOKUA*

Issue Date: 01/22/2026

Status: **Compliant**

Hawaii Tax#:

New Hawaii Tax#:

FEIN/SSN#:

UI#: XXXXXX1301

DCCA FILE#: 24508

Status of Compliance for this Vendor on issue date:

Form	Department(s)	Status
A-6	Hawaii Department of Taxation	Compliant
8821	Internal Revenue Service	Compliant
COGS	Hawaii Department of Commerce & Consumer Affairs	Exempt
LIR27	Hawaii Department of Labor & Industrial Relations	Compliant

Status Legend:

Status	Description
Exempt	The entity is exempt from this requirement
Compliant	The entity is compliant with this requirement or the entity is in agreement with agency and actively working towards compliance
Pending	A status determination has not yet been made
Submitted	The entity has applied for the certificate but it is awaiting approval
Not Compliant	The entity is not in compliance with the requirement and should contact the issuing agency for more information

**DECLARATION STATEMENT OF
APPLICANTS FOR GRANTS PURSUANT TO
CHAPTER 42F, HAWAII REVISED STATUTES**

The undersigned authorized representative of the applicant certifies the following:

- 1) The applicant meets and will comply with all of the following standards for the award of grants pursuant to Section 42F-103, Hawaii Revised Statutes:
 - a) Is licensed or accredited, in accordance with federal, state, or county statutes, rules, or ordinances, to conduct the activities or provide the services for which a grant is awarded;
 - b) Complies with all applicable federal and state laws prohibiting discrimination against any person on the basis of race, color, national origin, religion, creed, sex, age, sexual orientation, or disability;
 - c) Agrees not to use state funds for entertainment or lobbying activities; and
 - d) Allows the state agency to which funds for the grant were appropriated for expenditure, legislative committees and their staff, and the auditor full access to their records, reports, files, and other related documents and information for purposes of monitoring, measuring the effectiveness, and ensuring the proper expenditure of the grant.
- 2) If the applicant is an organization, the applicant meets the following requirements pursuant to Section 42F-103, Hawaii Revised Statutes:
 - a) Is incorporated under the laws of the State; and
 - b) Has bylaws or policies that describe the manner in which the activities or services for which a grant is awarded shall be conducted or provided; and
- 3) If the applicant is a non-profit organization, it meets the following requirements pursuant to Section 42F-103, Hawaii Revised Statutes:
 - a) Is determined and designated to be a non-profit organization by the Internal Revenue Service; and
 - b) Has a governing board whose members have no material conflict of interest and serve without compensation.
- 4) The use of grant-in-aid funding complies with all provisions of the Constitution of the State of Hawaii (for example, pursuant to Article X, section 1, of the Constitution, the State cannot provide "... public funds ... for the support or benefit of any sectarian or nonsectarian private educational institution...").

Pursuant to Section 42F-103, Hawaii Revised Statutes, for grants used for the acquisition of land, when the organization discontinues the activities or services on the land acquired for which the grant was awarded and disposes of the land in fee simple or by lease, the organization shall negotiate with the expending agency for a lump sum or installment repayment to the State of the amount of the grant used for the acquisition of the land.

Further, the undersigned authorized representative certifies that this statement is true and correct to the best of the applicant's knowledge.

Mental Health Kokua

(Typed Name of Individual or Organization)

(Signature) 

01/22/2026

(Date)

Greg Payton
(Typed Name)

Chief Executive Officer
(Title)

GEOTECHNICAL ENGINEERING SUBSURFACE INVESTIGATION REPORT

Limited Retaining Wall Stabilization

1731 Mahani Loop

Honolulu, Oahu, Hawaii

TMK: 1-4-023:021

AGE PROJECT NO. 250406.01

Prepared for:

Mental Health Kokua

Prepared by:

Advanced Geotechnical Engineering, LLC.

May 3, 2025



May 6, 2025

Project No.: 250406.01

Mental Health Kokua
1304 Kinau Street
Honolulu, HI 96814

Attention: Mr. Greg Payton, DSW, MBA, MA
CEO

Subject: **Geotechnical Engineering Subsurface Investigation Report**

Limited Retaining Wall Stabilization
1731 Mahani Loop
Honolulu, Oahu, Hawaii
TMK: 1-4-032:021

Dear **Mr. Payton**:

We are pleased to submit this report entitled “Geotechnical Engineering Subsurface Investigation Report, Limited Retaining Wall Stabilization at 1731 Mahani Loop, Honolulu, Oahu, Hawaii, TMK: 1-4-032:021” to support the design and construction of the retaining wall stabilization.

The purpose of our geotechnical engineering subsurface investigation services and this report was to explore and evaluate the subsurface conditions at the site of 1731 Mahani Loop to provide geotechnical recommendations for the design and construction of the project. Our work was performed in general accordance with the scope of services outlined in our fee proposal dated April 11, 2025.

We appreciate the opportunity to be of service and look forward to continuing our work with you on this project. Should you have any questions pertaining to this report, please contact us.

Respectfully submitted,

Advanced Geotechnical Engineering, LLC

Shentang Wang, Ph.D., P.E.
President



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
(MY LICENSE EXPIRES 4/30/2026)

Our findings and recommendations are summarized as follows:

1. Our subsurface exploration indicates that the site between the two lifts of retaining walls was generally overlain by about 5 feet of fill over older alluvial soil, which extended to the bottom of the boring at a depth of 18.0 feet below the existing ground surface. Even though groundwater was not encountered in the test boring during this investigation, the soils below the existing ground appeared saturated.
2. Our analysis indicates that these materials should provide adequate support for the micropiles and tiebacks under the currently anticipated loads. Groundwater was not encountered in the boring during this investigation and is not anticipated to be a factor in the proposed construction.
3. We believe the existing distressed retaining walls can be stabilized to a certain level by installing a retaining wall stabilization system consisting of micropiles and tiebacks.
4. Based on the existing condition of the retaining walls and subsurface condition, we recommend supporting the wall footings with micropiles at the toe of the walls.
5. A MAI® hollow bar micropile system or equivalent can be used for this purpose. The hollow bar micropile system should consist of groutable galvanized steel bars with a minimum outside diameter of 1.25 inches, such as R32N with TwinCoat corrosion protection or equivalent, and a minimum grout bulb diameter of 5 inches. Grout for the micropiles should have a minimum compressive strength at 28 days of 4,000 pounds per square inch (psi) and have a maximum 0.45 water to cement ratio.
6. The micropile should be extended to a depth of a minimum 30 feet below the existing ground surface or minimum 5 feet into the basalt, whichever is shallower. If our recommendations for the micropile are followed, the micropile can be designed for an allowable compressive load capacity of 15 kips, an allowable uplift load capacity of 10 kips, and an allowable lateral load resistance of 1.0 kips with a maximum head deflection of 0.25 inches on the ground line.

7. Since constructing micropile caps requires undermining the already yielding existing wall foundation, the excavation and installation of micropiles must be carried out in at least two phases. Adjacent micropiles cannot be excavated in the same phase.
8. We recommend installing a tieback with a maximum lateral spacing of 6 feet center to center laterally and a maximum vertical row spacing of 2.5 feet in a diamond pattern.
9. Based on the information provided and our engineering analysis, we recommend the same system as the micropiles for the tieback tiebacks. Each tieback should have a minimum length of 20 feet to 30 feet depending on the location as shown on Figure 4, at an inclination angle of 20 degrees to horizontal, and with a minimum grout diameter of 4 inches. Grout for the tiebacks should have a minimum compressive strength at 28 days of 4,000 pounds per square inch (psi) and have a maximum 0.45 water to cement ratio.
10. To distribute the tieback loads over the face of the wall, the anchors should be installed through galvanized steel plates at least ½-inch thick and eight inches square. A threaded, beveled securing nut and wash should be placed on each plate.
11. Construction plans for this project should be reviewed by Advanced Geotechnical Engineering, LLC (AGE) for the conformance with our recommendations of this report. If not reviewed by AGE, AGE cannot assume responsibility for misinterpretation of our recommendations.
12. Tieback and micropile installation should be observed by AGE to determine whether the anticipated bearing materials have been encountered.
13. The recommendations given herein are contingent on adequate observation of the geotechnical phases of the construction by Advanced Geotechnical Engineering, LLC.

