Invitation for Bids

Maluhia Replace Exit Doors
23M - 0121

The Hawaii Health Systems Corporation (HHSC) Oahu Region is requesting bids from qualified companies for the replacement of the facility exit doors at Maluhia located at 1027 Hala Dr., Honolulu, HI 96817.

The IFB may be obtained electronically from the following website:
http://maluhia.hhsc.org/procurement/notices/

A site visit is scheduled for March 12, 2024 at 10:00 a.m. All interested companies shall meet in the Maluhia sub-basement entrance area, adjacent to the main parking lot. The deadline for submission of written/emailed questions pertaining to the IFB is March 19, 2024.

All bids must be received by HHSC by April 2, 2024, 2:00 p.m. Hawaii Standard Time. All bids shall be sent digitally to skawai@hhsc.org. E-mail bids not received by deadline will be disqualified for consideration. No exceptions will be made even if network provider or software (e.g. MS Outlook) delays delivery. Please note that large files (>10MB) may experience network delivery issues.

Addenda to the IFB will be posted on the website listed above.

For any inquiries, please contact Scott Kawai, Oahu Region Contracts Department, at (808) 832-3025 or by email at skawai@hhsc.org.

Maluhia
1027 Hala Drive
Honolulu, HI 96817

TABLE OF CONTENTS

SECTION 1
ADMINISTRATION

1.0 INTRODUCTION

This Invitation for Bid (hereinafter "IFB") is issued by the Hawaii Health Systems Corporation (hereinafter "HHSC"), a public body corporate and politic and an instrumentality and agency of the State of Hawaii. All procedures and processes will be in accordance with HHSC Oahu Region policy and procedures.

In order for HHSC to accept Bidder's response in a timely manner, please thoroughly read this IFB and follow instructions as presented.

1.1 IFB TIMETABLE AS FOLLOWS

The timetable as presented represents HHSC's best estimated schedule. If an activity of the timetable, such as "Closing Date for Receipt of Bids" is delayed, the rest of the timetable dates may be modified. BIDDER will be advised, by addendum to the IFB, of any such modifications to the timetable. Contract start date will be subject to the issuance of a Notice to Proceed.

ACTIVITY		SCHEDULED DATES
1.	IFB Public Announcement	March 5, 2024
2.	Pre-Bid Orientation Maluhia sub-basement entrance 10:00 a.m.	March 12, 2024
3.	Closing Date for Receipt of Questions	March 19, 2024
4.	**Closing Date for Receipt of Bids 2:00 p.m.**	**April 2, 2024**
5.	Contractor Selection/Award Notification (on/about)	April 3, 2024
6.	Contract Start Date (on/about)	April 17, 2024

1.2 AUTHORITY

This IFB is issued following the provisions of Chapter 323F, Hawaii Revised Statutes (HRS), and its administrative rules. All BIDDERS are charged with presumptive knowledge of all requirements of the cited authorities. Submission of a valid executed bid by any BIDDER shall constitute admission of such knowledge on the part of such BIDDER.

1.2.1 IFB ORGANIZATION

This IFB is organized into four sections:

SECTION 1: ADMINISTRATIVE
Provides information regarding administrative requirements.

SECTION 2: SCOPE OF SERVICES
Provides a detailed description of goods and/or services to be provided and delineates HHSC and CONTRACTOR responsibilities.

SECTION 3: BID FORMS AND GENERAL CONDITIONS
Describes the required format and content for submission of the bid.

SECTION 4: BID EVALUATION AND AWARD
Describes how bids will be evaluation and procedures for selection and award of contract.

1.3 HEAD OF PURCHASING AGENCY (HOPA)

The HOPA for HHSC, or designee, is authorized to execute any and all Agreements (Contracts), resulting from this IFB.

The HOPA for this IFB is:

Derek Akiyoshi
Regional Chief Executive Officer
Hawaii Health Systems Corporation

1.4 DESIGNATED OFFICIALS

The officials identified in the following paragraphs have been designated by the HOPA as HHSC's procurement officials responsible for execution of this IFB, award of Agreement and coordination of CONTRACTOR's satisfactory completion of contract requirements.

1.4.1 ISSUING OFFICER

The Issuing Officer is responsible for administrating/facilitating all requirements of the IFB solicitation process and is the **sole point of contact** for BIDDER from date of public announcement of the IFB until the selection of the successful BIDDER. The Issuing Officer will also be responsible for contractual actions throughout the term of the contract. For purposes of this IFB, the designated Issuing Officer is:

Scott Kawai
Director of Contracts and Project Management
e-mail: skawai@hhsc.org
phone: (808) 832-3025

1.5.1 CHARTER

HHSC is a public body corporate and politic and an instrumentality and agency of the State of Hawaii. HHSC is administratively attached to the Department of Health, State of Hawaii and was created by the legislature with passage of Act 262, Session Laws of the State of Hawaii 1996. Act 262 affirms the State's commitment to provide quality health care for the people in the State of Hawaii, including those served by small rural facilities.

1.5.2 STRUCTURE AND SERVICES

HHSC is organized into four operational regions and provides a broad range of healthcare services including acute, long term, rural and ambulatory health care services. As the fourth largest public health system in the country, HHSC is the largest provider of healthcare in the Islands, other than on Oahu. This solicitation is for the Oahu Region.

1.5.3 MISSION

The mission of HHSC is to provide and enhance accessible, comprehensive health care services that are quality-driven, customer-focused and cost-effective.

1.6 FACILITY INFORMATION

Detailed information pertaining to HHSC facilities is located at http://www.hhsc.org.

1.7 SUBMISSION OF QUESTIONS

Questions must be submitted in writing via electronic mail, facsimile or post mail to the Issuing Officer no later than the "Closing Date for Receipt of Questions", identified in paragraph 1.1 in order to generate an official answer. All written questions will receive an official written response from HHSC and become addenda to the IFB.

IMPORTANT

BIDDER may request changes and/or propose alternate language to the attached HHSC General and Special Terms and Conditions during this phase only. All requests will be presented to the HHSC Legal Department for review. No requests to change the HHSC General or Special Terms and Conditions will be entertained after the bids have been submitted or during the contracting process. All written questions and/or approved changes will receive an official written response from HHSC and shall be recorded as addenda to the IFB.

HHSC reserves the right to reject or deny any request(s) made by BIDDER.

Responses by HHSC shall be due to the BIDDER prior to notice of award.

Impromptu, un-written questions are permitted and verbal answers will be provided during pre-bid conferences and other occasions, but are only intended as general direction and will not represent the official HHSC position. The only official position of HHSC is that which is stated in writing and issued in the IFB as addenda thereto.

No other means of communication, whether oral or written, shall be construed as a formal or official response/statement and may not be relied upon.

SEND QUESTIONS TO:

Scott Kawai, Issuing Officer
e-mail: skawai@hhsc.org

1.8 SOLICITATION REVIEW

BIDDER should carefully review this solicitation for defects and questionable or objectionable matter. Comments concerning defects and questionable or objectionable matter, **excluding requests to revise the General or Special Conditions**, must be made in writing and should be received by the Issuing Officer, no later than the "Closing Date for Receipt of Bids" as identified in Section 1.1. This will allow issuance of any necessary amendments to the IFB. It will also assist in preventing the opening of bids upon which award may not be made due to a defective solicitation package.

1.9 IFB AMENDMENTS

HHSC reserves the right to amend the IFB any time prior to the deadline date of the IFB. IFB Amendments will be in the form of addenda.

1.10 CANCELLATION OF IFB

The IFB may be canceled when it is determined to be in the best interests of HHSC.

1.11 PROTESTS

Any protest shall be submitted in writing to the HOPA as noted below.

A protest based upon the content of the solicitation shall be submitted in writing within five (5) working days **after** the aggrieved individual/business knows or should have known of the facts giving rise thereto; provided further that the protest shall not be considered unless it is submitted in writing prior to and not later than the "Closing Date for Receipt of Bid" identified in section 1.1.

A protest of an award or proposed award shall be submitted within five (5) working days after the posting of award of the contract. The notice of award, if any, resulting from this solicitation shall be posted at the following website: http://leahi.hhsc.org/procurement/notices/

Any and all protests shall be submitted in writing to the HOPA, as follows:

Derek Akiyoshi
Hawaii Health Systems Corporation
Oahu Region
3675 Kilauea Avenue
Honolulu, Hawaii 96816

1.12 PERFORMANCE AND PAYMENT BOND

Performance and payment bonds shall be required for contracts $25,000 and higher. At the time of the execution of the contract, the successful Bidder shall file good and sufficient performance and payment bonds, each in an amount equal to one hundred percent (100%) of the amount of the contract price unless otherwise stated in the solicitation of bids.

1.13 SPECIALTY CONTRACTOR'S LICENSE

A. Contractor shall be solely responsible to ensure that all specialty licenses required to perform the Work are covered by the Contractor and/or its subcontractor(s).

1.14 WORKING HOURS

A. Regular working hours for this project shall take place between the hours of 8:00 AM to 4:30 PM Monday through Friday, excluding State Holidays, unless otherwise noted or restricted.

B. The Contractor may be given approval to work beyond the regular hours including Saturdays, Sundays, State Holidays, night work, or after hours under the provisions of the GENERAL CONDITIONS.

1.15 SPECIAL PROCEDURES DURING BIDDING

A. Bid documents will be available upon request.

B. All bids shall be submitted to the Issuing Officer.

C. All questions regarding the IFB shall be submitted, in writing, to the Issuing Officer, who shall review the questions and issue any responses via Addendum. Only information received by Addendum shall be binding.

D. Any visitation to the site to examine the scope of work shall be requested through the HHSC Representative. Disruption of facility operations shall not be permitted.

SECTION 2
SCOPE OF SERVICES

2.0 INTRODUCTION

MALUHIA REPLACE EXIT DOORS

Work for this project shall include, but is not limited to removal, disposal, and furnishing and installing new doors, complete, and miscellaneous work as indicated in the Plans.

2.1 CONTRACT PERIOD

The work shall be completed within 125 consecutive calendar days.

2.2 SCOPE OF SERVICES

A. The CONTRACTOR shall complete the work specified in the specifications and drawings in APPENDIX C.

B. Qualifications. The CONTRACTOR shall have:

1. A current and valid license to perform the scope of work.
2. Have been in business for the past three (3) consecutive years.
3. A permanent, on-island office location in conducting business which is accessible to telephone calls. An answering service is not acceptable.

C. HOSPITAL shall provide:

Technical Representatives who shall have the authority to oversee the successful completion of contract requirements, including monitoring, coordinating and assessing CONTRACTOR performance; placing requests for services; and, approving completed work/services with verification of same for CONTRACTOR's invoices. Technical Representatives will also serve as points of contact for "technical" matters throughout the term of the contract.

SECTION 3
Bid Forms and General Conditions

General Instructions for Completing Forms

- *Bids shall be submitted in the prescribed format outlined in this IFB*
- *No supplemental literature, brochures or other unsolicited information should be included in the bid packet.*
- *A written response is required for each item unless indicated otherwise.*

3.0 Bid Form

The bid form must be completed and submitted to HHSC by the required due date and time, and in the form prescribed by the HHSC. Facsimile transmissions shall not be accepted.

Interested bidders shall submit their bid under the interested bidder's exact legal name that is registered with the Department of Commerce and Consumer Affairs and shall indicate this exact legal name in the appropriate space on page 1 of the bid form. Failure to do so may delay proper execution of the Contract.

Interested bidders shall certify its ability to provide services on April 17, 2024 or upon execution of the Contract agreement by both parties. The Hospital reserves the right to apply liquidated damages for the delay in Contract execution on the part of the Contractor.

The interested bidder's authorized signature shall certify bid documents. If the Bid Form on Appendix A is unsigned the bid shall be automatically rejected.

The option to extend the Contract shall be at the sole discretion of the Hospital and determined to be in the best interests of the State.

3.1 Bid Security

All lump sum bids of $25,000 and higher, or lump sum base bids including alternates of $25,000 and higher, that are not accompanied by bid security are non –responsive.

a. The bid security shall be in an amount equal to at least five percent (5%) of the lump sum bid or lump sum base bid including alternates or in an amount required by the terms of the federal funding, where applicable.

3.2 General Conditions

The State of Hawaii INTERIM GENERAL CONDITIONS, dated August 1999, and AMENDMENTS shall be read by the Contractor as they form a part of the Agreement to be entered into between the Contractor and HHSC. The Interim General Conditions are not physically included in these specifications, but are included by reference. Copies of the INTERIM GENERAL CONDITIONS may be obtained from the Division of Public works, Department of Accounting and General Services, State of Hawaii at the following website: http://hawaii.gov/pwd/construction_bids/Members/qc/gen_cond_constr

The General Conditions are hereby amended as follows:

a. The following terms specified in Section 1 are hereby defined:

i) Bidder shall have the same definition as Contractor.

ii) Comptroller shall be the Chief Financial Officer at HHSC or his authorized representative.

iii) Department shall be HHSC or its designee.

iv) Engineer shall be the person so designated by HHSC.

v) State shall be HHSC or its designee.

b. Section 1.20 and 1.25 replace "State of Hawaii" with "State".

c. The last two sentences of the third paragraph of Section 2.1.1.2, in the Interim General Conditions is deleted and is replaced with the following:

" If the notice is faxed, the time of receipt by the CEO's fax machine shall be official. The submittal of intention to bid via fax is acceptable only to this office."

d. Section 2.1.2.1: second sentence is hereby deleted in its entirety.

e. Last sentence of paragraph 2.1.2.3 of the Interim General Conditions is amended to read as follows:

"Failure to submit either the required tax clearance certificate or Bid Form will be sufficient grounds for HHSC to refuse to receive or consider the prospective bidder's proposal."

f. The addresses specified in Section 2.6.1 of the Interim General Conditions shall be changed to Leahi Hospital 3675 Kilauea Avenue Honolulu Hawaii 96816.

g. Sections 2.10 through 2.11 are hereby deleted in their entirety.

h. Paragraph 3.8.1 of the Interim General Conditions is amended to read as follows:

“The contract shall be signed and forwarded to HHSC (Contracts Office), by the successful bidder all within three (3) days of receipt of the contract. The performance and payment bonds shall be received by HHSC (Contracts Office) within ten (10) calendar days after the bidders is awarded the contract. No proposal or contract shall be considered binding until the contract has been fully and properly executed by all parties thereto.”

i. In paragraph 3.9.2 of the Interim General Conditions, “ten (10) calendar days after such award or within such further time as the Comptroller may allow” shall be replaced with, “the time allowed in the previous section.”

j. Section 4.1: the words “accepted bid” is deleted from the first sentence.

k. Section 4.9.3: the words “submission of bids” is replaced with the words “execution of this contract”.

l. Section 5.5: the last sentence is hereby deleted in its entirety and replaced with the following:

"In the event of conflict among the Contract Documents, the order of precedence is listed in paragraph 5 of this contract and is further detailed in the following subparagraphs:"

m. Sections 5.5.1 and 5.5.2 are hereby deleted in their entirety.

n. Section 5.8.1: "twenty-four (24)" is hereby changed to "three (3)".

o. Section 5.11 is hereby deleted in its entirety.

p. Section 5.12.4 is hereby deleted in its entirety.

q. Section 7.3.7.4, subparagraphs a and b: Replace "If the project falls within the State University System, The University of Hawaii" with "HHSC."

r. Section 7.4.1 is hereby deleted in its entirety and replaced with the following:

"The Contractor shall prepare, process, obtain, and pay for all permits necessary for the proper execution of the work."

s. Section 7.7.2 is amended to read as follows: "The wage rate schedule is attached to this contract."

t. Sections 7.14.2, 7.19.2, and 7.19.4: delete "Departments and Agencies and their" and insert "directors" between "officers" and "representatives".

u. Section 7.14.4 is hereby added and reads as follows:

"Contractor warrants that it and none of its employees, agents or subcontractors performing services or providing goods pursuant to this Agreement are excluded from participation in federal health care programs, as defined in the Social Security Act (section 1128 and 1128A), and other federal laws and regulations relating to health care. HHSC reserves the right to verify that the above warranty is true and to immediately cancel this Agreement in the event it is violated."

v. Section 7.15 delete "and its Departments and Agencies".

w. Section 7.21.8.6 — Delete the word "bad" before the words "weather day conditions."

x. Section 7.35.1: the last word "earlier" is changed to "later".

3. CORPORATE COMPLIANCE PROGRAM. A description of the Corporate Compliance Program of HHSC is posted on the HHSC Internet (www.hhsc.org). The CONTRACTOR, by signing this contract, acknowledges that it has read said description, and that the CONTRACTOR knows of the fact and substance of the Corporate Compliance Program, which governs operations at all facilities of the HHSC. The CONTRACTOR understands and agrees that employees, agents, and contractors performing any services at any of the HHSC facilities shall be fully subject to such Corporate Compliance Program, as may be amended from time to time, as well as all federal program requirements and applicable policies and procedures of HHSC and its facilities. The Corporate Compliance Program requires periodic training, including an orientation program, of all people who provide financial, business office, personnel, coding, medical records information systems and clinical services in the facility. The CONTRACTOR agrees to cause its employees, agents, and contractors who provide any services at any financial, business office, personnel, coding, medical records information systems and clinical services at any of the HHSC facilities to participate in the orientation and training programs.

4. CONFIDENTIAL INFORMATION. It is acknowledged and agreed that all of the trade secrets, business plans, marketing plans, know how, data, contracts, documents, scientific and medical concepts, billing records, personnel records, medical records of any kind, and referral resources for existing or future services, products, operations, management, business, pricing, financial status, valuations, business plans, goals, strategies, objectives and agreements of HHSC and any of its facilities, affiliates or subsidiaries, and all patient information, in any form, whether written, verbal, or electronic, are confidential ("Confidential Information"); provided, however, that Confidential Information, with the exception of patient information, shall not include information that is in the public domain.

5. CONTRACTOR EXCLUSION FROM FEDERAL PROGRAMS. CONTRACTOR warrants that it and none of its employees, agents or subcontractors performing services or providing goods pursuant to this Agreement are excluded from participation in federal health care programs, as defined in the Social Security Act (section 1128 and 1128A), and other federal laws and regulations relating to health care. HHSC reserves the right to verify that the above warranty is true and to immediately cancel this Agreement in the event it is violated.

6. CAMPAIGN CONTRIBUTIONS BY STATE AND COUNTY CONTRACTORS.
CONTRACTORs are hereby notified of the applicability of Section 11-205.5, HRS, which states that campaign contributions are prohibited from specified State or county government contractors during the term of the contract if the contractors are paid with funds appropriated by a legislative body. For more information, please consult with the Campaign Spending Commission, or visit its website, www.hawaii.govicampaign.

(END OF SECTION)

SECTION 4
BID EVALUATION AND AWARD

4.0 Bid Evaluation

Each bid offer will be reviewed for exact conformity of the requirements in the IFB, known as a responsible bid. Information provided in/with the bid offer will be used to determine whether the interested bidder has the technical and financial capacity to deliver the goods or services, known as a responsive bid.

4.1 Method of Award

A. The contract will be awarded to the lowest responsive and responsible Bidder whose bid (including any alternates which may be selected) meets the requirements and criteria set forth in the solicitation documents.

B. In the event the total lump sum bid of all bidders exceeds the project control budget, HHSC reserves the right to make an award to the apparent Low Bidder if additional funds are available or by reducing the scope of work through negotiation.

4.2 Contract Execution

Upon receipt of the Contract document, the CONTRACTOR shall have ten (10) business days to execute and return the Contract to the Issuing Officer. Explicit execution instructions will accompany the Contract. A copy of the fully executed Contract will be provided the CONTRACTOR within seven (7) business days of Contract execution.

Award of Contract may be withdrawn if the CONTRACTOR is unable to meet Contract execution requirements.

(END OF SECTION)

APPENDIX A

SAMPLE
BID TRANSMITTAL COVER LETTER

Dear Mr. Kawai,

(Name of Business) proposes to provide any and all goods and services as set forth in the "Invitation for Bid" for Maluhia Replace Exit Doors IFB No. 23M-0121, for which fees/costs have been set. The fees/costs offered herein shall apply from XXX, 2024 to XXX, 2025.

It is understood and agreed that (Name of Business) have read HHSC's Scope of Services described in the IFB and that this bid is made in accordance with the provisions of such Scope of Services. By signing this bid, (Name of Business) guarantee and certify that all items included in this bid meet or exceed any and all such Scope of Services. (Name of Business) agree, if awarded the contract, to provide the goods and services set forth in the IFB; and comply with all terms and conditions indicated in the IFB; and at the fees/costs set forth in this bid. The following individual(s) may be contacted regarding this bid:_____

_____

Other information:

Address:		Federal Tax ID #:	
Phone No.:		Hawaii GET ID #:	
E-mail address:			

(Name of Business) is a: ☐ Sole Proprietor ☐ Partnership ☐ Corporation ☐ Joint Venture Other (Specify)_____

State of Incorporation is: (Specify)_____

Year of Business started: _____

The exact legal name of the business under which the contract, if awarded, shall be executed is:_____

_____

(Authorized Bidder's Signature, Printed Name/Title; Corporate Seal or Notarized)

APPENDIX B

IFB No. 23M-0121
Maluhia Replace Exit Doors

BID FORM

After carefully examining the bid documents, drawings and specifications identified above, the Bidder proposes to furnish at its own expense all necessary labor, materials, tools and equipment to complete the work according to the true intent and meaning of the drawings and specifications, all for the Lump Sum Base Bid of:

_____DOLLARS ($_____)

(Schedule of Values must be submitted with the Bid).

Respectfully Submitted:

_____ _____
Signature / Printed Name Date

_____
Title

OTHER CONDITIONS

1. Bidder agrees to liquidated damages as specified.

2. By submitting this proposal, the Bidder is declaring that its firm has not been assisted or represented on this matter by an individual who has, in a County capacity, been involved in the subject matter of this contract in the past two years;

3. Anti-collusion certification. In accordance with HAR 3-122-192, by submitting this proposal, the Bidder is declaring that the price submitted is independently arrived at without collusion.

4. Certification for Safety and Health Program for bids in excess of $100,000. In accordance with HRS 396-18, the Bidder certifies that its organization will have a written safety and health plan for this project that will be available and implemented by the Notice to Proceed date of this project. Details of the requirements of this plan may be obtained from the Department of Labor and Industrial Relations, Occupational Safety and Health Division (HIOSH); and

5. Upon the acceptance of the proposal by the HHSC, the Bidder must enter into and execute a contract for the same and furnish a Performance and Payment bond, as required by law.

RECEIPT OF ADDENDA
Receipt of the following addenda issued by HHSC is acknowledged by the date (s) of receipt indicated below:

Addendum No. 1 _____ Addendum No. 3 _____
Date
Addendum No. 2 _____ Addendum No. 4_____

It is understood that failure to receive any such addendum shall not relieve the Bidder from any obligation under this Proposal as submitted.

ALL JOINT CONTRACTORS OR SUBCONTRACTORS TO BE ENGAGED ON THIS PROJECT

The Bidder certifies that the following is a complete listing of all joint contractors or subcontractors covered under Chapter 444, Hawaii Revised Statutes, who will be engaged by the Bidder on this project to perform the nature and scope of work indicated and understands that failure to comply with this requirement may be just cause for rejection of the bid.

The Bidder further understands that only those joint contractors or subcontractors listed shall be allowed to perform work on this project and that all other work necessary shall be performed by the Bidder with his own employees. If no joint contractor or subcontractor is listed, it shall be construed that all of the work shall be performed by the Bidder with its own employees.

The Bidder must be sure that it has and that the subcontractor(s) listed in the proposal have all the necessary specialty licenses needed to perform the work for this project. The Bidder shall be solely responsible for assuring that all the specialty licenses required to perform the work are covered in its bid.

The Bidder shall include the license number of the joint contractors or subcontractors listed below. Failure to provide the correct names and license numbers as registered with the Contractor's Licensing Board may cause rejection of the bid submitted.

Complete Firm Name Joint Contractor or Subcontractor for Lump Sum Base Bid	License Number	Nature and Scope of Work to be Performed

Enclosed herewith:

1. Surety Bond (*1))
2. Legal Tender (*2))
3. Cashier's Check (*3))
4. Certified Check (*3))

(Cross Out Those Not Applicable)

in the amount of:

_____ DOLLARS ($_____).

as required by law.

Respectfully submitted,

_____
Name of Company, Joint Venture or Partnership

_____
License

By _____
Signature (*4)

Title _____

Date: _____

(CORPORATE SEAL)
(*5)

NOTES:

1. Surety bond underwritten by a company licensed to issue bonds in this State;

2. Legal tender; or

3. A cashier's or a certified check accepted by, and payable on demand to the HHSC by a bank, a savings institution, or credit union insured by the Federal Deposit Insurance Corporation.

    a. These instruments may be utilized only to a maximum of $100,000.

    b. If the required security or bond amount totals over $100,000, more than one instrument not exceeding $100,000 each and issued by different financial institutions shall be accepted.

4. Please attach to this page evidence of the authority of this officer to submit bids on behalf of the Company, and also the names and residence addresses of all officers of the Company.

5. Fill in all blank spaces with information asked for or bid may be invalidated. PROPOSAL MUST BE INTACT. MISSING PAGES MAY INVALIDATE YOUR BID.

END OF BID FORM

APPENDIX C

S P E C I F I C A T I O N S

FOR

FURNISHING LABOR AND MATERIALS

REQUIRED FOR

MALUHIA

REPLACE EXIT DOORS

FY 23M - 0121

1027 HALA DR.
HONOLULU, OAHU, HAWAII

TMK: 01-06-09:04

FOR THE

HAWAII HEALTH SYSTEMS CORPORATION (HHSC)

STATE OF HAWAII

ARCHITECT: PACIFIC ARCHITECTS, INC.
ENVIRONMENTAL: ENVIROQUEST, INC.

DECEMBER 2023

TABLE OF CONTENTS

END OF TABLE OF CONTENTS

SECTION 00210 - INSTRUCTIONS TO BIDDERS

Part 1 - GENERAL

1.01 GENERAL

A. Only Bidders with the required contractor's license(s) are eligible to submit a Bid.

B. Bidders (Contractors) shall be incorporated or organized under the laws of the State or be registered to do business in the State as a separate branch or division that is capable of fully performing under the contract. The following definitions are used in the solicitation documents.

1. Hawaii Business §3-1222-112 HAR: A bidder who is registered and incorporated or organized under the laws of the State is a "Hawaii Business" and eligible for an award.

2. Compliant non-Hawaii Business §3-122-112 HAR: A bidder not incorporated or organized under the laws of the State, but is registered to do business in the State and complies with or is exempt from the requirements of §3-122-112 HAR, is a "Compliant Non-Hawaii Business" and eligible for an award.

3. Non-compliant Bidder: If a bidder is a non-Hawaii business and is not registered with the DCCA Business Registration Division (BREG) or cannot comply with §3-122-112 HAR, then the bidder in non-compliant and is ineligible for an award.

C. Prospective Bidders shall submit their "Intention to Bid".

D. Bidders shall submit the "Sealed Bid Form", bid bond (if required), tax clearances, Hawaii business certificates, and any other documents required by the bidding documents.

E. The GENERAL CONDITIONS set forth additional terms and conditions for the bid and award process. The GENERAL CONDITIONS will be part of the contract documents by which HHSC and the bidder (prospective contractor) will be bound. Bidders are directed to the GENERAL CONDITIONS for contract and statutory requirements and for Bidding and Execution of the Contract Requirements. Bidders are also directed to "Section 00800 – Special Conditions" of these specifications for definitions and modifications to the GENERAL CONDITIONS.

1.02 OFFEROR(S) or BIDDER(S)

A. The terms "Offeror" and "Bidder" are synonymous when used in this Section 00210 and other solicitation documents.

1.03 ADDENDA, CLARIFICATIONS

A. Addenda: The HHSC may periodically issue an addendum that may increase or decrease the scope of work or contract time, provisions or conditions. The HHSC will make the addenda available online on the facility website. Bidders are responsible for the information contained in the addenda or bid clarification whether or not the Bidder receives the addenda or clarification.

B. Bidders discovering an ambiguity, inconsistency or error when examining the bidding documents or the site and local conditions or bidders with questions or clarification requests shall send their written requests (email or fax notification are acceptable) to the Contract Manager. Bidders shall comply with the following procedures:

1. Identify each request with the Project Name and HHSC Project Number.

2. Indicate the appropriate section number, paragraph, drawing and detail number, schedule or other identifier.

3. The request should be brief, concise, but complete enough to properly evaluate and determine the merits or non-merits of the question or request.

C. Bidders shall make any requests for clarifications no later than fourteen (14) calendar days prior to the submission date for sealed bids. Refer to the “Notice to Bidders” for submission date.

D. HHSC will respond to important requests or clarifications by way of addenda. HHSC may not address or respond to all bidders inquiries, if the HHSC determines the request is unimportant or not required to disseminate to all Bidders.

1.04 SEALED BID FORM (BID FORM)

A. Bidder shall fill out the “Sealed Bid Form” completely. Write in ink or type. Besides the following paragraphs with instructions, there are supplemental Bidder’s Instructions within the text of the “Sealed Bid Form” and bidders shall comply with the instructions. Do not alter the “Sealed Bid Form”, and maintain the form intact.

B. RECYCLED PRODUCT PREFERENCE is not applicable to this project.

C. OTHER CONDITIONS: Bidder acknowledges and agrees to the provisions and certifications stated in this article.

D. RECEIPT OF ADDENDA: Bidder shall fill in the appropriate dates any addenda were received.

E. LISTING JOINT CONTRACTORS OR SUBCONTRACTORS:

1. Bidder shall complete the "Joint Contractors or Subcontractors List." It is the sole responsibility of the bidder to review the requirements of this project and determine the appropriate specialty contractor's licenses that are required to complete the project. Failure of the bidder to provide the correct names, license numbers, specialty class number, classification description and to indicate that the specialty contractor is required for this project, may cause the bid to be rejected.

2. Bidder agrees the completed listing of joint contractors or subcontractors is required for the project and that the bidder, together with the listed joint contractors and subcontractors, have all the specialty contractor's licenses to complete the work.

3. Based on the Hawaii Supreme Court's January 28, 2002 decision in Okada Trucking Co., Ltd. v. Board of Water Supply, et al., 97 Hawaii 450 (2002), the bidder as a general contractor ('A' or 'B' license) is prohibited from undertaking any work solely or as part of a larger project, which would require the bidder ('A' or 'B' general contractor) to act as a specialty ('C' license) contractor in any area in which the bidder ('A' or 'B' general contractor) has no specialty contractor's license. Although the 'A' and 'B' contractor may still bid on and act as the "Prime Contractor" on an 'A' or 'B' project (*See, HRS §444-7 for the definitions of an "A" and "B" project*), respectively, the 'A' and 'B' contractor may only perform work in the areas in which they have the appropriate contractor's license. The bidder ('A' or 'B' general contractor) must have the appropriate 'C' specialty contractor's licenses either obtained on its own, or obtained automatically under HAR §16-77-32.

4. General Engineering 'A' Contractors automatically have these 'C' specialty contractor's licenses: C-3, C-9, C-10, C-17, C-24, C-31a, C-32, C-35, C-37a, C-37b, C-38, C-43, C-56, C-57a, C-57b, and C-61.

5. General Building 'B' Contractors automatically have these 'C' specialty contractor's licenses: C-5, C-6, C-10, C-12, C-24, C-25, C-31a, C-42a, and C-42b.

6. The table that lists the specialty contractor' classifications in the bid form is from the Department of Commerce and Consumer Affairs' (DCCA) website www.state.hi.us/dcca/har/index.html. Bidders shall provide the appropriate classifications numbers and descriptions for any specialty contractors that are not included in the bid form and bidders are directed to the DCCA web site for the latest updated list.

7. Instructions to complete the Joint Contractors or Subcontractors List:

a. Determine the specialty contractor classification(s) required for this project and provide the complete firm name and license number of the joint contractor or subcontractor in the respective columns. If the bidder is a general contractor and providing the work of the required specialty contractor classification, fill in the bidder's (general contractor's) license number and name.

b. List only one joint contractor or subcontractor per required specialty contractor's classification.

c. For projects with alternate(s), fill out the respective "Joint Contractors or Subcontractors List for the Alternate(s)." Bidder shall determine the specialty contractor's classification and description required for the respective alternate. Bidders shall fill in the complete class number, class description, firm name and license number of the respective joint contractor or subcontractor. The bidder shall not include any joint contractor or subcontractor previously listed for the base bid.

F. COST AND TIME: Bidder shall completely fill out the article and enter the cost for the Project Bid Price, and Alternates when provided. Bidder shall tabulate the Project Bid Price, and Alternates when provided, and the Bidders shall then enter the Total Lump Sum Bid Price. **BE SURE TO ENTER THE TOTAL LUMP SUM BID PRICE IN WORDS AND NUMERALS**. Refer to Bidder's Instructions located within the article.

1. If provided, bidder shall fill in total costs for each alternate.

2. The bidder is directed to the construction time information paragraph "B" for the list of contract times and dates which may include: contract duration, project start date, jobsite start date, jobsite completion, contract completion date and construction time for alternates. Bidder shall refer to "Section 01100" of these specifications for additional construction time information, as applicable.

G. SIGNATORY PAGE: Bidder shall completely fill out article (page). Bidder shall indicate if it is a "Hawaii Business" or a "Compliant Non-Hawaii Business." Also, bidder shall refer to Bidder's Instructions located within the article.

1.05 EVALUATION CRITERIA

A. EVALUTATING BIDS: The lowest responsive, responsible bid is determined by the following procedures:

1. The total lump sum bid price is adjusted to reflect the applicable preferences.

a. For projects with alternates, the total lump sum base bid price and alternates will be adjusted to reflect the applicable preferences.

2. Project control budget is established prior to the submission of bids.

1.06 METHOD OF AWARD

A. The contract will be awarded to the lowest responsive and responsible Bidder whose bid (including any alternates which may be selected) meets the requirements and criteria set forth in the solicitation documents.

B. In the event the total lump sum bid of all bidders exceeds the project control budget, HHSC reserves the right to make an award to the apparent Low Bidder if additional funds are available or by reducing the scope of work through negotiation.

1.07 OTHER CONDITIONS FOR AWARD

A. The Chief Procurement Officer may reject any or all bids and waive any defects if the Chief Procurement Officer believes the rejection or waiver is in the best interest of HHSC.

B. The Chief Procurement Officer may hold all bids up to 60 calendar days from the date bids were opened. Unless otherwise required by law, bids may not be withdrawn without penalty.

C. The award of the contract is conditioned upon funds made available for the project (or projects if applicable)

1.08 COMPLIANCE WITH §3-122-112 HAR:

A. As a condition for award of the contract and as proof of compliance with the requirements of 103D-310(c) HRS, the bidder shall meet the “Hawaii Business” or “Compliant non-Hawaii Business” requirements and shall provide the following documents:

1. Department of Taxation (DOTAX) and the IRS tax clearance certificates.

2. Department of Labor (DLIR) certificate of compliance.

3. Department of Commerce and Consumer Affairs (DCCA), Business Registration Division (BREG) certificate of good standing.

a. A Hawaii business that is a sole proprietorship is not required to register with the BREG and therefore not required to submit the DCCA, BREG “Certificate of Good

Standing."

B. The apparent three low bidders shall furnish the required documents to HHSC within seven calendar days from the bid opening date. If a valid certificate is not submitted on a timely basis for award of a contract, a bidder otherwise responsive and responsible may not receive the award. Bidder is responsible to apply for and submit the documents by the required deadlines.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.01 REQUIRED DOCUMENTATION FOR HAWAII BUSINESS OR COMPLIANT NON-HAWAII BUSINESS (§3-122-112 HAR)

A. TAX CLEARANCE REQUIREMENTS (HRS Chapter 237): Bidder shall obtain a tax clearance certificate from the Hawaii State Department of Taxation (DOTAX) and the Internal Revenue Service (IRS). The certificate is ~~are~~ valid for six months from the most recently approved stamp date on the certificate; the certificate must be valid on the date received by HHSC.

1. DOTAX *TAX CLEARANCE APPLICATION* Form A-6 (Rev 2003) is available at DOTAX and IRS (State of Hawaii) offices or DOTAX website, and by mail or fax.

   a. DOTAX website: http://www.state.hi.us/tax/alphalist.html#a

   b. DOTAX forms by fax/mail: (808) 587-7572 or 1-800-222-7572

2. Mail, fax or submit in person completed tax clearance application forms to the Department of Taxation, Taxpayer Services Branch or to the address listed on the application. Facsimile numbers are:

   a. DOTAX: (808) 587-1488

   b. IRS: (808) 539-1573

3. DOTAX will return the form to the bidder. The bidder is reminded that it is responsible to submit the applications for the tax clearance directly to DOTAX or IRS and not to HHSC.

B. DLIR CERTIFICATE of COMPLIANCE (HRS Chapter 383 - Unemployment Insurance, Chapter 386 - Workers' Compensation, Chapter 392 - Temporary Disability Insurance, and 393 – Prepaid Health Care): Bidder shall obtain a certificate of compliance from the Hawaii State Department of Labor and Industrial Relations (DLIR). The certificate is valid for six months from the date of issue; certificates must

be valid on the date received by HHSC.

1. DLIR *APPLICATION FOR CERTIFICATE OF COMPLIANCE WITH SECTION 3-122-112 HAR*, Form LIR#27 is available at DLIR website or at the neighbor island DLIR District Office.

   a. DLIR website: http://www.dlir.state.hi.us/LIR#27

2. Mail, fax or submit in person completed application form to the Department of Labor and Industrial Relations, Administrative Services Office at the address listed on the application.

3. DLIR will return the form to the bidder. The bidder is reminded that it is responsible to submit the application for the certificate directly to DLIR and not to HHSC.

C. DCCA CERTIFICATE OF GOOD STANDING: Bidder shall obtain a certificate of good standing issued by the Department of Commerce and Consumer Affairs (DCCA), Business Registration Division (BREG). The certificate of good standing is valid for six months from the date of issue; certificates must be valid on the date received by HHSC.

1. DCCA *CERTIFICATE OF GOOD STANDING* is available from the business registrations website or by telephone. Bidders are advised there are costs associated with registering and obtaining the certificate.

   a. DCCA form website: http//www.BusinessRegistrations.com

   b. DCCA telephone: (808) 586-2727, M - F 7:45 to 4:30 HST

2. Submit the application per DCCA's requirements.

3. DCCA will return the form to the bidder. The bidder is reminded that it is responsible to submit the application for the certificate directly to DCCA and not to HHSC.

END INSTRUCTION TO BIDDERS

SECTION 00800 - SPECIAL PROVISIONS

PART 1 - GENERAL

1.01 SUBSTITUTION REQUESTS

A. Written substitution requests must be submitted with your Invitation for Bid (IFB) in accordance with IFG Section 3. All substitutions will be reviewed and approved in accordance with the GTC.

B. Substitution requests by FAX are not acceptable.

1.02 PROJECT CONTACT PERSON

A. HHSC Representative – For access to the site.

NAME:	Mr. Ron Kurasaki
POSITION OR TITLE:	Project Manager
TELEPHONE NUMBER:	(808) 486-8048

B. Project Coordinator - For questions and clarifications during bidding and Requests for Substitutions.

NAME:	Mr. Maurice Tanaka
POSITION OR TITLE:	Project Coordinator
TELEPHONE NUMBER:	(808) 949-1601
Email:	mtanakai@pacarchitects.com

C. Procurement Agency – For questions regarding proposal and contract requirements.

NAME:	Mr. Scott Kawai
POSITION OR TITLE:	Contracts Manager
TELEPHONE NUMBER:	(808) 832-3025
Email:	SKawai@hhsc.org

1.03 OFFEROR'S RESPONSIBILITY FOR EXAMINING PLANS, SPECIFICATIONS AND SITE OF WORK

A. Offerors herewith refers to sub-contractors, suppliers, manufacturer's representatives as well as contractors.

1.04 LIQUIDATED DAMAGES

A. The time of completion for the Work shall be within 125 consecutive calendar days from the official commencement date of the Notice to Proceed (NTP).

B. In accordance with the General Conditions, upon failure to complete Work or any portion of the Work within the time or times fixed in the contract or extension thereof, the Contractor shall pay liquidated damages to the Department in the amount of $250.00 per calendar day of delay.

C. In accordance with the General Conditions, PROJECT ACCEPTANCE DATE, for failure to correct punch list deficiencies, within the time or times

fixed in the contract or extension thereof, the Contractor shall pay liquidated damages to the HHSC, in the amount equal to ten percent (10%) of the liquidated damages per calendar day of delay.

D. In accordance with the General Conditions FINAL SETTLEMENT OF THE CONTRACT, for failure to submit closing documents within the time or times fixed in the contract or extension thereof, it is agreed that the Bidder shall pay liquidated damages to HHSC in the amount equal to five percent (5%) of the liquidated damages per calendar day of delay.

1.05 SPECIALTY CONTRACTOR'S LICENSE

A. Contractor shall be solely responsible to assure that all the specialty licenses required to perform the Work are covered by the Contractor or its subcontractor(s).

1.06 WORKING HOURS

A. The regular working hours for this project is from 8:00 AM to 4:30 PM Monday through Friday, excluding State Holidays, unless otherwise noted or restricted under "Section 01100". The Working Hours provisions of specification "Section 01100" shall govern over this article 1.06.