Detailed discussion of our field exploration, findings, and geotechnical engineering recommendations are presented in the body of this report.

END OF SUMMARY OF FINDINGS AND RECOMMENDATIONS

Table of Contents

1.0	INTRODUCTION	1
1.1	PROJECT CONSIDERATIONS.....	1
1.2	PURPOSE AND SCOPE OF WORK.....	1
2.0	SITE EXPLORATION AND FINDINGS	3
2.1	SITE DESCRIPTION	3
2.2	GENERAL GEOLOGY	3
2.3	SUBSURFACE EXPLORATION.....	4
2.4	LABORATORY TESTING.....	4
2.5	GENERAL SUBSURFACE CONDITIONS	5
3.0	DISCUSSION AND RECOMMENDATIONS	6
3.1	DISCUSSIONS.....	6
3.2	MICROPILE SUPPORTS	6
3.3	TIEBACKS.....	7
3.4	DESIGN REVIEW AND CONSTRUCTION OBSERVATION	8
4.0	LIMITATIONS.....	9
5.0	REFERENCES	10

FIGURES

PROJECT LOCATION MAP	FIGURE 1
SITE PLAN	FIGURE 2
SITE PHOTOS	FIGURE 3
RETAINING WALL STABILIZATION	FIGURE 4

APPENDIX A

LOG OF BORING.....	FIGURE A-1
--------------------	------------

APPENDIX B

LABORATORY TEST RESULTS	FIGURES B-1 AND B-2
-------------------------------	---------------------

1.0 INTRODUCTION

We have performed a geotechnical engineering site exploration for the proposed Limited Retaining Wall Stabilization at 1731 Mahani Loop in Honolulu, Oahu, Hawaii. The location of the project and general vicinity are shown on the Project Location Map, Figure 1.

We have conducted a subsurface investigation at the area of interest on the project site, performed geotechnical engineering laboratory tests on selected samples, and analyzed the data to draw engineering conclusions. This report summarizes the findings and presents our geotechnical recommendations resulting from our site exploration and engineering analyses for this project. The findings and recommendations presented herein are subject to the limitations noted at the end of this report.

1.1 PROJECT CONSIDERATIONS

Based on project correspondence we understand that distressed side retaining walls are planned to be stabilized at 1731 Mahani Loop in Honolulu, Oahu, Hawaii.

The retaining walls supporting the driveway, carport, and the existing house appeared sliding away to the downhill side. Numerous cracks were observed on the ground and retaining walls. The current condition of the walls is shown on Figure 3. To prevent further movements of and damage to the retaining walls, micropiles and tiebacks are desired to be used in the proposed wall stabilization. No grading work is anticipated for this project.

It should be noted that due to the restrained budget, this retaining wall stabilization is limited to the critical portion of the walls, which directly support the driveway, carport, and main building.

1.2 PURPOSE AND SCOPE OF WORK

Our site exploration was to explore the subsurface conditions at the areas of interest to provide geotechnical recommendations in assistance with the design and construction of the proposed retaining wall stabilization. The work was performed in general accordance with our fee proposal dated April 11, 2025. The scope of work for this service included the following items:

1. Coordination of the site geotechnical engineering subsurface investigation.
2. Reviewing and correlating our available soils information on the site.
3. Drilling and sampling 1 test boring for a maximum of total footage of 18.0 feet.

4. Providing a soil engineer and technician to perform the drilling operations and maintain the logs of the materials encountered.
5. Performing laboratory tests to define the general soil characteristics.
6. Correlating and analyzing the field and laboratory test results.
7. Developing geotechnical recommendations for the design and construction of the retaining wall stabilization.
8. Preparation of this report summarizing our work and findings and presenting our recommendations for this project.

END OF INTRODUCTION

2.0 SITE EXPLORATION AND FINDINGS

2.1 SITE DESCRIPTION

The parcel is on the southwest corner of the Y-split of Mahani Loop, bordered by Mahani Loop on the northeast side and by developed residential lots on the remaining sides.

The existing residential building covers about 3,022 square feet and is supported on light-weight wooden frames and CMU columns and walls. An about 9 feet tall CMU retaining wall retains the grade difference between the driveway and lower grade. Two lifts of CRM and CMU retaining walls support the grade difference between the building and lower grade. The height of the upper wall varies between 5 feet and 9 feet. The height of the lower CRM wall varies between 3 feet and 9 feet.

2.2 GENERAL GEOLOGY

The island of Oahu is the eroded remnant of two coalesced shield volcanoes, the Waianae Volcano and the Koolau Volcano (Hunt, 1996). A great amount of the Waianae and Koolau Ranges were removed by fluvial and marine erosion during the Pleistocene, creating deep valleys. After these erosion cycles, the island subsided and was submerged more than 1,200 feet, and the valleys were drowned and alluviated with deltaic sediments.

Along with this submergence, regressions and transgressions of sea level occurred, resulting in renewed erosion through the deltaic sediments during periods of lower sea levels. The alluvial channels extend well below the current mean sea level. Tropical rains eroded the highlands, removing the silt and clay soils derived from the older, weathered basalt, and carried them down to the shoreline, where they were deposited first in an alluvial environment, then transgressed into back-reef lagoons and estuaries. These alluvial deposits are identified as Qa (alluvium).

The eroded remnant of the two volcanoes has four major geomorphic provinces: (1) Koolau Range; (2) Waianae Range; (3) Schofield Plateau; and (4) Coastal Plain (Stearns, Geology of the State of Hawaii (2nd ed.), 1985). The project site is located on the southwestern flange of Koolau Range. Based on the Geologic Map and Guide of the Island of Oahu (Stearns, Geologic Map and Guide of the Island of Oahu, 1939), the general area of the project site is underlain by Older Alluvium (QTao) over Koolua Basalt (QTKl) at an age between 1.8 and 3.0 million years.

The project site is on the northwestern side of Kalihi Ridge in Kalihi Valley. The ridge is an erosional remnant from the west flank of the Koolau Range and consists of steep rocky slopes of relatively intact, dense basalt. At the toe of the western slope of the Kilihi Ridge where the project area is located, material of the upper slopes has been deposited as large quantities of materials, which are classified as alluvial materials.

The colluvial/alluvial deposits consist of highly to slightly weathered basaltic boulders, cobbles, gravel, and sand in a matrix of silty clay or clayey silt soils. The colluvial/alluvial materials are erosional debris shredded from the upper slopes and transported to the current locations by landslides, soil avalanches, or storms. Among these soils, there is a variable amount of expansive soils, sometimes referred to as adobe clay. These clays expand when wetted and contract when allowed to dry. Boulders, cobbles, and gravel are also present in the adobe clay matrix.

2.3 SUBSURFACE EXPLORATION

One test boring was drilled on April 23, 2025 at the approximate location shown on the attached Site Plan, Figure 2. The boring was drilled to a depth of 18.0 feet below the existing ground surface using an earth auger with 4-inch diameter flight augers and a hammer drill with 4-inch and 3-inch diameter core bits.

Samples of the subsurface soils were obtained at selected depths from either cuttings of the earth auger or core bits.

The materials encountered in the borings were visually classified in the field in general accordance with ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedures). The classifications were later modified based on the laboratory test results in general accordance with ASTM D2487, Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System). The boring and sample method and materials encountered are shown on the Logs of Borings in Appendix A.

2.4 LABORATORY TESTING

Selected samples of the subsurface soils were tested in the laboratory to determine their pertinent general engineering characteristics, including in-situ moisture content, direct shear strength, and swell potential.

The test results are shown on the Log of Borings, where appropriate. The results of the laboratory tests are graphically shown in Appendix B.

2.5 GENERAL SUBSURFACE CONDITIONS

Our subsurface exploration indicates that the site between the two lifts of retaining walls was generally overlain by about 5 feet of fill over older alluvial soil, which extended to the bottom of the boring at a depth of 18.0 feet below the existing ground surface. Even though groundwater was not encountered in the test boring during this investigation, the soils below the existing ground appeared saturated.

The fill soil consisted of clayey silt, silty clay, and gravel, cobbles, and boulders in silty clay matrix, which were classified as MH, CH, and GC soils, respectively, under the Unified Soil Classification (USC) system. The fill silt and clay exhibited medium stiff to stiff consistencies, and the fill granular soil was medium dense.

Laboratory one-dimensional swell tests performed on remolded samples of the fill silt and clay indicated the fill soils exhibited swell potential between 1.9% and 8.4% under a surcharge load of 60 pounds per square foot (psf) when saturated in water after air-dried.

The older alluvial soil consisted of silty clay with gravel, which was classified as CH soil under the USC system. The old alluvial clay exhibited medium stiff to very stiff consistencies.

A laboratory direct shear test performed on the older alluvial soil indicated the older alluvial soil exhibited a cohesion of 320 pounds per square foot (psf) with a friction angle of 3.0 degrees.

3.0 DISCUSSION AND RECOMMENDATIONS

3.1 DISCUSSIONS

Our subsurface exploration indicates that the site between the two lifts of retaining walls was generally overlain by about 5 feet of fill over older alluvial soil, which extended to the bottom of the boring at a depth of 18.0 feet below the existing ground surface. Even though groundwater was not encountered in the test boring during this investigation, the soils below the existing ground appeared saturated.

Our analysis indicates that these materials should provide adequate support for the micropiles and tiebacks under the currently anticipated loads. Groundwater was not encountered in the boring during this investigation and is not anticipated to be a factor in the proposed construction.

We believe the existing distressed retaining walls can be stabilized to a certain level by installing a retaining wall stabilization system consisting of micropiles and tiebacks. The sketch concept of retaining wall stabilization is presented in Figure 4. Specific recommendations are presented in the following sections.

3.2 MICROPILE SUPPORTS

Based on the existing condition of the retaining walls and subsurface condition, we recommend supporting the wall footings with micropiles at the toe of the walls. The micropiles should extend through the fill soils into the older alluvial soil to derive sufficient load support and reduce potential heave or settlement. A MAI® hollow bar micropile system or equivalent can be used for this purpose. The hollow bar micropile system should consist of groutable galvanized steel bars with a minimum outside diameter of 1.25 inches, such as R32N with TwinCoat corrosion protection or equivalent, and a minimum grout bulb diameter of 5 inches. Grout for the micropiles should have a minimum compressive strength at 28 days of 4,000 pounds per square inch (psi) and have a maximum 0.45 water to cement ratio.

The micropile should be extended to a depth of a minimum 30 feet below the existing ground surface or minimum 5 feet into the basalt, whichever is shallower. If our recommendations for the micropile are followed, the micropile can be designed for an allowable compressive load capacity of 15 kips, an allowable uplift load capacity of 10 kips, and an allowable lateral load resistance of 1.0 kips with a maximum head deflection of 0.25 inches on the ground line. Final micropile

installation depths must be approved by Advanced Geotechnical Engineering LLC (AGE). A reinforced concrete pile cap should be provided at each pile location to provide structural connections between the wall footing and micropile.

During the installation of micropiles, voids in the subsurface materials may be encountered, which can result in grout overruns. Therefore, a sufficient contingency fund is recommended to accommodate these possible extra costs.

Since constructing micropile caps requires undermining the already yielding existing wall foundation, the excavation and installation of micropiles must be carried out in at least two phases. Adjacent micropiles cannot be excavated in the same phase.

3.3 TIEBACKS

We recommend tieback the wall with tiebacks as shown schematically in Figure 4.

In general, a tieback is constructed by drilling a borehole, installing a steel tendon, or reinforcing bar into the borehole, and grouting the borehole with grout mix. A steel plate is used at the top of the steel tendon or reinforcing bar to transfer loads between the tieback and the structure or slope to be reinforced by the tieback. The tieback is typically installed at an inclination of 10 to 20 degrees with horizontal.

In general, the steel tendon or reinforcing bar is used to transfer the structural load to the grouted bond and the grouted bond transfers the applied load into the soils surrounding it.

The tiebacks would develop support principally from the bond between the grout and the surrounding soils or rock/basalt anticipated at the project site. The bond stress, which is the resistance per unit area of the grout/soil interface contact, is variable depending on the type of soil and grout, the overburden stress, and the construction procedures used in installing the tiebacks.

We recommend installing a tieback with a maximum lateral spacing of 6 feet center to center laterally and a maximum vertical row spacing of 2.5 feet in a diamond pattern.

Based on the information provided and our engineering analysis, we recommend the same system as the micropiles for the tieback tiebacks. Each tieback should have a minimum length of 20 feet to 30 feet depending on the location as shown on Figure 4, at an inclination angle of 20 degrees to

horizontal, and with a minimum grout diameter of 4 inches. Grout for the tiebacks should have a minimum compressive strength at 28 days of 4,000 pounds per square inch (psi) and have a maximum 0.45 water to cement ratio.

To distribute the tieback loads over the face of the wall, the anchors should be installed through galvanized steel plates at least ½-inch thick and eight inches square. A threaded, beveled securing nut and wash should be placed on each plate.

3.4 DESIGN REVIEW AND CONSTRUCTION OBSERVATION

Construction plans for this project should be reviewed by Advanced Geotechnical Engineering, LLC (AGE) for the conformance with our recommendations of this report. If not reviewed by AGE, AGE cannot assume responsibility for misinterpretation of our recommendations.

Tieback and micropile installation should be observed by AGE to determine whether the anticipated bearing materials have been encountered.

The recommendations given herein are contingent on adequate observation of the geotechnical phases of the construction by Advanced Geotechnical Engineering, LLC.

END OF DISCUSSION AND RECOMMENDATIONS

4.0 LIMITATIONS

This report has been prepared for the exclusive use of *Mental Health Kokua* and this project's consultants for specific application to the design and construction of the *Limited Retaining Wall Stabilization at 1731 Mahani Loop in Honolulu, Oahu, Hawaii* in accordance with generally accepted geotechnical engineering principles and practices. No warranty is expressed or implied. If any part of the project concept is altered or if site conditions differ from those described in this report, then the information presented herein shall be considered invalid, unless the changes are reviewed, and any supplemental or revised recommendations issued in writing by Advanced Geotechnical Engineering, LLC.

The analyses and report recommendations are based in part upon information obtained from the field observation and the assumption that site conditions do not vary significantly from those observed. Variations of the site conditions between and beyond the field observation may occur, and the nature and extent of these variations may not become evident until construction is underway. If variations then appear evident, Advanced Geotechnical Engineering LLC should be notified so that we can re-evaluate the recommendations presented herein.