B. The Contractor may be given approval to work beyond the regular hours including Saturdays, Sundays, State Holidays, night work, or after hours under the provisions of the GENERAL CONDITIONS, "Overtime And Night Work Section" and under specification "Section 01100".

1.06 SPECIAL PROCEDURES DURING BIDDING

A. Bid documents will be available online and from the Contracts Manager's office, at Maluhia, 1027 Hala Drive, Honolulu, HI, 96817.

B. All bids shall be submitted to the Contracts Manager.

C. All questions regarding the plans and specifications shall be submitted, in writing, to the Architect. The Architect will review the questions and issue any responses via Addendum. Only information received by Addendum shall be binding.

D. All questions regarding the proposal or contractual requirements shall be submitted, in writing to the Contracts Manager. The Contracts Manager will review the questions and issue any responses via Addendum. Only information received by Addendum shall be binding.

E. Any visitation to the site to examine the scope of work shall be requested through the HHSC Representative. Disruption of facility operations shall not be permitted.

1.07 PROCEDURES DURING CONSTRUCTION

A. Upon issuance of the Notice to Proceed, the Contractor shall submit a work schedule for review and discussion. The work schedule shall be up-dated on a weekly or bi-weekly basis as directed by the Architect.

B. On a weekly or bi-weekly basis, the Contractor shall conduct a progress meeting with Maluhia and Architect. The meeting will discuss the progress of the construction, discussion of problems, and review of outstanding issues. The Contractor shall conduct the meeting and prepare the meeting notes and minutes and distribute to all parties.

C. During the construction, submittals and RFIs shall be submitted to the Architect for review and action. To expedite the review, the Contractor may make submittals via email.

D. Periodic requests for payment shall be submitted to the Architect for review and confirmation. Approved requests for payment will be forwarded to the Contracts Officer for processing of payment.

E. Upon substantial completion of the project, the Contractor shall submit in writing to the Architect a request for a pre-final inspection. The Contractor shall have completed their own inspection and completed all noted discrepancies. Include with the request for the pre-final inspection a list of all outstanding work not completed or corrected.

F. Upon conducting a pre-final inspection, the Architect shall prepare a punchlist of noted discrepancies for the Contractor's remedial action. A final inspection will be performed upon completion of all punchlist items.

1.08 PROJECT RESTRICTIONS

A. The Contractor is informed that the facilities will be operational and work shall be performed in close coordination with the HHSC representative. Work shall be phased and may be limited to one area at a time. If work will require the relocation of clients from the work area, time shall be allocated for the facility to conduct this relocation. Scheduling of the work shall be closely monitored and work performed to minimize the disruption to the remaining areas of the facility. All work schedules shall be approved by HHSC and Maluhia prior to starting.

B. Staging and storage of materials on-site is limited and shall not be allowed unless coordinated and approved with the HHSC representative. Contractor may be required to store materials off-site at his own expense.

C. Parking on-site is limited and may be restricted to only active delivery of materials and equipment. Coordinate with the HHSC representative. If on-site parking not be available, the Contractor shall park off-site.

D. The above restrictions shall be considered in the work of this project and shall be included in the Contractor's cost. No additional compensation shall be made for not considering these restrictions.

E. The work of this project will also require removal and reinstallation of security devices installed on or about the doors. The removal and reinstallation of these devices shall be performed under a separate agreement that Maluhia has with Johnson Controls Inc. (JCI). The Contractor shall coordinate and schedule the removal and reinstallation as a part of this project. Contact information for JCI will be provided to the Contractor.

PART 2 - MATERIALS (Not Used)

PART 3 - EXECUTION

3.01 FINAL PAYMENT REQUIREMENTS

A. In addition to the requirements in the GENERAL CONDITIONS “Final Payment” section, the contractor shall submit”

1. Tax clearance certificate from DOTAX and IRS, current within two months of the issuance date; and

2. An originally signed Certificate of Compliance for Final Payment (SPO Form - 22, modified), affirming that the contractor remained in compliance with all laws as required by (§3-122-112 HAR). A contractor making a false affirmation shall be suspended and may be debarred pursuant to section 103D-702 HRS.

END OF SECTION

SECTION 01019 - GENERAL PROJECT REQUIREMENTS

PART 1 - GENERAL

1.01 SUMMARY OF WORK

A. Perform operations and furnish equipment, tools, materials, related items and labor necessary to execute, complete and deliver the Work as required by the Contract Documents.

1.02 DIVISION OF WORK

A. The Division and Sections into which these specifications are divided shall not be considered an accurate or complete segregation of work by trades. This also applies to work specified within each section

B. Where devices, or items, or parts thereof are referred to in the singular, it is intended that such reference shall apply to as many such devices, items or parts as are required to properly complete the Work.

C. Specifications and Drawings are prepared in abbreviated form and include incomplete sentences. Omission of words or phrases such as “the Contractor shall”, “as shown on the drawings”, “a”, “an”, and “the” are intentional. Omitted words and phrases shall be provided by inference to form complete sentences

D. Specifying of interface and coordination in the various Specification Sections is provided for information and convenience only. Such requirements in the various Sections shall complement the requirements of this Section.

1.03 NOTIFICATION

A. Contact the Architect and HHSC Representative at least five (5) working days prior to starting any onsite work.

1.04 SAFETY REQUIREMENTS

A. The Hawaii Occupational Safety and Health Law, Chapter 396, Hawaii Revised Statutes, effective May 16, 1972, as amended, is applicable and made a part of the Contract. Carefully read and strictly comply with its requirements.

B. Protect the facility personnel, students, and the public whenever power driven equipment is used. Ensure adequate safety precautions are used when operating any power driven equipment.

1.05 PERFORMANCE AND COORDINATION

A. Contractor shall be in charge of the Work and the Project Contract Limits, as well as the directing and scheduling of all work. Contractor shall

include general supervision, management and control of the Work of this project, and in addition to other areas more specifically noted throughout the Specifications. Final responsibility for performance, interface, and completion of the Work and the Project shall be the Contractor's.

B. Jobsite Administration shall be the responsibility of the Contractor. Provide a competent superintendent on the job and provide an adequate staff to execute the Work. In addition, all workers shall dress neatly and conduct themselves properly at all times. Loud abusive behavior, sexual harassment and misconduct will not be tolerated. Workers found in violation of the above shall be removed from the job site as directed by the HHSC Technical Representative.

C. The HHSC and/or Maluhia will hold the Contractor liable for all the acts of Subcontractors and shall deal only with the Prime Contractor in matters pertaining to other trades employed on the job.

D. Coordination: Provide project interface and coordination to properly and accurately bring together the several parts, components, systems, and assemblies as required to complete the Work.

1. Provide interface and coordination of all trades, crafts and subcontracts. Ensure and make correct and accurate connections of abutting, adjoining, overlapping, and related work. Provide anchors, fasteners, accessories, appurtenances, and incidental items needed to complete the Work, fully, and correctly in accordance with the Contract Documents.

2. Provide additional structural components, bracing, blocking, miscellaneous metal, backing, anchors, fasteners, and installation accessories required to properly anchor, fasten, or attach material, equipment, hardware, systems and assemblies to the structure.

3. Provide caulking, sealing, and flashing as required to waterproof the building complete and as required to insulate the building thermally and acoustically. Include sealing, flashing, and related work as required to prevent moisture intrusion, air infiltration, and light leakage.

4. Materials, equipment, component parts, accessories, incidental items, connections, and services required to complete the Work which is not provided by subcontractors shall be provided by the Contractor.

1.06 COOPERATION WITH OTHER CONTRACTORS

A. HHSC and Maluhia reserves the right at any time to contract for or otherwise perform other or additional work within the Project Contract Limits. The Contractor of this project shall to the extent ordered by the HHSC Representative, conduct its work so as not to interfere with or

hinder the progress or completion of the work performed by the Hospital or other contractors.

1.07 SUBMITTALS

A. Furnish required submittals specified in this Section and in the Technical Sections. Submittals include one or more of the following: shop drawings, color samples, material samples, technical data, material safety data information, schedules of materials, schedules of operations, guarantees, certifications, operating and maintenance manuals, and field posted as-built drawings.

B. Record Drawings: Field Posted As-Built Drawings, the intent of which is to record the actual in-place construction so that any future renovations or tie-ins can be anticipated accurately, shall be prepared and submitted by the Contractor. To accomplish this, the following procedure shall be followed by the Contractor:

1. A full-size set of field posted as-built drawings shall be maintained at the job site. All deviations from alignments, elevations and dimensions which are stipulated on the drawings and authorizations given by the HHSC Technical Representative to deviate from the drawings shall be clearly and accurately recorded by the Contractor on this set of record drawings.

2. Changes shall be recorded immediately after they are constructed in place to assure they are not forgotten. Record the changes in red pencil and where applicable, refer to the authorizing document or Change Order. The field posted as-built drawings shall be made available to the Architect and HHSC Technical Representative at any time so that its clarity and accuracy can be monitored.

3. The words “FIELD POSTED AS-BUILT” shall be labeled on the title sheet and certified by the Contractor as to accuracy and completeness as shown below:

FIELD POSTED AS-BUILT

Certified By: _____Date:
Contractor (Include name and company)

4. The words “FIELD POSTED AS-BUILT” shall be labeled on all sheets in the margin space to the right of the sheet number written from the bottom upward.

5. The Index to Drawings shall be revised with the label “FIELD POSTED AS-BUILT” for each sheet. The index shall conclude with the following note: “A COMPLETE SET CONTAINS ____ SHEETS” with the total number of sheets comprising the set to be placed in the blank.

6. Any “FIELD POSTED AS-BUILT” drawing which the Architect determines does not accurately record the deviation may be corrected by the Architect and the Contractor shall be charged for the services.

7. Submit the set of “FIELD POSTED AS-BUILT” drawings to the Architect and notify the HHSC Technical Representative no later than five (5) calendar days prior to the date of final inspection.

8. “AS-BUILT” drawings will be prepared by the design consultant using the “FIELD POSTED AS-BUILT”. Both sets of drawings will be sent to the Contractor for review and approval. The Contractor shall retain the “FIELD POSTED AS-BUILT” drawings for records, sign the “AS-BUILT” set of drawings, indicating approval, and return the drawings in a timely manner to the Architect and notify the HHSC Technical Representative.

   A scanned digital copy shall be given to HHSC upon completion.

1.08 CONSTRUCTION SCHEDULE:

A. The Construction Schedule completion date will be approved prior to award. The daily activities of the Construction Schedule will be reviewed within fifteen (15) calendar days after the Notice to Proceed or upon earlier written instruction by HHSC.

B. The schedule shall be related to the entire project to the extent required by the Contract Documents, and shall provide for expeditious and practicable execution of the work. If requested by the Architect or HHSC Representative, the Contractor shall participate in a preliminary meeting to discuss the proposed schedule and requirements prior to submission of the schedule.

C. Contractor shall prosecute the work according to the Schedule. The Architect and HHSC Representative shall rely on the reviewed Contractor’s Schedule and regular updates for planning and coordination. The HHSC Representative’s review of the Contractor’s Construction Schedule does not relieve the Contractor of its obligation to complete the work within the allotted contract time. Nor does the review grant, reject or in any other way act on the Contractor’s request for adjustment(s)to complete remaining contract work, or for claims of additional compensation. Such requests shall be processed in accordance with other relevant provisions of the contract.

D. If the Architect issues a Field Order or Change Order or requires Force Account Work that affects the sequence or duration of work activities noted on the construction progress schedule, the Contractor shall promptly update the schedule. This shall be accomplished by adding, deleting or revising the work activities noted, or changing the logic in the schedule to show the Contractor’s plan for incorporating the change into

the flow of work. All Change Orders and Time Extension requests that affect the construction schedule shall be evaluated based on their impact on the approved Construction Schedule.

1.09 MEETINGS

A. Contractor shall meet with the hospital's representative, weekly or other interval as determined, to discuss the progress of the Work.

B. For each meeting, Contractor shall take meeting minutes and provide a list stating all items, work or material, which may cause a delay or have an impact on the project's contractual dates. The list shall be inclusive of items requiring action from all responsible parties such as outstanding submittal status, request for information (clarification), force account work, change order, and change proposals. The format of this list shall be at the Contractor's discretion, subject to the Architect's approval. Submit the list to all parties for discussions as a meeting agenda. Contractor shall provide a plan of corrective action for any item, which is delayed or expected to be delayed, where that item impacts the contractual dates.

1.10 PROJECT AND SITE CONDITIONS

A. Project Contract Limits (Contract Zone Limits) shown on the drawings indicate only in general the limits of the work involved. Perform necessary and incidental work, which may fall outside of these demarcation lines. Confine construction activities within the Project Contract Limits and do not spread equipment and materials indiscriminately about the area.

1.11 SANITARY FACILITIES

A. The Contractor shall be allowed to utilize on-site restrooms as directed by the Architect and/or HHSC Representative. The Contractor shall maintain the facility in clean and sanitary condition at all time. Failure to do so, may require the Contractor to provide portable temporary toilet facilities for the contractor's use.

1.12 CONSTRUCTION AIDS

A. Provide construction aids and equipment required by construction personnel and to facilitate execution of the Work including: scaffolds, ladders, ramps, platforms, railings, and other such facilities and equipment.

PART 2 - MATERIALS

2.01 QUALITY

A. Materials, items, equipment and fixtures specified in the various Divisions and Sections shall be new unless otherwise specified.

2.02 STORAGE AND HANDLING

A. Contractor shall supervise jobsite delivery and handling, and assign storage space for materials, items, equipment and fixtures of all trades. Contractor and installer are responsible for delivery, unloading, unpacking, handling, storage, distribution, installation and protection of its materials at the jobsite.

B. Except as otherwise required by these specifications or by the Hospital, determine and comply with manufacturer(s) recommendation(s) on product handling, storage and protection.

C. Deliver products to the jobsite in manufacturer's original containers, with labels intact and legible. Maintain packaged material with seals unbroken and labels intact until time of use. Promptly remove damaged materials and unusable items from the jobsite, and promptly replace with material meeting the specified requirements, at no additional cost to the Hospital.

D. The Architect may reject as non-complying such material and products that do not bear identification satisfactory to the Architect as to manufacturer, grade, quality, and other pertinent information.

PART 3 - EXECUTION

3.01 EXAMINING THE SITE

A. Contractor and Subcontractors are expected to visit the site and make due allowances for difficulties and contingencies to be encountered. Compare contract documents with work in place. Become familiar, with existing conditions, the conditions to be encountered in performing the Work, and the requirements of the drawings and specifications.

B. Verify construction dimensions and elevations indicated on the drawings before any construction begins. Any discrepancy shall be immediately brought to the attention of the Architect, and any change shall be made in accordance with the Architect's instruction. Contractor shall not be entitled to extra payment if it fails to report the discrepancies before proceeding with any work whether within the area affected or not.

E. Obtain all field measurements required for the accurate fabrication and installation of the Work included in this Contract. Exact measurements are the Contractor's responsibility.

F. Furnish or obtain templates, patterns, and setting instructions as required for the installation of all Work. All dimensions shall be verified in the field.

G. The Contractor shall accept the site in the condition which exists at the time access is granted to begin the Work.

1. Verify existing conditions and dimensions shown and other dimensions not indicated but necessary to accomplish the Work.

2. Locate general reference points and take action to prevent their destruction. Lay out work and be responsible for lines, elevations and measurements and the work executed. Exercise precautions to verify figures and conditions shown on drawings before layout of work.

3. Before starting the Work, the Contractor and each Subcontractor, shall verify governing dimensions and shall examine adjoining work on which the Contractor's work is in any way dependent. No additional compensation will be allowed on account of differences between actual measurements and dimensions shown. Submit differences discovered during the verification work to the Architect for interpretations before proceeding with the associated work.

3.03 UTILITY SERVICE

A. Electricity - Make arrangements with the facilities for temporary use of electricity for construction use.

B. Telephone - Make arrangements with the utility companies for temporary telephone service for construction use or utilize cellular phone service.

C. Water - Make arrangements for temporary water use with the facilities.

3.04 ENVIRONMENTAL

A. General Contractor shall oversee that proper environmental conditions are met regarding temperature, humidity, lighting and ventilation.

3.05 PREPARATION AND PROTECTION

A. Protection of Property: Continually maintain adequate protection of the Work from damage and protect all property, including but not limited to buildings, equipment, furniture, grounds, vegetation, material, utility systems located at and adjoining the job site. Repair, replace or pay the expense to repair damages resulting from Contractor's fault or negligence.

B. Before starting work to be applied to previously erected constructions, make a thorough and complete investigation of such recipient surfaces and determine their suitability to receive required additional construction and finishes. Contractor, at its expense, shall make whatever repairs and conditioning required to properly prepare such surfaces. Contractor shall coordinate the work to provide a suitable surfaces to receive following work.

C. Commencement of work by any trade will be construed as acceptance of existing conditions and surfaces as being satisfactory for application of subsequent work, and full responsibility for finished results and assumption of warranty obligations under the Contract.

D. Protect existing work in a manner to prevent damage including interior work from damage by vandals or the elements. Provide temporary protection. Use curtains, barricades, or other appropriate methods. Take positive measures to prevent breakage of glass and damage to plastic, aluminum and other finishes.

E. Repairs and Replacements: In event of damage, promptly make replacements and repairs to the approval of the Architect and/or HHSC Representative and at no additional cost to the Hospital. Additional time required to secure replacements and to make repairs will not be considered to justify an extension in the Contract Time or completion.

3.06 BARRICADE

A. Erect temporary construction barricade(s) to prevent unauthorized persons from entering the project area and to the extent required by the Architect and/or HHSC Representative.

B. Maintain temporary construction barricade(s) throughout the duration of the Work. During the course of the project, the Architect and/or HHSC Representative may require additional barricades be provided for the safety of the public. Contractor shall erect the additional barricade(s) at its own expense.

3.07 INSTALLATION

A. Materials, items, fixtures required by the various Divisions and Sections of the Specifications shall be installed in accordance with Contract Documents, by workers specially trained and skilled in performance of the particular type of work, to meet guarantee and regulatory agency requirements. Should the drawings or specifications be void of installation requirements, install the materials, items, fixtures in accordance with the manufacturer's current specifications, recommendations, instructions and directions, and/or best construction industry standards.

3.08 CUTTING AND PATCHING

A. General Contractor shall oversee cutting and patching of concrete, masonry, structural members and other materials where indicated on drawings and as job conditions require. Unless noted elsewhere in the Drawings and Specifications, no cutting or patching of existing or new structural members will be permitted without previously notifying the HHSC Technical Representative.

B. Patching materials and workmanship shall be of equal quality to that indicated on the drawings, specified for new work, and/or to match the construction of item to be patched.

3.09 CLEAN-UP

A. Rubbish and debris resulting from work of the various Divisions and Sections of the specifications shall be collected and disposed of by the Contractor at legal disposal areas away from the project site. Clean up and remove from premises all debris accumulated from operations daily and as directed by the Architect and/or HHSC Representative. Permission to provide on-site trash containers shall be granted by the Hospital and shall be placed where directed by the Architect and/or HHSC Representative.

END OF SECTION

SECTION 01100 - SUMMARY

PART 1 - GENERAL

1.01 WORK COVERED BY CONTRACT DOCUMENTS

A. Project Identification: The work shall generally consist of removal, disposal, and furnishing and installing new doors, complete, and miscellaneous work as indicated on the drawings and specified herein.

1. Project Location: Maluhia, 1027 Hala Dr., Honolulu, Hawaii.

B. Perform operations and furnish equipment, tools, materials, related items and labor necessary to execute, complete and deliver the Work as required by the Contract Documents.

C. The Division and Sections into which these specifications are divided shall not be considered an accurate or complete segregation of work by trades. This also applies to work specified within each section

D. Contractor shall not alter the Drawings and Specification. If an error or discrepancy is found, notify the Architect.

E. Specifying of interface and coordination in the various specification sections is provided for information and convenience only. These requirements in the various sections shall complement the requirements of this Section.

1.02 SPECIFICATION FORMATS AND CONVENTIONS

A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:

1. Abbreviated Language: Language used in the Specifications and other Contract Documents is abbreviated and include incomplete sentences. Omission of words or phrases such as “the Contractor shall”, “as shown on the drawings”, “a”, “an”, and “the” are intentional. Omitted words and phrases shall be provided by inference to form complete sentences. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred, as the sense requires. Singular words shall be interpreted as plural, and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates. Where devices, or items, or parts thereof are referred to in the singular, it is intended that such reference shall apply to as many such devices, items or parts as are required to properly complete the Work.

2. Imperative mood and streamlined language are generally used in the Specifications. Requirements expressed in the imperative mood are to be performed by Contractor. Occasionally, the indicative or subjunctive mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.

    a. The words “shall,” “shall be,” or “shall comply with,” depending on the context, are implied where a colon (:) is used within a sentence or phrase.

3. Abbreviations and Acronyms for Industry Organizations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities indicated in Gale Research’s “Encyclopedia of Associations” or in Columbia Books’ “National Trade & Professional Associations of the U.S.”

B. Definitions

1. Directed: Terms such as “directed,” “requested,” “authorized,” “selected,” “approved,” “required,” and “permitted” mean directed by Contracting Officer, requested by Contracting Officer, and similar phrases.

2. Indicated: The term “indicated” refers to graphic representations, notes, or schedules on drawings or to other paragraphs or schedules in specifications and similar requirements in the Contract Documents. Terms such as “shown,” “noted,” “scheduled,” and “specified” are used to help the user locate the reference.

3. Furnish: The term “furnish” means to supply and deliver to project site, ready for unloading, unpacking, assembly, installation, and similar operations.

4. Install: The term “install” describes operations at project site including unloading, temporarily storing, unpacking, assembling, erecting, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations.

5. Provide: The terms “provide” or “provides” means to furnish and install, complete and ready for the intended use.

6. Installer: An installer is the contractor or another entity engaged by contractor as an employee, subcontractor, or sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.

7. Submit: Terms such as “submit,” “furnish,” “provide,” and “prepare” and similar phrases in the context of a submittal, means to submit to the Contracting Officer.

C. Industry Standards

1. Applicability of Standards: Unless the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by reference.

2. Publication Dates: Comply with standards in effect as of date of the Contract Documents, unless otherwise indicated.

3. Conflicting Requirements: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer uncertainties and requirements that are different, but apparently equal, to Contracting Officer for a decision before proceeding.

1.04 WORK SEQUENCE

A. The Work will be conducted in a single construction phase.

1.05 USE OF PREMISES AND WORK RESTRICTIONS

A. General: Contractor shall have full use of construction zone for construction operations, including restricted use of project site, during construction period. Contractor’s use of premises is limited only by State’s right to perform work or to retain other contractors on portions of the project site.

Construction zones shall be limited to the minimal required area needed to perform the work of this project. For this project it shall be limited to the area around the door being replaced. At the discretion of the HHSC Representative, the work area may be required to be barricaded, however, access around the work area maintained for Maluhia operations. Construction debris and dust shall be contained within the work area and noise controlled. Clean-up of the area surrounding the work area shall be performed daily.

Access to and from the work areas will be coordinated with the HHSC Representative prior to work being done in any particular area.

B. Contractor’s use of premises is restricted as follows:

1. Construction Times and Schedule:

a. The Contractor shall coordinate the work schedule with the Architect and/or HHSC Representative. An advanced notice of 15 calendar days shall be provided prior to the start of work. Work can be scheduled for weekdays (8:00 AM to 4:30 PM) with advanced notice by the Contractor.

b. The normal operational hours are 8:00 AM to 4:30 PM, Monday through Friday.

c. Unless restricted elsewhere in these specifications, the Contractor may not perform work outside of normal daily operation hours. Weekend or holiday work may be permitted with the approval of the Architect and/or HHSC Representative. Any weekend or holiday work shall require a 15 calendar day advanced notice.

d. Work performed during normal operating hours shall not impede public traffic or office personnel. An alternate route around the work areas may be required.

2. Site Access and Parking:

a. Arrange all on-site parking and access with the Architect and/or HHSC Representative.

b. Permanent use of the loading area is prohibited.

c. Subject to availability, the Architect and/or HHSC Representative will designate other on-site areas that may be used by the Contractor other than assigned stalls. Restore any property damaged by construction activities at the completion of the project.

3. Sanitation and Utilities:

a. Contractor may use designated restrooms, however, shall maintain the facilities in clean condition at all times. Coordinate with the Architect and/or HHSC Representative.

b. Arrange all temporary electricity and water service with the Architect and/or HHSC Representative. There will be no charges for reasonable electricity and water service.

c. Should interruption of any utility services be required, outages shall be coordinated with the Architect and/or HHSC Representative. A minimum five (5) working days notice shall be provided. Contractor is forewarned that the Architect and/or HHSC Representative may require outages to be done at specific times to minimize disruptions to the facility operations.

4. Other Conditions:

a. Noise and other disrupting activities normally resulting from construction operations are detrimental to the conduct of normal activities in adjacent locations surrounding the project area. Accordingly, exercise every precaution to keep noise levels to a minimum. Internal combustion engines and compressors shall be equipped with mufflers to reduce noise to a minimum.

b. Use or application of materials with offensive odors should be avoided and may be restricted from use on this project.

1.06 WORK UNDER OTHER CONTRACTS

A. Separate Contract: The HHSC may execute a separate contract for certain construction at the facility that was not known at the time Offers were submitted.

B. Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract.

PART 2 - PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END SECTION

SECTION 01140 – WORK RESTRICTIONS

PART 1 – GENERAL

1.01 SUMMARY

A. This section includes work restrictions on the Contractor's operations, and construction as required to maintain the facility's operation during the construction period.

B. CONSTRUCTION PROVISIONS

1. Rules and Regulations: Consult with the Architect and HHSC Representative at the pre-construction conference and become familiar with the rules and regulations of the facility.

2. Contractor's Operations: Confine all construction operations to the immediate vicinity of the construction activity. Store building materials, equipment, tools and incidentals in an enclosed area as directed by the Architect or HHSC Representative. Take precautions and prevent access to power equipment, tools, etc., by other than authorized construction personnel. Perform operations to insure the safety of the occupants of the buildings at all times.

3. Perform operations to minimize inconvenience or disturbance upon the personnel and residents.

4. Protection of occupants: Special consideration must be made by the Contractor at all times to safely protect the occupants and facility personnel from any and all injuries that may be caused as a result of the work performed under this contract.

5. Caution: The Contractor shall caution his personnel on the job that any association with the occupants be avoided as much as possible, that when spoken to by occupants, normal courtesy shall be maintained at all times.

7. None of the foregoing regulations shall be construed as a restriction on the legal prosecution of the work.

1.02 SEQUENCING OF WORK

A. The Contractor shall schedule his work in general consideration for the on-going operation of the hospital. All work shall be coordinated with the HHSC Representative and/or Architect. Contractor shall consider in his proposal interruptions or delays to his schedule of work due to special requirements of the hospital or HHSC Representative.

END OF SECTION

SECTION 01300 - SUBMITTALS

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

Where indicated in these specifications, provide submittals to the Architect for review.

1.02 PROCEDURES

A. Unless otherwise specified, deliver submittals to the Architect with copy of transmittal to the Contracts Manager.

B. Transmit all items using form which identifies Project, Contractor, Subcontractor, and major supplier. Identify pertinent drawing sheet, detail number, and specification section number, as appropriate. Identify deviations from Contract Documents. Provide space for the Architect or his Consultant's review stamp.

C. Upon completion of review by the Architect, the Architect will return submittals to the Contractor with copy to the Contracts Manager and HHSC Representative.

1.03 SCHEDULE OF WORK

A. Coordinate Schedule with Work Sequence specified in Section 01014.

1.04 SHOP DRAWINGS AND SAMPLE SUBMITTALS

A. All submittals shall be made in accordance with the following unless otherwise specified. Minimum sheet size is 8-1/2" x 11". Maximum sheet size is same size as the Contract Drawings. Drawings shall be presented in a clear and thorough manner. Details shall be identified by reference to sheet, schedule, and detail shown on Contract Drawings.

B. Mark each copy to identify applicable products, and other data. Supplement manufacturer's standard data to provide information unique to the work. Include manufacturer's installation instructions when required by the specification.

1. The Contractor shall review, stamp with his approval and submit with reasonable promptness and in orderly sequence so as to cause no delay in work of any other Subcontractor, all shop drawings, and product data required by these specifications.

2. Properly identify shop drawings and samples as specified. At the time of submission, the Contractor shall inform the HHSC Technical Representative in writing of any deviation in the shop drawings or submittals from requirements of the Contract Documents.

3. By approving and submitting the shop drawings and submittals the Contractor thereby represents that he has determined and verified all field measurements, field criteria, materials, catalog numbers and similar data, or will do so, and that he has checked and coordinated each shop drawing and sample with the requirements of these specifications.

4. Six (6) copies of the Shop Drawings and submittals shall be submitted for review. Upon review, the Architect will retain three (3) copies and return the balance to the Contractor.

5. The Architect will review the shop drawings and submittals with reasonable promptness so as to cause no delay but only for conformance with the design concept of the Project and with the information given in the Contract Documents. The Architect's review of a separate item shall not indicate approval of an assembly in which the item functions.

6. The Contractor shall make any corrections required by the Architect and shall resubmit the required number of corrected copies of shop drawings or submittals for review. The Contractor shall direct specific attention in writing or on resubmitted shop drawings to revisions other than the corrections requested by the Architect on previous submissions.

7. The Architect's review of shop drawings or submittals shall not relieve the Contractor of responsibilities for any deviation from the requirements of the Contract Documents unless the Contractor has informed the Hospital in writing of such deviation, at time of submission, and the HHSC Representative has given written approval to the specific deviation; nor shall the Architect's review relieve the Contractor from responsibility for errors or omissions in the shop drawings or samples.

8. No portion of the work requiring a shop drawing or sample submission shall be commenced until the submission has been reviewed by the Architect. All such portions of the work shall be in accordance with reviewed shop drawings and samples.

C. Samples: Submit full range of manufacturer's standard textures, colors, and patterns for the Hospital's selection. Submit samples as specified in the respective Specification sections and as noted above. Samples shall illustrate functional characteristics of the Product, with integral parts and attachment devices. Coordinate submittal of different categories for interfacing work. Include identification on each sample, giving full information.

1.05 BIDDER'S SPECIAL RESPONSIBILITY FOR COORDINATING CONTRACTURAL WORK AND SUBMITTALS:

A. The General Contractor shall be responsible for the coordination of all contractual work and submittals.

B. The General Contractor shall have a rubber stamp made up in the following format:

Contractor's Name

PROJECT: _____

_____

PROJECT NO.: _____

THIS SUBMITTAL HAS BEEN CHECKED BY THIS GENERAL CONTRACTOR. IT IS CERTIFIED CORRECT, COMPLETE, AND IN COMPLIANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS. ALL AFFECTED CONTRACTORS AND SUPPLIERS ARE AWARE OF, AND WILL INTEGRATE THIS SUBMITTAL INTO THEIR OWN WORK.

DATE RECEIVED _____
SPECIFICATION SECTION # _____
SPECIFICATION PARAGRAPH # _____
DRAWING _____
SUBCONTRACTOR _____
SUPPLIER _____
MANUFACTURER _____

CERTIFIED BY: _____

C. This stamp, "filled-in", should appear on the title sheet of each shop drawing, on a cover sheet of submittals in an 8-1/2" x 11" format, or on one face of a cardstock tag (min. 3" x 6") tied to each sample. The tag on the samples should state what the sample is, so that if the tag is accidentally separated from the sample, they can be matched up again. The back of this tag will be used by the Architect for his receipt, review, and log stamp and for any comments that relate to the sample.

D. All submittals for material and shop drawings listed in the contract documents, shall be required and shall be first reviewed and certified by the General Contractor, then reviewed and approved by the Architect, prior to any ordering of materials and equipment. Submittals that have not been reviewed by the General Contractor shall be returned for review.

1.06 MANUFACTURER'S CERTIFICATES

Submit certificates, warranties, operating and maintenance instructions in accordance with requirements of each specification section. Submit in triplicate.

1.07 MSDS

MSDS shall be submitted prior to the pre-construction meeting. The Contractor shall submit MSDS log and reference each MSDS to its specification Section number and product system.

PART 2 – PRODUCTS

(Not used.)

PART 3 – EXECUTION

(Not used.)

END OF SECTION

SECTION 01577 - POLLUTION CONTROL

PART 1 - GENERAL

1.01 SUMMARY

A. Includes site and environmental control requirements.

1.02 TRASH, REFUSE DISPOSAL

A. Burning of debris and/or waste materials on the project site is prohibited.

B. Do not bury debris and/or waste material on the project site, unless specifically allowed elsewhere in these specifications as backfill material.

C. Haul unusable debris and waste material to an appropriate off-site dump area. During loading operations, water down or provide other measures to prevent dust or other airborne contaminants.

D. Vacuum, wet mop, or damp sweep when cleaning rubbish and fines which can become airborne from floors or other paved areas. Do not dry sweep.

E. Use enclosed chutes and/or containers to conveying debris from above the ground floor level.

F. Clean-up shall include the collection of all waste paper and wrapping materials, cans, bottles, construction waste materials and other objectionable materials, and removal as required. Frequency of clean-up shall coincide with rubbish producing events. The Contractor shall be responsible for all clean-up cost.

1.03 DUST

A. Prevent dust from becoming airborne at all times including non-working hours, weekends and holidays in conformance with the State Department of Health, Administrative Rules, Title 11, Chapter 60 - Air Pollution Control.

B. Contractor is responsible for and shall determine the method of dust control. Subject to the Contractor’s choice, the use of water or “environmentally friendly chemicals” may be used over surfaces which create airborne dust.

C. Construct or erect dust control barriers as required to retain dust within the project site area.

D. Contractor is responsible for all damage claims resulting from failure to control airborne dust during all times that the site is under the Contractor's control.

1.04 NOISE

A. Keep noise within acceptable levels at all times in conformance with the State Department of Health, Administrative Rules, Title 11, Chapter 46 - Community Noise Control. Contractor shall obtain and pay for the Community Noise Permit from the State Department of Health when the construction equipment or other devices emit noise at levels exceeding the allowable limits.

B. To reduce loud disruptive noise levels, ensure mufflers and other devises are provided on equipment, internal combustion engines and compressors. Maintain equipment to reduce noise to acceptable levels.

C. Starting-up of construction equipment meeting allowable noise limits shall not be done prior to 8:00 a.m. without prior approval of the HHSC Representative. Equipment exceeding allowable noise levels shall not be started-up prior to 8:00 a.m.

1.05 EROSION

A. During interim grading operations, the grade shall be maintained so as to preclude any damage to adjoining property from water and eroding soil.

B. Install temporary berms, cut-off ditches and other provisions as required construction methods and operations. Should there be a question if the temporary measures are insufficient to prevent erosion, the HHSC Representative shall make the final determination.

C. Construct and maintain drainage outlets and silting basins as required to minimize erosion and pollution of waterways during construction.

1.06 OTHERS

A. Wherever trucks and/or vehicles leave the site and enter surrounding paved streets, Contractor shall prevent any material from being carried onto the pavement. Waste water shall not be discharged into existing streams, waterways, or drainage systems such as gutters and catch basins unless treated to comply with the State Department of Health water pollution regulations. The Contractor shall construct a vehicle wash-down area, within the project site, to remove all mud, gravel, etc., before leaving the site.

B. Trucks hauling debris shall be covered as required by PUC Regulation. Trucks hauling fine materials shall be covered.

C. No dumping of waste concrete will be permitted at the job-site.

D. Except for rinsing of the hopper and delivery chute, and for wheel washing where required, concrete trucks shall not be cleaned on the job-site.

E. Except in an emergency, such as a mechanical breakdown, all vehicle fueling and maintenance shall be done in a designated area. A temporary berm shall be constructed around the area when runoff can cause a problem.

F. If allowed in this Contract, spray painting shall be done by the “airless spray” process only. All other types of spray painting shall not be permitted.

1.07 SUSPENSION OF WORK

A. Violations of any of the above requirements or any other pollution control requirements which may be specified in the Specifications shall be cause for suspension of the work creating such violation.

B. Reference the General Conditions Construction, dated 3/17/06 for the suspension procedures.

C. The Architect and/or HHSC Representative may also suspend any operations which creates a pollution problems even if the problem does not violate the provisions of this Section. In this instance, the work is considered a Change and subject to the provisions of the contract.

PART 2 - PRODUCTS (Not used)

PART 3 - EXECUTION (Not used)

END OF SECTION

SECTION 01715 - EXISTING CONDITIONS - ASBESTOS / LEAD / HAZARDOUS MATERIAL SURVEY

PART 1 - GENERAL

1.01 SUMMARY

A. This section includes the results of the State's survey for Asbestos, Lead and / or other hazardous materials and is provided for the Contractor's information.

B. Related Sections include the following:

1. SECTION 13281 - ASBESTOS ABATEMENT for all work which disturbs asbestos.

2. SECTION 13282 - Lead Paint Control Measures for all work which disturbs lead.

3. SECTION 13288 - TESTING AND AIR MONITORING for air testing requirements.

1.02 ASBESTOS

A. The structure or structures to be renovated or modified under this contract were surveyed for the presence of asbestos containing building materials (ACBM), using AHERA requirements. A copy of the initial survey report, as well as any subsequent supplemental survey report(s) if performed, are included in this Section.

1. The report is included, even when no ACM was found, for the Contractor's information. Review the attached report for the basis on which the negative ACM finding was made. Contractor may perform further surveys at its own expense, if ACM not shown in the report is suspected in the areas of the building in which work will be performed. If ACM is found, notify the State Representative immediately. The State will reimburse the Contractor for the testing cost if ACM is found.

2. If there is ACM outside of the areas in which work will be performed, this ACM shall not be disturbed in any way.

B. If applicable, notify employees, subcontractors, and all other persons engaged on the project of the presence of asbestos in the existing buildings in accordance with the State of Hawaii: Occupational Safety and Health Administration and 29 CFR 1926.1101, Asbestos.

C. In the event that work is required in any building or buildings on the site other than the one(s) designated within this project scope, request copies of the asbestos survey report(s) for such building(s) from the State

Representative. Based on the information contained in the additional survey(s), notify affected personnel.

1.03 LEAD PAINT

A. Inform employees, Subcontractors and all other persons engaged in the project that lead containing material is present in the existing building(s) and at the job site. Follow the requirements of 29 CFR 1926.62 Lead.

B. Review the attached lead testing data which identify locations of lead containing material was found. Lead testing was for design purposes only, and the results do not satisfy any of the requirements of 29 CFR 1926.62 Lead.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.01 SURVEY: Limited Hazardous Material Survey, 74 pages, dated December 2023, prepared by EnivroQuest, Inc.

END OF SECTION

EnviroQuest

SERVICES

HAZMAT Inspections

Remediation Design

Asbestos Management

Lead Management

Lead Risk Assessment

Industrial Hygiene

Indoor Air Quality

Mold Assessment

Environmental Site Assessments

Subsurface Investigation

Water Sampling

Asbestos Training

Lead Training

OSHA Training

OSHA Compliance

LIMITED HAZARDOUS MATERIAL SURVEY

MALUHIA HOSPITAL
1027 HALA DRIVE
HONOLULU, HAWAII 96817

EnviroQuest Project: 303345

December 2023

Prepared for:

Pacific Architects, Inc.
2020 South King Street
Honolulu, Hawaii 96826

Prepared by:

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea, Hawaii 96701
808.486.5881

Kristen Kaneshiro
Industrial Hygienist

David Leigh
PM/CIH

TABLE OF CONTENTS

TABLES

APPENDICES

1 INTRODUCTION

A limited hazardous material survey (HMS) was conducted on November 21, 2023, at Maluhia Hospital in Honolulu, Hawaii.

The purpose of the activities under this project was to perform sampling for asbestos-containing materials (ACMs), lead-based paint (LBP), and polychlorinated biphenyls (PCBs) from various doors, door frames, and other surrounding materials impacted by the planned renovation work.

1.1 SITE LOCATION

The listed areas were included in our inspection.

- Selected doors from the following floors:
  - Sub-basement
  - Basement
  - 1st floor
  - 2nd floor
  - 3rd floor

2 ASBESTOS

Seventy-seven samples were collected from suspect asbestos-containing materials.

2.1 METHODOLOGY

A visual inspection for suspect ACM and homogeneous areas (areas that have uniform color, texture, and appearance) was conducted. Suspect materials were divided into three Environmental Protection Agency (EPA) categories:

- Surfacing Materials (sprayed or troweled-on materials)
- Thermal Systems Insulations (materials generally applied to various mechanical systems)
- Miscellaneous Materials (any materials which do not fit in the above categories)

Sampling methodology generally followed the procedures presented in EPA 40 CFR 763 *Asbestos* and Hawaii Department of Health (HDOH), Hawaii Administrative Rules (HAR) Titles 11-501 *Asbestos Requirements* and 11-502 *Asbestos Containing Materials in Schools*.

While sampling locations were selected randomly to represent homogenous materials, sampling was confined to materials which were readily accessible and did not involve the destruction of physical barriers.