END OF LIMITATIONS

5.0 REFERENCES

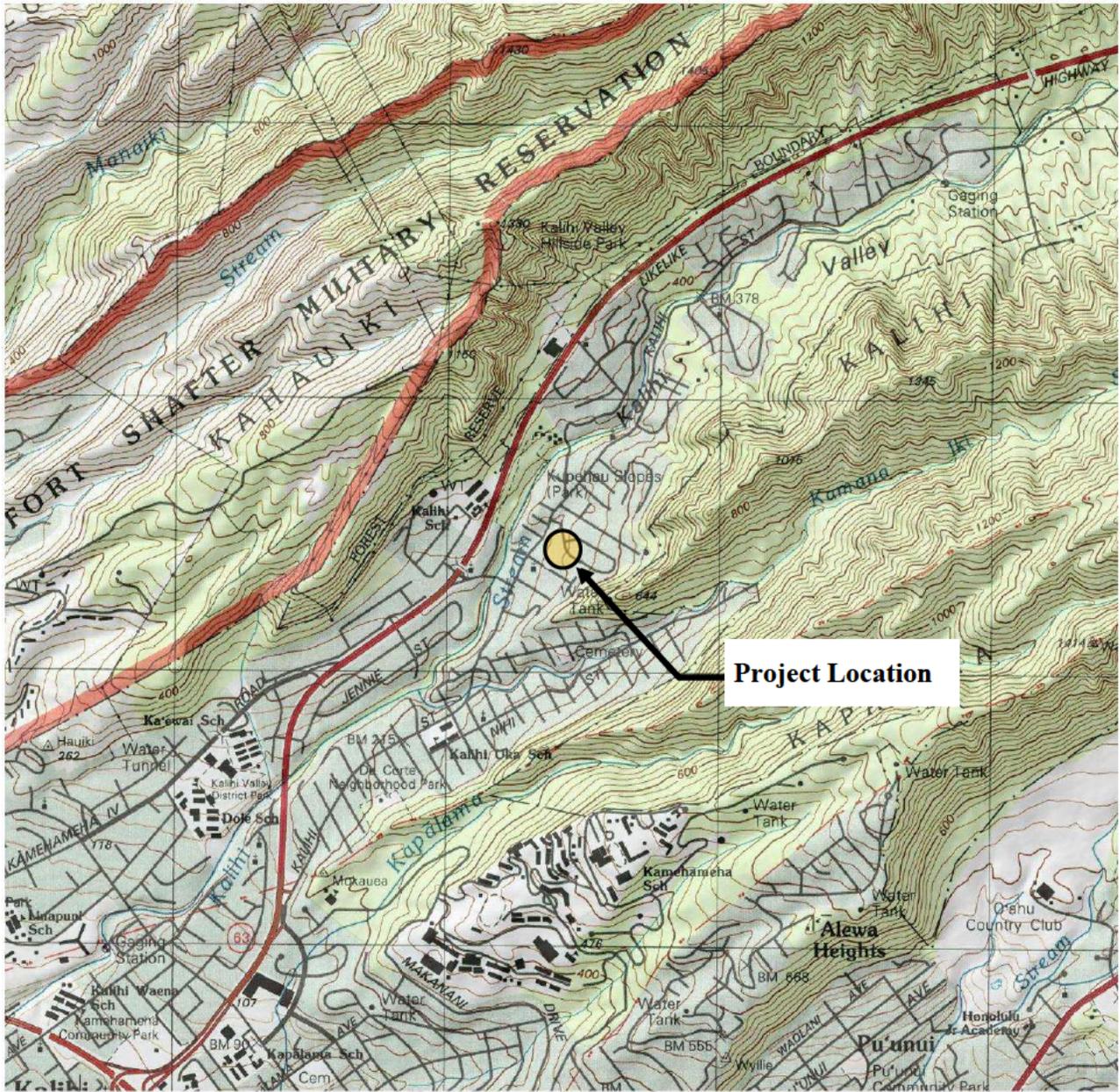
Hunt, C. D. (1996). *Geohydrology of the Island of Oahu, Hawaii*. Pacific Islands Water Science Center. Honolulu: U.S. Geological Survey. doi:10.3133/pp1412B

Stearns, H. T. (1939). *Geologic Map and Guide of the Island of Oahu*. Hawaii: Hawaii Division of Hydrography, Bulletin 2.

Stearns, H. T. (1985). *Geology of the State of Hawaii (2nd ed.)*. Palo Alto: Pacific Books.

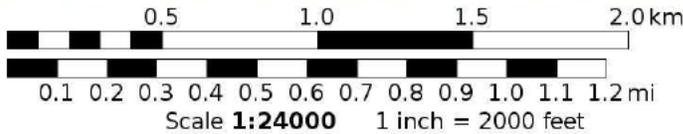
END OF REFERENCES

FIGURES



Project Location

Mercator Projection
WGS84
UTM Zone 4Q



LEGEND:

 Approximate Project Location

GENERAL AREA:

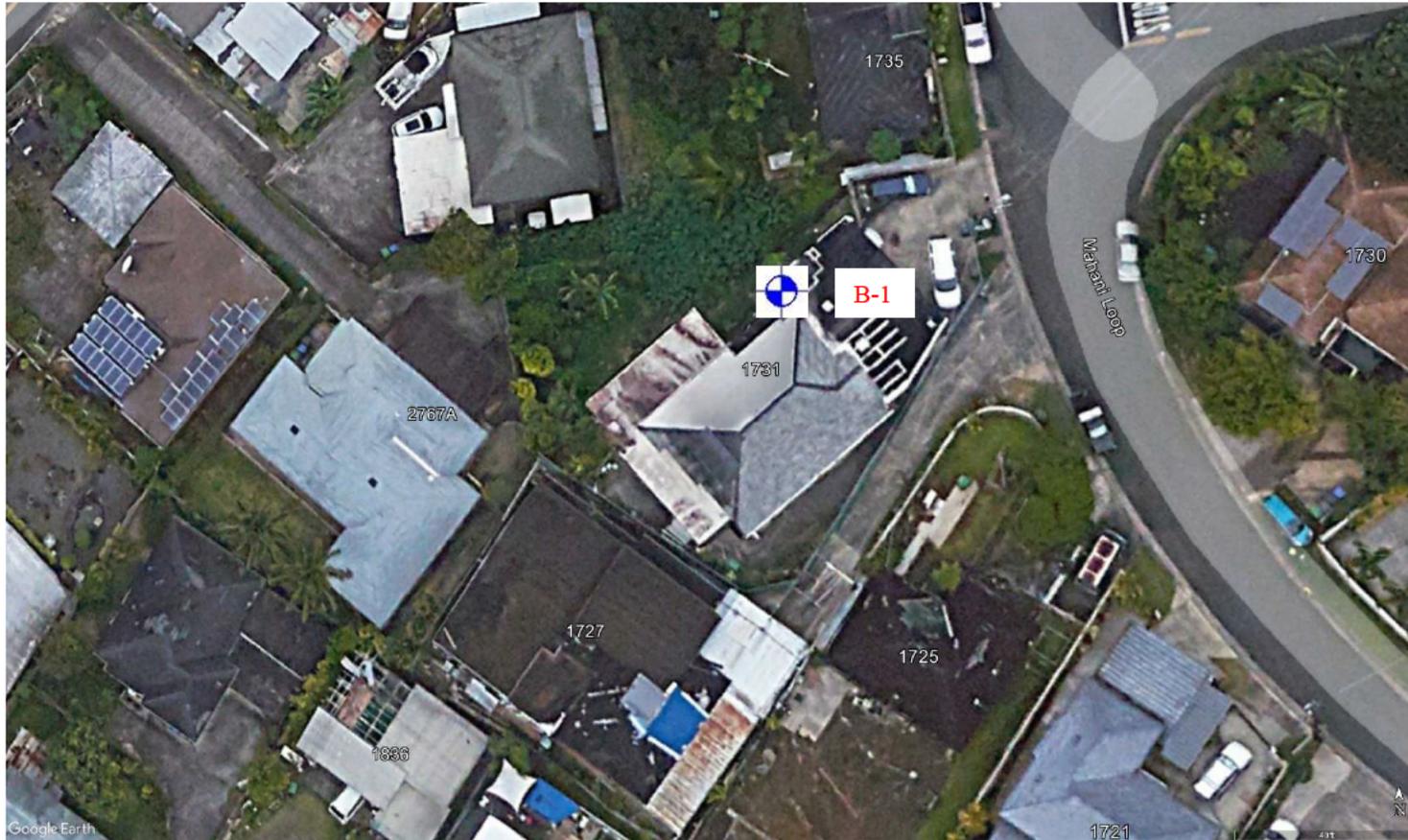
Kalihi, Oahu, Hawaii



PROJECT LOCATION MAP
Limited Retaining Wall Stabilization
1731 Mahani Loop
Honolulu, Oahu, Hawaii

Project No.: 250406.01

May 2025



LEGEND:  Approximate Boring Location

Scale: 1 inch = 40 feet

REFERENCE:

Google Image 1/11/2016



SITE PLAN

Limited Retaining Wall Stabilization
1731 Mahani Loop
Honolulu, Oahu, Hawaii

Project No.: 250406.01

May 2025



Crack and Separation on Driveway (April 23, 2025)

Crack and Separation on Driveway (April 23, 2025)



SITE PHOTOS

Limited Retaining Wall Stabilization
1731 Mahani Loop
Honolulu, Oahu, Hawaii

Project No.: 250406.01

May 2025



Crack on Carport Wall (April 23, 2025)

Slab Crack on Carport Ground (April 23, 2025)



SITE PHOTOS

Limited Retaining Wall Stabilization
1731 Mahani Loop
Honolulu, Oahu, Hawaii

Project No.: 250406.01

May 2025



Cracks, Leaning, Separation of Wall of Carport (April 23, 2025)

Cracks on Leaning Retaining Wall in the Backyard (April 23, 2025)



SITE PHOTOS

Limited Retaining Wall Stabilization
 1731 Mahani Loop
 Honolulu, Oahu, Hawaii

Project No.: 250406.01

May 2025



Cracks on Leaning Retaining Wall in the Backyard (April 23, 2025)

Cracks on Leaning Retaining Wall in the Backyard (April 23, 2025)



SITE PHOTOS

Limited Retaining Wall Stabilization
 1731 Mahani Loop
 Honolulu, Oahu, Hawaii

Project No.: 250406.01

May 2025



Cracks on Leaning Retaining Wall in the Backyard (April 23, 2025)



Crack and Separation of Retaining Wall (April 23, 2025)



SITE PHOTOS

Limited Retaining Wall Stabilization
 1731 Mahani Loop
 Honolulu, Oahu, Hawaii

Project No.: 250406.01

May 2025



Crack and Separation of Retaining Wall (April 23, 2025)



Ground Cracks in the Backyard (April 23, 2025)

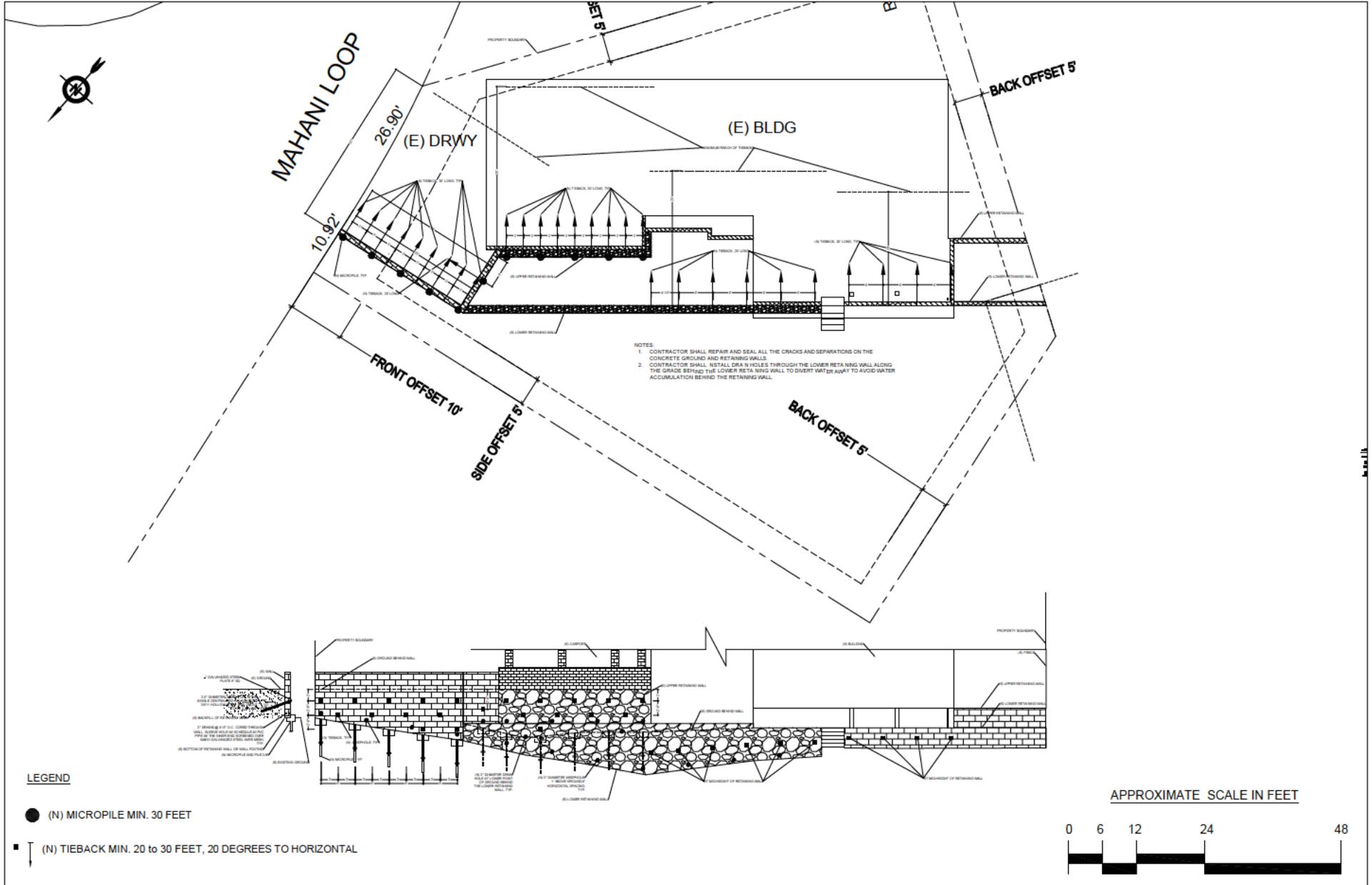


SITE PHOTOS

Limited Retaining Wall Stabilization
1731 Mahani Loop
Honolulu, Oahu, Hawaii

Project No.: 250406.01

May 2025



LIMITED RETAINING WALL STABILIZATION PLAN

MENTAL HEALTH KOKUA
 1731 MAHANI LOOP
 HONOLULU, OAHU, HAWAII

PROJECT NO.: 250406.01

May 2025

APPENDIX A

Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	U.S.C.S	Graphic Log	Material Description	Water Content, %	Dry Unit Weight, pcf	PP (tsf)/Torv. (ksf)	Other Tests Results and Remarks
1	2	3	4	5	6	7	8	9	10	11	12