2.2 RESULTS

Samples were submitted to Hawaii Analytical Laboratory, LLC. (HAL) in Honolulu, Hawaii, a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory. The samples were analyzed by polarized-light microscopy (PLM) using EPA Method 40 CFR, Part 763, Appendix E to Subpart E *Interim Method of the Determination of Asbestos in Bulk Insulation Samples* and EPA 600/R-93-116, *Method for the Determination of Asbestos in Bulk Building Materials*. HAL is also registered to provide asbestos laboratory services in Hawaii under HDOH 11-504 *Asbestos Abatement Certification Program.*

Based on the laboratory analytical results, asbestos was identified in 43 of the 77 samples. 39 samples were determined to be asbestos-containing materials (ACM), materials containing more than 1% asbestos. The remaining four samples were reported as having a concertation of less than 1% asbestos. In accordance with the National Emission Standard for Hazardous Air Pollutants (NESHAP), 40 CFR 61 Part M, samples consisting of distinct layers of materials were analyzed and reported separately by the laboratory. NESHAP also states that if asbestos is identified in amounts less than 10%, the owner or operator of the building must elect to assume the amount to be greater than 1% and treat the material as asbestos-containing material or request verification of the amount by point counting. No samples were point counted for this report. A summary of the data is presented in Table 1.

Refer to the accompanying appendices for laboratory analytical results and photographs.

3 LEAD

Thirty-three paint film samples were collected from painted or coated materials.

3.1 METHODOLOGY

A visual inspection for painted or coated building surfaces was conducted. Sampling methodology generally followed the procedures presented in the U.S. Department of Housing and Urban Development's document *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* and EPA 40 CFR 745 *Lead-Based Paint Poisoning Prevention in Certain Residential Structures.*

3.2 RESULTS

Samples were submitted to HAL in Honolulu, Hawaii, an American Industrial Hygiene Association (AIHA) accredited laboratory with a specific accreditation for lead analysis under AIHA Environmental Lead Laboratory Accreditation Program. The paint film samples were analyzed by NIOSH Method 7082m *Lead by Flame Atomic Absorption Spectrophotometry.*

Based on the laboratory analytical results, 1 of the 33 samples exceeded the EPA guidelines for lead in paint. The EPA defines lead-based paint as paint or other coatings containing lead equal to, or in excess of, 0.5% lead by weight. Lead at concentrations below the EPA guidelines were also detected in various paint/coating. For the purpose of this report, this paint is identified as paint with lead (PWL), lead greater than the laboratory analytical detection limit but less than 0.5% lead by weight. A summary of the data is presented in Table 2.

Refer to the accompanying appendices for laboratory analytical results and photographs.

4 POLYCHLORINATED BIPHENYLS

Three composite samples were collected from suspect PCB containing caulking and mastics.

4.1 METHODOLOGY

The samples were collected from the suspect materials that will be impacted by the planned renovation work. Samples of each homogenous suspect material were collected from each floor and combined into a single plastic bag to create one composite sample for each material. This was repeated for each homogenous suspect material.

4.2 RESULTS

The samples were submitted to HAL in Honolulu, Hawaii. The samples were analyzed via EPA Method 8082, *Polychlorinated Biphenyls by Gas Chromatography.* HAL is a National Environmental Laboratory Program accredited laboratory.

Based on the laboratory analytical result, PCBs were not detected in the 3 samples collected.

Refer to the accompanying appendices for laboratory analytical results.

5 SUMMARY

The areas and materials sampled in this inspection were specific to this project.

5.1 ASBESTOS

The listed material was identified as asbestos-containing material.

Material	Location	Condition
Sub-basement		
Tan caulking	Door frames/wall seams	Good
Basement		
Tan caulking	Door frames/wall seams	Good
Light beige floor tiles w/black mastic	Makai stairs #2, floor	Good
First floor		
Tan caulking	Door frames/wall seams	Good
Light beige floor tiles with black mastic	Mauka stairs #2, floor	Good
Drywall with joint compound	Central stairs, wall	Good
Second floor		
Tan caulking	Door frames/wall seams	Good
Vinyl wood plank over vinyl floor tiles w/black mastic	Mauka stairs #2, floor	Good
Drywall with joint compound (pink wall paper)	Central stairs, walls	Good
Third floor		
Tan caulking	Door frames/wall seams	Good
Drywall with joint compound (blue wall paper)	Central stairs, walls	Good

If the material is likely to be disturbed during the renovation work, the materials must be removed by a certified asbestos abatement contractor under controlled conditions in accordance with EPA and HDOH regulations. Work should also be monitored by an independent HDOH accredited Asbestos Project Monitor.

A trace amount of asbestos was also identified in the plaster portion of the walls in 2nd floor Day room The contractor's employees disturbing this plaster must be informed that it contains asbestos and must conduct all asbestos disturbance work in accordance with Occupational Safety and Health Administration (OSHA) 29 CFR 1926.1101 *Asbestos.*

5.2 LEAD

The listed painted material was identified as lead based paint.

Color	Location	Condition
Beige	Metal door frames	Intact

Paints with lead were also identified, see Table 2. Prior to the disturbance of any LBP and PWL, the contractor's employees disturbing the painted material must be informed that it contains lead and must conduct all lead disturbance work in accordance with Occupational Safety and Health Administration (OSHA) 29 CFR 1926.62 *Lead*. If any untested paints are disturbed, they should be assumed to contain lead.

If lead paint chip or waste is generated during the renovation and/or demolition work, composite samples of the generated waste must be collected for *Toxicity Characteristic Leaching Procedure* (TCLP) analysis to determine the waste disposal characterization. *Hawaii Administrative Rules, Title 11, Department of Health, Chapter 261, Hazardous Waste Management* allows a maximum concentration of lead contaminant by TCLP at 5.0 mg/L. TCLP results exceeding the 5.0 mg/L threshold requires the material to be disposed of as hazardous waste. Results below this threshold allow for the lead waste to be disposed of as construction debris. Note that painted metal components are exempt from TCLP testing and hazardous waste disposal if recycled.

5.3 POLYCHLORINATED BIPHENYLS

PCBs were not detected in the building samples collected.

6 LIMITATIONS

The information set forth is based solely on the agreed upon scope of services, on personal observation, laboratory data, and information provided by Pacific Architects, Inc.

Although this inspection provides information on the relative presence or absence of asbestos-containing materials, lead-based paint and polychlorinated biphenyls, it should not be construed as a final statement that all hazardous materials have been identified.

Given the often obscure and elusive nature of hazardous materials, it is never possible to absolutely dismiss the possibility of additional hazardous materials. EnviroQuest, Inc. expressly disclaims any and all liability, representations, expressed or implied, contained in, or for omission from this report, or any other written or oral communication which might be interpreted as establishing the total extent of all liability present at the subject property.

Our services have been performed with usual thoroughness and competence of the consulting profession, in accordance with the standard of professional services at this time. No other warranty or representation, either expressed or implied is included or intended.

Any question regarding our work and this report, the presentation of the information, and the interpretation of the data are welcome and should be referred to the undersigned. EQI greatly appreciates this opportunity to assist you with your industrial hygiene needs. We look forward to working with you again in the future.

TABLE 1: ASBESTOS SAMPLING SUMMARY

Homogenous Material	ACM[1] (Y/N)	Location	Sample ID	Friable (Y/N)	Est Qty (ACM) (ft^2)	Condition[2]	Photo No.
Off-white over tan painted door caulking	Y	Soil linen, sub-basement Stairwell, sub-basement Storage, sub-basement Maintenance, sub-basement Makai stairs outer door, sub-basement Makai stairs inner door, sub-basement	303345-01A 303345-01B 303345-01C 303345-01D 303345-01E 303345-01F	N	--	G	2
Beige ceramic floor tile w/black grout and gray mortar	N	Soil linen, floor, sub-basement	303345-02A 303345-02B 303345-02C	N	--	G	3
Yellow ceramic tile w/white grout and gray mortar	N	Soil linen, wall, sub-basement	303345-03A 303345-03B 303345-03C	N	--	G	4
Off-white painted gray skimcoat	N	Soil linen, wall, interior, sub-basement Storage, wall, interior, sub-basement Maintenance, wall, interior, sub-basement	303345-04A 303345-04B 303345-04C	N	--	G	5
Off-white painted gray skimcoat	N	Soil linen, wall, exterior, sub-basement Storage, wall, exterior, sub-basement Maintenance, wall, exterior, sub-basement	303345-05A 303345-05B 303345-05C	N	--	G	6
Tan door caulking	Y	Makai stairs #2 outer door, basement Makai stairs #2 inner door, basement Makai stairs door, basement Hall #1 door, basement Hall #2 door, basement	303345-06A 303345-06B 303345-06C 303345-06D 303345-06E	N	--	G	7
Light beige VFT w/black mastic over concrete	Y	Makai stairs #2, floor, basement	303345-07A 303345-07B 303345-07C	N	--	G	8
Beige painted vinyl baseboard w/brown mastic	N	Hall #2, wall, basement	303345-08A 303345-08B 303345-08C	N	--	G	9
Tan door caulking	Y	Mauka stairs #2 outer door, 1st floor Mauka stairs #2 inner door, 1st floor Mauka stairs, 1st floor Central stairs, 1st floor Hall #1, 1st floor Makai stairs, 1st floor Makai stairs #2 inner door, 1st floor Makai stairs #2 outer door, 1st floor	303345-09A 303345-09B 303345-09C 303345-09D 303345-09E 303345-09F 303345-09G 303345-09H	N	--	G	10

Homogenous Material	ACM[1] (Y/N)	Location	Sample ID	Friable (Y/N)	Est Qty (ACM) (ft^2)	Condition[2]	Photo No.
Light-beige VFT w/black mastic over concrete	Y	Mauka stairs #2, floor, 1st floor	303345-10A 303345-10B 303345-10C	N	--	G	11
Yellow wallpaper w/clear glue	N	Mauka stairs, wall, 1st floor	303345-11A 303345-11B 303345-11C	N	--	G	12
Quarry tile w/light gray grout and dark gray mortar	N	Central stairs, floor, 1st floor	303345-12A 303345-12B 303345-12C	N	--	G	13
Off-white painted drywall and joint compound	Y	Central stairs, wall, 1st floor	303345-13A 303345-13B 303345-13C	N	--	G	14
Yellow painted vinyl baseboard w/brown mastic	N	Hall #1, floor, 1st floor	303345-14A 303345-14B 303345-14C	N	--	G	15
Tan door caulking	Y	Day room, 2nd floor Central stairs, 2nd floor Mauka stairs, 2nd floor Mauka stairs #2 inner door, 2nd floor Mauka stairs #2 outer door, 2nd floor Makai stairs #2 inner door, 2nd floor Makai stairs #2 outer door, 2nd floor	303345-15A 303345-15B 303345-15C 303345-15D 303345-15E 303345-15F 303345-15G	N	--	G	16
White painted plaster	N (trace)	Day room, wall, 2nd floor	303345-16A 303345-16B 303345-16C	N	--	G	17
Vinyl wood plank over VFT w/black mastic	Y	Central stairs, floor, 2nd floor	303345-17A 303345-17B 303345-17C	N	--	G	18
Pink wallpaper over drywall	Y	Central stairs, wall, 2nd floor Central stairs, wall, 2nd floor Central stairs, ceiling, 2nd floor	303345-18A 303345-18B 303345-18C	N	--	G	19
Tan door caulking	Y	Makai stairs inner door, 3rd floor Makai stairs outer door, 3rd floor Central stairs, 3rd floor Mauka stairs #2 inner door, 3rd floor Mauka stairs #2 outer door, 3rd floor Mauka stairs, 3rd floor	303345-19A 303345-19B 303345-19C 303345-19D 303345-19E 303345-19F	N	--	G	20

Homogenous Material	ACM[1] (Y/N)	Location	Sample ID	Friable (Y/N)	Est Qty (ACM) (ft^2)	Condition[2]	Photo No.
Blue wallpaper over drywall	Y	Central stairs, wall, 3rd floor	303345-20A 303345-20B 303345-20C	N	--	G	21

1. ACM=>1% asbestos content
2. Good (G); Damaged (D) <10% distributed or 25% localized; Significant Damage (SD), >10% distributed or 25% localized

TABLE 2: LEAD PAINT SAMPLING SUMMARY

Paint Color	Component	Substrate	Int/Ext	LBP[1] (Y/N)	PWL[2] (Y/N)	Paint Location	Sample ID	Results (% Wt)	Condition[3,4]	Photo No.
Beige	Door frame	Metal	Int	Y	-	Soil linen, sub-basement	303345-01P	0.55	Intact	22
Beige	Door	Metal	Int	N	Y	Soil linen, sub-basement	303345-02P	0.0066	Intact	23
Blue/beige	Door frame	Metal	Ext	N	N	Soil linen, sub-basement	303345-03P	<0.004	Intact	24
Blue/beige	Door	Metal	Ext	N	N	Soil linen, sub-basement	303345-04P	<0.004	Intact	25
Beige	Floor	Ceramic	Int	N	N	Soil linen, sub-basement	303345-05P	<0.004	Intact	26
Yellow	Wall	Ceramic	Int	N	Y	Soil linen, sub-basement	303345-06P	0.021	Intact	27
Beige	Wall	Concrete	Int	N	Y	Soil linen, sub-basement	303345-07P	0.15	Intact	28
Brown	Floor	Concrete	Int	N	N	Stairwell, sub-basement	303345-08P	<0.0041	Intact	29
Beige	Wall	Concrete	Ext	N	Y	Soil linen, sub-basement	303345-09P	0.039	Intact	30
Brown	Floor	Concrete	Ext	N	Y	Soil linen, sub-basement	303345-10P	0.014	Intact	31
Pink	Door frame	Metal	Int	N	N	Makai stairs #2, basement	303345-11P	<0.004	Intact	32
Pink/green	Door	Wood	Int	N	N	Makai stairs #2, basement	303345-12P	<0.004	Intact	33
Blue/white	Door	Wood	Int	N	N	Makai stairs, basement	303345-13P	<0.004	Intact	34
Gray	Door	Wood	Int	N	N	Makai stairs, basement	303345-14P	<0.004	Intact	35
Blue/green	Door	Wood	Int	N	N	Hall #2, basement	303345-15P	<0.004	Intact	36
Blue/green	Door frame	Metal	Int	N	N	Hall #2, basement	303345-16P	<0.004	Intact	37
Brown/red	Floor	Concrete	Int	N	Y	Makai stairs, basement	303345-17P	0.0042	Intact	38
Pink	Door	Wood	Int	N	N	Hall #1, basement	303345-18P	<0.004	Intact	39
Blue/green	Door	Wood	Ext	N	N	Hall #1, basement	303345-19P	<0.004	Intact	40
Off-white	Wall	CMU	Int	N	Y	Hall #1, basement	303345-20P	0.044	Intact	41
Yellow	Door frame	Metal	Int	N	N	Mauka stairs #2, 1st floor	303345-21P	<0.004	Intact	42
Yellow	Door	Metal	Ext	N	N	Mauka stairs #2, 1st floor	303345-22P	<0.004	Intact	43
Blue	Door	Metal	Int	N	N	Central stairs, 1st floor	303345-23P	<0.004	Intact	44
Beige	Door frame	Metal	Ext	N	N	Central stairs, 1st floor	303345-24P	<0.004	Intact	45
Beige	Door	Metal	Ext	N	N	Central stairs, 1st floor	303345-25P	<0.004	Intact	46
Yellow	Door	Wood	Int	N	N	Makai stairs, 1st floor	303345-26P	<0.004	Intact	47
Light blue	Door frame	Metal	Int	N	N	Dayroom, 2nd floor	303345-27P	<0.004	Intact	48
Light blue	Door	Wood	Int	N	N	Dayroom, 2nd floor	303345-28P	<0.004	Intact	49
Blue	Door frame	Metal	Int	N	N	Makai stairs, 3rd floor	303345-29P	<0.004	Intact	50
Light blue/ tan	Door	Wood	Int	N	N	Central stairs, 3rd floor	303345-30P	<0.004	Intact	51
Off-white	Wall	Drywall	Int	N	N	Central stairs, 3rd floor	303345-31P	<0.004	Intact	52
Tan	Door frame	Metal	Int	N	Y	Stairwell, sub-basement	303345-32P	0.021	Intact	53
Tan	Door	Metal	Int	N	N	Stairwell, sub-basement	303345-33P	<0.004	Intact	54

1. LBP = >0.5% lead by weight
2. PWL = >laboratory analytical detection limit but <0.5%
3. Exterior: Intact – Entire surface is intact; Fair - ≤ 10ft²; Poor - >10 ft²
4. Interior: Intact – Entire surface is intact; Fair - ≤ 2ft² or ≤ 10%; Poor - >2 ft² or >10%

TABLE 3: PCB SAMPLING SUMMARY

Material	Color	Int/Ext	PCB (Y/N)	Location	Sample ID	Results*
Door frame caulking	Tan	Int	N	Sub-basement, basement, 1st floor, 2nd floor, 3rd floor	303345-01PCB	BDL
VFT mastic	Black	Int	N	Sub-basement, basement, 1st floor, 2nd floor, 3rd floor	303345-02PCB	BDL
Baseboard mastic	Brown	Int	N	Sub-basement, basement, 1st floor, 2nd floor, 3rd floor	303345-03PCB	BDL

**BDL – Below the Laboratory Detection Limits*

EnviroQuest

APPENDIX A

REFERENCE PHOTOGRAPHS

REFERENCE PHOTOGRAPHS

EnviroQuest

Photo 1: Overview of Maluhia Hospital.

Photo 2: Sub-basement.

Off-white over asbestos containing tan door caulking.

Photo 3: Sub-basement.

Non-asbestos containing ceramic floor tile with black grout and gray mortar.

Photo 4: Sub-basement.

Non-asbestos containing yellow ceramic wall tile with black grout and gray mortar.

Photo 5: Sub-basement.

Non-asbestos containing off-white paint over skimcoat on the concrete wall.

Photo 6: Sub-basement.

Non-asbestos containing off-white paint over skimcoat on the concrete wall.

Photo 7: Basement.

Off-white over asbestos containing tan door caulking.

Photo 8: Basement.

Asbestos containing light beige vinyl floor tile with black mastic.

Photo 9: Basement.

Non-asbestos containing vinyl baseboard with brown mastic.

Photo 10: 1st floor.

Asbestos containing tan door caulking.

Photo 11: 1st floor.

Asbestos containing light beige vinyl floor tile with black mastic.

Photo 12: 1st floor.

Non-asbestos containing yellow wallpaper with clear glue.

Photo 13: 1st floor.

Non-asbestos containing quarry tile with light gray grout and dark gray mortar.

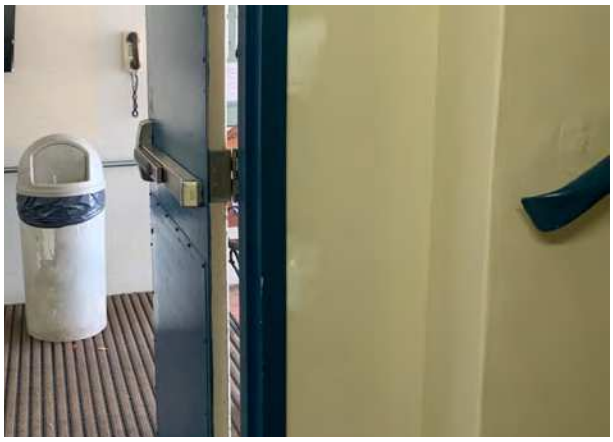


Photo 14: 1st floor.

Off-white painted drywall with asbestos containing joint compound.

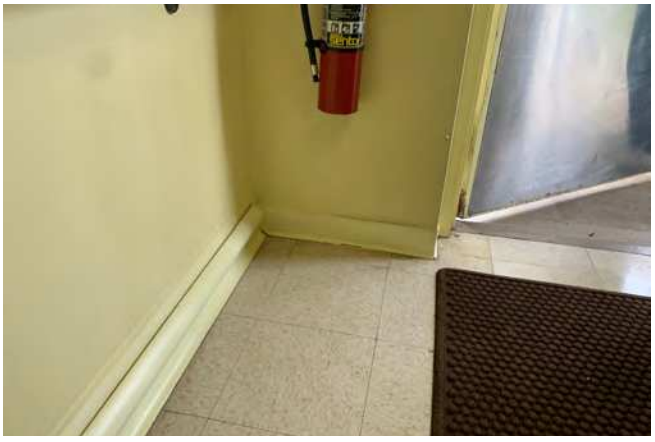


Photo 15: 1st floor.

Non-asbestos containing yellow painted vinyl baseboard with brown mastic.

Photo 16: 2nd floor.

Asbestos containing tan door caulking.

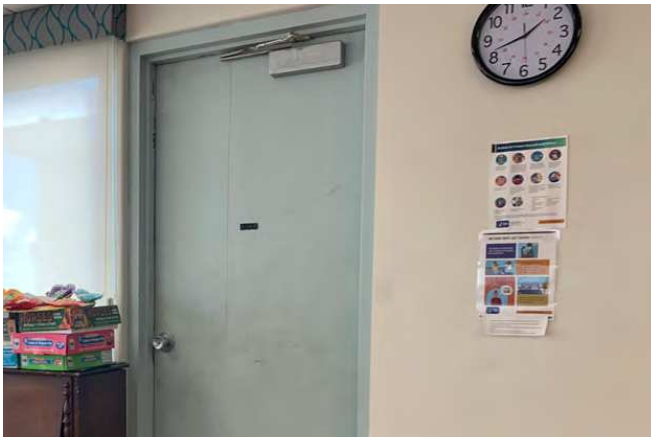


Photo 17: 2nd floor.

White painted plaster containing less than 1% asbestos.

Photo 18: 2nd floor.

Vinyl wood plank over asbestos containing vinyl floor tile with black mastic.

Photo 19: 2nd floor.

Pink wallpaper over drywall with asbestos containing joint compound.

Photo 20: 3rd floor.

Asbestos containing tan door caulking

Photo 21: 3rd floor.

Blue wallpaper over drywall with asbestos containing joint compound.

Photo 22: Sub-basement.

Beige lead-based paint on the metal door frame.

Photo 23: Sub-basement.

Beige paint with lead on the metal door.

Photo 24: Sub-basement.

Lead was not detected in the blue over beige paint on the metal door frame.

Photo 25: Sub-basement.

Lead was not detected in the blue over beige paint on the metal door.

Photo 26: Sub-basement.

Lead was not detected in the beige ceramic floor tile.

Photo 27: Sub-basement.

Yellow glazing with lead on the ceramic wall tile.

Photo 28: Sub-basement, interior.

Beige paint with lead on the concrete wall.

Photo 29: Sub-basement, interior.

Lead was not detected in the brown paint on the concrete floor.

Photo 30: Sub-basement, exterior.

Beige paint with lead on the concrete wall.

Photo 31: Sub-basement, exterior.

Brown paint with lead on the concrete floor.

Photo 32: Basement.

Lead was not detected in the pink paint on the metal door frame.

Photo 33: Basement.

Lead was not detected in the pink over green paint on the wood door.

Photo 34: Basement.

Lead was not detected in the blue over white paint on the wood door.

Photo 35: Basement, exterior of makai stairs door.

Lead was not detected in the gray paint on the wood door.

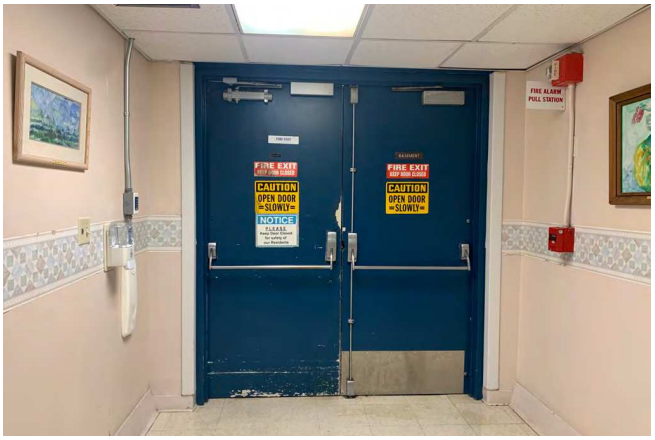


Photo 36: Basement.

Lead was not detected in the blue over green paint on the wood door.

Photo 37: Basement.

Lead was not detected in the blue over green paint on the metal door frame.

Photo 38: Basement.

Brown over red paint with lead on the concrete floor.

Photo 39: Basement.

Lead was not detected in the pink paint on the wood door.

Photo 40: Basement.

Lead was not detected in the blue over green paint on the wood door.

Photo 41: Basement.

Off-white paint with lead on the CMU wall.

Photo 42: 1st floor.

Lead was not detected in the yellow paint on the metal door frame.

Photo 43: 1st floor.

Lead was not detected in the yellow paint on the metal door.

Photo 44: 1st floor.

Lead was not detected in the blue paint on the metal door and frame

Photo 45: 1st floor.

Lead was not detected in the beige paint on the metal door frame.

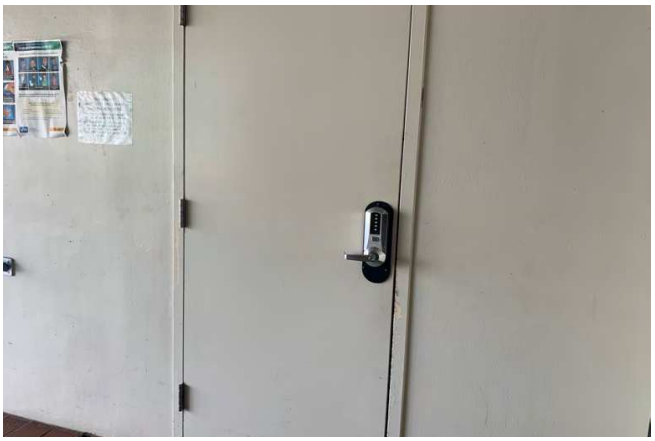


Photo 46: 1st floor.

Lead was not detected in the beige paint on the metal door and frame.

Photo 47: 1st floor.

Lead was not detected in the yellow paint on the wood door and frame.

Photo 48: 2nd floor.

Lead was not detected in the light blue paint on the metal door and frame.

Photo 49: 2nd floor.

Lead was not detected in the light blue paint on the wood door and frame.

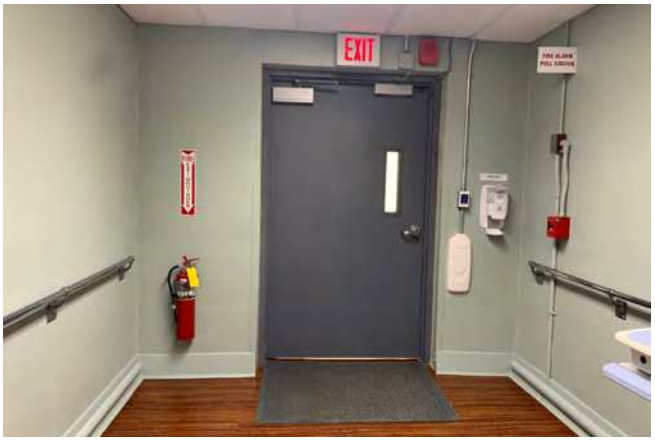


Photo 50: 3rd floor.

Lead was not detected in the blue paint on the metal door and frame.

Photo 51: 3rd floor.

Lead was not detected in the light blue over tan paint on the wood door and frame.

Photo 52: 3rd floor.

Lead was not detected in the off-white paint on the drywall wall.

Photo 53: Sub-basement.

Tan paint with lead on the metal door frame.

Photo 54: Sub-basement.

Lead was not detected in the yellow paint on the metal door.

EnviroQuest

APPENDIX B

SAMPLE LOCATION DRAWINGS

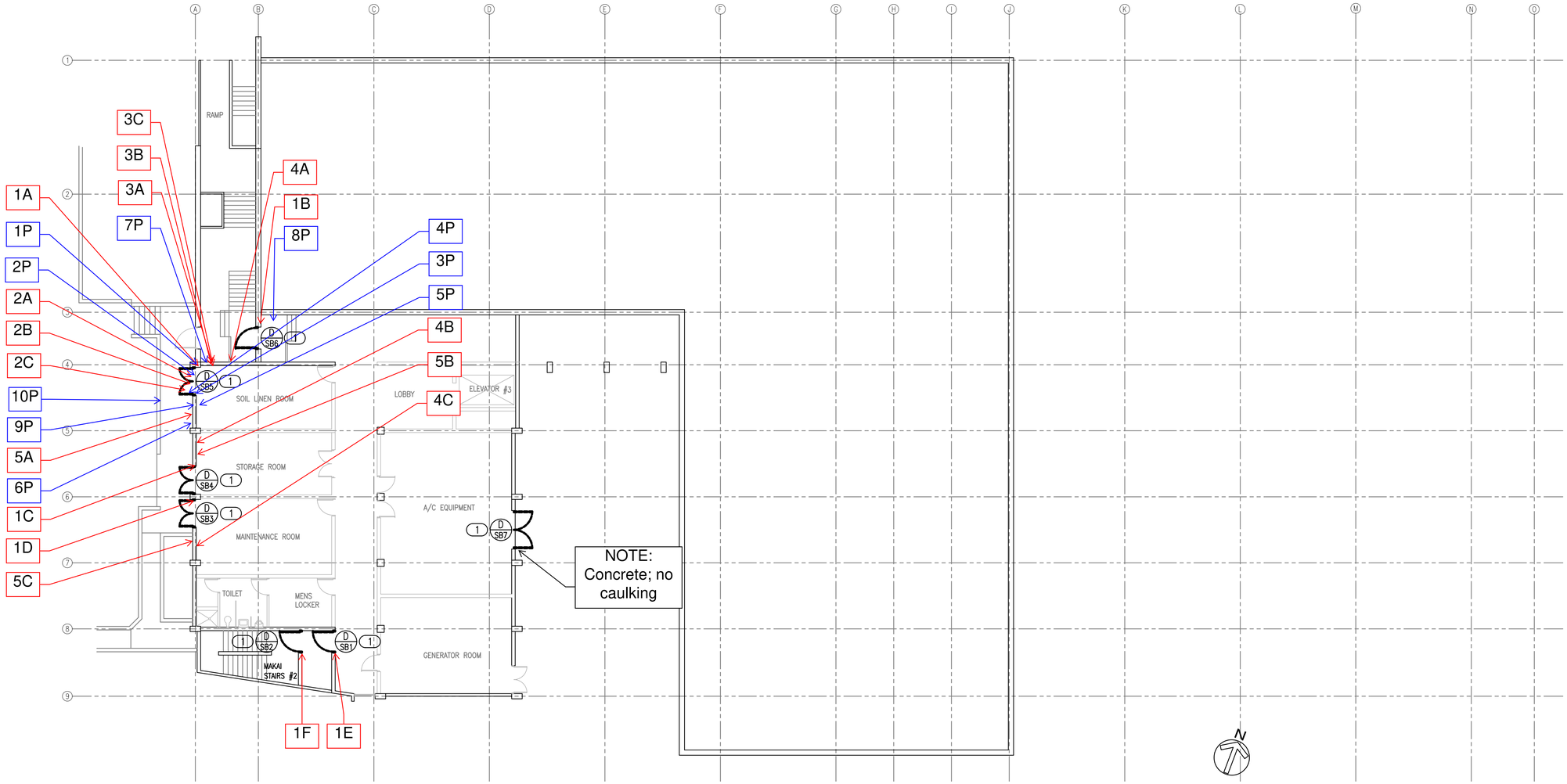
Legend:

Lead Sample

ACM Sample

DEMO LEGEND

1	REMOVE & DISPOSE EXIST'G METAL DOOR & FRAME



A / A-2.0 SUB-BASEMENT PLAN – DEMO WORK

SCALE: 3/32" = 1'-0"

DATE | DESCRIPTION | REV. NO.

This work was prepared by me or under my supervision and construction of this project will be under my observation.

Signature

LICENSE EXPIRES : APRIL 30, 2024

CLIFFORD K. MURAKAMI LICENSED PROFESSIONAL ARCHITECT NO. 6665 HAWAII, USA

Pacific Architects, Inc.
2020 South King Street
Honolulu, Hawaii 96826
808-949-1601
fax 808-942-0054

PROJECT TITLE

MALUHIA HOSPITAL
REPLACE EXIT DOORS
1027 HALA DR.
HONOLULU, HI 96817
T.M.K.: 01 – 06 – 09: 04

SHEET TITLE

SUB-BASEMENT PLAN – DEMO WORK

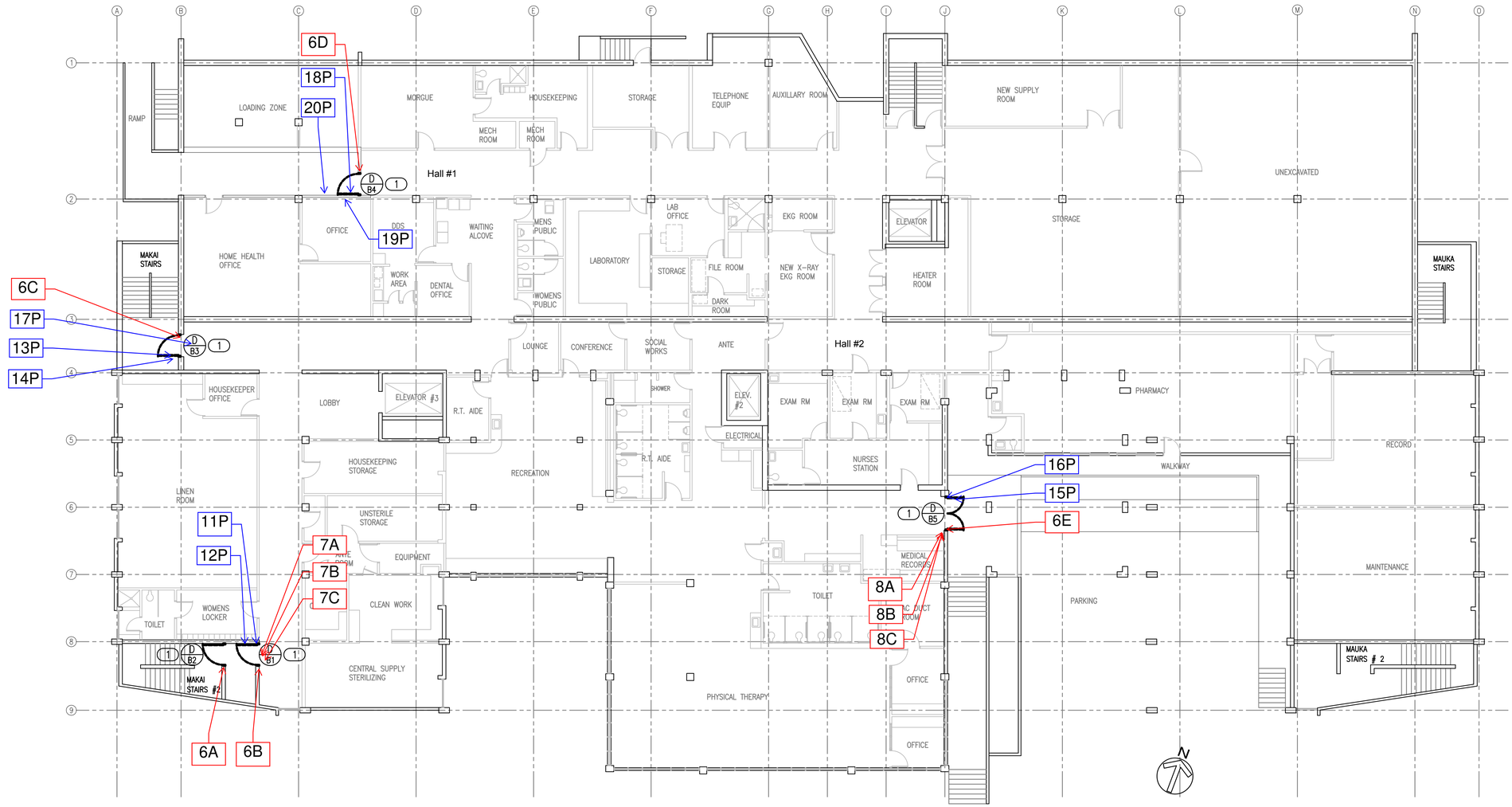
DATE MARCH 2014
SCALE AS SHOWN
DRAWN GA/MM/MT CHECK DM
SHEET

A-2.0

3 OF 18 SHEETS

DEMO LEGEND

(1)	REMOVE & DISPOSE EXIST'G METAL DOOR & FRAME



A / A-2.1 BASEMENT PLAN – DEMO WORK

SCALE: 3/32" = 1'-0"

REV. NO.	DESCRIPTION	DATE

This work was prepared by me or under my supervision and construction of this project shall be under my observation.

Signature

LICENSE EXPIRES : APRIL 30, 2024

CLIFFORD K. MURAKAMI LICENSED PROFESSIONAL ARCHITECT NO. 6665 HAWAII, U.S.A.

Pacific Architects, Inc.
2020 South King Street
Honolulu, Hawaii 96826
808-949-1601
fax 808-942-0054

PROJECT TITLE

MALUHIA HOSPITAL
REPLACE EXIT DOORS
1027 HALA DR.
HONOLULU, HI 96817
T.M.K.: 01 – 06 – 09: 04

SHEET TITLE

BASEMENT PLAN – DEMO WORK

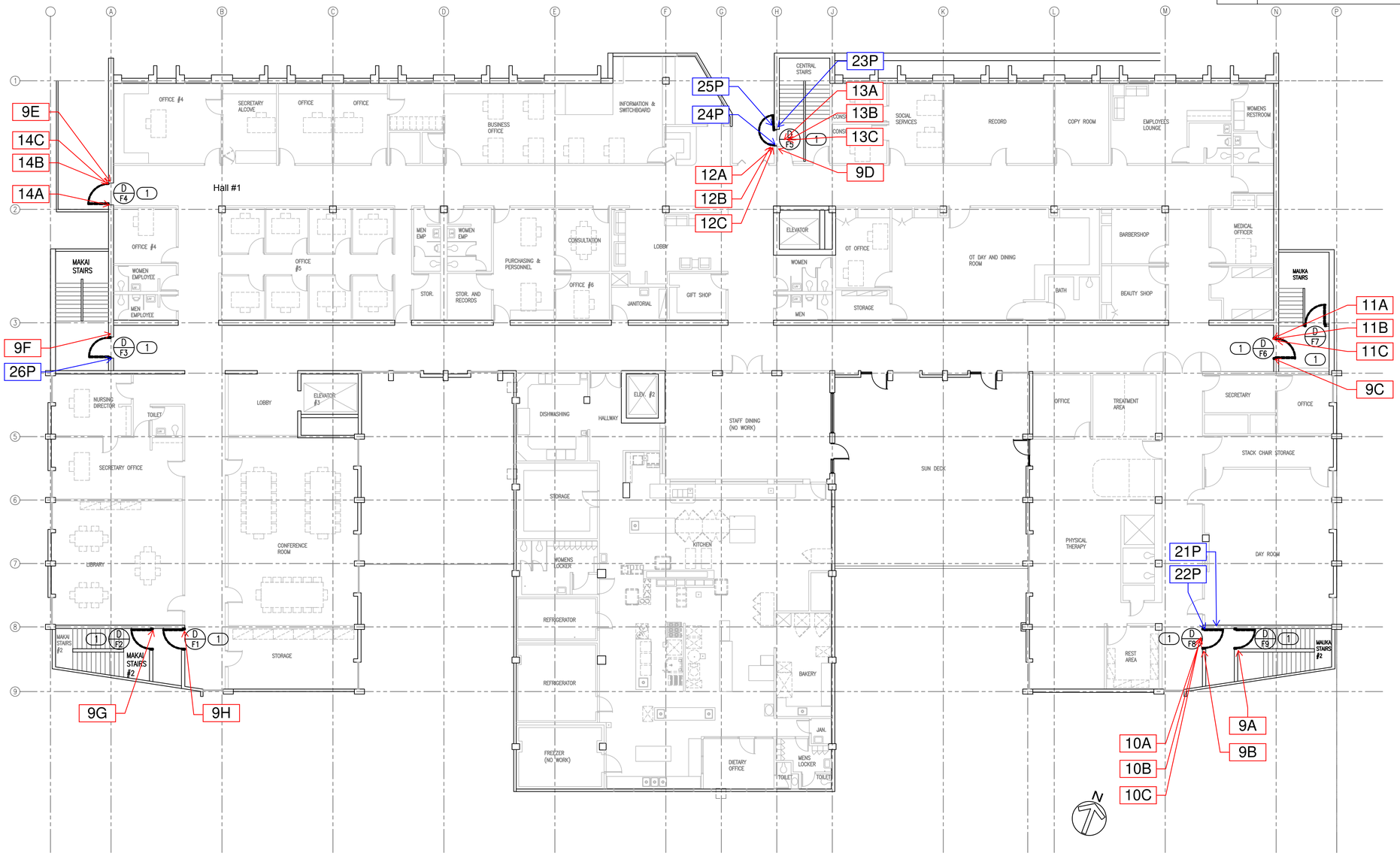
DATE MARCH 2014
SCALE AS SHOWN
DRAWN GA/MM/MT CHECK DM
SHEET

A-2.1

3 OF 18 SHEETS

DEMO LEGEND

1	REMOVE & DISPOSE EXIST'G METAL DOOR & FRAME



A
A-2.2

FIRST FLOOR PLAN – DEMO WORK

SCALE: 3/32" = 1'-0"

REV. NO.	DESCRIPTION	DATE

This work was prepared by me or under my supervision and construction of this project will be under my observation.

Signature

LICENSE EXPIRES : APRIL 30, 2024

CLIFFORD K. MURAKAMI LICENSED PROFESSIONAL ARCHITECT NO. 6065 HAWAII, U.S.A.