COLUMN DESCRIPTIONS

- | | |
|---|---|
| <p>1 Elevation (feet): Elevation (MSL, feet).</p> <p>2 Depth (feet): Depth in feet below the ground surface.</p> <p>3 Sample Type: Type of soil sample collected at the depth interval shown.</p> <p>4 Sample Number: Sample identification number.</p> <p>5 Sampling Resistance, blows/ft: Number of blows to advance driven sampler one foot (or distance shown) beyond seating interval using the hammer identified on the boring log. Number in parenthesis indicates equivalent Standard Penetration Test (SPT) blow counts.</p> <p>6 U.S.C.S: Type of material encountered.</p> <p>7 Graphic Log: Graphic depiction of the subsurface material encountered.</p> <p>8 Material Description: Description of material encountered. May include consistency, moisture, color, and other descriptive text.</p> | <p>9 Water Content, %: Water content of the soil sample, expressed as percentage of dry weight of sample.</p> <p>10 Dry Unit Weight, pcf: Dry weight per unit volume of soil sample measured in laboratory, in pounds per cubic foot.</p> <p>11 PP (tsf)/Torv. (ksf): the reading from Poocket Penetrometer (PP) or Torvane (Torv.).</p> <p>12 Other Tests Results and Remarks: Other Tests</p> |
|---|---|

FIELD AND LABORATORY TEST ABBREVIATIONS

- | | |
|--|---|
| <p>BGS: Below ground surface</p> <p>MSL: Mean sea level</p> <p>C: Cohesion (psf)</p> <p>CONS: One-dimensional consolidation test</p> | <p>Phi: Friction angle (degrees)</p> <p>LL: Liquid Limit, percent</p> <p>PI: Plasticity Index, percent</p> <p>UCS: Unconfined compressive strength, in psf for soils and psi for rock</p> |
|--|---|

MATERIAL GRAPHIC SYMBOLS

- | | |
|--|--|
|  Boulders |  Fat CLAY, CLAY w/SAND, SANDY CLAY (CH) |
| |  SILT, SILT w/SAND, SANDY SILT (MH) |

TYPICAL SAMPLER GRAPHIC SYMBOLS

- | | | |
|---|---|---|
|  Bulk Sample |  3.0-inch-OD Modified California |  Shelby Tube (Thin-walled, fixed head) |
|  Dynamic Cone Penetration (DCP) Test |  NX, HQ, PQ Rock Core | |
|  Grab Sample |  2-inch-OD unlined split spoon (SPT) | |

OTHER GRAPHIC SYMBOLS

- | | |
|--|---|
|  Water level (at time of drilling, ATD) |  Water level (after waiting, AW) |
|  Minor change in material properties within a stratum |  Inferred/gradational contact between strata |
|  Queried contact between strata | |

GENERAL NOTES

- 1: Soil classifications are based on the Unified Soil Classification System. Descriptions and stratum lines are interpretive, and actual lithologic changes may be gradual. Field descriptions may have been modified to reflect results of lab tests.
- 2: Descriptions on these logs apply only at the specific boring locations and at the time the borings were advanced. They are not warranted to be representative of subsurface conditions at other locations or times.

C:\Users\shent\OneDrive\Desktop\AGE Projects\Projects\Retaining Wall\250406.01 1731 Mahani Loop Retaining Wall\250406.01 1731 Mahani Loop.bgd\AGE\HandAuger10ftTemplate.tpl

Figure A-0.1

Advanced Geotechnical Engineering LLC				Soil/Rock Classification Log Key			
Soil Classification				Cohesive Soil ($\geq 50\%$ passing #200 sieve)			
Granular Soil ($< 50\%$ passing #200 sieve)				N-value (Blows/Foot)		PP Readings	Consistency
N-value (Blows/Foot)		Relative Density		SPT	MCS	(tsf)	
SPT	MCS			0 - 2	0 - 4	< 0.25	Very Soft
0 - 4	0 - 7	Very Loose		2 - 4	4 - 7	0.25 - 0.5	Soft
4 - 10	7 - 18	Loose		4 - 8	7 - 15	0.5 - 1.0	Medium Stiff
10 - 30	18 - 55	Medium Dense		8 - 15	15 - 27	1.0 - 2.0	Stiff
30 - 50	55 - 91	Dense		15 - 30	27 - 55	2.0 - 4.0	Very Stiff
> 50	> 91	Very Dense		> 30	> 55	> 4.0	Hard
SPT: Standard Penetration Test (Split-Spoon Sampler); MCS: Modified California Sampler; PP: Pocket Penetrometer							
Moisture Content Definitions				Grain Size Definition			
Dry: Absence of moisture, dry to the touch				Description			
Damp: Slightly below the optimum moisture content				Sieve Number and/or Size			
Moist: Near the optimum moisture content				Boulders			
Wet: Wet side of the optimum moisture content				Cobbles			
Saturated: Near or below water table, visible free water				Gravel			
				Sand			
Rock Classification							
Weathering							
Classification		Symbol	Diagnostic Features				
Fresh		F	No visible signs of decomposition or discoloration. Rings under a hammer.				
Slightly Weathered		WS	Slight discoloration inwards from open fractures, otherwise similar to Fresh.				
Moderately Weathered		WM	Discoloration throughout. Weaker minerals partially decomposed. Strength somewhat less than Fresh rock but cannot be broken by hand or scraped by knife. Texture preserved.				
Highly Weathered		WH	Most minerals somewhat decomposed. Specimens can be broken by hand with effort or shaved with knife. Core stones present in rock mass. Texture becomes indistinct but fabric preserved.				
Completely Weathered		WC	Minerals decomposed to soil but fabric and structure preserved (saprolite). Specimens easily crumbled or penetrated.				
Hardness		UCS (psi)	Field Test				
Very Hard		$> 13,900$	More than 1 blow of the hammer end of a pick required to break hand-held specimen.				
Hard		6,900 to 13,900	Cannot be scraped or peeled with knife. Hand-held specimen can be broken with one moderate blow with pick.				
Medium Hard		3,500 to 6,900	Can just be scraped or peeled with knife, indentations of 1 to 3 mm show in specimen with moderate blow with pick.				
Soft		140 to 3,500	Material crumbles under moderate blow with sharp end of pick. Can be peeled with a knife but is too hard to hand-trim for test specimen.				
Fracturing Classification							
Classification		Typical Range of RQD		Size of Pieces			
Very broken		0		< 1 inch			
Broken		< 25		1 inch - 4 inches			
Occasionally broken		25 to 75		4 inches - 12 inches			
Massive		> 75		> 12 inches			

Figure A-0.2

Project Number: 250406.01
 Limited Retaining Wall Stabilization
 1731 Mahani Loop
 Kalihi, Oahu, Hawaii