Pacific Architects, Inc.
2020 South King Street
Honolulu, Hawaii 96826
808-949-1601
fax 808-942-0054

PROJECT TITLE

MALUHIA HOSPITAL
REPLACE EXIT DOORS
1027 HALA DR.
HONOLULU, HI 96817
T.M.K.: 01 – 06 – 09: 04

SHEET TITLE

FIRST FLOOR PLAN – DEMO WORK

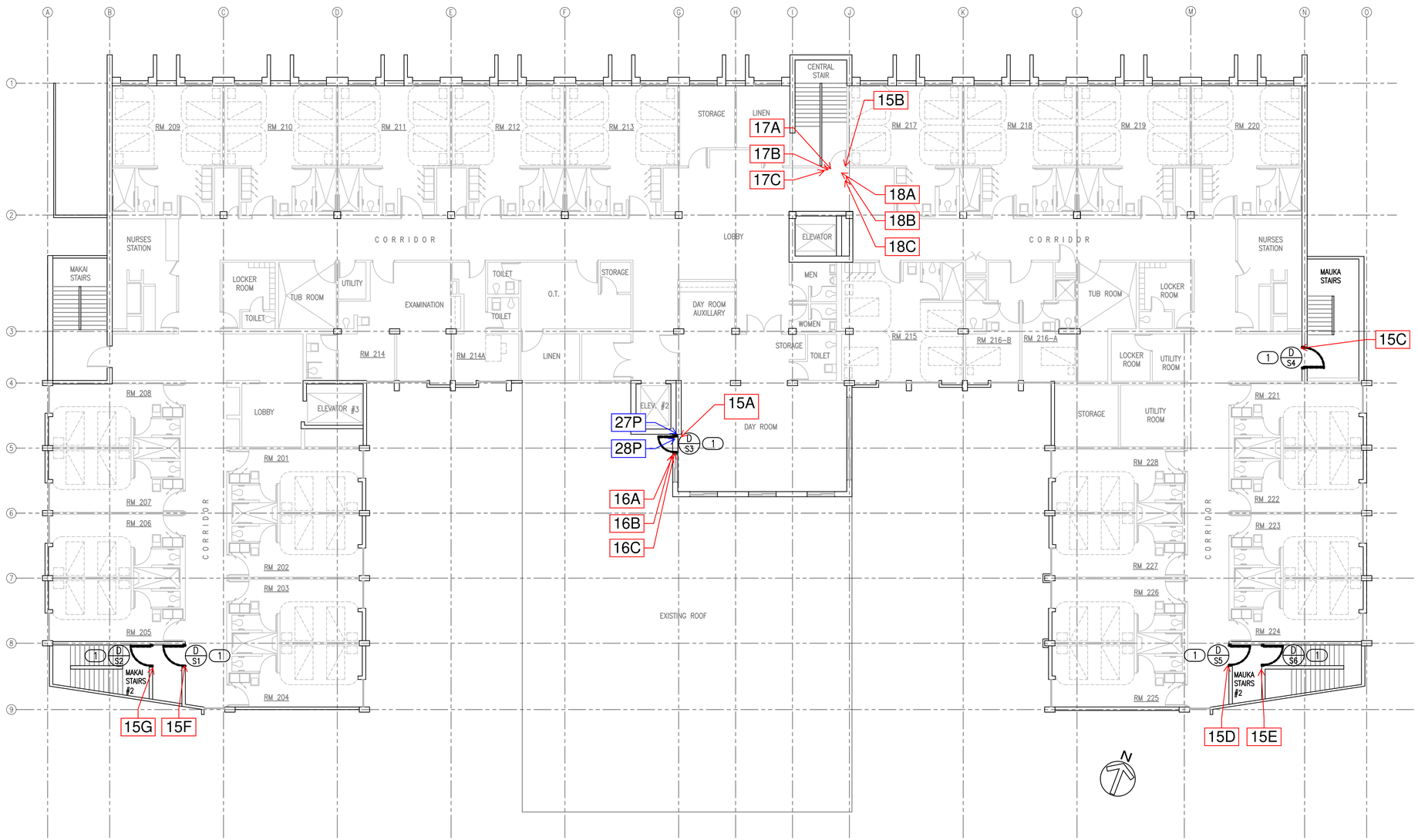
DATE MARCH 2014
SCALE AS SHOWN
DRAWN GA/MM/MT CHECK DM
SHEET

A-2.2

4 OF 18 SHEETS

DEMO LEGEND

1	REMOVE & DISPOSE EXIST'G METAL DOOR & FRAME



A
A-2.3

SECOND FLOOR PLAN – DEMO WORK

SCALE: 3/32" = 1'-0"

DATE

DESCRIPTION

REV. NO.

This work was prepared by me or under my supervision and construction of this project shall be under my observation.

Signature

LICENSE EXPIRES : APRIL 30, 2024

CLIFFORD K. MURAKAMI
LICENSED PROFESSIONAL ARCHITECT
NO. 6665
HAWAII, USA

Pacific Architects, Inc.
2020 South King Street
Honolulu, Hawaii 96826
808-949-1601
fax 808-942-0054

PROJECT TITLE

MALUHIA HOSPITAL
REPLACE EXIT DOORS
1027 HALA DR.
HONOLULU, HI 96817
T.M.K.: 01 – 06 – 09: 04

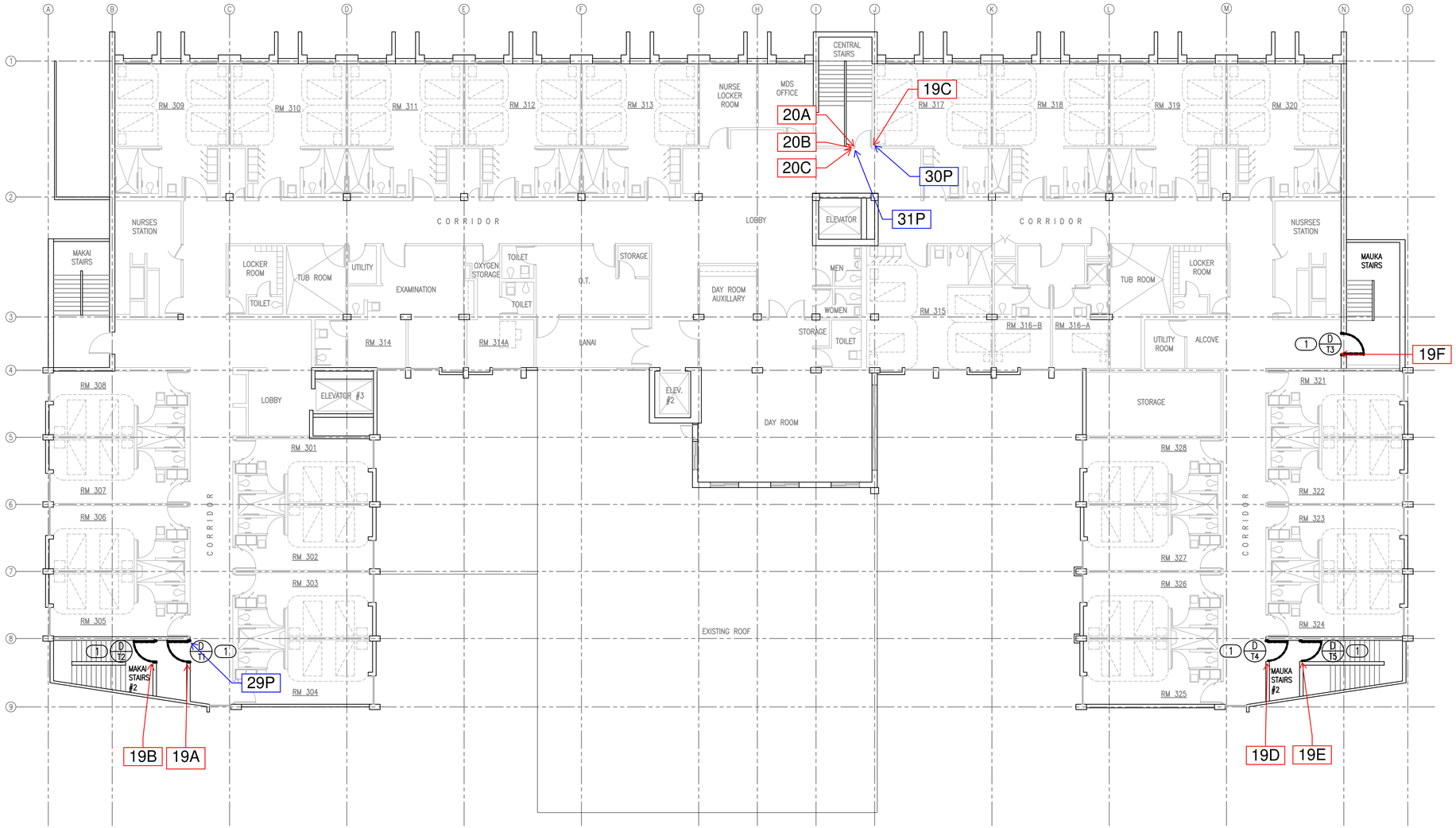
SHEET TITLE

SECOND FLOOR PLAN – DEMO WORK

DATE MARCH 2014
SCALE AS SHOWN
DRAWN GA/MM/MT CHECK DM
SHEET
A-2.3
5 OF 18 SHEETS

DEMO LEGEND

(1)	REMOVE & DISPOSE EXIST'G METAL DOOR & FRAME



A
A-2.4

THIRD FLOOR PLAN – DEMO WORK

SCALE: 3/32" = 1'-0"

N

REV. NO.	DESCRIPTION	DATE

This work was prepared by me or under my supervision and construction of this project shall be under my supervision.

Signature

LICENSE EXPIRES : APRIL 30, 2024

CLIFFORD K. MURAKAMI LICENSED PROFESSIONAL ARCHITECT NO. 6665 HAWAII, USA

Pacific Architects, Inc.
2020 South King Street
Honolulu, Hawaii 96826
808-949-1601
fax 808-942-0054

PROJECT TITLE

MALUHIA HOSPITAL
REPLACE EXIT DOORS
1027 HALA DR.
HONOLULU, HI 96817
T.M.K.: 01 – 06 – 09: 04

SHEET TITLE

THIRD FLOOR PLAN – DEMO WORK

DATE MARCH 2014
SCALE AS SHOWN
DRAWN GA/MM/MT CHECK DM

SHEET

A-2.4

6 OF 18 SHEETS

EnviroQuest

APPENDIX C

ASBESTOS
LABORATORY ANALYTICAL REPORT

Hawaii Analytical Laboratory
ANALYTICAL REPORT

Friday, December 1, 2023

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312326
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v	Matrix	Date Analyzed
202386071	**303345-01A**	**Yes**	Chrysotile	**2**	None detected		Calcite + binder	12/1/2023
Layer	Tan caulk (limited)							
Comments								
202386071	**303345-01A**		NONE DETECTED		None detected		Calcite + binder + paint	12/1/2023
Layer	White caulk / paint							
Comments								
202386072	**303345-01B**	**Yes**	Chrysotile	**3**	None detected		Calcite + binder	12/1/2023
Layer	Tan caulk							
Comments								
202386072	**303345-01B**		NONE DETECTED		None detected		Calcite + binder + paint	12/1/2023
Layer	White caulk / paint							
Comments								
202386073	**303345-01C**	**Yes**	Chrysotile	**3**	None detected		Calcite + binder	12/1/2023
Layer	Tan caulk							
Comments								
202386073	**303345-01C**		NONE DETECTED		None detected		Calcite + binder + paint	12/1/2023
Layer	White caulk / paint							
Comments								

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312326
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v	Matrix	Date Analyzed
202386074	**303345-01D**	**Yes**	Chrysotile	**3**	None detected		Calcite + binder	12/1/2023
Layer	Tan caulk							
Comments								
202386074	**303345-01D**		NONE DETECTED		None detected		Calcite + binder + paint	12/1/2023
Layer	White caulk / paint							
Comments								
202386075	**303345-01E**		NONE DETECTED		None detected		Calcite + binder + paint	12/1/2023
Layer	White caulk / paint							
Comments								
202386076	**303345-01F**		NONE DETECTED		None detected		Calcite + binder + paint	12/1/2023
Layer	White caulk / paint							
Comments								
202386077	**303345-02A**		NONE DETECTED		None detected		Ceramic + quartz	12/1/2023
Layer	Beige ceramic tile							
Comments								
202386077	**303345-02A**		NONE DETECTED		None detected		Calcite + quartz	12/1/2023
Layer	Black grout							
Comments								
202386077	**303345-02A**		NONE DETECTED		None detected		Calcite + quartz	12/1/2023
Layer	Gray mortar							
Comments								
202386078	**303345-02B**		NONE DETECTED		None detected		Ceramic + quartz	12/1/2023
Layer	Beige ceramic tile							
Comments								

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312326
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v	Matrix	Date Analyzed
202386078	**303345-02B**		NONE DETECTED		None detected		Calcite + quartz	12/1/2023
Layer	Black grout							
Comments								
202386078	**303345-02B**		NONE DETECTED		None detected		Calcite + quartz	12/1/2023
Layer	Gray mortar							
Comments								
202386079	**303345-02C**		NONE DETECTED		None detected		Ceramic + quartz	12/1/2023
Layer	Beige ceramic tile							
Comments								
202386079	**303345-02C**		NONE DETECTED		None detected		Calcite + quartz	12/1/2023
Layer	Black grout							
Comments								
202386079	**303345-02C**		NONE DETECTED		None detected		Calcite + quartz	12/1/2023
Layer	Gray mortar							
Comments								
202386080	**303345-03A**		NONE DETECTED		None detected		Calcite + quartz	12/1/2023
Layer	Gray mortar							
Comments								
202386080	**303345-03A**		NONE DETECTED		None detected		Calcite + quartz	12/1/2023
Layer	White grout							
Comments								
202386080	**303345-03A**		NONE DETECTED		None detected		Ceramic + quartz	12/1/2023
Layer	Yellow ceramic tile							
Comments								

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312326
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v	Matrix	Date Analyzed
202386081	**303345-03B**		NONE DETECTED		None detected		Calcite + quartz	12/1/2023
Layer	Gray mortar							
Comments								
202386081	**303345-03B**		NONE DETECTED		None detected		Calcite + quartz	12/1/2023
Layer	White grout							
Comments								
202386081	**303345-03B**		NONE DETECTED		None detected		Ceramic + quartz	12/1/2023
Layer	Yellow ceramic tile							
Comments								
202386082	**303345-03C**		NONE DETECTED		None detected		Calcite + quartz	12/1/2023
Layer	Gray mortar							
Comments								
202386082	**303345-03C**		NONE DETECTED		None detected		Calcite + quartz	12/1/2023
Layer	White grout							
Comments								
202386082	**303345-03C**		NONE DETECTED		None detected		Ceramic + quartz	12/1/2023
Layer	Yellow ceramic tile							
Comments								
202386083	**303345-04A**		NONE DETECTED		None detected		Gypsum + paint + other	11/30/2023
Layer	Gray skim coat / off-white paint							
Comments								
202386084	**303345-04B**		NONE DETECTED		None detected		Gypsum + paint + other	11/30/2023
Layer	Gray skim coat / off-white paint							
Comments								

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312326
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v	Matrix	Date Analyzed
202386085	**303345-04C**		NONE DETECTED		None detected		Gypsum + paint + other	11/30/2023
Layer	Gray skim coat / off-white paint							
Comments								
202386086	**303345-05A**		NONE DETECTED		None detected		Gypsum + paint + other	11/30/2023
Layer	Gray skim coat / off-white paint							
Comments								
202386087	**303345-05B**		NONE DETECTED		None detected		Gypsum + paint + other	11/30/2023
Layer	Gray skim coat / off-white paint							
Comments								
202386088	**303345-05C**		NONE DETECTED		None detected		Gypsum + paint + other	11/30/2023
Layer	Gray skim coat / off-white paint							
Comments								
202386089	**303345-06A**	**Yes**	Chrysotile	**3**	None detected		Calcite + binder + paint	11/30/2023
Layer	Tan caulk / paint							
Comments								
202386090	**303345-06B**	**Yes**	Chrysotile	**3**	None detected		Calcite + binder + paint	11/30/2023
Layer	Tan caulk / paint							
Comments								
202386091	**303345-06C**	**Yes**	Chrysotile	**2**	None detected		Calcite + binder	11/30/2023
Layer	Tan caulk (limited)							
Comments								
202386091	**303345-06C**		NONE DETECTED		None detected		Calcite + binder + paint	11/30/2023
Layer	White caulk / paint							
Comments								

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312326
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v	Matrix	Date Analyzed
202386092	**303345-06D**	**Yes**	Chrysotile	**3**	None detected		Calcite + binder + paint	11/30/2023
Layer	Tan caulk / paint							
Comments								
202386093	**303345-06E**		NONE DETECTED		None detected		Calcite + quartz + binder	11/30/2023
Layer	Gray caulk							
Comments								
202386094	**303345-07A**	**Yes**	Chrysotile	**2**	None detected		Calcite + vinyl	12/1/2023
Layer	A Light beige vinyl floor tile							
Comments								
202386094	**303345-07A**	**Yes**	Chrysotile	**6**	None detected		Tar + calcite	12/1/2023
Layer	B Black mastic							
Comments								
202386094	**303345-07A**		NONE DETECTED		None detected		Calcite + vinyl	12/1/2023
Layer	C Gray concrete							
Comments								
202386095	**303345-07B**	**Yes**	Chrysotile	**2**	None detected		Calcite + vinyl	12/1/2023
Layer	A Light beige vinyl floor tile							
Comments								
202386095	**303345-07B**	**Yes**	Chrysotile	**6**	None detected		Tar + calcite	12/1/2023
Layer	B Black mastic							
Comments								
202386095	**303345-07B**		NONE DETECTED		None detected		Calcite + vinyl	12/1/2023
Layer	C Gray concrete							
Comments								
202386096	**303345-07C**	**Yes**	Chrysotile	**2**	None detected		Calcite + vinyl	12/1/2023
Layer	A Light beige vinyl floor tile							
Comments								

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312326
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v	Matrix	Date Analyzed
202386096	**303345-07C**	**Yes**	Chrysotile	**6**	None detected		Tar + calcite	12/1/2023
Layer	B Black mastic							
Comments								
202386096	**303345-07C**		NONE DETECTED		None detected		Calcite + vinyl	12/1/2023
Layer	C Gray concrete							
Comments								
202386097	**303345-08A**		NONE DETECTED		Wollastonite (+/- optical sign) + other fibers	**2**	Binder + other	11/30/2023
Layer	Brown mastic							
Comments								
202386097	**303345-08A**		NONE DETECTED		None detected		Calcite + vinyl + paint	11/30/2023
Layer	Brown vinyl baseboard / beige paint							
Comments								
202386098	**303345-08B**		NONE DETECTED		None detected		Binder + other	11/30/2023
Layer	Brown mastic							
Comments								
202386098	**303345-08B**		NONE DETECTED		None detected		Calcite + vinyl + paint	11/30/2023
Layer	Brown vinyl baseboard / beige paint							
Comments								
202386099	**303345-08C**		NONE DETECTED		None detected		Binder + other	11/30/2023
Layer	Brown mastic							
Comments								
202386099	**303345-08C**		NONE DETECTED		None detected		Calcite + vinyl + paint	11/30/2023
Layer	Brown vinyl baseboard / beige paint							
Comments								

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312326
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v	Matrix	Date Analyzed
202386100	**303345-09A**	**Yes**	Chrysotile	**3**	None detected		Calcite + binder + paint	12/1/2023
Layer	Tan caulk / paint							
Comments								
202386101	**303345-09B**	**Yes**	Chrysotile	**3**	None detected		Calcite + binder + paint	12/1/2023
Layer	Tan caulk / paint							
Comments								
202386102	**303345-09C**		NONE DETECTED		None detected		Calcite + binder + paint	12/1/2023
Layer	White caulk / paint							
Comments								
202386103	**303345-09D**	**Yes**	Chrysotile	**2**	None detected		Calcite + binder + paint	12/1/2023
Layer	Tan caulk / paint							
Comments								
202386104	**303345-09E**		NONE DETECTED		None detected		Calcite + binder + paint	12/1/2023
Layer	White caulk / paint (limited)							
Comments								
202386105	**303345-09F**		NONE DETECTED		None detected		Calcite + binder + paint	12/1/2023
Layer	White,gray caulk / paint							
Comments								
202386106	**303345-09G**	**Yes**	Chrysotile	**2**	None detected		Calcite + binder + paint	12/1/2023
Layer	Tan caulk / paint							
Comments								
202386107	**303345-09H**	**Yes**	Chrysotile	**3**	None detected		Calcite + binder + paint	12/1/2023
Layer	Tan caulk / paint							
Comments								

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312326
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v	Matrix	Date Analyzed
202386108	**303345-10A**	**Yes**	Chrysotile	**2**	None detected		Calcite + vinyl	12/1/2023
Layer	A Light beige vinyl floor tile							
Comments								
202386108	**303345-10A**	**Yes**	Chrysotile	**6**	None detected		Tar + calcite	12/1/2023
Layer	B Black mastic							
Comments								
202386108	**303345-10A**		NONE DETECTED		None detected		Calcite + vinyl	12/1/2023
Layer	C Gray concrete							
Comments								
202386109	**303345-10B**	**Yes**	Chrysotile	**2**	None detected		Calcite + vinyl	12/1/2023
Layer	A Light beige vinyl floor tile							
Comments								
202386109	**303345-10B**	**Yes**	Chrysotile	**6**	None detected		Tar + calcite	12/1/2023
Layer	B Black mastic							
Comments								
202386109	**303345-10B**		NONE DETECTED		None detected		Calcite + vinyl	12/1/2023
Layer	C Gray concrete							
Comments								
202386110	**303345-10C**	**Yes**	Chrysotile	**2**	None detected		Calcite + vinyl	12/1/2023
Layer	A Light beige vinyl floor tile							
Comments								
202386110	**303345-10C**	**Yes**	Chrysotile	**6**	None detected		Tar + calcite	12/1/2023
Layer	B Black mastic							
Comments								
202386110	**303345-10C**		NONE DETECTED		None detected		Calcite + vinyl	12/1/2023
Layer	C Gray concrete							
Comments								

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312326
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v	Matrix	Date Analyzed
202386111	**303345-11A**		NONE DETECTED		None detected		Other	11/30/2023
Layer	Clear glue							
Comments								
202386111	**303345-11A**		NONE DETECTED		Cellulose (undulose)	**25**	Other	11/30/2023
Layer	Yellow wallpaper							
Comments								
202386112	**303345-11B**		NONE DETECTED		None detected		Other	11/30/2023
Layer	Clear glue							
Comments								
202386112	**303345-11B**		NONE DETECTED		Cellulose (undulose)	**25**	Other	11/30/2023
Layer	Yellow wallpaper							
Comments								
202386113	**303345-11C**		NONE DETECTED		None detected		Other	11/30/2023
Layer	Clear glue							
Comments								
202386113	**303345-11C**		NONE DETECTED		Cellulose (undulose)	**25**	Other	11/30/2023
Layer	Yellow wallpaper							
Comments								
202386114	**303345-12A**		NONE DETECTED		None detected		Calcite + quartz	12/1/2023
Layer	Dark gray mortar							
Comments								
202386114	**303345-12A**		NONE DETECTED		None detected		Calcite + quartz	12/1/2023
Layer	Light gray grout							
Comments								

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312326
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v	Matrix	Date Analyzed
202386115	**303345-12B**		NONE DETECTED		None detected		Calcite + quartz	12/1/2023
Layer	Dark gray mortar							
Comments								
202386115	**303345-12B**		NONE DETECTED		None detected		Calcite + quartz	12/1/2023
Layer	Light gray grout							
Comments								
202386116	**303345-12C**		NONE DETECTED		None detected		Calcite + quartz	12/1/2023
Layer	Dark gray mortar							
Comments								
202386116	**303345-12C**		NONE DETECTED		None detected		Calcite + quartz	12/1/2023
Layer	Light gray grout							
Comments								
202386117	**303345-13A**		NONE DETECTED		Cellulose (undulose)	**15**	Gypsum	11/30/2023
Layer	White drywall							
Comments								
202386117	**303345-13A**	**Yes**	Chrysotile	**2**	None detected		Calcite + quartz + paint	11/30/2023
Layer	White joint compound (1) / white paint							
Comments								
202386117	**303345-13A**	**Yes**	Chrysotile	**2**	Cellulose (undulose)	**20**	Calcite + quartz	11/30/2023
Layer	White joint compound (2) / paper							
Comments								
202386118	**303345-13B**		NONE DETECTED		Cellulose (undulose)	**15**	Gypsum	11/30/2023
Layer	White drywall							
Comments								

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312326
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v	Matrix	Date Analyzed
202386118	**303345-13B**	**Yes**	Chrysotile	**2**	None detected		Calcite + quartz + paint	11/30/2023
Layer	White joint compound / white paint							
Comments								
202386119	**303345-13C**		NONE DETECTED		Cellulose (undulose)	**15**	Gypsum	11/30/2023
Layer	White drywall							
Comments								
202386119	**303345-13C**	**Yes**	Chrysotile	**2**	None detected		Calcite + quartz + paint	11/30/2023
Layer	White joint compound (limited) / white paint							
Comments								
202386120	**303345-14A**		NONE DETECTED		Wollastonite (+/- optical sign) + other fibers	**5**	Binder + other	11/30/2023
Layer	Brown mastic							
Comments								
202386120	**303345-14A**		NONE DETECTED		None detected		Calcite + vinyl + paint	11/30/2023
Layer	Brown vinyl baseboard / yellow paint							
Comments								
202386121	**303345-14B**		NONE DETECTED		Wollastonite (+/- optical sign) + other fibers	**5**	Binder + other	11/30/2023
Layer	Brown mastic							
Comments								
202386121	**303345-14B**		NONE DETECTED		None detected		Calcite + vinyl + paint	11/30/2023
Layer	Brown vinyl baseboard / yellow paint							
Comments								
202386122	**303345-14C**		NONE DETECTED		Wollastonite (+/- optical sign) + other fibers	**5**	Binder + other	11/30/2023
Layer	Brown mastic							
Comments								

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312326
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v	Matrix	Date Analyzed
202386122	**303345-14C**		NONE DETECTED		None detected		Calcite + vinyl + paint	11/30/2023
Layer	Brown vinyl baseboard / yellow paint							
Comments								
202386123	**303345-15A**	**Yes**	Chrysotile	< **1**	None detected		Calcite + binder + paint	11/30/2023
Layer	Tan caulk / paint (limited)							
Comments								
202386124	**303345-15B**		NONE DETECTED		None detected		Calcite + binder + paint	11/30/2023
Layer	White caulk / paint (limited)							
Comments								
202386125	**303345-15C**	**Yes**	Chrysotile	**3**	None detected		Calcite + binder + paint	11/30/2023
Layer	Tan caulk / paint							
Comments								
202386126	**303345-15D**	**Yes**	Chrysotile	**3**	None detected		Calcite + binder + paint	11/30/2023
Layer	Tan caulk / paint							
Comments								
202386127	**303345-15E**	**Yes**	Chrysotile	**3**	None detected		Calcite + binder + paint	11/30/2023
Layer	Tan caulk / paint							
Comments								
202386128	**303345-15F**	**Yes**	Chrysotile	**3**	None detected		Calcite + binder + paint	11/30/2023
Layer	Tan caulk / paint							
Comments								
202386129	**303345-15G**	**Yes**	Chrysotile	**3**	None detected		Calcite + binder + paint	11/30/2023
Layer	Tan caulk / paint							
Comments								

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312326
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v	Matrix	Date Analyzed
202386130	**303345-16A**		NONE DETECTED		None detected		Calcite + quartz + aggregate	11/30/2023
Layer	Gray plaster							
Comments								
202386130	**303345-16A**	**Yes**	Chrysotile	< **1**	None detected		Paint + calcite	11/30/2023
Layer	White paint / skim coat							
Comments								
202386131	**303345-16B**		NONE DETECTED		None detected		Calcite + quartz + aggregate	11/30/2023
Layer	Gray plaster							
Comments								
202386131	**303345-16B**	**Yes**	Chrysotile	< **1**	None detected		Paint + calcite	11/30/2023
Layer	White paint / skim coat							
Comments								
202386132	**303345-16C**		NONE DETECTED		None detected		Calcite + quartz + aggregate	11/30/2023
Layer	Gray plaster							
Comments								
202386132	**303345-16C**	**Yes**	Chrysotile	< **1**	None detected		Paint + calcite	11/30/2023
Layer	White paint / skim coat							
Comments								
202386133	**303345-17A**		NONE DETECTED		None detected		Calcite + vinyl	12/1/2023
Layer	A Tan vinyl floor tile							
Comments								
202386133	**303345-17A**		NONE DETECTED		None detected		Calcite + binder	12/1/2023
Layer	B Off-white adhesive							
Comments								

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312326
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v	Matrix	Date Analyzed
202386133	**303345-17A**	**Yes**	Chrysotile	**2**	None detected		Calcite + vinyl	12/1/2023
Layer	C White vinyl floor tile							
Comments								
202386133	**303345-17A**	**Yes**	Chrysotile	**< 1**	Wollastonite (+/- optical sign) + other fibers	**3**	Calcite + binder + other	12/1/2023
Layer	D Black mastic							
Comments								
202386134	**303345-17B**		NONE DETECTED		None detected		Calcite + vinyl	12/1/2023
Layer	A Tan vinyl floor tile							
Comments								
202386134	**303345-17B**		NONE DETECTED		None detected		Calcite + binder	12/1/2023
Layer	B Off-white adhesive							
Comments								
202386134	**303345-17B**	**Yes**	Chrysotile	**2**	None detected		Calcite + vinyl	12/1/2023
Layer	C White vinyl floor tile							
Comments								
202386134	**303345-17B**	**Yes**	Chrysotile	**2**	Wollastonite (+/- optical sign) + other fibers	**3**	Tar + calcite + binder + other	12/1/2023
Layer	D Black mastic							
Comments								
202386135	**303345-17C**		NONE DETECTED		None detected		Calcite + vinyl	12/1/2023
Layer	A Tan vinyl floor tile							
Comments								
202386135	**303345-17C**		NONE DETECTED		None detected		Calcite + binder	12/1/2023
Layer	B Off-white adhesive							
Comments								

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312326
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v	Matrix	Date Analyzed
202386135	**303345-17C**	**Yes**	Chrysotile	**2**	None detected		Calcite + vinyl	12/1/2023
Layer	C White vinyl floor tile							
Comments								
202386135	**303345-17C**	**Yes**	Chrysotile	**2**	Wollastonite (+/- optical sign) + other fibers	**3**	Tar + calcite + binder + other	12/1/2023
Layer	D Black mastic							
Comments								
202386136	**303345-18A**		NONE DETECTED		Cellulose (undulose)	**15**	Gypsum	11/30/2023
Layer	White drywall							
Comments								
202386136	**303345-18A**	**Yes**	Chrysotile	**2**	Cellulose (undulose)	**3**	Calcite + quartz + paint	11/30/2023
Layer	White joint compound / white paint							
Comments								
202386137	**303345-18B**		NONE DETECTED		Cellulose (undulose)	**20**	Other	11/30/2023
Layer	Pink wallpaper							
Comments								
202386137	**303345-18B**		NONE DETECTED		Cellulose (undulose)	**15**	Gypsum	11/30/2023
Layer	White drywall							
Comments								
202386138	**303345-18C**		NONE DETECTED		Cellulose (undulose)	**15**	Gypsum	11/30/2023
Layer	White drywall							
Comments								
202386138	**303345-18C**	**Yes**	Chrysotile	**2**	Cellulose (undulose)	**3**	Calcite + quartz + paint	11/30/2023
Layer	White joint compound / white paint							
Comments								

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312326
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v	Matrix	Date Analyzed
202386139	**303345-19A**	**Yes**	Chrysotile	**3**	None detected		Calcite + binder + paint	11/30/2023
Layer	Tan caulk / paint							
Comments								
202386140	**303345-19B**	**Yes**	Chrysotile	**3**	None detected		Calcite + binder + paint	11/30/2023
Layer	Tan caulk / paint							
Comments								
202386141	**303345-19C**	**Yes**	Chrysotile	**3**	None detected		Calcite + binder + paint	11/30/2023
Layer	Tan caulk / paint							
Comments								
202386142	**303345-19D**	**Yes**	Chrysotile	**3**	None detected		Calcite + binder + paint	11/30/2023
Layer	Tan caulk / paint							
Comments								
202386143	**303345-19E**	**Yes**	Chrysotile	**3**	None detected		Calcite + binder + paint	11/30/2023
Layer	Tan caulk / paint							
Comments								
202386144	**303345-19F**	**Yes**	Chrysotile	**3**	None detected		Calcite + binder + paint	11/30/2023
Layer	Tan caulk / paint							
Comments								
202386145	**303345-20A**		NONE DETECTED		Cellulose (undulose)	**15**	Gypsum	11/30/2023
Layer	White drywall							
Comments								
202386145	**303345-20A**	**Yes**	Chrysotile	**2**	None detected		Calcite + quartz + paint	11/30/2023
Layer	White joint compound / white paint							
Comments								

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312326
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v	Matrix	Date Analyzed
202386146	**303345-20B**		NONE DETECTED		Cellulose (undulose)	**20**	Other	11/30/2023
Layer	Blue wallpaper							
Comments								
202386146	**303345-20B**		NONE DETECTED		Cellulose (undulose)	**15**	Gypsum	11/30/2023
Layer	White drywall							
Comments								
202386146	**303345-20B**	**Yes**	Chrysotile	**2**	Cellulose (undulose)	**2**	Calcite + quartz	11/30/2023
Layer	White joint compound							
Comments								
202386147	**303345-20C**		NONE DETECTED		Cellulose (undulose)	**20**	Other	11/30/2023
Layer	Blue wallpaper							
Comments								
202386147	**303345-20C**		NONE DETECTED		Cellulose (undulose)	**15**	Gypsum	11/30/2023
Layer	White drywall							
Comments								
202386147	**303345-20C**	**Yes**	Chrysotile	**2**	Cellulose (undulose)	**2**	Calcite + quartz	11/30/2023
Layer	White joint compound							
Comments								

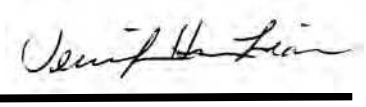
EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312326
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

General Comments
The bulk sample[s] analysis subject of this analytical report were conducted in general accordance with the procedures outlined in the United States Environmental Protection Agency's "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (EPA-600/M4-82-020, Dec. 1982) and / or "Method for Determination of Asbestos in bulk Building Materials" (EPA-600/R-93-116, July 1993). The analysis of each bulk sample relates only to the material examined, and may or may not represent the overall composition of its original source. Floor tile and other resinously bound materials, when analyzed by the EPA methods referenced above may yield false negative results because of limitations in separating closely bound fibers and in detecting fibers of small length and diameter. Alternative methods of identification, including Transmission Electron Microscopy (TEM) may or may not be applicable. We utilize calibrated visual area estimation on a routine basis and do not conduct point counting unless specifically requested to do so. Estimated error for the visual determinations presented are 75% relative (1 to 2%), 50% relative (3 to 5%); 25% relative (6 to 25%) and 20% (>26% v/v). We will not separate layers which in our opinion are not readily discernable. This report is not to be duplicated except in full without the expressed written permission of Hawaii Analytical Laboratory. This report must not be used by the client to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Governement. Unless otherwise indicated, the sample condition at the time of receipt was acceptable.

Results and Symbols Definitions
> This testing result is greater than the numerical value listed.
< This testing result is less than the numerical value listed.
None Detected = asbestos was not observed in the sample. If trace amount of asbestos was detected below our quantifiable limits of 1.0%, <1% (trace) would be indicated and the asbestos type listed. Point counting, where applicable, are recommended to improve accuracy.



Jennifer Hsu Liao
Laboratory Manager

EnviroQuest

202312326

PLM DATA SHEET

PROJECT NAME: Malvnia Hospital

PAGE: 1 of 8

DATE: 11/21/23

LOCATION:

PROJECT NO.: 303345

Material Description: off-white painted door caulking over tan

Friable / Non-friable

Sample No.	Location	
303345-01A	Soil linen room	202386071
-01B	Stairway door	202386072
-01C	Storage room	202386073
-01D	Maintenance room	202386074
-01E	Makai Stairs outter door	202386075
-01F	Makai Stairs inner door	202386076

Sub-basement

CONDITION: % Damaged: 26 % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: Beige Floor tile w/ black grout & gray mortar

Friable / Non-friable

Sample No.	Location	
303345-02A	Soil linen doors, floor, interior, sub-basement	202386077
-02B		202386078
-02C		202386079

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Sampled By: Daniel Lewis

DOH Cert No: Caelan Colescott

Delivered to Lab By: Kristen Kaneshiro

Relinquished By/Date/Time: Savannah Newman

Savannah Newman

Received By/Date/Time: 11-22-23 P12:31 RCVD

Relinquished By/Date/Time:

Received By/Date/Time:

TURNAROUND TIME: ☐ < 12 Hours ☐ 24 Hours ☐ 3 Days ☒ 5 Days ☐ _____

Surfacing	<1,000 ft² = 3 Samples	1,000 – 5,000 ft² = 5 Samples	>5,000 ft² = 7 Samples
TSI	Minimum of 3 Samples UNLESS....	<6 In. or ft² = 1 Sample	Minimum of 2 Samples *(Cement/plaster valves, elbows & 'T')*
Misc. Non-Friable	Minimum of 2 Samples (*AHERA*)	Minimum of 3 Samples (*Hawaii*)	
Misc. Friable	Minimum of 2 Samples		

Surfacing	Sig. Damage = > *10% Dist. or 25% Local*	Damaged = < *10% Dist. or 25% Local*	*Good = Very Limited Damage*
TSI	Sig. Damage = *>10% Missing Jacket OR >10% Dist. or 25% Local*	Damaged = < *10% Missing Jacket OR < 10% Dist. or 25% Local*	Good = *Very Limited Damage*
Misc	Sig. Damage = > *10% Dist. or 25% Local*	Damaged = < *10% Dist. or 25% Local*	*Good = Very Limited Damage*

Samples picked up at EQI office by Hawaii Analytical Laboratory

98-029 HONOMA STREET, SUITE 21 AIEA, HAWAII 96701 PHONE: (808) 486-5881
6-15-17 KAMITSURUMA, MINAMI-KU, SAGAMIHARA-SHI, KANAGAWA-KEN 252-0302 PHONE: (042) 851-5675

EnviroQuest

202312326

PLM DATA SHEET

PROJECT NAME: Malulia Hospital

PAGE: 2 of 8

DATE: 11/21/23

Material Description: Yellow ceramic tile w/ white grout & gray mortar — Friable / Non-friable

Sample No.	Location
303345-03A	Soil linen room, wall, interior, sub-basement
-03B	202386080
-03C	202386081
	202386082

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material	TSI	Misc.
☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H_2O/Gouges -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Gouge/Punct - % Crushed - % H_2O Stains -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: Off-white painted gray skimcoat — Friable / Non-friable

Sample No.	Location
303345-04A	Soil linen room
-04B	Storage
-04C	Maintenance
	Wall, interior, sub-basement
	202386083
	202386084
	202386085

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material	TSI	Misc.
☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H_2O/Gouges -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Gouge/Punct - % Crushed - % H_2O Stains -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: Off-white painted gray skimcoat — Friable / Non-friable

Sample No.	Location
303345-05A	Soil linen room
-05B	Storage
-05C	Maintenance
	Wall, exterior, sub-basement
	202386086
	202386087
	202386088

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material	TSI	Misc.
☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H_2O/Gouges -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Gouge/Punct - % Crushed - % H_2O Stains -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Samples picked up at EQI office by Hawaii Analytical Laboratory

98-029 HEKAKA STREET, SUITE 21 AIEA, HAWAII 96701 PHONE: (808) 486-5881
2-15-17 KAMITSURUMA, MINAMI-KU, SAGAMIHARA-SHI, KANAGAWA-KEN 252-0302 PHONE: (042) 851-5675

EnviroQuest

202312326

PLM DATA SHEET

PROJECT NAME: Malvina Hospital

PAGE: 3 of 8

DATE: 11/21/23

Material Description: painted door caulking tan — Friable / Non-friable

Sample No.	Location	
303345-06A	Makai Stairs #2, outer	202386089
-06B	Makai Stairs #2, inner (pink) > Basement	202386090
-06C	Makai Stairs door (blue)	202386091
-06D	Hall #1 Door (pink)	202386092
-06E	Hall #2 Door (blue)	202386093

CONDITION:	% Damaged:	% Localized:	% Distributed:	Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: light beige VFT w/ black mastic over concrete — Friable / Non-friable

Sample No.	Location	
303345-07A	Makai Stairs, floor, basement	202386094
-07B		202386095
-07C		202386096

CONDITION:	% Damaged:	% Localized:	% Distributed:	Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: beige painted vinyl baseboard w/ brown mastic — Friable / Non-friable

Sample No.	Location	
303345-08A	Hall #2, wall, basement	202386097
-08B		202386098
-08C		202386099

CONDITION:	% Damaged:	% Localized:	% Distributed:	Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Samples picked up at EQI office by Hawaii Analytical Laboratory

98-029 HEKAHA STREET, SUITE 21 AIEA, HAWAII 96701 PHONE: (808) 486-5881
[illegible] MINAMI-KU, SAGAMIHARA-SHI, KANAGAWA-KEN 252-0302 PHONE: (042) 851-5675

202312326

EnviroQuest

PLM DATA SHEET

PROJECT NAME: Makena Hospital

PAGE: 4 of 8

DATE: 11/21/23

Material Description: painted door caulking tan — Friable / Non-friable

Sample No.	Location	
303345-09A	Mauka Stairs #2, outer	202386100
-09B	Mauka Stairs #2, inner	202386101
-09C	~~Central Stairs~~ Mauka stairs	202386102
-09D	Central Stairs	202386103
-09E	Hall #1	202386104
-09F	Makai stairs	202386105
-09G	Makai Stairs #2, inner	202386106

1st floor

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: Painted tan door caulking (cont.) — Friable / Non-friable

Sample No.	Location	
303345-09H	Makai stairs #2, outer — 1st floor	202386107

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: Light beige VFT w/black mastic over concrete — Friable / Non-friable

Sample No.	Location	
303345-10A	Mauka Stairs #2, Floor, 1st Floor	202386108
-10B		202386109
-10C		202386110

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Samples picked up at EQI office
by Hawaii Analytical Laboratory

98-939 HEKAHA STREET, SUITE 21 AIEA, HAWAII 96701 PHONE: (808) 486-5881
6-15-17 KAMITSURUMA, MINAMI-KU, SAGAMIHARA-SHI, KANAGAWA-KEN 252-0302 PHONE: (042) 851-5675

202312326

EnviroQuest

PLM DATA SHEET

PROJECT NAME: Malulani Hospital

PAGE: 5 of 8

DATE: 11/21/23

Material Description: Yellow wallpaper w/ clear glue — Friable / Non-friable

Sample No.	Location	
303345-11A	Wall, Mauka stairs, 1st Floor	202386111
-11B		202386112
-11C		202386113

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: Quarry tile light gray grout w/ dark gray mortar — Friable / Non-friable

Sample No.	Location	
303345-12A	Floor, Central stairs, 1st Floor	202386114
-12B		202386115
-12C		202386116

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: Off-white painted drywall & joint compound — Friable / Non-friable

Sample No.	Location	
303345-13A	Central stairs, wall, 1st Floor	202386117
-13B		202386118
-13C		202386119

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Samples picked up at EQI office by Hawaii Analytical Laboratory

98-029 HEKAHA STREET, SUITE 21 AIEA, HAWAII 96701 PHONE: (808) 486-5881
6-15-17 KAMITSURUMA, MINAMI-KU, SAGAMIHARA-SHI, KANAGAWA-KEN 252-0302 PHONE: (042) 851-5675

EnviroQuest

202312326

PLM DATA SHEET

PROJECT NAME: Waiuhia Hospital

PAGE: 6 of 8

DATE: ~~11/23~~ 11/21/23

Material Description: Yellow painted vinyl baseboard w/brown mastic — Friable / Non-friable

Sample No.	Location	
303345-14A	Hall #1, floor, 1st floor	202386120
-14B		202386121
-14C		202386122

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: Painted tan ~~caulk~~ door caulking — Friable / Non-friable

Sample No.	Location	
303345-15A	DAY room	202386123
-15B	Central stairs	202386124
-15C	Mauka stairs	202386125
-15D	Mauka stairs #2, inner	202386126
-15E	Mauka stairs #2, outer	202386127
-15F	Makai stairs #2, inner	202386128
-15G	Makai stairs #2, outer	202386129

2nd Floor

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: White painted plaster — Friable / Non-friable

Sample No.	Location	
303345-16A	Wall, day room, 2nd floor	202386130
-16B		202386131
-16C		202386132

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Samples picked up at EQI office
by Hawaii Analytical Laboratory

98-029 HEKAHA STREET, SUITE 21 AIEA, HAWAII 96701 PHONE: (808) 486-5881
6-15-17 KAMITSURUMA, MINAMI-KU, SAGAMIHARA-SHI, KANAGAWA-KEN 252-0302 PHONE: (042) 851-5675

202312326

EnviroQuest

PLM DATA SHEET

PROJECT NAME: Makua Hospital

PAGE: 7 of 8

DATE: 303345 11/21/23

Material Description: Vinyl wood plank over VFT w/ black

Friable / Non-friable

Sample No.	Location	
303345-17A	Central stair, floor, 2nd floor	202386133
-17B		202386134
-17C		202386135

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: Pink wallpaper over drywall

Friable / Non-friable

Sample No.	Location	
303345-18A	Wall	202386136
-18B	Wall > Central stair, ~~floor~~, 2nd floor	202386137
-18C	ceiling	202386138

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description: Painted tan door caulking

Friable / Non-friable

Sample No.	Location	
303345-19A	Makai stairs, inner	202386139
-19B	Makai stairs, outer	202386140
-19C	central stairs	202386141
-19D	Mauka stairs #2, inner	202386142
-19E	Mauka stairs #2, outer	202386143
-19F	Mauka stairs	202386144

3rd floor

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Samples picked up at EQI office
by Hawaii Analytical Laboratory

98-029 HEKAHA STREET, SUITE 21 AIEA, HAWAII 96701 PHONE: (808) 486-5881
6-15-17 KAMITSURUMA, MINAMI-KU, SAGAMIHARA-SHI, KANAGAWA-KEN 252-0302 PHONE: (042) 851-5675

EnviroQuest

202312326

PLM DATA SHEET

PROJECT NAME: Maluma Hospital

DATE: 11/21/23

Material Description: blue wallpaper over drywall		Friable / Non-friable
Sample No.	Location	
-20A	Central stair, wall, 3rd floor	202386145
-20B		202386146
-20C		202386147

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description:		Friable / Non-friable
Sample No.	Location	

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Material Description:		Friable / Non-friable
Sample No.	Location	

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

Contact Potential	☐ High	☐ Moderate	☐ Low
Vibration Potential	☐ High	☐ Moderate	☐ Low
Air Erosion	☐ High	☐ Moderate	☐ Low
OVERALL POTENTIAL RATING	☐ Significant Damage	☐ Damage	☐ Minimal Damage

Samples picked up at EQI office
by Hawaii Analytical Laboratory

98-029 HEKAHA STREET, SUITE 21 AIEA, HAWAII 96701 PHONE: (808) 486-5881
KAMI[illegible] MINAMI-KU, SAGAMIHARA-SHI, KANAGAWA-KEN 252-0302 PHONE: (042) 851-5675

EnviroQuest

APPENDIX D

LEAD
LABORATORY ANALYTICAL REPORT

Hawaii Analytical Laboratory
ANALYTICAL REPORT

Friday, December 1, 2023

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312325
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Total Lead (paint chips)

NIOSH Method: 7082m LEAD by FAAS

Sample No.	Your Sample ID / Description	Results	Units	Date Analyzed
202386038	**303345-01P**	0.55	wt %	11/28/2023
Comments				
202386039	**303345-02P**	0.0066	wt %	11/28/2023
Comments				
202386040	**303345-03P**	< 0.004	wt %	11/28/2023
Comments				
202386041	**303345-04P**	< 0.004	wt %	11/28/2023
Comments				
202386044	**303345-07P**	0.15	wt %	11/28/2023
Comments				
202386045	**303345-08P**	< 0.0041	wt %	11/28/2023
Comments				
202386046	**303345-09P**	0.039	wt %	11/28/2023
Comments				
202386047	**303345-10P**	0.014	wt %	11/28/2023
Comments				

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312325
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Total Lead (paint chips)

NIOSH Method: 7082m LEAD by FAAS

Sample No.	Your Sample ID / Description	Results	Units	Date Analyzed
202386048	**303345-11P**	< 0.004	wt %	11/28/2023
Comments				
202386049	**303345-12P**	< 0.004	wt %	11/28/2023
Comments				
202386050	**303345-13P**	< 0.004	wt %	11/28/2023
Comments				
202386051	**303345-14P**	< 0.004	wt %	11/28/2023
Comments				
202386052	**303345-15P**	< 0.004	wt %	11/30/2023
Comments				
202386053	**303345-16P**	< 0.004	wt %	11/30/2023
Comments				
202386054	**303345-17P**	0.0042	wt %	11/30/2023
Comments				
202386055	**303345-18P**	< 0.004	wt %	11/30/2023
Comments				
202386056	**303345-19P**	< 0.004	wt %	11/30/2023
Comments				
202386057	**303345-20P**	0.044	wt %	11/30/2023
Comments				
202386058	**303345-21P**	< 0.004	wt %	11/30/2023
Comments				

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312325
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Total Lead (paint chips)

NIOSH Method: 7082m LEAD by FAAS

Sample No.	Your Sample ID / Description	Results	Units	Date Analyzed
202386059	**303345-22P**	< 0.004	wt %	11/30/2023
Comments				
202386060	**303345-23P**	< 0.004	wt %	11/30/2023
Comments				
202386061	**303345-24P**	< 0.004	wt %	11/30/2023
Comments				
202386062	**303345-25P**	< 0.004	wt %	11/30/2023
Comments				
202386063	**303345-26P**	< 0.004	wt %	11/30/2023
Comments				
202386064	**303345-27P**	< 0.004	wt %	11/30/2023
Comments				
202386065	**303345-28P**	< 0.004	wt %	11/30/2023
Comments				
202386066	**303345-29P**	< 0.004	wt %	11/30/2023
Comments				
202386067	**303345-30P**	< 0.004	wt %	11/30/2023
Comments				
202386068	**303345-31P**	< 0.004	wt %	11/30/2023
Comments				
202386069	**303345-32P**	0.021	wt %	11/30/2023
Comments				

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312325
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

Total Lead (paint chips)

NIOSH Method: 7082m LEAD by FAAS

Sample No.	Your Sample ID / Description	Results	Units	Date Analyzed
202386070	**303345-33P**	< 0.004	wt %	11/30/2023
Comments				

Total Recoverable Lead

EPA Method: 3051m / 7000Bm

Sample No.	Your Sample ID / Description	Results	Units	Date Analyzed
202386042	**303345-05P**	< 0.004	wt %	11/28/2023
Comments				
202386043	**303345-06P**	0.021	wt %	11/28/2023
Comments				

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

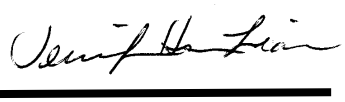
Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312325
Date Submitted: 11/22/2023
Your Project: 303345, Maluhia Hospital, 11/21/23

All Quality Control data are acceptable unless otherwise noted.
MRL for lead air is 5ug.
MRL for lead wipe is 10ug.
MRL for lead paint or soil is 40 mg/kg for a 0.25g sample.

General Comments
The sample[s] analysis subject of this analytical report were conducted in general accordance with the procedures associated with the "analytical method" referenced above. Modifications to this methodology may have been made based upon the analyst's professional judgment and / or sample matrix effects encountered. The analysis of sample relates only to the sample analyzed, and may or may not be representative of the original source of the material submitted for our analysis. All analysts participate in interlaboratory quality control testing to continuously document profiency. This report is not to be duplicated except in full without the expressed written permission of Hawaii Analytical Laboratory. This report should not be construed as an endorsement for a product or a service by the AIHA LAP, LLC or any affiliated organizations. Sample and associated sampling / collection data is reported as provided by client. TWA values have been calculated based on information supplied by the client that the laboratory has not independently verified. Results have not been corrected for blank determinations unless noted in remarks. Unless otherwise indicated the sample condition at the time of receipt was acceptable.

Results and Symbols Definitions
> This testing result is greater than the numerical value listed.
< This testing result is less than the numerical value listed.
# = Analytical methods marked with an "#" are not within our AIHA LAP, LLC Scope of Accreditation.
MRL = Method Reporting Limit.



Jennifer Hsu Liao
Laboratory Manager

EnviroQuest

202312325

Pb SAMPLE FORM

PROJECT NAME: Malulia Hospital

LOCATION:

PAGE: 1 of 5
DATE: 11/21/23
PROJECT NO.: 303345

TURNAROUND TIME		MEDIA		COMMENTS
☐ <12 HRS ☐ 24 HRS	☐ 3 DAYS ☒ OTHER 5 days	☐ BULK ☐ SOIL	☐ WIPE ☒ OTHER Lead	

SAMPLE NO	INT	EXT	FLR	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION
303345 -01P	X		SB	soil linen	Door frame	Metal	Beige	Intact
							202386038	
-02P	X		SB	Soil Linen	door	metal	beige	Intact
							202386039	
-03P		X	SB	soil linen	Door frame	Metal	Blue/ beige	
							202386040	
-04P		X	SB	soil linen	Door	Metal	Blue/ beige	
							202386041	
-05P	X		SB	soil linen	Floor	1"x2" ceramic tile	Beige	
							202386042	
-06P	X		SB	soil linen	wall	4"x4" ceramic tile	yellow	
							202386043	
-07P	X		SB	soil linen	wall	concrete	beige	
							202386044	
-08P	X		SB	Stairwell	Floor	concrete	brown	
							202386045	

SAMPLED BY	RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
Daniel/caelan/ kristen			Savannah Newman Savannah Newman (signature) 11-22-23P12:28 RCVD	

SUBSTRATE: B = BRICK; C = CONCRETE; D = DRYWALL; M = METAL; P = PLASTER; W = WOOD
CONDITION: INTACT; PEELING, CHIPPING, CHALKING, FLAKING, OR DETERIORATED PAINT

Samples picked up at EQI office
by Hawaii Analytical Laboratory

98-029 HEKAHA STREET, SUITE 21 AIEA, HAWAII 96701 PHONE: (808) 486-5881
6-15-17 KAMITSURUMA, MINAMI-KU, SAGAMIHARA-SHI, KANAGAWA-KEN 252-0302 PHONE: (042) 851-5675

EnviroQuest

Pb SAMPLE FORM

PROJECT NAME: Malulani Hospital
LOCATION:

PAGE: 2 of 5
DATE: 11/21/23
PROJECT NO.: 303345

TURNAROUND TIME		MEDIA		COMMENTS
☐ <12 HRS	☐ 3 DAYS	☐ BULK	☐ WIPE	
☐ 24 HRS	☐ OTHER	☐ SOIL	☐ OTHER	

SAMPLE NO	INT	EXT	FLR	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	
303345-09P		X	SB	Soil linen	Wall	Concrete	Beige		202386046
-10P		X	SB	Soil linen	Floor	Concrete	Brown		202386047
-11P	X		B	Door frame	Makai Stairs #2	Metal	Pink		202386048
-12P	X		B	Makai stairs #2	Door	Laminated wood	Pink/Green		202386049
-13P	X		B	Makai Stairs	Door	Laminated wood	Blue/White		202386050
-14P	X		B	Makai Stairs	Door	Laminated wood	Gray		202386051
-15P	X		B	Hall #2	Door	Laminated wood	Blue/Green		202386052
-16P	X		B	Hall #2	Door Frame	Metal	Blue/green		202386053

SAMPLED BY	RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME

SUBSTRATE: B = BRICK; C = CONCRETE; D = DRYWALL; M = METAL; P = PLASTER; W = WOOD
CONDITION: INTACT; PEELING, CHIPPING, CHALKING, FLAKING, OR DETERIORATED PAINT

Samples picked up at EQI office
by Hawaii Analytical Laboratory

98-029 HEKAHA STREET, SUITE 21 AIEA, HAWAII 96701 PHONE: (808) 486-5881
6-15 KAMITSURUMA MINAMI-KU, SAGAMIHARA-SHI, KANAGAWA-KEN 252-0302 PHONE: (042) 851-5675

EnviroQuest

Pb SAMPLE FORM

PROJECT NAME: Maluma Hospital

PAGE: 3 of 5

DATE: 11/21/23

LOCATION:

PROJECT NO.: 303345

TURNAROUND TIME		MEDIA		COMMENTS
☐ <12 HRS ☐ 24 HRS	☐ 3 DAYS ☐ OTHER	☐ BULK ☐ SOIL	☐ WIPE ☐ OTHER	

SAMPLE NO	INT	EXT	FLR	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION
303345 -17P	X		B	Makai Stairs	Floor	concrete	brown/red	
							202386054	
-18P	X		B	Hall #1	Door	wood	pink	
							202386055	
-19P		X	B	Hall #1	Door	wood	blue/green	
							202386056	
-20P	X		B	Hall #1	Wall	CMU	off-white	
							202386057	
-21P	X		1	Mauka stairs #2	Door Frame	Metal	yellow	
							202386058	
-22P		X	1	Mauka stairs #2	Door	Metal	yellow	
							202386059	
-23P	X		1	central stairs	Door	Metal	Blue	
							202386060	
-24P		X	1	central stairs	Door Frame	Metal	Beige	
							202386061	

SAMPLED BY	RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME

SUBSTRATE: B = BRICK; C = CONCRETE; D = DRYWALL; M = METAL; P = PLASTER; W = WOOD
CONDITION: INTACT; PEELING, CHIPPING, CHALKING, FLAKING, OR DETERIORATED PAINT

Samples picked up at EQI office
by Hawaii Analytical Laboratory

98-029 HEKAHA STREET, SUITE 21 AIEA, HAWAII 96701 PHONE: (808) 486-5881
6-15-17 KAMITSUBUMA, MINAMI-KU, SAGAMIHARA-SHI, KANAGAWA-KEN 252-0302 PHONE: (042) 851-5675

202312325

EnviroQuest

Pb SAMPLE FORM

PROJECT NAME: Maluhia Hospital

LOCATION:

PAGE: 4 of 5

DATE: 11/21/23

PROJECT NO.: 303345

TURNAROUND TIME		MEDIA		COMMENTS
☐ <12 HRS ☐ 24 HRS	☐ 3 DAYS ☐ OTHER	☐ BULK ☐ SOIL	☐ WIPE ☐ OTHER	

SAMPLE NO	INT	EXT	FLR	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION
303345-25P		X	1	central stairs	Door	Metal	Beige	
							202386062	
-26P	X		1	Makai stairs	Door	wood	yellow	
							202386063	
-27P	X		2	Day room	Door Frame	Metal	Light Blue	
							202386064	
-28P	X		2	Day room	Door	wood	Light Blue	
							202386065	
-29P	X		3	Makai stairs	Door Frame	Metal	Baby Blue	
							202386066	
-30P	X		3	central stairs	Door	wood	Light blue/ tan	
							202386067	
-31P	X		3	central stairs	Wall	Drywall	Off-white	
							202386068	
-32P	X		SB	Stair well	Door Frame	Metal	Tan	
							202386069	

SAMPLED BY	RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME

SUBSTRATE: B = BRICK; C = CONCRETE; D = DRYWALL; M = METAL; P = PLASTER; W = WOOD
CONDITION: INTACT; PEELING, CHIPPING, CHALKING, FLAKING, OR DETERIORATED PAINT

Samples picked up at EQI office by Hawaii Analytical Laboratory

98-029 HEKAKA STREET, SUITE 21 AIEA, HAWAII 96701 ○ PHONE: (808) 486-5881
6-15-17 KAMITSURUMA, MINAMI-KU, SAGAMIHARA-SHI, KANAGAWA-KEN 252-0302 ○ PHONE: (042) 851-5675

EnviroQuest

202312325

Pb SAMPLE FORM

PROJECT NAME: Malulnia Hospital

LOCATION:

PAGE: 5 of 5

DATE: 11/21/23

PROJECT NO.: 303345

TURNAROUND TIME		MEDIA		COMMENTS
☐ <12 HRS	☐ 3 DAYS	☐ BULK	☐ WIPE	
☐ 24 HRS	☐ OTHER	☐ SOIL	☐ OTHER	

SAMPLE NO	INT	EXT	FLR	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION
303345-33P	X		SB	Stairwell	Door	Metal	Tan	

202386070

SAMPLE NO	INT	EXT	FLR	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION
KK								

SAMPLE NO	INT	EXT	FLR	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION

SAMPLE NO	INT	EXT	FLR	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION

SAMPLE NO	INT	EXT	FLR	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION

SAMPLE NO	INT	EXT	FLR	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION

SAMPLE NO	INT	EXT	FLR	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION

SAMPLE NO	INT	EXT	FLR	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION

SAMPLED BY	RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME

SUBSTRATE: B = BRICK; C = CONCRETE; D = DRYWALL; M = METAL; P = PLASTER; W = WOOD
CONDITION: INTACT; PEELING, CHIPPING, CHALKING, FLAKING, OR DETERIORATED PAINT

Samples picked up at EQI office
by Hawaii Analytical Laboratory

98-029 HEKAHA STREET, SUITE 21 AIEA, HAWAII 96701 PHONE: (808) 486-5881
6-15-17 KAMITSURUMA, MINAMI-KU, SAGAMIHARA-SHI, KANAGAWA-KEN 252-0302 PHONE: (042) 851-5675

EnviroQuest

APPENDIX E

PCBs

LABORATORY ANALYTICAL REPORT

Hawaii Analytical Laboratory
ANALYTICAL REPORT

Friday, December 1, 2023

EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312330
Date Submitted: 11/22/2023
Project Name: 303345, Maluhia Hospital, 11/21/23

PCBs in Bulk (7 Aroclor)

EPA Method: 3550Cm/3665Am/8082A -m [Gas Chromatography - ECD]

Sample No.	Your Sample ID / Description	Results	Units	Date Analyzed
202386159	303345-01PCB			11/28/2023
Comments:	Aroclor 1016	< 0.95	mg/kg	
	Aroclor 1221	< 0.95	mg/kg	
	Aroclor 1232	< 0.95	mg/kg	
	Aroclor 1242	< 0.95	mg/kg	
	Aroclor 1248	< 0.95	mg/kg	
	Aroclor 1254	< 0.95	mg/kg	
	Aroclor 1260	< 0.95	mg/kg	
	The Matrix Spike and Matrix Spike Duplicate recovery was outside our control limits.			
202386160	303345-02PCB			11/28/2023
Comments:	Aroclor 1016	< 0.92	mg/kg	
	Aroclor 1221	< 0.92	mg/kg	
	Aroclor 1232	< 0.92	mg/kg	
	Aroclor 1242	< 0.92	mg/kg	
	Aroclor 1248	< 0.92	mg/kg	
	Aroclor 1254	< 0.92	mg/kg	
	Aroclor 1260	7.5	mg/kg	
	The Matrix Spike and Matrix Spike Duplicate recovery was outside our control limits.			
202386161	303345-03PCB			11/28/2023
Comments:	Aroclor 1016	< 0.88	mg/kg	
	Aroclor 1221	< 0.88	mg/kg	
	Aroclor 1232	< 0.88	mg/kg	
	Aroclor 1242	< 0.88	mg/kg	
	Aroclor 1248	< 0.88	mg/kg	
	Aroclor 1254	< 0.88	mg/kg	
	Aroclor 1260	< 0.88	mg/kg	
	The Matrix Spike and Matrix Spike Duplicate recovery was outside our control limits.			

All Quality Control data are acceptable unless otherwise noted.

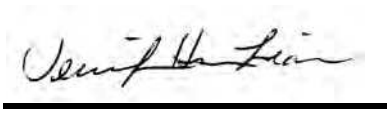
EnviroQuest, Inc.
98-029 Hekaha Street, Suite 21
Aiea HI 96701

Phone Number: (808)486-5881
Facsimile: (808) 486-5889
Email: eqi@enviroquestinc.com

Lab Job No: 202312330
Date Submitted: 11/22/2023
Project Name: 303345, Maluhia Hospital, 11/21/23

General Comments
The sample[s] analysis subject of this analytical report were conducted in general accordance with the procedures associated with the "analytical method" referenced above. Modifications to this methodology may have been made based upon the analyst's professional judgment and / or sample matrix effects encountered. The analysis of sample relates only to the sample analyzed, and may or may not be representative of the original source of the material submitted for our analysis. All analysts participate in interlaboratory quality control testing to continuously document profiency. This report is not to be duplicated except in full without the expressed written permission of Hawaii Analytical Laboratory. This report should not be construed as an endorsement for a product or a service by the AIHA LAP, LLC or any affiliated organizations. Sample and associated sampling / collection data is reported as provided by client. TWA values have been calculated based on information supplied by the client that the laboratory has not independently verified. Results have not been corrected for blank determinations unless noted in remarks. Unless otherwise indicated the sample condition at the time of receipt was acceptable.

Results and Symbols Definitions
> This testing result is greater than the numerical value listed.
< This testing result is less than the numerical value listed.
# = Analytical methods marked with an "#" are not within our AIHA LAP, LLC Scope of Accreditation.
MRL = Method Reporting Limit.



Jennifer Hsu Liao
Laboratory Manager

EnviroQuest

202312330

MISCELLANEOUS BULK DATA SHEET

Project Name: Maluhia Hospital

Location:

Page: 1 of 1
Date: 11/21/23
Project No.: 303345

Turnaround Time: ☐<12 Hrs ☐24 Hrs ☐48 Hrs ☐3 Days ☒5 Days ☐Other:

Analysis:
☐TCLP Lead
☐TCLP RCRA 8
☐Total Lead
☐Micro ID (spore)
☒ PCB Analysis
☐

Sampling Media:
☒Bulk ☐Tape ☐Wipe
☐Soil ☐Vacuum ☐
☐Swab ☐Water ☐

	Sample #	Building	Int/ Ext	Flr.	Room	Component	Substrate	Color	% of Waste Stream	Area / Vol	Result
1	303345-01PCB	SB, B, 1st, 2nd, & 3rd Floor				composite door frame caulking				202386159	
2	-02PCB	SB, B, 1st, 2nd, & 3rd Floor				composite black mastic under VFT				202386160	
3	-03PCB	SB, B, 1st, 2nd, & 3rd Floor				Composite brown mastic under baseboard				202386161	
4	FK										
5											
6											
7											

Sampled By: Daniel / Kristen	Relinquished By/Date/Time: Savannah Newman	Relinquished By/Date/Time	Analyzed By
Delivered to Lab By:	Received By/Date/Time: 11-22-23P12:24 RCVD	Received By/Date/Time	Date Analyzed

SEND ALL CORRESPONDENCE TO: ☐FAX: 808.486.5889 ☐E-mail: eqi@enviroquestinc.com

Samples picked up at EQI office

98-029 Hekaha Street, Suite 21, Aiea, HI 96701 Phone: (808) 486-5881 Fax: (808) 486-5889 E-mail: eqi@enviroquestinc.com

DIVISION 2 - SITE WORK

SECTION 02055 - SELECTIVE DEMOLITION AND REMOVAL

PART I - GENERAL

1.01 GENERAL REQUIREMENTS: Furnish all labor, materials, tools and equipment necessary to complete all removal work and surface preparation work as specified herein.

1.02 SPECIAL REQUIREMENTS:

A. The Contractor shall visit the site, examine the areas and note all existing conditions and extent of work involved for the complete removal and surface preparation work required.

B. The Contractor shall comply with pollution control regulations and safety code. See POLLUTION CONTROL Section 01577 also.

C. The project has been tested for hazardous materials including asbestos containing materials and lead-based paints. The report, Limited Inspection Report for Asbestos and Lead-Based Paint, prepared by EnviroQuest, Inc. is attached as part of these specifications. See Section 01715 – EXISTING CONDITIONS – ASBESTOS / LEAD / HAZARDOUS MATERIALS SURVEY.

PART 2 - PRODUCTS

2.01 MATERIALS:

A. Damaged surfaces or items shall be patched by the Contractor with materials which are equal or better in quality.

PART 3 - EXECUTION

3.01 GENERAL

A. All work shall be executed in an orderly and careful manner with due consideration for the remaining parts of the building.

3.02 REMOVAL WORK

A. Remove existing tile flooring including setting bed down to and including existing waterproofing on structural deck, etc., as indicated on the drawings and/or specified herein.

B. All dismantled materials having no salvage value as determined by the Architect or HHSC Representative shall become the property of the Contractor and shall be completely removed and hauled away from the premises. Contractor shall recycle all materials to be disposed off to the greatest extent possible.

3.03 SURFACE PREPARATION WORK

A. All surfaces to receive manufactured finishes shall be inspected by the manufacturer's representative as approved for installation of new materials. Should the manufacturer's representative find discrepancies in the preparation work, all such discrepancies shall be corrected at no additional cost to the project.

B. Contractor shall repair any damages occurring during the progress of the work.

3.04 PATCHWORK: All areas or surfaces damaged as a result of removal work shall be patched to match existing adjacent surfaces and/or areas to the satisfaction of the Architect.

3.05 TEMPORARY BARRICADES

A. The Contractor shall provide, erect and maintain safety barricades around the project areas during the execution of work under this contract including work done by other sections. At the discretion and approval of the Architect and/or HHSC Representative, alternative means to provide safety around the project area are acceptable.

B. Barricades shall be constructed from durable materials to provide necessary protection and security of the project area.

C. The barricades shall remain until final acceptance of the project or until the hazardous condition no longer remains and approval is given by the Architect and/or HHSC Representative for their removal.

3.06 CLEAN-UP

A. From time to time, as directed by the Architect and/or HHSC Represenative, and at the completion of the removal work, remove from the site all rubbish, debris, fines, etc., accumulated from this work and leave the area neat and clean to the satisfaction of the Architect and/or HHSC Representative.

B. After the completion of the repair work and before the final acceptance of the project, the Contractor shall clean all areas of all rubbish, debris, fines, etc.

END OF SECTION

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

SECTION 07900 – SEALANTS

PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS: Furnish all labor, materials, tools and equipment necessary to complete all removal work and surface preparation work as specified herein.

1.02 GENERAL PROVISIONS

Except as otherwise indicated, sealants shall be provided to establish and maintain airtight, and weatherproof continuous seals on a permanent basis within recognized limitations of wear and aging for each application and type of sealant material. Provide at all joint locations where weather penetration is possible, where a weather-tight installation is required, and where indicated or required to finish the installation of two or more adjoining materials.

1.03 SUBMITTALS

A. Certificates of Compliance: Submit certificates from the manufacturers attesting that materials meet the specified requirements.

B. Manufacturers' Descriptive Data: Submit complete descriptive data for each type of material. Clearly mark data to indicate the type the Contractor intends to provide. Data shall state conformance to specified requirements. Data for sealant and calking shall include application instructions, shelf life, mixing instructions for multicomponent sealants, and recommended cleaning solvents.

C. Colors: Submit one sample of each color for each sealant and caulking type to verify that products match the adjacent finish colors. Where colors are not indicated, submit not less than 6 different samples of manufacturers' standard colors for selection.

1.04 DELIVERY AND STORAGE

Deliver materials to the job site in the manufacturers' external shipping containers, unopened, with brand names, date of manufacture, color, and material designation clearly marked thereon. Containers of elastomeric sealant shall be labeled as to type, class, grade, and use. Carefully handle and store all materials to prevent inclusion of foreign materials.

1.05 WARRANTY

The Contractor shall execute to the HHSC a 2-year written warranty after the Project Acceptance Date that the installation will be watertight and that any leaks which develop during that period which are not due to improper use or willful damage will be repaired at no cost to the HHSC. The guaranty shall provide the following at no cost to the HHSC:

a. Repair of sealants as necessary to seal leaks which are attributable to faulty materials and/or workmanship.

b. Repair or replacement of damage to the building and/or its finishes, equipment and/or furniture when occasioned by such leaks.

PART 2 – PRODUCTS

2.01 MATERIALS

Products shall conform to the reference documents listed for each use. Color of sealant and calking shall match adjacent surface color unless specified otherwise. For ASTM C 920 sealants, use a sealant that has been tested on the type(s) of substrate to which it will be applied.

A. Interior Sealants: ASTM C 920, Type S or M, Grade NS, Class 12.5, Use NT. For use to seal general building construction joints, windows, doors, etc.

B. Exterior Sealants: For joints in vertical surfaces, provide ASTM C 290, Type S or M, Grade NS, Class 25, Use NT. For joints in horizontal surfaces, provide ASTM C 920, Type S or M, Grade P, Class 25, Use T. For use to seal general building construction joints, windows, doors, etc.

C. Floor Joint Sealant: ASTM C 920, Type S or M, Grade P, Class 25, Use T. Color of sealant shall be as selected.

D. Sanitary Sealant: ASTM C920, Type S, Grade NS, Class 25, Use NT, G and A. For use around plumbing fixtures and areas of high moisture. Single component acetoxy silicone sealant.

E. Primer for Sealants: Provide non-staining, quick-drying type and consistency recommended by the sealant manufacturer for the particular application.

F. Bond Breakers: Provide type and consistency recommended by the sealant manufacturer for the particular application.

G. Backstops: Provide glass fiber roving or neoprene, butyl, polyurethane, or polyethylene foams free from oil or other staining elements as recommended by the sealant manufacturer. Backstop material shall be compatible with the sealant. Do not use oakum and other types of absorptive materials as backstops.

H. Cleaning Solvents: Provide types recommended by the sealant manufacturer.

PART 3 – EXECUTION

3.01 SURFACE PREPARATION

Surfaces shall be clean, dry to the touch, and free from moisture, grease, oil, wax, lacquer, paint, or other foreign matter that would tend to destroy or impair adhesion. Where adequate grooves have not been provided, clean out grooves to a depth of ½ inch without damage to the adjoining work. No grinding shall be required on metal surfaces.

3.02 SEALANT PREPARATION

Do not modify the sealant by addition of liquids, solvents, or powders. Mix multicomponent elastomeric sealants in accordance with manufacturer's printed instructions.

3.03 APPLICATION

A. Elastomeric Sealant Installation Standard: Comply with the requirements of ASTM C 962 for the use of joint sealants as applicable to the materials, applications, and conditions required.

B. Backstops: Install backstops dry and free from tears or holes. Tightly pack the back or bottom of joint cavities with backstop materials to provide a joint of the depth as recommended by the sealant manufacturer.

C. Primer: Immediately prior to application of the sealant, clean out all loose particles from joints. Where recommended by sealant manufacturer, apply primer to joints in concrete masonry units, wood, and other porous surfaces in accordance with compound manufacturer's instructions. Do not apply primer to exposed finish surfaces.

D. Bond Breaker: Provide bond breakers to the back or bottom of joint cavities, as recommended by the sealant manufacturer for each type of joint and sealant used to prevent sealant from adhering to these surfaces. Carefully apply the bond breaker to avoid contamination of adjoining surfaces or breaking bond with surfaces other than those covered by the bond breaker.

E. Sealants: Provide sealant compatible with the material to which it is applied. Do not use a compound that has exceeded it shelf life or has become too jelled to be discharged in a continuous flow from the gun. Apply the compound in accordance with the manufacturer's instructions with a gun having a nozzle that fits the joint width. Force sealant into joints to fill the joints solidly without pockets. Sealants shall be uniformly smooth and free from wrinkles. Upon completion of sealant application, roughen partially filled or unfilled joints, apply sealant, and tool smooth as specified.

3.04 PROTECTION AND CLEANING

A. Protection: Protect areas adjacent to joints from compound smears. Masking tape may be used for this purpose if removed 5 to 10 minutes after the joint is filled.

B. Cleaning: Immediately scrape off fresh compound that has been smeared on masonry and rub clean with a solvent as recommended by the compound manufacturer. Upon completion of compound application, remove all remaining smears and stains resulting therefrom and leave the work in a clean and neat condition.

END OF SECTION

DIVISION 8 - DOORS AND WINDOWS

SECTION 08100 - METAL DOORS AND FRAMES

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

As specified in Section 01010.

1.02 DESCRIPTION OF WORK

A. Work of this section includes the following:

1. Metal door and door frames.

2. UL labeled fire rated metal doors and door frames where required.

B. Related work in other sections includes the following:

1. Section 08710 - Finish Hardware.

2. Section 09901 - Painting.

1.03 QUALITY ASSURANCE

A. Standards: Comply with the Steel Door Institute "Recommended Specifications for Standard Steel Doors and Frames" (SDI-100).

B. Labeled Door Certification: Fire-rated doors must have Underwriters' Laboratories (UL) labels affixed to the assembly. Provide fire-rated doors where indicated on the door schedule.

1.04 SUBMITTALS

A. Shop Drawings: Submit shop drawings to the University for approval, and receive approval before starting of fabrication. Shop drawings shall include thickness of metal, details of fabrication, profiles of frames and moldings, connections to other work, fastenings, anchors and SDI erection details.

1.05 PRODUCT HANDLING

Store doors and frames at the site in an upright position on wood sills or on floors in a manner which will prevent rust and injury.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Hollow Metal Doors and Metal Frames: First quality cold rolled or hot rolled pickled galvanized steel of the following minimum thickness, U.S. Standard Gauge:

1. Metal Frames: 16 gauge for application, UL labeled for fire-rated assemblies.

2. Flush Doors: Extra Heavy Duty Type III, 16 gauge, UL labeled for fire-rated assemblies.

2.02 FABRICATION

A. General Requirements: All hollow metal shapes formed, rolled and formed, or cold drawn, with contours and arises as true and sharp as can be produced in the thickness of metal required.

1. Finish work strong and rigid, neat in appearance, and free from objectionable defects. Plain surfaces - smooth and free from warp or buckle. Molded members - clean cut, straight and true. Miters - well formed and in true alignment. Fastenings - concealed where applicable. Reinforce at corners as required to prevent sagging.

2. Locate cut outs accurately and make to fit the hardware.

B. Hollow Metal Doors: No crimped surfaces or exposed joints in doors will be permitted.

C. Hollow Metal Frames: Combination stop and frame channel section, rabbet for doors, unless otherwise indicated. Furnish with integral sidelight frames as shown on schedule.

1. Weld construction joints of frames full depth and width of equivalent splice plates on unexposed faces of frames, or weld miters of frames. Smooth exposed surfaces of welded joints. Fit butted or mitered joints within 1/64" on the face of trim; other joints within 1/32". Weld where practicable, in preference to the use of rivets, screws, or bolts.

2. Supply the proper fastenings and/or anchors to secure frames in each type of structural framing encountered. Install minimum one each floor anchor (each jamb) and minimum three jamb anchors.

3. Supply each frame with at least 2 rubber door silencers.

4. Ship frames separately with removable spreaders, nested in pairs and bound tightly together, or knocked down (unassembled for interior frames only).

D. Finish: Zinc coat, bonderize, and prime coat all metal doors and frames at the factory. Primer shall conform to the requirements prohibiting hazardous materials as specified in Section 09901 - Painting.

C. Vision Panels: Provide full surround galvanized welded steel vision panel frames with 1/4" thick clear safety glass set in continuous neoprene glazing gasket. Glazing shall be ASTM C 1048, Kind FT (fully tempered) and shall also conform to the requirements of ANSI Z97.1 to qualify as a safety glazing material.

D. Door Louvers: Provide sightproof stationary louvers where required, constructed of inverted V-shaped or Y-shaped blades formed of 24 gauge galvanized cold-rolled steel set into 20 gauge galvanized steel frame.

2.03 HARDWARE

A. Drill and tap for locks, strikes, hinges, and concealed hardware at the factory. Drill and tap for other hardware at the job, where its exact location can be established during installation.

1. Provide reinforcing plates in doors and frames for locks, strikes, door closers, flush bolts, and hinges, except for hinges welded to frames. Offset reinforcement so surfaces of hardware will finish flush with surfaces of doors and frames. Fasten hinges to reinforcement with flat head machine screws or to the back surface of metal bucks by spot or projection welding. Conceal reinforcing, extending it past hardware enough to develop the strength of the frames, weld in place, and tap for hardware fastenings as specified above.

2. Strikes will be furnished by the hardware manufacturer.

3. Where locations of hardware are not indicated on the drawings, the following requirements apply:

a. Door levers: Center 37-1/2" above the floor.

PART 3 - EXECUTION

3.01 INSPECTION

Examine areas and conditions under which this work will be installed. Arrange to correct conditions detrimental to timely and proper completion of the work. Do not proceed until unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. Position and anchor hollow metal frames in compliance with SDI-105 "Recommended Erection Instructions for Steel Frames", and as indicated on approved shop drawings.

B. Door Installation: Fit hollow metal doors accurately in frames, within clearances specified in SDI-100.

3.03 ADJUST AND CLEAN

A. Prime Coat Touch-Up: Immediately after erection, sand smooth any rusted or damaged areas of prime coat and apply touch-up of compatible air-drying primer.

B. Final Adjustments: Check and readjust operating finish hardware items, leaving steel doors and frames undamaged and in complete and proper operating condition.

END OF SECTION

SECTION 08710 - FINISH HARDWARE

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

As specified in Section 01010.

1.02 DESCRIPTION OF WORK

A. Provide all labor, materials, equipment, tools, etc. for installation of finish hardware as indicated on the drawings and/or specified herein.

1.03 GENERAL PROVISIONS

A. Furnish and deliver to the building site, all finish hardware required for all doors, etc., complete as indicated on the drawings and as specified herein.

B. It is the intent of these specifications to cover in general the class and character of all finish hardware required.

C. The hardware list specified hereinafter has been made for the convenience of the Contractor and covers in general the necessary hardware for doors, casework, etc., but all other doors, etc., shown on the plan and not covered by the general characterization shall be fitted with appropriate hardware of the same standards as the hardware described throughout these specifications. Contractor shall furnish hardware schedule as hereinafter specified.

D. Suppliers proposing substitutes of equivalent products of other than manufacturers named hereinafter shall submit schedules listing products and manufacture specified and product and manufacturer of proposed substitute.

E. The existing facility master key system that this project will be keyed to is Sargent. This project shall be keyed to the existing master system. Products which are not locally stocked or which must be special ordered are not acceptable.