**Advanced Geotechnical
 Engineering LLC**
 790 Puu Kala Street
 Pearl City, HI 96782

Log of Boring B-1
 Sheet 1 of 2

Date(s) Drilled 4/23/2025	Logged By SW	Checked By SW
Drilling Method Auger/Core	Drill Bit Size/Type 4-inch/Solid/3 to 4 inch Core;	Total Depth of Borehole 18 feet bgs
Drill Rig Type Earth Auger/Hammer Drill	Drilling Contractor N.A.	Approximate Surface Elevation +300 feet MSL*
Groundwater Level and Date Measured Not Encountered	Sampling Method(s) Grab	Hammer Data
Borehole Backfill Cuttings	Location See Site Plan (Figure 2)	

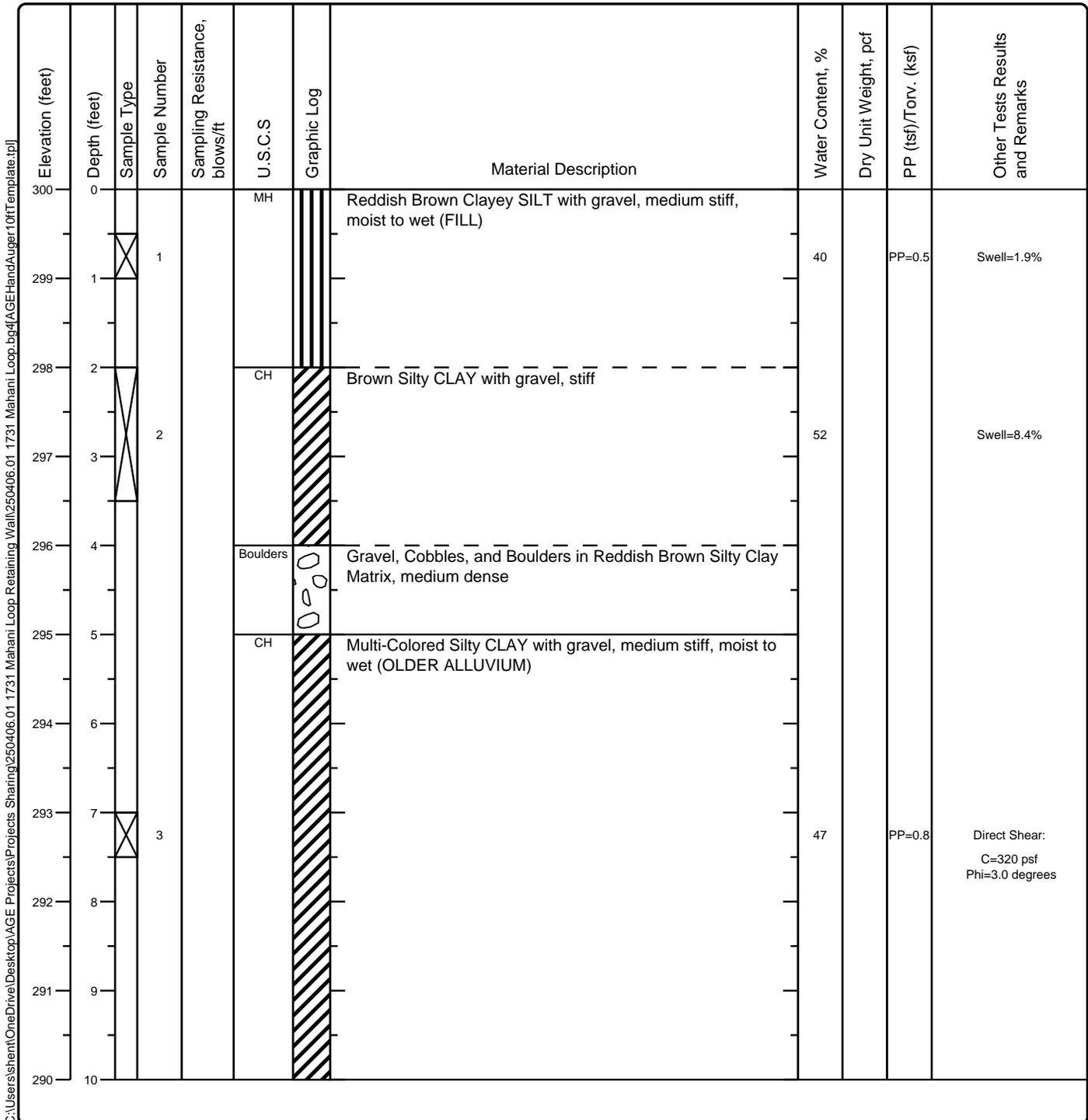


Figure A-1

Project Number: 250406.01 Limited Retaining Wall Stabilization 1731 Mahani Loop Kalihi, Oahu, Hawaii	Advanced Geotechnical Engineering LLC 790 Puu Kala Street Pearl City, HI 96782	Log of Boring B-1 Sheet 2 of 2
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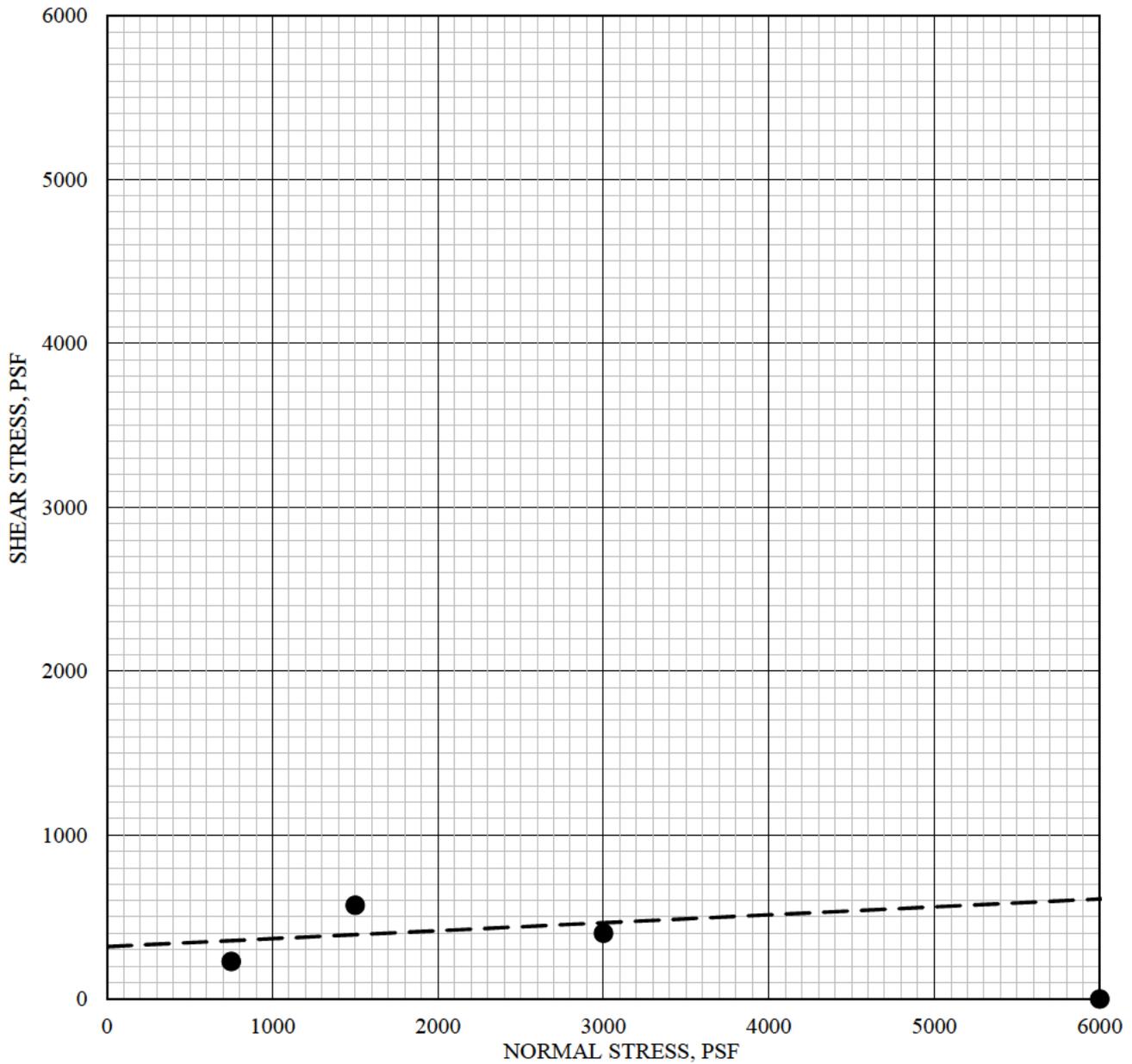
Date(s) Drilled: 4/23/2025	Logged By: SW	Checked By: SW
Drilling Method: Auger/Core	Drill Bit Size/Type: 4-inch/Solid/3 to 4 inch Core;	Total Depth of Borehole: 18 feet bgs
Drill Rig Type: Earth Auger/Hammer Drill	Drilling Contractor: N.A.	Approximate Surface Elevation: +300 feet MSL*
Groundwater Level and Date Measured: Not Encountered	Sampling Method(s): Grab	Hammer Data:
Borehole Backfill: Cuttings	Location: See Site Plan (Figure 2)	

Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	U.S.C.S	Graphic Log	Material Description	Water Content, %	Dry Unit Weight, pcf	PP (tsf)/Torv. (ksf)	Other Tests Results and Remarks
290	10				CH		Multi-Colored Silty CLAY with gravel, medium stiff, moist to wet (OLDER ALLUVIUM) At 10.5', becomes reddish brown, stiff to very stiff				
289	11										
288	12										
287	13										
286	14										
285	15										
284	16										
283	17										
282	18						Boring terminated at approximately 18.0 feet below the existing ground surface.				
281	19						*Elevation estimated from Google Earth Imagery 1/11/2016.				
280	20										

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Figure A-1

APPENDIX B



Sample	Depth (feet)	Material Description	C	ϕ	Dry Density	Moisture Content	Swell
			(psf)	(degrees)	(pcf)	(%)	(%)
1-3	7.0 - 7.5	Multi-colored Silty CLAY (CH) with gravel	320	3.0	79	47	

DIRECT SHEAR TEST (ASTM D3080) RESULTS

	<p align="center"> Limited Retaining Wall Stabilization 1731 Mahani Loop Honolulu, Oahu, Hawaii TMK: 1-4-023:021 </p>	<p align="center">PROJECT NUMBER 250406.01</p>
		<p align="center">DATE May 2025</p>
		<p align="center">FIGURE B-2</p>

BUDGET REQUEST BY SOURCE OF FUNDS

Period: July 1, 2026 to June 30, 2027

Applicant: Mental Health Kokua

NOT APPLICABLE

BUDGET CATEGORIES	Total State Funds Requested (a)	Total Federal Funds Requested (b)	Total County Funds Requested (c)	Total Private/Other Funds Requested (d)
A. PERSONNEL COST				
1. Salaries				
2. Payroll Taxes & Assessments				
3. Fringe Benefits				
TOTAL PERSONNEL COST				
B. OTHER CURRENT EXPENSES				
1. Airfare, Inter-Island				
2. Insurance				
3. Lease/Rental of Equipment				
4. Lease/Rental of Space				
5. Staff Training				
6. Supplies				
7. Telecommunication				
8. Utilities				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
TOTAL OTHER CURRENT EXPENSES				
C. EQUIPMENT PURCHASES				
D. MOTOR VEHICLE PURCHASES				
E. CAPITAL				
TOTAL (A+B+C+D+E)				
SOURCES OF FUNDING		Budget Prepared By:		
(a) Total State Funds Requested		Name (Please type or print) _____ Phone _____		
(b) Total Federal Funds Requested		Signature of Authorized Official _____ Date _____		
(c) Total County Funds Requested		Name and Title (Please type or print) _____		
(d) Total Private/Other Funds Requested				
TOTAL BUDGET				

BUDGET JUSTIFICATION - EQUIPMENT AND MOTOR VEHICLES

Period: July 1, 2026 to June 30, 2027

Applicant: Mental Health Kokua

NOT APPLICABLE

DESCRIPTION EQUIPMENT	NO. OF ITEMS	COST PER ITEM	TOTAL COST	TOTAL BUDGETED
			\$ -	
			\$ -	
			\$ -	
			\$ -	
			\$ -	
TOTAL:				
JUSTIFICATION/COMMENTS:				

DESCRIPTION OF MOTOR VEHICLE	NO. OF VEHICLES	COST PER VEHICLE	TOTAL COST	TOTAL BUDGETED
			\$ -	
			\$ -	
			\$ -	
			\$ -	
			\$ -	
TOTAL:				
JUSTIFICATION/COMMENTS:				

BUDGET JUSTIFICATION - CAPITAL PROJECT DETAILS

Period: July 1, 2026 to June 30, 2027

Applicant: Mental Health Kokua

FUNDING AMOUNT REQUESTED						
TOTAL PROJECT COST	ALL SOURCES OF FUNDS RECEIVED IN PRIOR YEARS		STATE FUNDS REQUESTED	OTHER SOURCES OF FUNDS REQUESTED	FUNDING REQUIRED IN SUCCEEDING YEARS	
	FY:2024-2025	FY:2025-2026	FY:2026-2027	FY:2026-2027	FY:2027-2028	FY:2028-2029
PLANS						
LAND ACQUISITION						
DESIGN						
CONSTRUCTION				239648		
EQUIPMENT						
TOTAL:				239,648		
JUSTIFICATION/COMMENTS:						
MHK is requesting a one-time capital expense for housing foundation repair.						

GOVERNMENT CONTRACTS, GRANTS, AND / OR GRANTS IN AID

Applicant: Mental Health Kokua

Contracts Total: 17,945,442

	CONTRACT DESCRIPTION	EFFECTIVE DATES	AGENCY	GOVERNMENT ENTITY (U.S./State/Hawaii/ Honolulu/ Kauai/ Maui County)	CONTRACT VALUE
1	24hr & 8-16hr Group Home ASO 25-201	Since 1982	Hawaii DOH-AMHD	State	7,000,000
2	PATH ASO 25-189	Since 2018	Hawaii DOH-AMHD	State	97,382
3	TLP ASO 25-213	Since 2018	Hawaii DOH-AMHD	State	1,000,000
4	Semi-Independent Lving ASO 25-271	Since 2018	Hawaii DOH-AMHD	State	120,000
5	Punawai Rest Stop CT-DCS-1800335	Since 2019	City & County of Honolu	Honolulu	1,100,000
6	Case Management	Since 2010	Ohana Health Plan-DH	State	5,000,000
7	State Kauhale Central DHS-25_GOV-0028	Since 2025	Dept. of Human Svc	Maui	687,852
8	State Kauhale Vineyard DHS-25_GOV-0029	Since 2025	Dept. of Human Svc	Maui	938,909
9	State Kauhale Iwilei DHS-25-GOV-0027	Since 2025	Dept. of Human Svc	Honolulu	1,713,962
10	County of Maui HOME/PSR	Since 2015	County of Maui	Maui	95,000
11	County of Maui Safe Haven	Since 2015	County of Maui	Maui	192,337
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MHK Organizational Chart FY2025-2026