1.04 SUBMITTALS

A. Schedule: Furnish six (6) copies of the schedule of hardware in compliance with specifications and drawings. List each opening and hardware to be applied. State keying, material, finish and manufacturer's number for each item. Required types are listed.

B. Manufacturer's Data: Submit manufacturer's descriptive literature along with schedule for information only.

1.05 DELIVERY

A. Examine the plans, specifications, and details in order to check all items so they will be suitable and of perfect fit and delivered where and when required.

B. All Hardware shall be delivered at the site, packed separately with all trimmings, screws, etc., for the particular door, all properly labeled and numbered so that they can be checked with the hardware list which shall be furnished with the goods when delivered.

C. Upon delivery of the finishing hardware to the job site by the hardware supplier, the General Contractor shall have a responsible person check in the material at the place for storage. The hardware shall be protected from damage at all times, both prior to and after installation.

1.06 REPRESENTATIVE

Provide services of a competent hardware specialist who is familiar with installation and operation of all finishing hardware items furnished.

PART 2 - PRODUCTS

2.01 MATERIALS

Asbestos Prohibition: No asbestos containing materials or equipment shall be used under this section. The Contractor shall ensure that all materials and equipment incorporated in the project are asbestos-free.

2.02 GENERAL CHARACTER

A. All hardware shall be of the best quality in construction, design and finish, and free from any defects. Any defective pieces shall be replaced by the Contractor at his own expense.

B. Hardware shall be of the manufacture, type, weight, function and quality as shown by factory numbers on the hardware schedule. The products of other manufacturers are acceptable provided they meet or exceed the quality and finish of the products specified herein.

C. Locksets: Mortise locksets shall be the product of a single manufacturer. Cylinders shall be removable and keyed to the school's existing master system. All locks shall be classified as Grade I, "Heavy Duty" with six-pin tumblers.

D. Hinges: Continuous as specified.

E. Finish: Except as otherwise indicated, finish of hardware shall be 626.

F. ADA Compliance: All hardware for doors indicated on the drawings shall conform to the requirements of the 2010 ADA Standards, paragraph 404.2.7 and 309.4.

2.03 KEYING

Locks shall have four (4) keys each. Locks for the same rooms shall be keyed alike. All locks shall be master keyed to the existing facility's keying system. During period of construction, all locks shall be operated by a special master key. Regular day and master keys are to be retained by the Contractor so they cannot be obtained or duplicated by unauthorized persons. All keys shall be stamped "DO NOT DUPLICATE" at the point of manufacture. The special construction master key shall become inoperative when regular keys are turned over to the Contracting Officer. Proper certification of factory assembly of all locks and cylinders as well as factory master keying shall be furnished by the Contractor prior to final acceptance of this portion of the work. Certificate shall then be given to the Contracting Officer. Provide ten (10) construction master keys, six (6) grand master keys, and six (6) master keys per set.

2.04 FASTENINGS

A. Furnish necessary screws, bolts, and other fastenings for proper application of hardware. Fastenings shall be of suitable size and type of securing hardware for heavy use. Fastenings must harmonize with the hardware as to material and finish .

B. Furnish necessary expansion shields, toggle bolts, machine or wood screws or other suitable approved anchoring devices where hardware is to be installed on concrete, masonry or other type of backing.

2.05 TEMPLATES

Templates as may be required to be furnished the Contractor within seven days after receipt of an order and approved hardware schedule.

2.06 TOOLS AND INSTRUCTIONS

All tools and maintenance or installation instruction packed with the closers and locksets shall be given to the State of Hawaii when the project is complete.

PART 3 - EXECUTION

3.01 PRE-INSTALLATION MEETING

Prior to the start of installation of the finish hardware, the Contractor, hardware installer, hardware supplier and/or manufacturer's representative, and the Architect, shall have a pre-installation meeting to review the hardware installation instructions and installation conditions.

3.02 HARDWARE SUPPLIER'S INSPECTION

Before final inspection of the work under this contract and acceptance of the project by the facility, the supplier of hardware and other items specified in this Section shall visit the site and carefully inspect all parts for conformance to this specification, adequacy for intended use, proper functioning, appearance, finish

and successful operation, assuming joint responsibility with the General Contractor.

3.03 KEYING OPERATION AND ORIENTATION

The General Contractor and/or hardware supplier shall together with the Arcitect and/or representative(s) from the facility, conduct an orientation of the operation of all hardware and locks

3.04 HARDWARE SCHEDULE

Furnish the following hardware groups in the amounts indicated on the drawings or required for a complete and proper installation.

Abbreviations:

PEM Pemko Manufacturing Co.
ROC Rockwood Manufacturring Co.
SAR Sargent Manufacturing Co.
SIM Dormakaba USA Inc.

HARDWARE SCHEDULE

HW-001
(D/B1, D/F1, D/F6, D/F7. D/F9, D/S1, D/S6, D/SB1, D/T1, D/T5)

1 EA.	CONT. HINGE	CFM83HD1	PEM
1 EA.	RIM EXIT DEVICE	12-8815 ETL US32D	SAR
1 EA	CLOSER	1431 O EN	SAR
1 EA.	WALL STOP	406 626	ROC
1 EA.	THRESHOLD	171A	PEM
1 EA	DOOR SEAL	PK55D LAR	PEM

HW-002
(D/B2, D/F2, D/F8, D/F10, D/S2, D/S4, D/S5, D/S7, D/SB2, D/T2, D/T3, D/T4, D/T6)

1 EA.	CONT. HINGE	CFM83HD1	PEM
1 EA.	RIM EXIT DEVICE	12-8813 ETL US32D	SAR
1 EA.	CYLINDER	(Key to Facility's Master)	
1 EA.	CLOSER	1431 UO EN	SAR
1 EA	WALL OR FLR STOP	406/441H 626 (AS REQUIRED)	ROC
1 EA.	THRESHOLD	171A	PEM
1 EA	DOOR SEAL	PK55D LAR	PEM

HW-003
(D/B3, D/B4, D/F3, D/SB6)

1 EA.	CONT. HINGE	CFM83HD1	PEM
1 EA.	RIM EXIT DEVICE	12-8813 ETL US32D	SAR
1 EA.	CYLINDER	(Key to Facility's Master)	
1 EA.	CLOSER	351 UO EN	SAR
1 EA.	WALL OR FLR STOP	406/441H 626 (AS REQUIRED)	ROC
1 EA.	THRESHOLD	171A	PEM
1 EA	DOOR SEAL	PK55D LAR	PEM

HW-004
(D/SB7)

2 EA	CONT. HINGE	CFM83HD1	PEM
2 EA	FLUSH BOLT	555 626	ROC
1 EA	DP STRIKE	570 626	ROC
1 EA	LOCKSET	8225 LNL US32D WBS	SAR
1 EA	CYLINDER	(Key to Facility's Master)	
1 EA	COORDINATOR	1700 628	ROC
2 EA	O.H. HOLDER	690 H 26D (SIZE AS REQUIRED)	SAR
2 EA	KICKPLATE	K1050 10" X 2" ldw 630 B4E CSK (AS REQ'D)	ROC
1 EA	THRESHOLD	171A	PEM
2 EA	SPLIT ASTRAGAL	29310CS	PEM
2 EA	DR BOTTOM	345APK	PEM
1 EA	RAIN DRIP	346C	PEM

HW-005
(D/B5)

2 EA	CONT. HINGE	CFM83HD1	PEM
2 EA	FLUSH BOLT	555 626	ROC
1 EA	DP STRIKE	570 626	ROC
1 EA	LOCKSET	8205 LNL US32D WBS	SAR
1 EA	CYLINDER	(Key to Facility's Master)	
1 EA	COORDINATOR	1700 628	ROC
2 EA	KICKPLATE	K1050 10" X 2" ldw 630 B4E CSK (AS REQ'D)	ROC
1 EA	THRESHOLD	171A	PEM
1 EA	DOOR SEAL	PK55D LAR	PEM
2 EA	SPLIT ASTRAGAL	29310CS	PEM

HW-006
(D/B6)

2 EA.	CONT. HINGE	CFM83HD1	PEM
2 EA.	CONCEAL EXIT DV	12-MD8613 ETL US32D	SAR
2 EA.	CYLINDER	(Key to Facility's Master)	
2 EA.	CLOSER	351 UO EN	SAR
2 EA.	KICKPLATE	K1050 10"X2" LDW 630 B4E CSK	ROC
1 EA.	THRESHOLD	171A	PEM
1 EA	DOOR SEAL	PK55D LAR	PEM
2 EA.	SPLIT ASTRAGAL	2931 OCS	PEM
2 EA.	DOOR BOTTOM	315CN	PEM
		VERIFY THRESHOLD CONDITON	

HW-007
(D/F4)

1 EA.	CONT. HINGE	CFM83HD1	PEM
1 EA.	RIM EXIT DEVICE	12-8813 ETL US32D	SAR
1 EA.	CYLINDER	(Key to Facility's Master)	
1 EA.	CLOSER	351 P9 EN	SAR
1 EA	WALL STOP	406 626	ROC
1 EA.	THRESHOLD	171A	PEM
1 EA	DOOR SEAL	PK55D LAR	PEM
1 EA.	DOOR BOTTOM	210AV	PEM
1 EA.	RAIN DRIP	346C	PEM

HW-008
(D/F5)

1 EA.	CONT. HINGE	CFM83HD1	PEM
1 EA.	PUSHBUTT LOCK	5010XS-WL-26D-41 (EXT TRIM)	SIM
1 EA.	RIM EXIT DEVICE	12-8888 ETL US32D (VERIFY FUNCTION)	SAR
1 EA.	CYLINDER	(Key to Facility's Master)	
1 EA.	CLOSER	351 P9 EN	SAR
1 EA	WALL STOP	406 626	ROC
1 EA.	THRESHOLD	171A	PEM
1 EA	DOOR SEAL	PK55D LAR	PEM
1 EA.	DOOR BOTTOM	210AV	PEM

HW-009
(D/F8)

1 EA.	CONT. HINGE	CFM83HD1	PEM
1 EA.	RIM EXIT DEVICE	12-8813 ETL US32D	SAR
1 EA.	CYLINDER	(Key to Facility's Master)	
1 EA.	CLOSER	1431 UO EN	SAR
1 EA	WALL STOP	406 626	ROC
1 EA.	THRESHOLD	171A	PEM
1 EA	DOOR SEAL	PK55D LAR	PEM
1 EA.	DOOR BOTTOM	211AV	PEM

HW-010
(D/S3)

1 EA.	CONT. HINGE	CFM83HD1	PEM
1 EA.	LOCKSET	8204 LNL US32D WBS	SAR
1 EA.	CYLINDER	(Key to Facility's Master)	
1 EA.	CLOSER	351 P9 EN	SAR
1 EA	WALL STOP	406 626	ROC
1 EA.	THRESHOLD	171A	PEM
1 EA	DOOR SEAL	PK55D LAR	PEM
1 EA.	DOOR BOTTOM	210AV	PEM
1 EA.	RAIN DRIP	346C	PEM

HW-011
(D/SB3, D/SB4, D/SB5)

2 EA	CONT. HINGE	CFM83HD1	PEM
2 EA	FLUSH BOLT	555 626	ROC
1 EA	DP STRIKE	570 626	ROC
1 EA	LOCKSET	8225 LNL US32D WBS	SAR
1 EA	CYLINDER	(Key to Facility's Master)	
1 EA	COORDINATOR	1700 628	ROC
2 EA	CLOSER	351 CPS EN	PEM
2 EA	KICKPLATE	K1050 10" X 2" ldw 630 B4E CSK (AS REQ'D)	ROC
1 EA	THRESHOLD	171A	PEM
1 EA	DOOR SEAL	PK55D LAR	PEM
2 EA	SPLIT ASTRAGAL	29310CS	PEM
2 EA	DOOR BOTTOM	210AV	PEM
1 EA	RAIN DRIP	346C	PEM

END OF SECTION

DIVISON 9 - FINISHES

SECTION 09901 - PAINTING

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS: Furnish all labor, materials, tools and equipment necessary to complete all surface preparation and painting work as specified herein.

1.02 GENERAL PROVISIONS

A. Airless Spraying: Airless spray painting shall not be permitted on this project. All application shall be by brush or roller.

B. Application: The Contractor shall strictly conform with all Manufacturer's written instructions and recommendations for all material application.

C. Right of Rejection: The HHSC Representative shall have the right to reject all work which is not in compliance with the plans and specifications. Rejected work shall be redone at no cost to the Hospital.

D. All materials shall have low or no volatile organic compounds (VOC). The HHSC Representative reserves the right to stop all and any application work and the use of materials emitting offensive odors.

1.03 SUBMITTALS

Submit in accordance with SECTION 01300 – SUBMITTALS.

A. Schedule of Finishes

1. 4 sets of proposed painting finish schedule shall be submitted to the HHSC for approval. The schedule shall indicate the wet film thickness (mils) at which the proposed paints/coatings will be applied that are necessary to achieve the final dry film thickness indicated on the Schedule of Finishes under Section 2.02.

2. Schedule of finishes shall indicate which products are intended for airless spray application, if any.

B. Color Samples

1. 3 sets, 8.5” x 11”, of each color finish sample shall be submitted to the HHSC for approval.

2. After the color finish sample has been approved, one set of color finish samples painted onto 8-1/2" x 11" cardboard shall be submitted to the HHSC Representative. The cardboard shall be divided into 4 horizontal strips and painted as follows:

a. Prime 3 strips starting from the bottom.

b. 1st coat bottom 2 strips.

c. 2nd coat bottom strip.

C. Schedule of Operations: Before work on the project is commenced, 6 complete sets of a work schedule showing his sequence of operations and dates shall be submitted by the Contractor to the HHSC Representative.

D. Guaranty: 3 copies of a written guarantee shall be submitted to the HHSC Representative.

1.04 GUARANTY

A. The Contractor shall guarantee that the work performed under this section conforms to the contract requirements and is free of any defect of material or workmanship performed by the Contractor. Such guarantee shall continue for a period of 2 years from the date of project acceptance during which period the Contractor shall remedy at his own expense any such failure to conform or any such defect.

C. The HHSC Representative shall notify the Contractor in writing within a reasonable time after discovery of any failure or defect.

D. Should the Contractor fail to remedy any failure or defect described in Paragraph A above within 10 working days after receipt of notice thereof, the HHSC Representative shall have the right to repair or otherwise remedy such failure or damage at the Contractor's expense.

1.05 SPECIAL REQUIREMENTS

A. Codes

1. The Contractor shall comply with the State OSHL (Occupational Safety and Health Law) and all pollution control regulations of the State Department of Health.

B. Protection

1. Persons

a. The Contractor shall take all necessary precautions to protect occupants, staff and public from injury.

b. The Contractor shall provide, erect and maintain safety barricades around scaffolds, hoists and wherever Contractor's operations create hazardous conditions in

order to properly protect the students, faculty, staff and public.

2. Completed Work: The Contractor shall provide all necessary protection for wet paint surfaces.

3. Protective Covering: The Contractor shall provide and install protective covering over furniture, equipment, floor and other areas that are not scheduled for treatment. Protective covering shall be clean sanitary drop cloth or plastic sheets. Paint applied to surfaces not scheduled for treatment shall be completely removed and surfaces shall be returned to original condition.

4. Safeguarding of Property: The Contractor shall take whatever steps may be necessary to safeguard his work and also the property of the University and other individuals in the vicinity of his work area during the execution of this Contract. He shall be responsible for and make good on any and all damages and for losses to work or property caused by his or his employee's negligence.

   Should surface preparation work include power-washing of the existing surface, the Contractor shall take all necessary precautions to control water run-off. Failure to take this precaution shall be grounds to stop the work of the project until a satisfactory solution is provided. Costs for this action shall be borne by the Contractor.

5. Fire Safety: The Contractor shall direct his employees not to smoke in the vicinity and exercise precautions against fire at all times. Waste rags, plastic (polyester sheets), empty cans, etc. shall be removed from the site at the end of each day.

C. Storage Area for Materials: No paint material, empty cans and paint brushes and rollers may be stored in buildings, but shall be stored in separate storage facilities away from the buildings. The Contractor may furnish a job site storage facility. Such facility shall comply with requirements of the local Fire Department. The storage area shall be kept clean and facility shall be locked when not in use or when no visual supervision is possible.

D. Sequence of Operations: The sequence of operations shall divide the surfaces into work areas and present a schedule for:

1. Surface preparation and spot prime.

2. Prime coat.

3. First finish coat.

4. Second finish coat.

E. Protection, Removal, Trimming of Landscaping: The Contractor shall coordinate with the University on the location of scaffolding, platforms, etc., within the landscaping surrounding the buildings. The Contractor shall be responsible for all trimming and removal or relocation of landscaping as necessary. The Contractor shall be responsible for protection of all landscaping to remain.

1.06 AREAS TO BE PAINTED

A. Surfaces to be Painted

1. Exterior/Interior:

a. Painting of new metal doors and frames where indicated on the drawings.

b. Repainting of miscellaneous items as disturbed by the work of this project.

c. Painting of all associated work as required by this project.

2. All questions regarding the extent of work shall be addressed to the HHSC Representative for clarification. The Contractor's bid shall assume, that unless noted otherwise, all questionable surfaces shall be assumed to be painted unless directed by the HHSC Representative otherwise.

B. Work Incidental to Painting

1. Other items as noted in the drawings or herein specified.

PART 2 - PRODUCTS

2.01 MATERIALS

The Contractor shall be responsible for furnishing to the Facility quantities of each paint material required. The paint materials will generally meet the following requirements.

A. Asbestos Prohibition: No asbestos containing materials or equipment shall be used under this section. The Contractor shall ensure that all materials and equipment incorporated in the project are asbestos-free.

B. Lead Prohibition: All paints shall be lead-free.

C. Mercury Prohibition: All paint shall be mercury- free.

D. Chromate Prohibition: All paint shall be free of zinc-chromate and/or strontium-chromate.

E. Cadmium Prohibition: All paint shall be cadmium free.

F. All materials shall be low or no VOC and shall not produce offensive odors unless otherwise specified. Should offensive odors be produced, the contractor shall immediately stop and cease to use such product until an acceptable ventilation system can be provided by the contractor to remove such offensive odors. Provide ventilation in conformance with manufacturer's recommendations. If a ventilation system is required, the cost of such measures shall be borne by the contractor.

G. Paints shall be as manufactured by PPG Paints, Benjamin Moore, Sherwin Williams, or pre-approved equal.

H. Thinning of paint shall be done using material recommended by the manufacturer. Mix proprietary products according to manufacturer's printed specifications. Compound thinner, mineral oil, kerosene, refined linseed oil, or gasoline shall not be used for thinning.

I. Except for metal primers all paint shall contain the maximum amount of mildewcide per gallon of paint permitted by the mildewcide manufacturer without adversely affecting the quality of the paint.

2.02 SCHEDULE OF FINISHES

A. The Schedule of Finishes is made for the convenience of the Contractor and indicates the types and quality of finishes to be applied to the surfaces.

B. Any existing painted surface not specifically noted in the finish schedule shall be finished to match adjoining work.

C. Additional paint materials not included in the Schedule of Finishes, however, required for the conditions of the site, shall be provided by the Contractor for a complete paint/repaint project.

SCHEDULE OF FINISHES

Exterior/Interior System:

A. Galvanized Steel: Provide the following finish systems over exterior galvanized steel surfaces:

1. MPI EXT 5.3A-G5 (Semi-Gloss)

   a. Primer (MPI 134)
      Waterborne Primer & Flat Finish
   b. Intermediate (MPI 11)

Exterior Semi-Gloss Paint

c. Topcoat (MPI 11)
Exterior Semi-Gloss Paint

B. Miscellaneous: Match to existing as close as possible in finish and color.

PART 3 - EXECUTION

3.01 WORKMANSHIP

A. Apply all materials in strict accordance with the manufacturer's printed instructions with paint evenly spread and well applied with no drops, runs, or sags. Do not apply paint on wet or damp surfaces nor until preceding coat of paint is thoroughly dry, and in the case of woodwork, well sanded. Particular attention shall be made to sanding between finish coats. All finishes are intended to thoroughly cover in the number of coats listed, using the quality of paint specified. If paints are thinned, apply sufficient additional coats as required to provide full and complete coverage, with no shadows, spots, streaks, voids, color bleed-through, or other defects.

B. Identification of coatings: Each coat shall be tinted a slightly different shade from the preceding coat so that it can be readily identified. Finish coat shall match approved sample for each portion of work.

C. All surfaces adjacent to areas being finished shall be protected and left clean of paints, stains, etc. Clean drop cloths shall be used until completion of job.

D. All mixing shall be done outside the building.

E. All waste materials shall not be left in or near the building but shall be stored in proper metal containers.

F. Take all necessary precautions to prevent or minimize dust from surface preparation work from becoming airborne and spreading beyond the immediate work area. If directed by the University provide a dust barricade around the work area at no additional cost to the University.

3.02 PREPARATION OF SURFACES

A. The painting contractor shall be wholly responsible for the finish of his work and shall not commence any part of it until surfaces are in proper condition. If painting contractor considers any surfaces unsuitable for proper finish of his work, he shall notify the General Contractor of this fact and he shall not apply any material until the unsuitable surfaces have been made satisfactory. Major defects shall be restored by the proper trades. In general, follow paint manufacturer's directions for surface preparation for the paint to be applied.

B. All surfaces:

1. All surfaces shall be free of all contaminants, including oils, greases dirt, grime, loose paint, chalk, imbedded contaminants, rust, mildew and/or any surface contaminants that will impede the proper adhesion and appearance of the finishes to be applied.

2. Remove surface “chalk” by a soap and water scrubbing. Rinse thoroughly.

3. Existing surfaces, where touch-up is required, to which new paint is to be applied shall be tightly bonded to the subsurface.

4. Remove all mildew by scrubbing with a commercial mildew wash formulated for this purpose such as Jomax or pre-approved equal. Apply per manufacturer’s written instructions and adhere to all cautions. Allow 15 – 20 minutes dwell time before rinsing. If necessary, scrub surfaces to remove mildew and dirt. Work from the top to bottom. Thoroughly rinse with clean, fresh water and allow surfaces to dry thoroughly before proceeding. Repeat above process if necessary to insure removal of all milder contamination.

C. Scuff-sand glossy surfaces scheduled for painting to insure proper adhesion.

D. Unprimed galvanized metal shall be washed with a solution of chemical phosphoric metal etch and allowed to dry.

E. All metal surfaces shall be made clean and free of any defects or condition that may produce unsatisfactory finish.

3.03 PAINT APPLICATION

A. General : All materials shall be applied in accordance with the manufacturer's specifications and the finished surfaces shall be free from runs, sags, drops, ridges, waves, laps, streaks, brush marks and variations in color, texture and finish (glossy or dull). The coverage shall be complete and each coat shall be so applied as to produce a film of uniform thickness. No paint materials shall be applied until the preceding coat is thoroughly dry and approved.

B. Application: Application shall be by brush or roller only. Paint coating shall be dressed down in one direction.

C. Colors: Each coat shall be tinted a different shade from the preceding coat. Colors shall generally match the existing building colors or as selected by the HHSC Represenatative.

3.05 PROTECTION OF PROPERTY

The Contractor shall be responsible for condition of work area in his charge. He shall protect adjacent work and materials from soiling or damage as well as his own. The storage and handling of paints and thinners shall be in accordance with the safety provisions and codes covering such handling and storage.

3.06 INSPECTION

All areas shall be provided for inspection of the work by the HHSC Representative at any time. Any work not conforming to these specifications shall be cleaned off, and repainted at the expense of the Contractor.

3.07 MISCELLANEOUS

A. Clean-up

1. During the progress of the work, all debris, empty crates, waste, drippings, etc. shall be removed by the Contractor and the grounds about the areas to be painted shall be left clean and orderly at the end of each work day.

2. Upon completion of the work, staging, scaffolding, containers and all other debris shall be removed from the site. All paint, shellac, oil, or stains splashed or spilled upon adjacent surfaces not requiring treatment (hardware, fixture, floor, glass) shall be removed and the entire job left clean and acceptable.

END OF SECTION

DIVISION 13 - SPECIAL CONSTRUCTION

SECTION 13281 - ASBESTOS ABATEMENT

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS: In performing this project, all possible safeguards, precautions and protective measures shall be utilized to prevent exposure of any individual to asbestos particulates as specified herein.

1.02 DESCRIPTION OF WORK

A. Furnish all labor, materials, equipment, and services, necessary to carry out the safe removal and disposal of asbestos-containing material in compliance with these specifications, EPA, OSHA, State of Hawaii regulations, and any other applicable Federal and State regulations. Whenever there is a conflict or overlap of the above references, the most stringent shall apply. The asbestos work at the Maluhiai Hospital shall generally include:

1. Removal and disposal of caulking at all the doors and frames scheduled for the replacement as identified in the Inspection Report and/or Project Drawings. The caulking shall be completely removed to wall substrate.

2. Spot removal and disposal of floor tiles/mastic to allow for the safe door system replacement as identified in the Inspection Report and/or Project Drawings.

3. Spot removal and disposal of drywall with joint compound to allow for the safe door system replacement as identified in the Inspection Report and/or Project Drawings.

4. All work is to be completed when project areas are vacant

5. Contractor to coordinate all work with the Architect and/or HHSC Representative, General Contractor and the Qualified Consultant. Contractor is responsible to satisfy himself as to the total extent of all work, including to but not limited to the quantity, location, thickness, layers, accessibility, etc. of all material prior to commencement of any work.

B. In general, the principal items of the asbestos removal work shall be as follows:

1. Worker Protection

2. Decontamination Enclosure System

3. Preparation of Work Area

4. Removal of asbestos-containing materials

5. Removal of protective sheeting

6. Disposal

C. Cleaning shall include areas within and immediately around the work area affected by the abatement work and all areas contaminated by the Contractor's work.

D. The asbestos abatement work shall include removal of all asbestos-containing materials within the work area as specified herein and noted on the drawing.

E. Contractor shall comply with all regulations pertaining to asbestos removal. If there is a conflict with the specifications, the more stringent requirement shall apply.

1.03 COORDINATION WITH OTHER SECTIONS: Prior to commencement of work, an annotated description of all existing damaged and missing items shall be submitted to the Architect and/or HHSC Representative. It will be the Contractor's responsibility to repair and/or replace to the Architect and/or HHSC Representative's satisfaction all items identified as damaged and/or missing that cannot be proven to have been in this condition prior to the commencement of this project.

1.04 SUBMITTALS PRIOR TO WORK

A. Final payment will not be made until copies of all submittals have been furnished to and accepted by the Architect and/or HHSC Representative. Submit one electronic copy of the submittal package, no later than 10 consecutive working days from award notice, which will include the items listed below.

B. Notices: As early as possible but prior to commencement of work, as regulated by each agency and before commencement of any on-site project activity, send a courtesy 10-day notice in accordance with 40 CFR Part 61.145 of Subpart M, of the proposed asbestos abatement work with copies to the Architect and/or HHSC Representative and to the following agencies:

1. The Administrator of the Environmental Protection Agency (EPA) Regional Office having jurisdiction over the project.

2. State of Hawaii, Department of Health, "Notification of Demolition and Renovation" form. Send to: State of Department of Health, Indoor and Radiological Health Branch, 99-945 Halawa Valley Street, Aiea, Hawaii 96701.

C. Permits & Licenses: Copies of all permits, licenses (C-19) and arrangements for removal, transportation and disposal of asbestos-containing materials and waste water.

D. Insurance: Proof of insurance for Workman's Compensation and General Liability which covers asbestos, lead, and pollution.

E. Manufacturer's Data: Copies of manufacturer's specifications, installation instructions and field test procedures for each material and all equipment related to asbestos handling and abatement and include other data as may be required to show compliance with these specifications and proposed uses.

F. Samples: Samples of the following items for approval prior to ordering materials:

1. Surfactant: copies of manufacturer's literature including all laboratory data, mixing and application instructions.

2. Tapes and Adhesives: copies of manufacturer's literature including all laboratory data.

3. Warning Labels and Signs: copies of examples of all required signage.

4. Protective Clothing: copies of manufacturer's literature on all protective clothing and one sample of each item which will be returned to the Contractor.

5. Respirator Equipment: copies of manufacturer's literature on all respirator equipment and one sample of each item which will be returned to the Contractor.

6. Asbestos Encapsulant(s): copies of manufacturer's literature including all laboratory data, application instructions.

G. Work Plan: Submit a project Work Plan for the asbestos-containing material disturbance work written and signed by the Contractor's State of Hawaii, Department of Health certified Asbestos Project Designer. The Contractor shall also provide detailed information concerning:

1. Preparation of the work area.

2. Personal protective equipment including respiratory protection and protective clothing.

3. Decontamination procedures for the personnel who may be exposed to asbestos.

4. Handling and disposal methods and procedures to be used.

5. Required air monitoring procedures and sampling protocols.

6. Procedures for final cleanup.

7. A sequence of work and performance schedule in coordination with other trades.

8. Emergency procedures.

H. Shop Drawings: Submit shop drawings for the following items as a minimum:

1. Descriptions of any equipment to be employed not discussed in this section.

2. Security provisions, if any, in and around the project area.

3. Outline of work procedures to be employed.

4. Location of construction barriers.

5. Location of waste dumpster.

6. Staging of the work, the sequence.

7. Entrances and exits to the work place

8. Location and construction of worker decontamination units.

I. Documentation for Instruction: Submit documentation that each and every individual, including foremen, supervisors, and other company personnel or agents and any other individual who may be exposed to airborne asbestos fibers, who may be responsible for any aspect of abatement activities, or who is allowed or permitted to enter areas where such exposure may occur has currently attended and passed the Abatement Worker and/or Abatement Contractor/Supervisor course whichever is relevant to that workers responsibilities as specified in 40 CFR Part 763, “Asbestos Materials in Schools”. These courses shall be EPA-approved or approved by a State Accreditation Program in the most current listing of the Federal Register. No worker shall be allowed on site if they are found to have either an expired accreditation certificate or does not comply with the requirements set forth in 40 CFR Part 763 on training. All workers shall be certified for asbestos related work in accordance with Department of Health, Chapter 11-504, Hawaii Administrative Rules, *Asbestos Abatement Certification Program*. The Contractor shall be responsible for keeping the documentation up to date and subsequent submittals to the Architect and/or HHSC Representative before any additional employee or individual, not currently on the list, is allowed within the project site. Submit completed and signed "Employee Acknowledgment of Instruction and Release" forms. A sample "Employee

Acknowledgment of Instruction and Release" form is provided at the end of this section.

J. Documentation from Physician: Submit documentation from a physician that all employees or agents who may be exposed to airborne asbestos have been provided with an opportunity to be medically monitored to determine whether they are physically capable of working while wearing the respirator required without suffering adverse health effects. In addition, document that all individuals permitted within the project site have received medical monitoring or had such monitoring made available to them as required in OSHA 29 CFR 1926.1101. The Contractor must be aware of and provide information to the examining physician about unusual conditions in the workplace environment (e.g. high temperatures, humidity, chemical contaminants) that may impact on the employee's ability to perform work activities. The Contractor shall keep and make available to all affected individuals a record and the results of such examinations.

K. HEPA Vacuums: Submit manufacturer's certification that vacuums conform to ANSI Z9.2-79, Fundamentals Governing the Design and Operation of Local Exhaust Systems as applicable to this project.

L. Rental Equipment: When rental equipment is to be used in abatement areas or to transport asbestos contaminated waste, a written notification concerning intended use of the rental equipment must be provided to the rental agency with a copy submitted to the Architect and/or HHSC Representative.

M. Emergency Planning Procedures: Contractor shall submit for review and acceptance by the Architect and/or HHSC Representative, an emergency plan prior to abatement initiation.

1. Emergency procedures shall be in written form and prominently posted adjacent to the Worker Protection Notices specified hereinafter. Everyone prior to entering the work area must read and sign these procedures to acknowledge receipt of emergency exits and emergency procedures.

2. Emergency planning shall include notification of police, fire, and emergency medical personnel of planned abatement activities work schedule, and layout of the work area, particularly barriers that may affect response capabilities.

3. Emergency planning shall include considerations of fire, explosion, toxic atmospheres, electrical hazards, slips, trips and falls, and heat related injury. Written procedures shall be developed and employee training procedures shall be provided in Contractors plan.

1.05 SUBMITTAL AFTER WORK IS COMPLETED

A. At the completion of the work, a final report shall be prepared by the Contractor for acceptance by the Architect and/or HHSC Representative. One electronic copy of the report shall be submitted and shall include the items listed below.

1. The project name, Abatement Contractor, Abatement Contractor license number, notification form to the Hawaii Department of Health and EPA, work duration, material removed, respiratory protection employed, asbestos waste manifest, total quantity of waste, employee exposure air sample results, and results of the most current PAT round results for the laboratory or laboratories conducting the employee exposure air sample analysis.

2. Certification of the Abatement Contractor's employees.

3. Visitor/Worker Entry Log: The daily log of all personnel including the Contractor's employees and agents who enter the work area while asbestos abatement operations are in progress, until final clearance is received that the work area is asbestos free. The log shall contain the listed information as a minimum and shall be certified by the Qualified Consultant.

a. Date of visit/worker entry

b. Visitor/Worker's name, employer, business address and telephone number

c. Time of entry and exit from work area

d. Purpose of visit

e. Type of protective clothing and respirator worn

f. Certificate of release signed and filed with the contractor

4. A statement signed by the Asbestos Abatement Contractor that all asbestos abatement and disposal was completed in compliance with this specification, Federal and State regulations, and the approved Work Plan.

1.06 PRODUCT HANDLING: Deliver materials to the site in original packages, containers or bags fully identified with manufacturer's name, brand and lot number. Store materials in a dry well-ventilated space, under cover, off the ground and away from surfaces subject to dampness or condensation as approved by the Architect and/or HHSC Representative. Material that becomes contaminated with asbestos shall be disposed of in accordance with applicable regulations. Replacement materials shall be stored outside the contaminated work area until abatement is completed.

1.07 PROTECTION

A. Site Security: The work area is to be restricted only to authorized, trained, and protected personnel. These may include the Contractor's employees, employee's of subcontractors, the Architect and/or HHSC Representative, State and local inspectors and any other designated individuals. A list of authorized personnel shall be established prior to job start.

1. Entry to the work area by unauthorized individuals shall not be permitted without the express approval of the Architect and/or HHSC Representative and any such entry shall be reported immediately to the Architect and/or HHSC Representative by the Contractor.

2. A Visitor/Worker Entry Log shall be maintained.

3. The Contractor shall have control, subject to approval of the Architect and/or HHSC Representative of security in the work area and in proximity of Contractor's equipment and materials.

B. Site Protection and Safety: As a minimum follow the requirements of EPA, HIOSH (State of Hawaii), OSHA and NIOSH. Take all necessary precaution to ensure there is no asbestos contamination to those areas not included in the work schedule.

C. Protective Covering: The Contractor shall provide and install protective covering on an "as required" or "upon request" by the Qualified Consultant. Protective covering shall be clean plastic sheets minimum thickness of 6-mil.

D. Safeguarding of Property: The Contractor shall take whatever steps necessary to safeguard his work and also the property of the State and other individuals in the vicinity of his work area during the execution of this Contract. He shall be responsible for and make good on any and all damages by his employees negligence. Do not load structure with weight that will endanger the structure.

E. Completed Work: The Contractor shall provide all necessary protection for surfaces encapsulated under this section.

1.08 ABBREVIATIONS

A. ANSI: American National Standards Institute, Inc.

B. CFR: Code of Federal Regulations

C. HIOSH: Division of Occupational Safety and Health, Department of Labor and Industrial Relations, State of Hawaii

D. EPA: U.S. Environmental Protection Agency

E. NESHAP: National Emission Standards for Hazardous Air pollutants

F. NIOSH: National Institute for Occupation Safety and Health

G. OSHA: Occupational Safety and Health Administration

1.09 GENERAL REQUIREMENTS

A. Contractor shall examine and have at all times in his possession at his office (one copy) and in view at each job site office (one copy) a current issue of the following publications:

1. State of Hawaii, Department of Health, Title 11, Chapter 501-1, Asbestos Requirements

2. State of Hawaii, Department of Health, Title 11, Chapter 501-2, Asbestos Containing Materials in Schools

3. State of Hawaii, Department of Health, Title 11, Chapter 501-4, Asbestos Abatement Certification Program

4. Title 29, Code of Federal Regulations, Section 1910.134 - General Industry Standard for Respiratory Protection, Occupational Safety and Health Administration (OSHA), U.S. Department of Labor

5. Title 29, Code of Federal Regulations, Section 1926.1101 - Asbestos, Construction Industry, Occupational Safety and Health Administration (OSHA), U.S. Department of Labor

6. Title 29, Code of Federal Regulations, Section 1910.2 - Access to Employee Exposure and Medical Records, Occupational Safety and Health Administration (OSHA), U.S. Department of Labor

7. Title 29, Code of Federal Regulations, Section 1910.1200 - Hazard Communication, Occupational Safety and Health Administration (OSHA), U.S. Department of Labor

8. Title 40, Code of Federal Regulations, Part 61, Subparts A and M (Revised Subpart B), National Emission of Standards for Hazardous Air Pollutants, U.S. Environmental Protection Agency (EPA)

9. Guidance for Controlling Asbestos-Containing Materials in Buildings, EPA 560/5-85-024 (Purple Book), U.S. Environmental Protection Agency (EPA)

10. Title 34, Code of Federal Regulations, Part 231, Appendix C, Procedures For Containing and Removing Building Materials Containing Asbestos, U.S. Environmental Protection Agency (EPA)

11. Title 29, Code of Federal Regulations, Section 1910.145 Specifications for Accident Prevention, Signs and Tags,

Occupational Safety and Health Administration (OSHA), U.S. Department of Labor

12. ANSI Z88.2-80 Practice for Respiratory Protection

13. EPA, Final Response to the Asbestos Hazard Emergency Response Act (AHERA), 40 CFR, Part 763, Subpart E

B. The Contractor shall comply with the above requirements and any applicable State and City & County regulations. Where conflict or any inconsistency among requirements or with this specification exists, the more stringent requirements shall apply. Ignorance of the above requirements and any applicable State and City & County regulations resulting in additional cost to the Contractor shall be solely the Contractor's responsibility.

C. All regulations shall govern over these specifications, except that any more stringent specification or specification providing greater protection against asbestos exposure, injury, loss or liability, shall control to the extent permitted by regulation. Any question regarding conflict or inconsistency between specification and/or regulations should be directed to the Architect and/or HHSC Representative.

D. Whenever approval of the Architect and/or HHSC Representative is required prior to proceeding with other work, the following shall be complied with:

1. The Contractor shall allow the Architect and/or HHSC Representative 72 hours from notification to respond to the request for inspection.

2. The Contractor shall designate one person (either a foreman or superintendent) who will be authorized to request for inspections. The name of the designated person shall be submitted in writing to the Architect and/or HHSC Representative prior to commencing with the work. Request from any other person will not be considered an official request.

1.10 DEFINITIONS

A. Abatement: Procedure to control fiber release from asbestos-containing building materials.

1. Removal: All herein specified procedures necessary to remove asbestos-containing materials at an approved site in an acceptable manner.
2. Post-Removal Surface Encapsulation: Procedures necessary to coat surfaces from which asbestos-containing materials have been removed and where designated on the drawings to control any residual fiber release.

B. Air Monitoring: The process of measuring the fiber content of a specific, known, volume of air in a stated period of time.

C. Amended Water: Water to which a surfactant has been added to reduce water surface tension and thereby provide a more rapid penetration.

D. Authorized Visitor: the Architect and/or HHSC Representative, the Qualified Consultant, his representatives, air monitoring personnel, or a representative of any regulatory or other agency having jurisdiction over the project.

E. Holding Area: A secure area used for the storage of double-bagged asbestos containing material before removal from the project site to an approved disposal site.

F. Fixed Object: A unit of equipment or furniture in the work area which cannot be removed from the work area without dismantling.

G. Friable Asbestos: Asbestos containing material which can be crumbled to dust, when dry, under hand pressure.

H. HEPA Filter: A High Efficiency Particulate Absolute filter capable of trapping and retaining 99.97% of asbestos fibers greater than 0.3 micron in length.

I. HEPA Vacuum Equipment: Vacuuming equipment that utilizes a High Efficiency Particulate Absolute (HEPA) filter.

J. Surfactant: A chemical wetting agent added to water to improve penetration, thus reducing the quantity of water required for a given operation or area.

K. Post-Removal Encapsulation: A liquid material which can be applied to surfaces from which asbestos-containing material has been removed to control the possible release of residual fibers, either by creating a membrane over the surface (bridging encapsulant) or by penetrating in to the material and binding its components (penetrating encapsulant). Selected product shall be compatible with the existing finishes including wood, metal, and plastic.

L. Qualified Consultant: Consultant hired by the General Contractor who will perform air monitoring and inspection during abatement work and shall have the authority to initiate engineering controls. The Qualified Consultant will be accredited as a State of Hawaii Department of Health accredited Asbestos Project Monitor.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Plastic Sheeting: Minimum thickness is 6-mil polyethylene film.

B. Plastic Bags: Minimum thickness 6-mil polyethylene film labeled as specified hereinafter.

C. Tapes: Tape shall be capable of sealing joints of adjacent sheets of polyethylene and for attaching polyethylene sheets to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions, including the use of amended water. Silver cloth duct tape, minimum 2 inches wide; red or NATO orange tape, minimum 2 inches wide for exit arrows; and double faced foam tapes, by Nashua, 3-M, Arno, or approved equal.

D. Adhesives: Adhesives shall be capable of sealing joints of adjacent sheets of polyethylene and for attachment of polyethylene sheet to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions, including use of amended water.

E. Warning Labels and Signs: As required by OSHA regulations 29 CFR 1926.1101. Permanent signage for access panels and areas with encapsulated asbestos-containing materials shall be as specified hereinafter. Signage shall be as approved by the Architect and/or HHSC Representative.

F. Protective Clothing: As specified hereinafter. The Contractor shall have all the required sets of coveralls required for this project on island prior to the start of work. There will be no time extension for the unavailability of coveralls or related equipment.

G. Post-Removal Encapsulation: The encapsulant shall be applied to surfaces from which asbestos-containing material has been removed to control the possible release of residual fibers, either by creating a membrane over the surface (bridging encapsulant) or by penetrating in to the material and binding its components (penetrating encapsulant) and shall be compatible with the existing finishes including wood, metal, and plastic.

H. Other Materials: Provide all other materials, such as, but not limited to lumber, plywood, nails, fasteners, metal studs, hardware, foam sealants, and caulking which may be required to properly prepare and complete this project.

2.02 TOOLS AND EQUIPMENT

A. General: Provide and fabricate suitable tools for the asbestos abatement procedures.

B. Water Sprayer: Airless or a pressure sprayer for amended water application as applicable.

C. Air Purification Equipment: High Efficiency Particulate Absolute (HEPA) filtration systems.

D. Paint/Encapsulant Sprayer: Airless type.

E. Other tools and equipment as necessary.

2.03 PERSONNEL PROTECTION REQUIREMENTS

A. The contractor acknowledges he alone is responsible for instruction and for enforcing personnel protection requirements and that these specifications provide only a minimum acceptable standard.

B. Provide workers with sufficient sets of disposable protective full body clothing consisting of material impenetrable by asbestos fibers and of the proper size for each individual to accommodate movement without tearing. Such clothing shall consist of full body coveralls, footwear, gloves and headgear. Provide hard hats as required by applicable safety regulations. Disposable clothing shall not be allowed to accumulate and shall be disposed of as asbestos contaminated waste. Protective clothing shall be worn by all personnel within the work area from the start of the removal and post-removal encapsulation work until the work area has received its final clearance.

C. Insulated non-skid rubber boots or an approved equal shall be required for all individuals entering the work area. Protective full body clothing without elastic at sleeves and legs shall require separate elastic or taped protection to seal the opening. Visitors shall be provided full body protective clothing.

D. No visitors shall be allowed in work areas, except as authorized by the Architect and/or HHSC Representative. Visitors must supply their own respiratory protection and show proof training in accordance with DOH 11-501-504. Provide authorized visitors with suitable disposable protective full body clothing consisting of material impenetrable by asbestos fibers and of the proper size for each individual to accommodate movement without tearing. Such clothing shall consist of full body coveralls, footwear, gloves and headgear including hard hat when required and insulated rubber boots or equal. The Contractor shall include in his Bid the expense of a total of 4 changes of clothing per day for each day of asbestos abatement work for visitor's use. The quantity shall accumulate and may be used at any time during asbestos abatement work at the discretion of the Architect and/or HHSC Representative.

E. All electrical systems used for asbestos abatement operations shall as a minimum be protected with "Ground Fault Circuit Interrupters" selected

and installed in strict accordance with the manufacturer's instructions, the National Electric Code and all other pertinent codes.

F. Additional safety equipment (e.g. hardhats meeting the requirements of ANSI Z-89.1-2009, eye protection meeting the requirements of ANSI Z87.1-2015, safety shoes meeting the requirements of ANSI Z41.1-1991, disposable PVC gloves), as necessary, shall be provided to all workers and authorized visitors.

PART 3 - EXECUTION

3.01 SEPARATION OF WORK AREAS FROM NON WORK AREAS

A. Penetrations: Windows and doors and any other openings to the work area, shall be sealed with 2 layers of 6-mil poly sheeting and secured with duct tape.

B. Emergency Exits: Designate and maintain emergency and fire exits from the work area in accordance with local codes and regulations. Provide knockout/cut away panels in the barriers in the direction of emergency egress. Properly mark the knockout/cut away panels, seal them airtight, and on a continuing basis instruct workers and authorized personnel as to their locations. Post a diagram in each Clean Room and Equipment Room locating the emergency exits. In case of fire while doing work in the work areas, emergency exit procedures have priority over normal work exiting procedures.

C. Inspection: The Contractor shall inspect all barriers at least twice a day (once prior to the start of each day's abatement operations and following the day's abatement operations). Document the inspections and observations in a daily project log.

D. Emergency Exits: Designate and maintain emergency and fire exits from the work area in accordance with local codes and regulations.

3.02 DECONTAMINATION ENCLOSURE SYSTEMS

A. General: The Contractor shall construct the decontamination enclosure system or use portable units acceptable to the Qualified Consultant and as identified in the approved asbestos abatement work plan.

B. Worker Protection Notice: Post the following notice in each Clean Room and Equipment Room:

1. Workers and authorized personnel, in order to enter the work area, shall:

a. Remove all clothing, unless it is to remain in the Equipment room for eventual disposal.

b. Don the appropriate respiratory protection, follow all training procedures and manufacturer's instructions. Check the equipment for proper operation before proceeding any further.

c. Don protective clothing (full body coveralls, gloves, boots, headgear etc.) after donning respirator.

2. All workers and authorized personnel, in order to leave the work area, shall:

a. Remove gross (visible) contamination from themselves and their equipment. HEPA vacuum off dust in the work area.

b. Enter the Equipment Area and, keeping your respirator in place, remove all protective clothing, including full body coveralls, gloves, boots, and headgear. Place contaminated clothing in the bag(s) provided.

c. Proceed to the Clean Area: Get dressed and return respirator to its proper place.

d. No smoking, eating, drinking shall be allowed inside the work area or the decontamination area.

3.03 COMMUNICATIONS: Provide a communications system suitable to monitor all activities within the work area and to readily transfer messages from one location to another.

3.04 WORK AREA PREPARATION

A. Work by the Asbestos Abatement Contractor:

1. Step 1:

a. Posting of Danger Signs: Post danger signs in and around the work area to comply with 29 CFR 1926.1101 and all other Federal, State and local requirements. Signs shall be posted at a distance sufficiently far enough away from the work area to permit a person to read the sign and take the necessary protective measures to avoid exposure.

b. Critical Seals (barriers): Seal all interior penetration and/or openings within the regulated work areas with plastic sheeting. Plastic sheeting is to remain in place for the duration of the asbestos abatement or until specified by the QC.

c. Install another barrier or isolation method which prevents the migration of airborne asbestos and debris from the regulated work area.

d. Inspect the Building Openings: At the beginning of each work day, the Contractor shall inspect and ensure that all doors, windows and other openings of affected building(s) and all surrounding buildings are closed and locked (as applicable).

2. Step 2:

a. Provide Decontamination Units where appropriate: Personnel Decontamination Unit(s) specified hereinafter shall be required.

b. Precleaning/Wet-wiping:

1) Pre-clean fixed object within the work area, first using HEPA vacuum equipment and then wet cleaning methods as appropriate and separately enclose with minimum 6-mil plastic sheeting sealed with tape. Fixed objects shall include, but not be limited to exposed electrical conduits and all other permanently fixed items.

3. Step 3:

a. Plasticizing: Objects which may be contaminated during abatement or difficult to clean shall be taped and sealed in a minimum of 6-mil polyethylene plastic sheeting. A minimum of 2 layers of 6-mil polyethylene plastic sheeting shall be used for preparation of critical barriers and containments.

b. When sealing (plasticizing), plastic sheet shall be protected against damages by sharp edges, projections, etc. Provide 2" squares of duct tape at all sharp projections prior to applying plastic sheet to prevent puncture and tearing.

c. NOTE: Combining lower mil thickness sheets to total the minimum mil thickness is not acceptable.

4. Step 4: After the sealing and temporary facility work is completed, notify the Qualified Consultant and get his approval prior to proceeding with abatement.

3.05 REMOVAL OF ACM

A. Thoroughly wet the materials with amended water before starting the removal.

B. The asbestos-containing material shall be removed in small sections. Before beginning the next section, the material shall be packed while still moist into sealable 6-mil double polyethylene bags and sealed airtight. No removed material, whether bagged or unbagged, shall be allowed to dry, fall to the ground, be crumbled into small pieces, pulverized, or made friable.

C. Prevent contamination spreading to the surrounding public area. A fine spray of the amended water shall be applied in small sections to reduce fiber release preceding the removal of the asbestos-containing material. Spray the asbestos-containing material repeatedly during the removal operations to maintain a wet condition and to minimize asbestos fiber dispersion. The Qualified Consultant shall have the authority to stop all work due to improper removal techniques.

D. It shall be the responsibility of the Contractor to verify the thickness of the material and satisfy himself as to the total work and/or effort to remove said material.

E. Contractor to coordinate all work with the Architect and/or HHSC Representative, General Contractor and Qualified Consultant

F. The Contractor is prohibited from using methods of removal that create excessive amounts of dust and debris.

G. Mechanical means of removal will not be allowed for caulking/glazing removal work.

3.06 EQUIPMENT CLEANING: All contaminated equipment and tools used for removal work shall be washed and cleaned in the work area prior to removing them from the work area. No washing of contaminated equipment and tools will be allowed outside the work area.

3.07 ASBESTOS-CONTAINING WASTE HANDLING

A. Collect and bag all asbestos debris and any other contaminated debris found in the work area. Clean the visible residual by HEPA vacuuming.

B. Clean fixed object within the work area, using HEPA vacuum equipment. Fixed objects shall include, but not be limited to pipes, wiring and all other permanently fixed items. Do not use methods that raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters. Do not use HEPA vacuum equipment on wet surfaces.

C. Debris shall be bagged and sealed in 6-mil plastic bags immediately after removal. All gross debris created by the removal process shall be bagged and sealed at the end of each removal day.

D. The bags containing the asbestos waste material shall be checked for evidence of waste material attached to the outside of the bags. If dirty, the bags shall be washed down in the work area. The bags are then moved to the Holding bin. Bags and containers shall be marked with OSHA label prescribed by the Hawaii OSHA regulations referenced in these specification. Label shall state, "DANGER – CONTAINS ASBESTOS FIBERS – AVOID CREATING DUST – CANCER AND LUNG DISEASE HAZARD." Additionally, label bags in accordance with OSHA 40 CFR 61.150; or EPA 40 CFR 763 if more restrictive. Labeling shall include the name of the waste generator and the site where the waste was generated.

E. Asbestos contaminated waste with sharp edges (e.g. nails, screws, metal lath, etc.) will tear the polyethylene bags and sheeting and therefore shall be placed in drums or enclosed with cardboard and double wrapped and sealed with plastic.

F. During the removal process, if plastic sheeting tears, or the duct tape loosens from the surface, the Abatement Contractor shall immediately stop work, cleanup loose asbestos–containing materials, and then reseal the surface by taping over the torn or loosened surface, before commencing again.

G. Protect the plastic sheeting against tearing caused by sharp projection, corners, edges, etc., of all equipment being used in the removal process. However, if the plastic sheeting tears, the Abatement Contractor shall follow repair procedure specified above.

H. Any housing or penetration concealing asbestos–containing materials shall be removed and protected to provide access to the materials. Replacement or reattachment of these shall be in a manner such that function and appearance is equal or exceeds the original condition.

3.08 CLEANING AND CLEARANCE OF THE WORK AREA

A. Should the contractor fail to commence work to clean-up and make the work area asbestos free within one working day after the clean-up thereof has been requested by the Architect and/or HHSC Representative, and thereafter to expeditiously complete the said clean-up, Architect and/or HHSC Representative may without further notice and without termination of contract, have the clean-up done and deduct the cost thereof from the contract.

B. Visual Clearance of Removal Work Areas: Remove all visible accumulation of asbestos-containing materials and debris by HEPA vacuums, sponging, and wet-wiping. The work areas shall be totally visibly clean and remaining material encapsulated. The Contractor, in the

presence of the Qualified Consultant, shall make a complete visual inspection of the work area to ensure dust-free conditions.

C. Once the Qualified Consultant verifies that the work areas are essentially clean of visible asbestos-containing debris, the Qualified Consultant will collect five post abatement PCM air clearance samples from each work area. The turnaround time of all PCM air samples will be 12 hours from the time of collection.

D. Should the Contractor fail to achieve the clearance level lower than 0.01 f/cc. Contractor will re-clean the area at no additional cost to the Architect and/or HHSC Representative and all additional fees to perform the sampling and analysis by the Qualified Consultant shall be paid for by the Contractor.

E. After achieving a clearance level lower 0.01 f/cc, the work area will be cleaned of all remaining containment enclosure sheeting. Clean and repair damage caused by temporary installations or use of temporary facilities. Restore existing facilities to their original condition or better, as approved by the Architect and/or HHSC Representative. Signage applicable to job site safety and the performance of the remaining portions of the work shall remain as applicable.

3.09 DISPOSAL OF ASBESTOS-CONTAINING MATERIAL

A. As the work progresses asbestos-containing waste is generated the Contractor shall transport all waste generated on a pre-scheduled day to the State of Hawaii, Department of Health's authorized disposal site, or as specifically approved by the Architect and/or HHSC Representative to delay a disposal operation. Transport all waste to the predesignated disposal site in accordance with EPA regulations and specific landfill requirements.

Contaminated material shall be double–bagged in bags with OSHA label prescribed by the HIOSH regulations referenced in these specifications. Label shall state, "DANGER – CONTAINS ASBESTOS FIBERS – AVOID CREATING DUST – CANCER AND LUNG DISEASE HAZARD." Additionally, label bags in accordance with OSHA requirement 29 CFR 1926.1101 or EPA 40 CFR 61.150 if more restrictive. Labeling shall include the name of the waste generator and the site where the waste was generated.

B. Mark vehicles used to transport asbestos-containing waste material during the loading and unloading of the waste so that the signs are visible. The marking must be displayed in such a manner and location that a person can easily read the legend. Refer to 40 CFR Part 61.149 for lettering size, fonts and wording of sign requirements. For all loading and unloading activities, the sign referred to in 40 CFR Part 61.150 (b) (3) shall be displayed prominently.

C. Vehicles used for transporting waste to the disposal sites shall have a completely enclosed, lockable storage compartment. Storage compartments shall be plasticized and sealed with a minimum of one layer of 6 mil polyethylene sheeting on the sides and top and two layers of 6 mil polyethylene on the floor (bed). Waste materials, except those with sharp edges (metal lath, screws, nails, metal suspension system, etc.), properly double bagged may be transported to the disposal site without being placed in drums if the transporting vehicle is prepared as specified above in addition to any more stringent requirements by HIOSH. The compartments shall be thoroughly wet–cleaned and/or HEPA vacuumed following the disposal of each load at the disposal sites at an approved location with electrical power as required. At the conclusion of the asbestos abatement, or before transport vehicles are used for other purposes, the polyethylene sheeting shall be properly removed and disposed of as contaminated waste. After this has been accomplished, compartments shall once again be wet–cleaned and HEPA vacuumed in order to eliminate all debris.

D. At the landfill, upon delivery of the waste for disposal, the Contractor shall notify the Scale Attendant and Landfill Spotter that the waste to be disposed of is asbestos material.

E. Workers unloading bags at the disposal sites shall be dressed in full body protective clothing and dual cartridge respirators.

F. Waste disposal manifest forms shall be properly completed to assure custody and disposal of all asbestos–containing material and asbestos contaminated waste at approved disposal sites. Forms shall be kept on file as directed by the Architect and/or HHSC Representative with copies submitted to the Qualified Consultant the next working day after each trip.

NOTE: IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT ANY LANDFILL USED FOR DISPOSAL OF ASBESTOS–CONTAINING OR ASBESTOS CONTAMINATED WASTE IS APPROVED FOR THAT PURPOSE.

G. Bags must be placed in the hole for burial. Dumping of bags from the containers will not be allowed. However, if a bag is torn and if acceptable by the landfill, the entire container may be buried.

H. The Contractor shall pay the waste disposal charge and any special handling charges at the landfills. All expenses for landfills shall be the complete responsibility of the Contractor. The bagged material shall be loaded in drums except as noted previously and transported to a landfill authorized by the State Department of Health to accept material containing asbestos. In the event the bag is torn, the tear shall be immediately mended with duct tape and the bag placed into another bag and sealed, and the wrapped material covered with another wrap and sealed. The Contractor shall make all prior arrangements with the landfill.

3.10 LOCK DOWN: Prior to removal of the plastic barriers and final visual inspection, a compatible post removal (lockdown) encapsulant shall then be spray applied to all exposed wall surfaces where asbestos has been removed.

Asbestos Notification of Demolition & Renovation
(Ref. HAR Chapter 11-501)

SEND TO: **STATE DEPARTMENT OF HEALTH**
INDOOR AND RADIOLOGICAL HEALTH BRANCH
99-945 HALAWA VALLEY STREET
AIEA, HAWAII 96701
Phone (808) 586-5800 Fax (808) 586-5811

I.	**Type of notification:** O=original R=revised C=cancelled		
II.	**Type of operation:** D=Demolition R=Renovation OD=Ordered Demolition ER=Emergency Renovation		
III.	**Facility information**		
	Owner name:		
	Address:		
	City:	State:	Zip code:
	Contact person:		Telephone #:
	Removal contractor:		License #:
	Address:		
	City:	State:	Zip code:
	Contact person:		Telephone #:
	Other operator:		
	Address:		
	City:	State:	Zip code:
	Contact person:		Telephone #:
IV.	**Is asbestos present (y/n):** Inspector's name:	Certification #:	State of certification:
V.	**Facility description (Include building number, floor and room number)**		
	Building name:		
	Address:		
	City:	State:	Zip code:
	Location(s) on site:		
	Building size (sq. ft.):	# Floors:	Age:
	Present use:	Prior use:	
Official Use Only			
Postmark Date:	**Received by:**	**State Record Number:**	

VI. Procedure used to detect the presence of asbestos Laboratory name: Analytical method:			
VII. Specify the nature of the asbestos material (TSI, surfacing, VAT, miscellaneous):			
Amount of asbestos, including: 1. RACM to be removed 2. CAT I left in place, and 3. CAT II left in place	RACM to be removed	Nonfriable ACM (not) to be removed	
		Category I	Category II
Pipes (linear ft.)			
Surfacing (square ft.)			
Facility components (cu. ft.)			
Scheduled asbestos abatement dates Start (mm/dd/yy): Finish (mm/dd/yy) Circle workdays and times: weekdays: daytime nighttime weekends: daytime nighttime			
Scheduled renovation/demolition dates Start (mm/dd/yy): Finish (mm/dd/yy) Circle workdays and times: weekdays: daytime nighttime weekends: daytime nighttime			
Description of the planned renovation/demolition work and methods to be used:			
Description of the work practices and engineering controls to be used to prevent emissions of asbestos from the work-site: Project designer name: Certification #: State:			
XII. Waste transporter #1			
Name:			
Address:			
City:	State:	Zip code:	
Contact Person:	Telephone:		
Waste transporter #2			
Name:			
Address:			
City:	State:	Zip code:	
Contact Person:	Telephone:		
XIII. Waste disposal site			
Facility Name:	Telephone:		
Address:			
City:	State:	Zip code:	

XIV. For demolition ordered by a government agency, please identify	
Name:	Title:
Authority (Agency):	
Date of order (mm/dd/yy):	Date ordered to begin (mm/dd/yy):
XV. For emergency renovations (Please call 808-586-5800 for additional instructions)	
Date and time of emergency Date (mm/dd/yy): Time: (a.m./p.m.)	
Description of sudden, unexpected event and the damage caused:	
Explanation of how the event caused an unsafe condition or would cause equipment damage or an unreasonable financial burden:	
Person contacted for approval at the Indoor and Radiological Health Branch: Name: Date (mm/dd/yy): Time: (a.m./p.m.)	
XVI. Description of procedures to be followed in the event that unexpected asbestos is found or previously nonfriable asbestos material becomes crumbled, pulverized or reduced to powder:	
XVII. I certify that an individual trained in the provisions of Hawaii administrative rules chapter 11-501, and certified as a contractor/supervisor, will be on-site during the entire renovation and/or demolition and evidence that the required training has been accomplished for this and all workers will be available at the work-site. Signature of owner/operator Date (mm/dd/yy):	
XVIII. I certify that the information on this notification is correct. Signature of owner/operator Date (mm/dd/yy):	
XIX. Additional Comments:	

VISITOR/WORKER ENTRY LOG
(Sample)

DATE

PROJECT

ALL PERSONNEL MUST SIGN-IN AND SIGN-OUT EVERY TIME THEY ENTER/EXIT THE WORK AREA. PLEASE PRINT CLEARLY. ATTACH EMPLOYEE RELEASE FORM FOR ALL VISITORS.

NAME	EMPLOYER Name, *Address, *Phone	TIME IN	TIME OUT	*PURPOSE OF VISIT	**TYPE OF PPE ISSUED

*NOT required of Contractor's employees

** Type of PPE (Personal Protective Equipment) Issued to include list of protective clothing worn and type of respirator used (Type "C", half-face dual cartridge, etc.

EMPLOYEE ACKNOWLEDGMENT OF INSTRUCTION AND RELEASE FORM
(sample)

Employee Name:

Employee Address:

Employee Telephone No.:

DOH Asbestos Certification Number:

Classification of Worker:

Have you had in the past, or present, any respiratory problems?

Yes No

Have you worked in the past with asbestos or fiberglass type materials?

Yes No

The project you will be working on involves the use of asbestos and the removal of the asbestos from the building. Asbestos is considered a health hazard.

The company is supplying all necessary safety clothing and working conditions required and necessary for your protection from asbestos hazard.

You shall be instructed a commencement of the job on the required use of safety equipment, clothing, working conditions and procedures. These must be rigidly adhered to. Smoking is not permitted in the work areas. Disregarding of safety instructions shall result in instant dismissal.

I acknowledge that safety instructions have been given to me by the company at my work commencement and I am thoroughly conversant with them and have answered the above questions truthfully.

Signed:
Employee

Date:

ASBESTOS DISPOSAL FORM
(sample)

Date: .

Owner or Operator of Landfill

Name

Address

City State Zip

Phone:

Name of Landfill

Name

Address

City State Zip

Phone:

Hauler

Approximate Volume of Asbestos Received

Type of Container Asbestos in

Asbestos Container Labeled? YES NO

I certify that the above statements are true and that the landfill has been approved for the disposal of asbestos. The delivered material will be covered within 6 inches (15 cm.) of non-asbestos material within 24 hours.

signed
Landfill Owner-Operator

END OF SECTION

SECTION 13282 - LEAD PAINT CONTROL MEASURES

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS: In performing this project, all possible safeguards, precautions and protective measures shall be utilized to prevent exposure of any individual to lead particulates as specified herein

1.02 DESCRIPTION OF WORK

A. Furnish all labor, materials and equipment necessary to carry out the safe removal, clean-up, proper handling, transportation and disposal of existing lead paint and building components with lead paint with all applicable laws and regulations concerning lead, including all incidental and pertinent operations. The lead work at Young Building, Sub-Basement, Leahi Hospital shall generally include:

1. Selective demolition, removal and disposal of building components coated with lead paint to allow for the safe door system replacement work as identified in the Inspection Report and Project Drawings.

2. Spot removal and disposal of both deteriorated and intact paint to to allow for the safe door system replacement work as identified in the Inspection Report and Project Drawings.

3. The Contractor shall assume any untested paint to contain lead.

B. The Contractor shall inform his employees, Subcontractors and all other persons performing work in this project, that painted surfaces within the project areas of the building contain lead. The Contractor, his employees, Subcontractors, etc. shall initiate and maintain all programs necessary to execute the work in accordance with the contract documents, federal, state and local laws, codes, rules and regulations.

C. The Contractor shall be responsible for ensuring that all work generating lead paint containing debris conforms to the following applicable federal, state and local laws, codes, rules and regulations

1. Occupational Safety and Health Administration (OSHA); Hawaii Occupational Safety and Health (HIOSH) standards and rules.

2. Environmental Protection Agency (EPA), Toxic Substance Control Act (TSCA), 40 CFR Part 745, Lead, Requirements for Lead-Containing Paint Activities in Target Housing and Child Occupied Facilities.

3. Environmental Protection Agency (EPA), Resource Conservation and Recovery Act (RCRA) of 1976, amended in 1980 and 1984.

1.03 COORDINATION WITH OTHER SECTIONS: The Contractor shall coordinate all of his lead disturbance activities with the Architect and/or HHSC Representative, General Contractor and and the Qualified Consultant.

1.04 CONTRACTOR RESPONSIBILITIES

A. The Contractor acknowledges that he alone is responsible for the instruction and for enforcing personnel protection requirements and that these specifications provide only a minimum acceptable standard. Contractor shall comply with all requirements of 29 CFR 1926.62. The Contractor shall also be responsible for complying with all applicable EPA regulations in regards to lead-containing materials.

B. Respirators: Use appropriate respirators and filters which meet all requirements of OSHA 29 CFR 1926.62.

C. Protective Clothing: Use appropriate personal protective clothing (disposable suits, eye protection, gloves, etc.) as required by OSHA 29 CFR 1926.62.

1.05 GENERAL REQUIREMENTS

A. The work specified herein shall include the handling of lead paint, components painted or coated with lead, transportation and disposal procedures as required of lead-containing materials by persons with approprite OSHA/HIOSH training. This work must be performed in compliance with all applicable federal, state, and local regulations and be performed by workers who are capable of and willing to perform the work of this contract.

B. Applicable Standards and Guidelines: All work under this contract, and any other trade work conducted with the project, shall be done in strict accordance with all applicable federal, state and local regulations, standards and codes governing lead paint removal, transportation and disposal of lead materials.

1. The most recent edition of any relevant regulation, standard, document or code shall be in effect.

C. Specific Statutory and Regulatory Requirements:

1. Title 29, Code of Federal Regulations, section 1926.62, entitled "Lead Exposure in Construction; Interim Final Rule".

2. Title 29 Code of Federal Regulations Part 1910.134, Respiratory Protection.

3. Federal Register: Vol. 54, No. 131; Tuesday, July 11, 1989. Department of Labor, Occupational Safety and Health Administration; 29 CFR Parts 1910, 1915, 1917, and 1918;

Occupational Exposure to Lead; Statement of Reasons; Final Rule.

4. Title 40 Code of Federal Regulations Part 61, National Emissions Standards for Hazardous Air Pollutants

5. Title 40 Code of Federal Regulations Part 745, Lead; Requirements for Lead-Based Paint Activities in Target Housing and Child Occupied Facilities; Final Rule

6. Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing.

1.06 DEFINITIONS

A. Action Level (AL): Employee exposure averaged over an 8-hour period, without regard to the use of respirators, to a particular airborne concentration. OSHA requirements become effective at this level. Lead: 30 micrograms per cubic meter of air.

B. Air Monitoring: The process of measuring the content of a specific, known, volume of air in a stated period of time. For this project, NIOSH 7082 method for lead monitoring.

C. Authorized Visitor: The Architect and/or HHSC Representative, Contractor hired Qualified Consultant, their representatives, air monitoring personnel, or a representative of any regulatory or other agency having jurisdiction over the project.

D. Contaminated Area: An area where unwanted toxic or harmful substances exists.

E. HEPA Filter: A High Efficiency Particulate Absolute filter capable of trapping and retaining 99.97% of particulates greater than 0.3 micron in length.

F. Lead: Metallic lead, all inorganic lead compounds, and inorganic lead soaps. Excluded are all other organic lead compounds.

G. Permissible Exposure Limit (PEL): The employer shall ensure that no employee is exposed to concentrations greater than the PEL as determined from an 8-hour time weighted average. Lead: 50 micrograms per cubic meter.

H. Personal Monitoring: Contractor's sampling of lead in air concentrations within the breathing zone of an employee to determine the 8-hour time weighted average. The samples shall be representative of the employee's work tasks. The breathing zone shall be considered an area within 12 inches of the nose or mouth of an employee.

I. Qualified Consultant: A third party independent consultant hired by the General Contractor who will perform air monitoring and inspection during lead disturbance work and shall have the authority to initiate engineering controls.

1.07 ABBREVIATIONS

A. CFR: Code of Federal Regulations

B. HIOSH: Department of Occupational Safety and Health, Department of Labor and Industrial Relations, State of Hawaii

C. EPA: U.S. Environmental Protection Agency

D. NIOSH: National Institute for Occupational Safety and Health

E. OSHA: Occupational Safety and Health Administration

F. NESHAP: National Emissions Standards for Hazardous Air Pollutants

G. LP: Lead Paint

H. TCLP: Toxicity Characteristic Leaching Procedure

1.08 SUBMITTALS PRIOR TO WORK

A. Final payment will not be made until copies of all submittals have been furnished to and accepted by the Architect and/or HHSC Representative. Submit one electronic copy of the submittal package no later than 10 work days from the notice of award unless otherwise specified in this section. The submittal package will include the items listed below.

B. Detailed Work Plan: The Contractor shall submit a project work plan for the lead paint disturbance work. The Plan shall be prepared by the State of Hawaii accredited lead supervisor. The Contractor shall also provide detailed information concerning:

1. Preparation of the work area

2. Personal protective equipment including respiratory protection and protective clothing.

3. Employees who will participate in the project: include documentation of experience, documented proof of lead removal training based on 29 CFR 1926.62 and/or the proposed EPA Model Accreditation for Lead-based Paint Removal Work Training, in addition to any current EPA regulatory requirements, and assigned responsibilities during the project.

4. Decontamination procedures for the personnel who may be exposed to lead paint.

5. Lead paint treatment, handling and disposal methods and procedures to be used.

6. Required air monitoring procedures and sampling protocols.

7. Procedures for final cleanup.

8. A sequence of work and performance schedule in coordination with other trades.

9. Emergency procedures.

C. Shop Drawings: Submit shop drawings for the following items as a minimum:

1. Descriptions of any equipment to be employed not discussed in this section.

2. Security provisions, if any, in and around the project area.

3. Outline of work procedures to be employed.

4. Location of the waste storage area.

5. Staging of the work, the sequence

6. Entrances and exits to the work place

7. Location and construction of worker decontamination units

D. Notices: The Contractor shall obtain a Generator's EPA Identification number (if necessary) for the lead-containing waste material generated from the project that is determined to be hazardous.

E. Insurance: Proof of insurance for Workman’s Compensation and General Liability which covers asbestos, lead, and pollution.

F. Qualifications of the Qualified Consultant.

G. Manufacturer's Data: Copies of manufacturer's specifications, installation instructions and field test procedures for each material and all equipment related to lead handling and abatement and include other data as may be required to show compliance with these specifications and proposed uses.

H. Documentation for Instructions:

1. Submit documentation satisfactory to the Architect and/or HHSC Representative that the Contractor's employees, including foremen, supervisors, and any other company personnel or agents who will be exposed to airborne lead dust or who shall be

responsible for any aspects of the lead paint removal work activities, have received training in accordance with this specification, 29 CFR 1926.62 and any current EPA regulatory requirements.

2. Submit to the Architect and/or HHSC Representative a written respiratory protection program meeting the requirements of 29 CFR 1910.134(b)(d)(e) and (f), documentation that all employees using respirators have received training, and documentation of respirator fit-testing for all Contractor employees and agents who will enter the work area wearing negative pressure respirators. The Contractor shall be solely responsible for his employee's personal protection.

I. Documentation From Physician: Before exposure to lead dust or fumes, the Contractor shall provide workers with a comprehensive medical examination as required by 29 CFR 1926.62. This examination will not be required if adequate records show the employees have been examined as required by the aforementioned regulations within the last year.

J. Respirators: Submit document NIOSH approvals for all respiratory protective devices used on site. Include manufacturer certification of HEPA filtration capabilities for all cartridges and filters.

K. Emergency Planning Procedures:

1. The Contractor shall submit an emergency evacuation plan for the Architect and/or HHSC Representative's acceptance prior to the commencement of work. This plan shall include consideration of fire explosion, toxic atmospheres, electrical hazards, slips, trips and falls, confined spaces and heat related injury. In non-life threatening situations, the injured or incapacitated employee shall decontaminate following normal procedures, with assistance from co-workers if necessary, before exiting the work area to obtain proper medical treatment. In life threatening situations, worker decontamination shall take least priority after measures to stabilize the injured worker, remove the injured worker from the work area, and secure proper medical treatment.

2. Emergency Response and Evacuation: The Contractor shall provide and document training in emergency response and evacuation procedures to all workers entering the work area.

L. Weekly Submittals During the Lead Disturbance Work: Copies of the following:

1. Contractor's weekly job progress reports detailing lead paint disturbance, handling, transportation, and disposal activities. In the job progress reports, the Contractor shall include information on the review of progress concerning previously established

milestones and schedules, major problems and action taken, injury reports, equipment breakdown, and bulk material and air sampling results.

2. Work site entry logbooks with information on worker and visitor access.

3. Daily logs documenting filter changes on respirators, HEPA vacuums, and other engineering controls.

4. Waste disposal manifest forms for all lead-containing waste material removed from the lead paint removal site and transported to the disposal site. The papers will include a chain-of-custody form with the names and addresses of the facility, the Contractor, the landfill operator, as well as the estimated quantity of lead-containing waste material, and the number and type of containers used. The form shall be signed and dated by the Facility Owner, the Contractor, and the landfill operator as the material changes custody. If a separate hauler is employed, their name, address, telephone number, and signature also shall appear on the form.

M. Waste Disposal and Landfill Requirements: Contractor shall separate lead paint chips and debris from non-hazardous waste materials such as used plastics, disposable tools, etc. Contractor shall clean all bulk lead-containing debris and waste from non-hazardous plastic, tools, suits, etc. prior to disposal.

1. If Toxic Characteristic Leaching Procedure (TCLP) test results of the containers of waste material are below the EPA limit the lead-containing waste materials (paint chips, contaminated materials, etc.) shall be disposed of at a landfill approved for such purposes. The Contractor shall submit to the Architect and/or HHSC Representative, documentation that the lead-containing waste material removed from the work area has been accepted by the landfill Owner.

2. If the TCLP test results are above the EPA limit or if materials are identified as hazardous waste, the lead-containing waste materials shall be disposed of at an EPA approved facility capable of accepting such hazardous waste.

3. The Contractor shall submit to the Architect and/or HHSC Representative, documentation that disposal of the lead-containing waste material at the selected landfill is approved by the State of Hawaii, or the EPA approved mainland facility for hazardous lead-containing waste material.

1.09 SUBMITTAL AFTER WORK IS COMPLETED

A. At the completion of the work, a final report shall be prepared by the Contractor for acceptance by the Architect and/or HHSC Representative.

One electronic copy of the report shall be submitted and shall include the items listed below.

B. The project name, Contractor's Name, EPA waste generator number, work duration, material removed, respiratory protection employed, waste manifest signed by the Contractor, waste transporter, and ladnfill operator, and total quantity of waste, TCLP lead reports, employee exposure air sample results, and results of the most current PAT round results for the laboratory conducting the employee exposure air sample analysis.

C. Certification of the Contractor's employees.

D. Visitor/Worker Entry Log: The daily log of all personnel including the Contractor's employees and agents who enter the work area while lead abatement operations are in progress, until final clearance is received fromt eh Qualified Consultant. The log shall contain the listed information as a minimum and shall be certified by the Contractor hired Qualified Consultant.

1. Date of visit/worker entry

2. Visitor/Worker's name, employer, business address and telephone number

3. Time of entry and exit from work area

4. Purpose of visit

5. Type of protective clothing and respirator worn

6. Certificate of release signed and filed with the contractor

E. Clearance certifications received from the Qualified Consultant.

F. A statement signed by the Contractor that all lead abatement and disposal was completed in compliance with this specification, Federal and State regulations, and the approved Work Plan.

PART 2 - PRODUCTS

2.01 TOOLS AND EQUIPMENT

A. General: Provide and fabricate suitable tools for the lead disturbance procedures.

B. Other tools and equipment as necessary.

2.02 PERSONNEL PROTECTION REQUIREMENTS

A. The Contractor acknowledges he alone is responsible for instruction and for enforcing personnel protection requirements and that these specifications provide only a minimum acceptable standard.

B. Provide workers with sufficient sets of disposable protective full body clothing consisting of material impenetrable by lead and of the proper size for each individual to accommodate movement without tearing. Such clothing shall consist of full body coveralls, footwear, gloves and headgear. Provide hard hats as required by applicable safety regulations. Disposable clothing shall not be allowed to accumulate and shall be disposed of as lead contaminated waste. Protective clothing shall be worn by all personnel within the work area from the start of the removal to final visual clearance.

C. Insulated non-skid rubber boots or accepted equivalent shall be required for all individuals entering the work area. Protective full body clothing without elastic at sleeves and legs shall require separate elastic or taped protection to seal the opening. Visitors shall be provided with full body protective clothing.

D. Additional safety equipment (e.g. hardhats meeting the requirements of ANSI Z-89.1, eye protection meeting the requirements of ANSI Z87.1, safety shoes meeting the requirements of ANSI F2413, disposable PVC gloves), as necessary, shall be provided to all workers and authorized visitors.

PART 3 - EXECUTION

3.01 POTENTIAL LEAD HAZARD

A. The disturbance or dislocation of lead-containing materials may cause lead-containing dust to be released into the atmosphere, thereby creating a potential health hazard to the workers and the general public. Apprise all workers, supervisory personnel, subcontractors, consultants, authorized visitors, occupants and neighbors who will be at or near the job site of the seriousness of the hazard and of proper work and protective procedures which must be followed (such as informing affected individuals as required by 40 CFR 745, keeping windows and doors closed; and air conditioning and ventilation units shut down during removal work).

B. Where in the performance of the work, workers, supervisory personnel, subcontractors, or consultants who may encounter, disturb, or otherwise function in the immediate vicinity of any identified lead-containing materials, take appropriate continuous measures as necessary to protect all workers and the general public from the potential hazard of exposure to respirable airborne lead dust. Such measures shall include the

procedures and methods described in the regulations of applicable federal, state and local agencies.

3.02 WORK AREA PREPARATION

A. Treatment of Surfaces: During disturbance work, acceptable industry standard dust control methods shall be used to control dust (such as wetting items to be disturbed, by misting; provide dust screens; remove items in large, whole pieces; avoid crushing and pulverizing removal methods; encapsulate material prior to disturbace; use amended water; and containerize wet waste material). Prevent contamination spreading to the surrounding public and residential area.

B. Barriers: Standard barriers such as construction warning tape, fencing, etc. shall be used to prevent the general public access on to the work site. Seal any penetrations to the affected work area with 6 mil polyethylene plastic sheeting and duct tape.

C. NESHAP Compliance: Compliance with the requirements of EPA's NESHAP regulation is required for this project. Proper notification of the renovation of the building to the Department of Health shall be the Contractor's responsibility.

D. Ensure that all personnel working on site during the removal work are properly trained and protected as required by law.

3.03 CLEANUP AND TESTING

A. Post-work visual clearance will be conducted by the Qualified Consultant.

B. All non-hazardous waste shall be removed from the site by the completion of the project. The Contractor, in the preseance of the Qualified Consultant, shall collect representative samples of the waste stream for TCLP lead analysis. All hazardous waste shall be removed from the site to an EPA approved disposal facility within 90 days of the removal work.

C. Clean Up and Testing: Wet clean and HEPA vacuum clean surfaces and surrounding ground within the lead control area daily. Do not allow lead painted/coated debris, paint chips, and dust to accumulate. Restrict the spread of dust and debris. Keep waste from being distributed over the general area. Do not dry sweep or use compressed air to clean the area. When the removal operation has been completed, the area will be cleaned of all visible lead paint contamination by vacuuming with a High Efficiency Particulate Absolute (HEPA) filtered vacuum cleaner followed by wet mopping where applicable. The Qualified Consultant will visually inspect the affected surfaces for residual lead paint chips and accumulated dust. The Contractor shall reclean areas showing dust or residual paint chips. If recleaning is required, the process will be repeated until the visual clearance is given by the Qualified Consultant. Do not remove the lead control area or roped-off perimeter and warning

signs prior to the receipt of the Qualified Consultant's lead clearance certification.

3.04 TRANSPORTATION AND DISPOSAL

A. Disposal of Hazardous Waste and Non-hazardous Waste: Contractor shall separate potentially non-hazardous waste material (i.e. plastic sheeting, disposable protective suits, etc.) from hazardous waste material prior to testing. All other debris, scraps, waste materials, rubbish and trash contaminated with lead paint and contaminated dust from the immediate work area and place in UN approved (49 CFR 178) and appropriately labeled containers and store on site for TCLP lead testing. The Contractor shall be responsible for collecting and paying of all TCLP testing.

1. Local waste landfill facilities do not accept any RCRA hazardous waste. All hazardous waste must be disposed of at an EPA approved mainland U.S. RCRA hazardous waste disposal facility. Hazardous waste must be disposed of within 90 days of the waste being created.

2. Non-hazardous lead waste and debris may be disposed of at the local waste landfill facility that is State approved to accept such waste.

a. Notify Non-hazardous Waste Landfill Operator: The Contractor shall advise the Non-hazardous Waste landfill operator, at least twenty-four (24) hours prior to transportation, of the material to be delivered.

b. Provide the Non-hazardous Waste Landfill Operator with applicable TCLP results which indicate that the waste material is non-hazardous.

B. Disposal of Non-Hazardous Painted Construction Debris (TCLP for Lead Not Exceeding EPA Limits): Remove non-hazardous lead waste including, debris, scraps, waste materials, rubbish, and trash from the site and disposed of at a landfill approved for disposal.

C. The Contractor shall submit disposal manifest and receipts showing acceptance of all waste material by the approved waste disposal site to the Qualified Consultant. The shipping papers shall include a chain-of-custody form and include names and addresses of the Facility Owner, the Contractor, and the Landfill Operator and information on the type and number of waste containers.

3.05 CLEARANCE CRITERIA

A. Should the contractor fail to commence work to clean-up and make the work area lead debris free within one working day after the clean-up thereof has been requested by the Architect and/or HHSC

Representative, and thereafter to expeditiously complete the said clean-up, Architect and/or HHSC Representative may without further notice and without termination of contract, have the clean-up done and deduct the cost thereof from the contract.

B. Visual Clearance of Removal Work Areas: Remove all visible accumulation of lead-containing materials and debris by HEPA vacuums, sponging, and wet-wiping. The work areas shall be totally visibly clean of any lead debris or waste. The Contractor, in the presence of the Qualified Consultant, shall make a complete visual inspection of the work area to ensure lead debris free conditions.

C. Once the Qualified Consultant certifies that the work areas are essentially clean of lead debris the other Contractors may proceed with their work. The removal of signage required by lead disturbance work shall be allowed after all lead-containing material designated to be removed is removed. Signage applicable to job site safety and the performance of the remaining portions of the work shall remain as applicable.

D. Completely remove all temporary barriers and materials when their use is no longer required. Clean and repair damage caused by temporary installations or use of temporary facilities. Restore existing facilities to their original condition or better, as approved by the Architect and/or HHSC Representative.

3.06 CONTRACTOR RESPONSIBILITIES

A. The Contractor shall be responsible for all TCLP lead testing and alaysis.

B. The Contractor shall be responsible for his employees' personnel protection, personal air monitoring and necessary records as required by OSHA, Hawaii State Law and all other applicable laws and as required in these specifications. The Contractor shall provide all required documentation to the government. Contractor shall collect daily personal air samples on at least 25% of the personnel performing removal work with the most exposure for the duration of the project.

C. Air monitoring and testing which becomes necessary in order to follow up on work by the Contractor, rejected as not conforming to the requirements shall be the responsibility of the Contractor. The full cost of such additional monitoring shall be borne by the Contractor, and shall not be a part of the final contract payment.

3.07 MONITORING RESULTS

A. Airborne lead levels in areas adjacent to the work area or in any part of the work site impacted by the removal activities shall not exceed 30 micrograms per cubic meter of air.

B. If the above ambient concentrations and/or the PEL's are exceeded, the Contractor shall cease all work immediately in any work area causing or

contributing to such a condition. The Contractor shall take remedial action (e.g. misting with more water, encapsulation, provide dust screens, etc.) to reduce concentrations to acceptable levels.

END OF SECTION

SECTION 13288 - TESTING AND AIR MONITORING

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS: In performing this project, all possible safeguards, precautions and protective measures shall be utilized to prevent exposure of any individual to asbestos and lead particulates as specified herein.

1.02 DESCRIPTION OF WORK

A. These specifications are based upon procedures and standards derived from U.S. regulatory agencies (EPA, OSHA, NIOSH) and the Hawaii State Division of Occupational Safety and Health as well as from industry and sound industrial hygiene practice.

B. Testing, daily area air monitoring and visual inspections shall be provided by the Qualified Consultant hired by the General Contractor for the purpose of:

1. Verifying compliance with the specifications and the applicable regulations listed in SECTION 13281 - ASBESTOS ABATEMENT; SECTION 13282 - LEAD PAINT CONTROL MEASURES;

2. Ensuring that the State's legally required documentation is collected;

3. Providing engineering control during the project.

1.03 DEFINITIONS

A. ACM: asbestos containing materials.

B. ASCM: arsenic containing materials.

C. Building representative(s): The person or persons designated by the users of the building to act on their behalf.

D. Contractor: The construction firm engaged to remove, encapsulate and/or dispose of the hazardous materials.

E. Industrial Hygienist: A Certified Industrial Hygienist (CIH) certified by the American Board of Industrial Hygiene who shall direct all air monitoring and project supervision.

F. Lead: Metallic lead, all inorganic lead compounds, and inorganic lead soaps. Excluded are all other organic lead compounds

G. Project Designer: The person of firm who prepared the plans and specifications to remove, encapsulate and dispose of the ACM.

H. Project Manager: The State employee responsible for administering the construction contract and ensuring that the work of the contractor is conducted according to the contract documents and in compliance with applicable laws, regulations, ordinance, etc.

I. Project Monitor: A member of the construction management team who enters the work area to set up the air monitoring device and then collects the various air samples to be sent to the laboratory for analysis.

J. Qualified Consultant: A third party independent consultant hired by the General Contractor who will perform air monitoring and inspection during asbestos and lead work and shall have the authority to initiate engineering controls. The Qualified Consultant will be accredited as a State of Hawaii Department of Health accredited Project Monitor and Lead Supervisor.

1.04 COORDINATION WITH OTHER SECTIONS: Coordinate with the Architect and/or HHSC Representative, General Contractor and Qualified Consultant for the testing/air monitoring requirements included in SECTION 13281 - ASBESTOS ABATEMENT; SECTION 13282 - LEAD PAINT CONTROL MEASURES.

PART 2 PRODUCTS (Not Used)

PART 3 - EXECUTION

3.01 GENERAL CONTRACTOR'S RESPONSIBILITIES

A. Testing, ambient air monitoring shall be provided by the General Contractor.

B. The Contractor shall be responsible for his employees' personnel protection, personal air monitoring and necessary records as required by OSHA, Hawaii State Law and all other applicable laws and as required in these specifications. The Contractor shall provide a final report with all required documentation to the State.

C. The Contractor shall procure legally required reports for air monitoring as part of the contract. All air monitoring reports shall include all field data, laboratory reports, test results and other pertinent information about the daily work activities.

D. The Contractor shall be responsible for the proper required notifications to the EPA and State of Hawaii Department of Health.

3.02 TESTING AND AIR MONITORING

A. Duties of the Qualified Consultant.

1. Photographic Record of Project: Record the abatement project with representative photos. All photos shall become the property of the State and are to be accompanied by a detailed log.

2. Project Log: Maintain daily field reports detailing all key activities during abatement and make a summary of project activities to the Architect and/or HHSC Representative. Incorporate the contents of the daily field reports with other project data into a final project report.

3. Visual Inspection of all Work Areas: Perform regular inspections of all containment areas. Conduct inspections during the actual work performance of the contractor to document the work practices employed and prior to air testing in each area to verify that all materials scheduled for abatement were removed and the area was properly cleaned.

B. Air Monitoring: The Qualified Consultants on-site air monitoring specialists or industrial hygienists shall perform the following activities associated with this portion of the project:

1. On-site environmental air monitoring as required by EPA, OSHA, and the project specifications.

2. Laboratory analysis by the most current NIOSH or OSHA method.

3. Monitoring of decontamination procedures at site entry/exit.

4. Monitoring of containment maintenance by visual and instrumental inspection.

5. Interface with project inspectors, building representatives, representatives of regulatory agencies, and project designers during site visits.

6. Ensure that proper respiratory protection is utilized by all persons at the project site.

7. Relay to the Architect and/or HHSC Representative any discrepancies in contractor's action with provisions of project specifications.

8. Act quickly in case of emergencies with appropriate response.

3.03 SAMPLING DESIGN

A. The following is a typical sampling design per containment area during the actual construction. The number of samples and volume quantities may vary, depending on each project's specification.

B. Work Area Samples: Low volume samples of 480 liters each shall be taken asbestos and lead work areas. If monitoring inside and outside the abatement work area shows airborne concentrations have reached the predetermined specified action level and/or TWA, the Qualified Consultant shall stop all work, notify the Architect and/or HHSC Representative immediately, have the Contractor correct the condition(s) causing the increase and ensure that the Contractor obtains the Architect and/or HHSC Representative's approval prior to restarting the removal work. At minimum one sample will be collected from the center of the work area, one sample upwind of the work area and two samples downwind of the work area.

C. Final Clearance Samples: Visual inspections will be conducted at the completion of the asbestos work. Asbestos air clearance samples shall be collected for all interior work.

3.04 LABORATORY ANALYSIS: The Qualified Consultant shall provide air monitoring results within the 3 days of sample collections to State.

3.05 DAILY TESTING RECORDS: At the conclusion of every day's testing, the Qualified Consultant shall have available copies of all air monitoring records of each work area for the Architect and/or HHSC Representative.

END OF SECTION

MALUHIA
REPLACE EXIT DOORS
FY23M-0121

1027 HALA DR.
HONOLULU, HAWAII 96817
T.M.K.: 01 - 06 - 09: 04

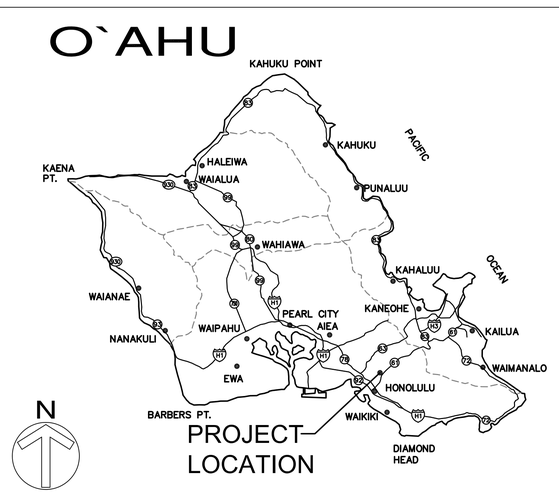
CONSULTANTS

ARCHITECT:
PACIFIC ARCHITECTS, INC.
2020 S. KING STREET
HONOLULU, HAWAII 96826
PHONE: (808) 949-1601
FAX: (808) 942-0054

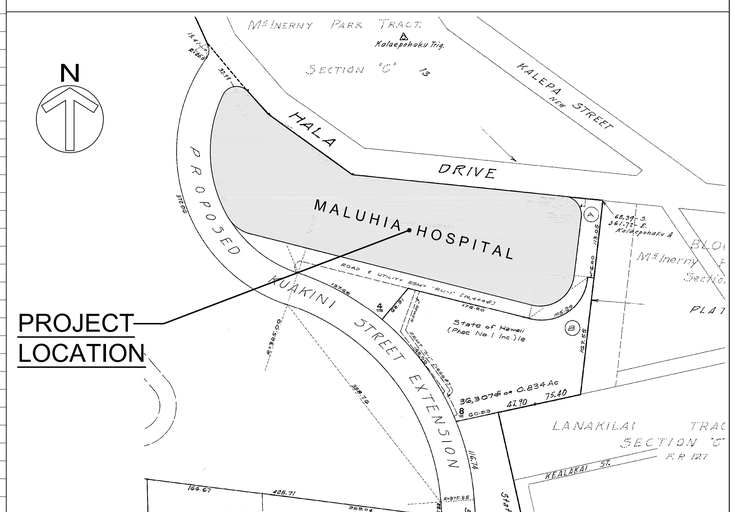
ENVIRONMENTAL ENGINEER:
ENVIROQUEST, INC.
98-029 HEKAHA ST. SUITE 21
AIEA, HAWAII 96701
PHONE: (808) 486-5881
FAX: (808) 486-5889

INDEX TO DRAWINGS

LOCATION MAP



VICINITY MAP



NOTES

GENERAL NOTES

1. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND READ THE SPECIFICATIONS AND ALL OTHER PROPOSED CONTRACT DOCUMENTS PRIOR TO SUBMITTAL OF HIS BID PROPOSAL. THE CONTRACTOR SHALL FULLY INFORM HIMSELF OF THE SCOPE OF THIS PROJECT PRIOR TO THE SUBMISSION OF HIS BID PROPOSAL AS TO ALL CONDITIONS AND LIMITATIONS UNDER WHICH THE WORK IS TO BE PERFORMED. HE SHALL INCLUDE IN HIS PROPOSAL, A SUM TO COVER ALL COSTS OF ITEMS NECESSARY TO PERFORM THE WORK AS SET FORTH IN THE PROPOSED CONTRACT DOCUMENTS. NO ALLOWANCE SHALL BE MADE TO THE CONTRACTOR DUE TO LACK OF SUCH KNOWLEDGE.
2. IF THE CONTRACTOR IS IN DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE PROPOSED CONTRACT DOCUMENTS, OR FINDS DISCREPANCIES IN OR OMISSIONS FROM ANY PART OF THE PROPOSED CONTRACT DOCUMENTS, HE MAY SUBMIT TO THE ARCHITECT A REQUEST FOR INTERPRETATION THEREOF.
3. ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS, REGULATIONS AND STANDARDS HAVING JURISDICTION OVER THIS PROJECT.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO FABRICATING AND/OR ORDERING MATERIALS.
5. ALL MATERIALS FOR THIS PROJECT SHALL BE NEW AND FREE FROM ANY AND ALL DEFECTS UNLESS SPECIFIED OTHERWISE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK AMONG THE VARIOUS TRADES AS NECESSARY TO AVOID CONFLICTS AND TO INSURE THAT THE INSTALLATION OF ALL WORK IS IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL BACKING, BLOCKING, BRACKETS, ETC. AS REQUIRED FOR THE PROPER AND SECURED INSTALLATION OF ALL MATERIALS AND PRODUCTS.
8. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY UPON ENCOUNTERING OR SUSPECTING ANY ADDITIONAL HAZARDOUS MATERIALS, ETC. DURING THE COURSE OF THIS PROJECT. THE CONTRACTOR IS NOT AUTHORIZED TO HANDLE, TEST, OR REMOVE SUCH ADDITIONAL MATERIALS WITHOUT SPECIFIC AUTHORIZATION FROM THE ARCHITECT.
9. THE CONTRACTOR WITH THE SUPERVISION OF THE ARCHITECT SHALL INSPECT AND NOTE ALL EXISTING DAMAGES PRIOR TO THE START OF WORK. ANY NEW DAMAGES RESULTING FROM THE CONSTRUCTION SHALL BE CORRECTED AT THE CONTRACTOR'S COST.
10. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFETY BARRICADE, AS NECESSARY , OR REQUIRED BY THE OWNER AND SHALL ASSURE SAFETY FOR THE PATIENTS, STAFF AND PUBLIC AT ALL TIMES.
11. THE CONTRACTOR SHALL REPORT ANY UNSATISFACTORY CONDITIONS AND/OR DISCREPANCIES TO THE ARCHITECT. FAILURE TO COMPLY WITH THIS CONDITION MAY RESULT IN PLACING ANY AND ALL RESPONSIBILITY, LIABILITY AND EXPENSE TO THE CONTRACTOR.
12. FIRE SAFETY DURING CONSTRUCTION, ALTERATION OR DEMOLITION SHALL COMPLY WITH THE 2003 IBC.
13. TO THE BEST OF OUR KNOWLEDGE THIS PROJECT CONFORMS TO ADA ACCESSIBILITY GUIDELINES.

PROJECT NOTES

1. THE INTENT OF THIS PROJECT IS TO REMOVE AND DISPOSE THE EXISTING EXIT DOORS AND REPLACE WITH NEW DOORS.
2. THE CONTRACTOR SHALL REMOVE AND REINSTALL APPURTENANCES AS NECESSARY TO ACCOMPLISH THE PROJECT'S INTENT.
3. THE CONTRACTOR SHALL COMPLY WITH ALL MALUHIA'S RULES AND REQUESTS AND SHALL INSURE MINIMAL DISRUPTION AND INCONVENIENCE TO STAFF AND RESIDENTS.
4. WORKING HOURS SHALL BE MONDAY TO FRIDAY, 7:00 AM TO 3:30 PM.

REV. NO.	DESCRIPTION	DATE

This work was prepared by me or under my supervision and construction of this project shall be under my observation.

Signature
LICENSE EXPIRES : APRIL 30, 2024

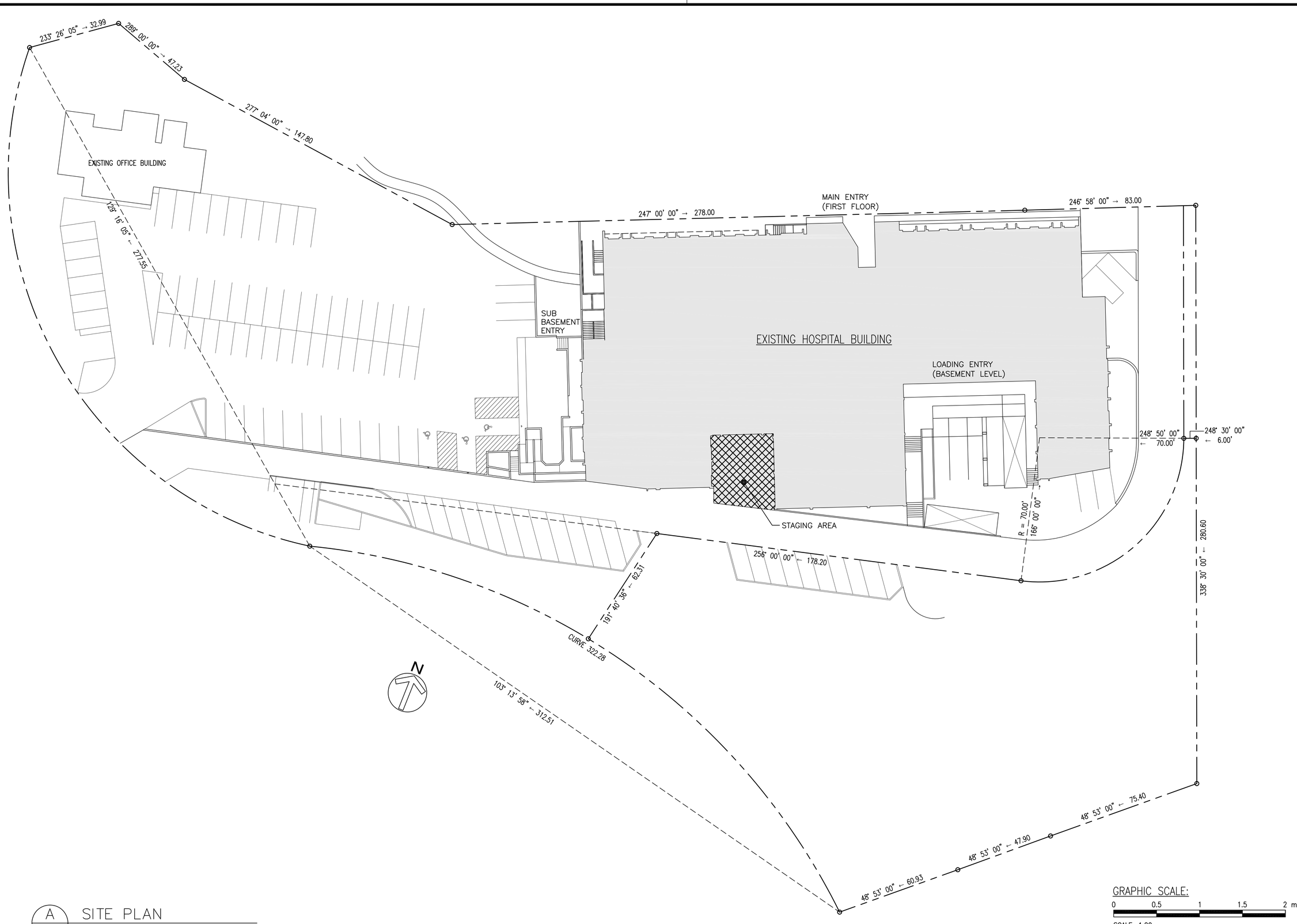
CLIFFORD K. MURAKAMI LICENSED PROFESSIONAL ARCHITECT NO. 6665 HAWAII, U.S.A.

Pacific Architects, Inc.
2020 South King Street
Honolulu, Hawaii 96826
808-949-1601
fax 808-942-0054

PROJECT TITLE
MALUHIA
REPLACE EXIT DOORS
1027 HALA DR.
HONOLULU, HI 96817
T.M.K.: 01 - 06 - 09: 04

SHEET TITLE TITLE SHEET, CONSULTANTS,INDEX TO DRAWINGS, LOCATION MAP, VICINITY MAP, GENERAL NOTES & PROJECT NOTES

DATE MARCH 2014
SCALE AS SHOWN
DRAWN GA/MM/MT CHECK DM
SHEET
T-1.0
OF SHEETS



A / A-1.0 SITE PLAN

SCALE: 1" = 20'-0"

REV. NO.	DESCRIPTION	DATE

This work was prepared by me or under my supervision and construction of this project shall be under my observation.

Signature

LICENSE EXPIRES : APRIL 30, 2024

CLIFFORD K. MURAKAMI LICENSED PROFESSIONAL ARCHITECT NO. 6665 HAWAII, USA

Pacific Architects, Inc.
2020 South King Street
Honolulu, Hawaii 96826
808-949-1601
fax 808-942-0054

PROJECT TITLE

MALUHIA
REPLACE EXIT DOORS
1027 HALA DR.
HONOLULU, HI 96817
T.M.K.: 01 – 06 – 09: 04

SHEET TITLE

SITE PLAN

DATE MARCH 2014
SCALE AS SHOWN
DRAWN GA/MM/MT CHECK DM

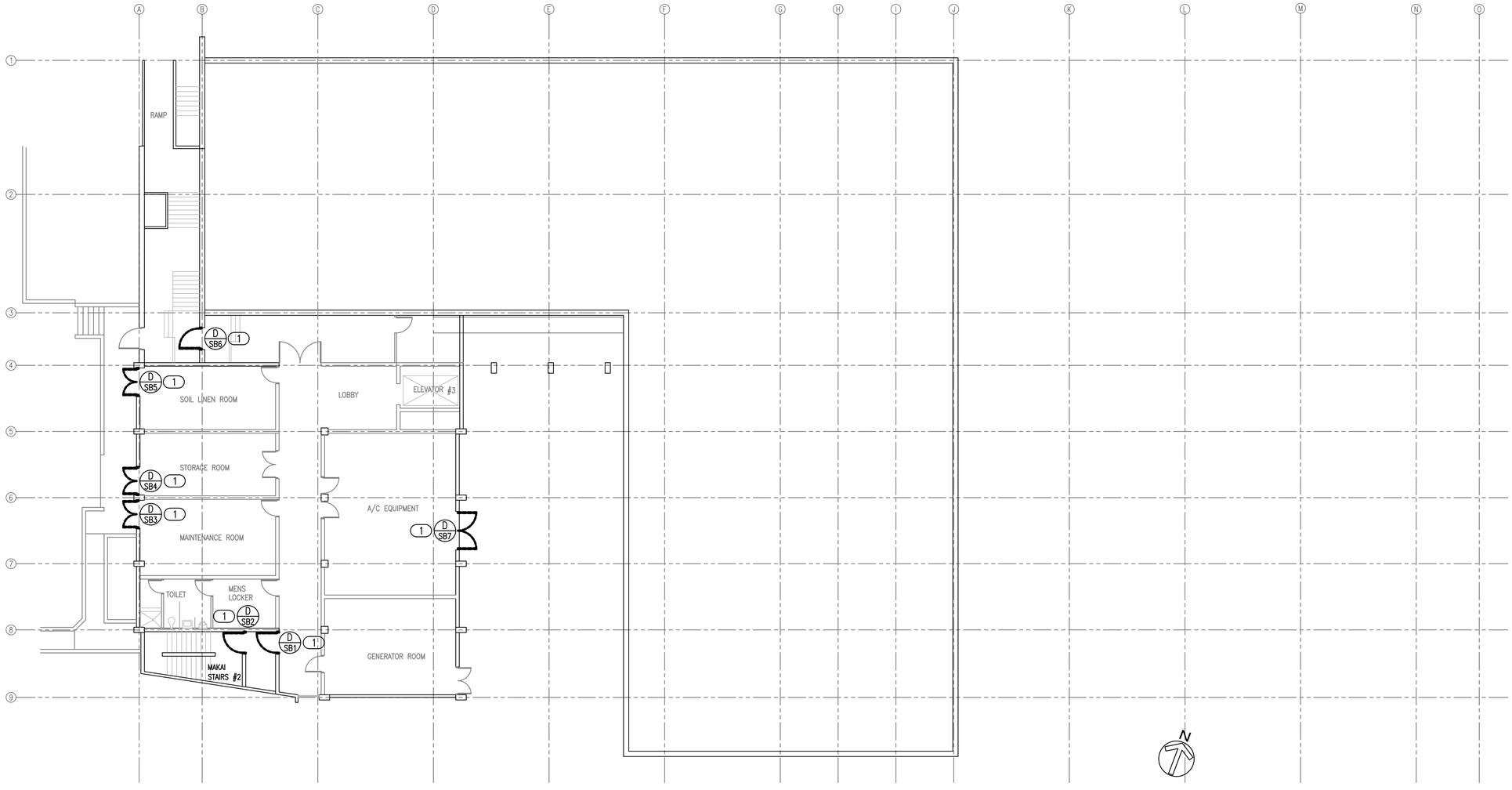
SHEET

A-1.0

2 OF ____ SHEETS

DEMO LEGEND

(1)	REMOVE & DISPOSE EXIST'G METAL DOOR & FRAME



A
A-2.0

SUB-BASEMENT PLAN - DEMO WORK

SCALE: 3/32" = 1'-0"

GRAPHIC SCALE:

0 8' 16' 32' 64' 128'

SCALE: 3/32" = 1'-0"

REV. NO.	DESCRIPTION	DATE

This work was prepared by me or under my supervision and construction of this project shall be under my observation.

Signature

LICENSE EXPIRES : APRIL 30, 2024

CLIFFORD K. MURAKAMI LICENSED PROFESSIONAL ARCHITECT NO. 6665 HAWAII, U.S.A.

Pacific Architects, Inc.
2020 South King Street
Honolulu, Hawaii 96826
808-949-1601
fax 808-942-0054

PROJECT TITLE

MALUHIA
REPLACE EXIT DOORS
1027 HALA DR.
HONOLULU, HI 96817
T.M.K.: 01 - 06 - 09: 04

SHEET TITLE

SUB-BASEMENT PLAN - DEMO WORK

DATE MARCH 2014

SCALE AS SHOWN

DRAWN GA/MM/MT CHECK DM

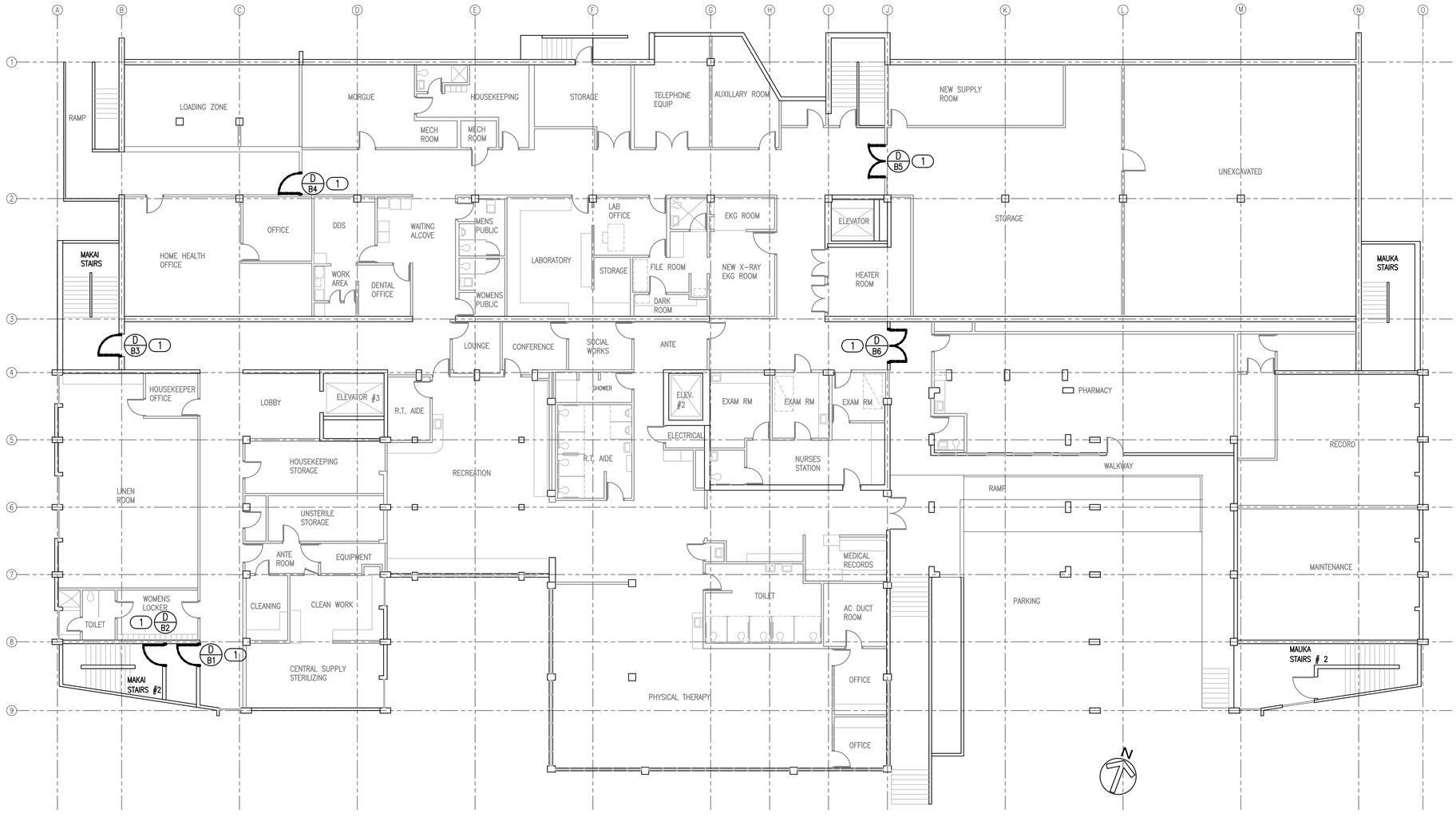
SHEET

A-2.0

____ OF ____ SHEETS

DEMO LEGEND

(1)	REMOVE & DISPOSE EXIST'G METAL DOOR & FRAME



A
A-2.1

BASEMENT PLAN – DEMO WORK

SCALE: 3/32" = 1'-0"

GRAPHIC SCALE:

0 8' 16' 32' 64' 128'

SCALE: 3/32" = 1'-0"

REV. NO.	DESCRIPTION	DATE

This work was prepared by me or under my supervision and construction of this project shall be under my observation.

Signature

LICENSE EXPIRES : APRIL 30, 2024

CLIFFORD K. MURAKAMI LICENSED PROFESSIONAL ARCHITECT NO. 6665 HAWAII, U.S.A.

Pacific Architects, Inc.
2020 South King Street
Honolulu, Hawaii 96826
808-949-1601
fax 808-942-0054

PROJECT TITLE

MALUHIA
REPLACE EXIT DOORS
1027 HALA DR.
HONOLULU, HI 96817
T.M.K.: 01 – 06 – 09: 04

SHEET TITLE

BASEMENT PLAN – DEMO WORK

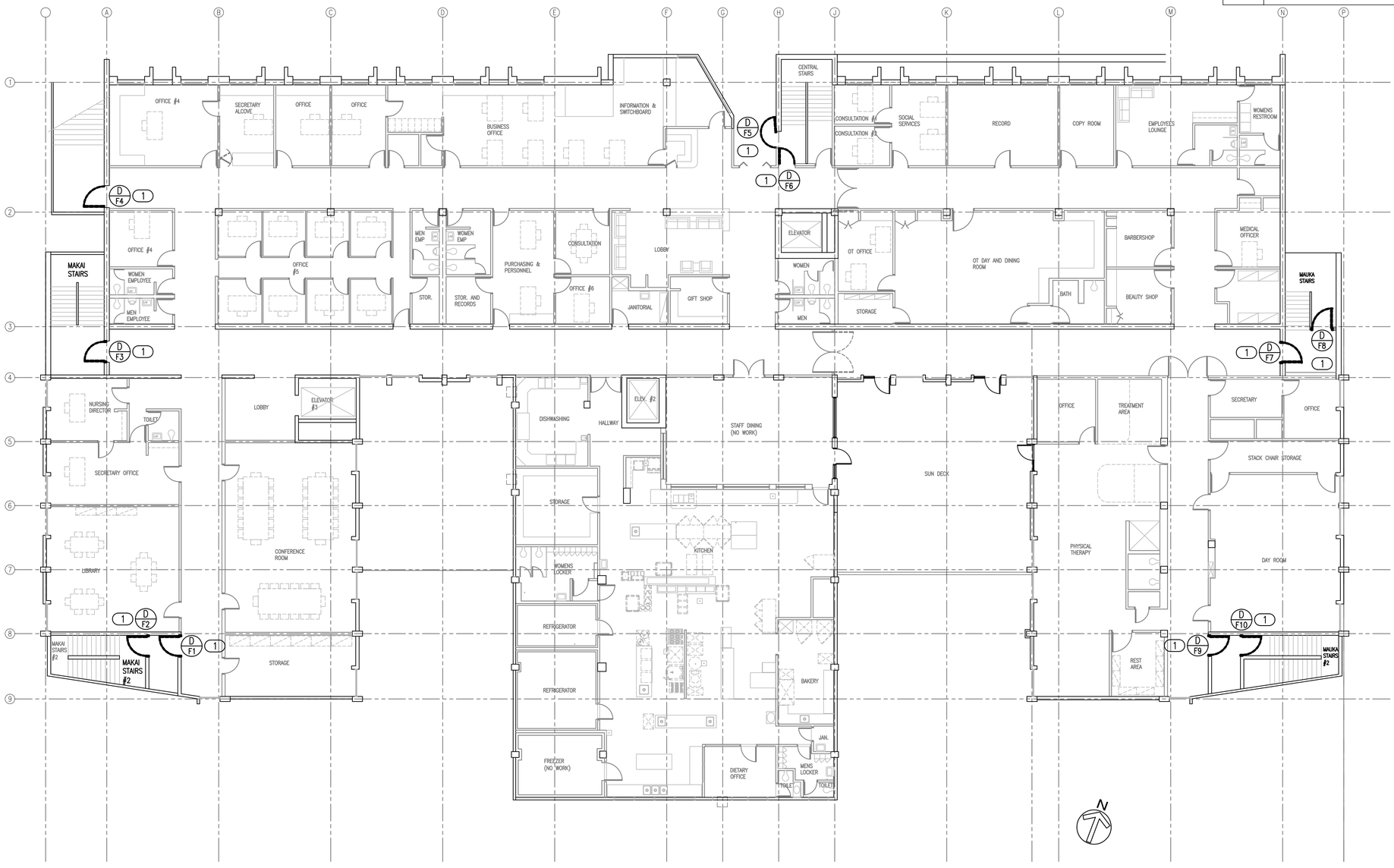
DATE MARCH 2014
SCALE AS SHOWN
DRAWN GA/MM/MT CHECK DM
SHEET

A-2.1

OF SHEETS

DEMO LEGEND

1	REMOVE & DISPOSE EXIST'G METAL DOOR & FRAME



A / A-2.2 FIRST FLOOR PLAN – DEMO WORK

SCALE: 3/32" = 1'-0"

GRAPHIC SCALE:

0 8' 16' 32' 64' 128'

SCALE: 3/32" = 1'-0"

REV. NO.	DESCRIPTION	DATE

This work was prepared by me or under my supervision and construction of this project shall be under my observation.

Signature

LICENSE EXPIRES : APRIL 30, 2024

CLIFFORD K. MURAKAMI LICENSED PROFESSIONAL ARCHITECT NO. 6065 HAWAII, U.S.A.

Pacific Architects, Inc.
2020 South King Street
Honolulu, Hawaii 96826
808-949-1601
fax 808-942-0054

PROJECT TITLE

MALUHIA
REPLACE EXIT DOORS
1027 HALA DR.
HONOLULU, HI 96817
T.M.K.: 01 – 06 – 09: 04

SHEET TITLE

FIRST FLOOR PLAN – DEMO WORK

DATE MARCH 2014
SCALE AS SHOWN
DRAWN GA/MM/MT CHECK DM

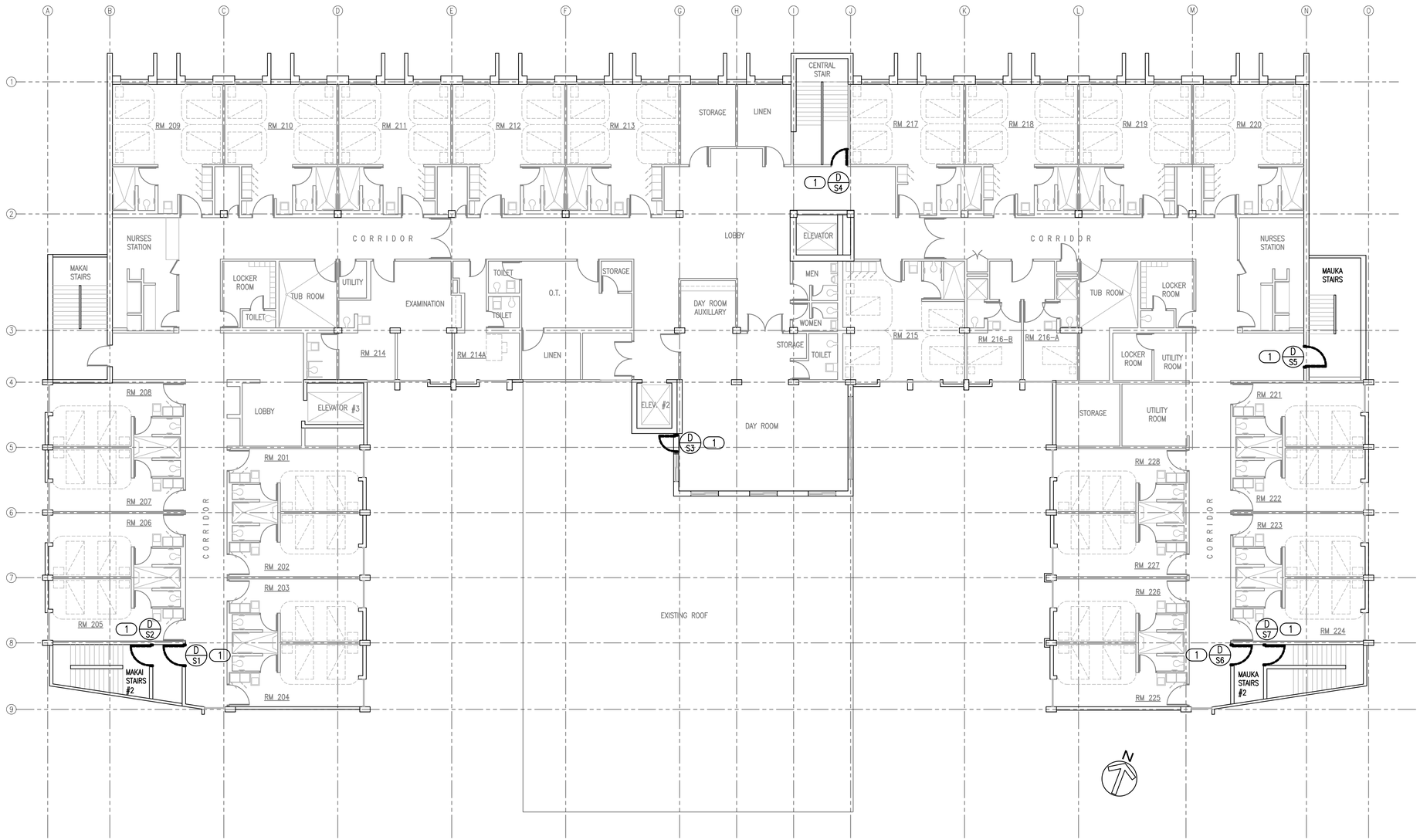
SHEET

A-2.2

____ OF ____ SHEETS

DEMO LEGEND

1	REMOVE & DISPOSE EXIST'G METAL DOOR & FRAME



A
A–2.3

SECOND FLOOR PLAN – DEMO WORK

SCALE: 3/32" = 1'–0"

GRAPHIC SCALE:

0 8' 16' 32' 64' 128'

SCALE: 3/32" = 1'–0"

DATE

DESCRIPTION

REV. NO.

This work was prepared by me or under my supervision and construction of this project shall be under my supervision.

Signature

LICENSE EXPIRES : APRIL 30, 2024

CLIFFORD K. MURAKAMI LICENSED PROFESSIONAL ARCHITECT NO. 6665 HAWAII, U.S.A.

Pacific Architects, Inc.
2020 South King Street
Honolulu, Hawaii 96826
808-949-1601
fax 808-942-0054

PROJECT TITLE

MALUHIA
REPLACE EXIT DOORS
1027 HALA DR.
HONOLULU, HI 96817
T.M.K.: 01 – 06 – 09: 04

SHEET TITLE

SECOND FLOOR PLAN – DEMO WORK

DATE MARCH 2014

SCALE AS SHOWN

DRAWN GA/MM/MT CHECK DM

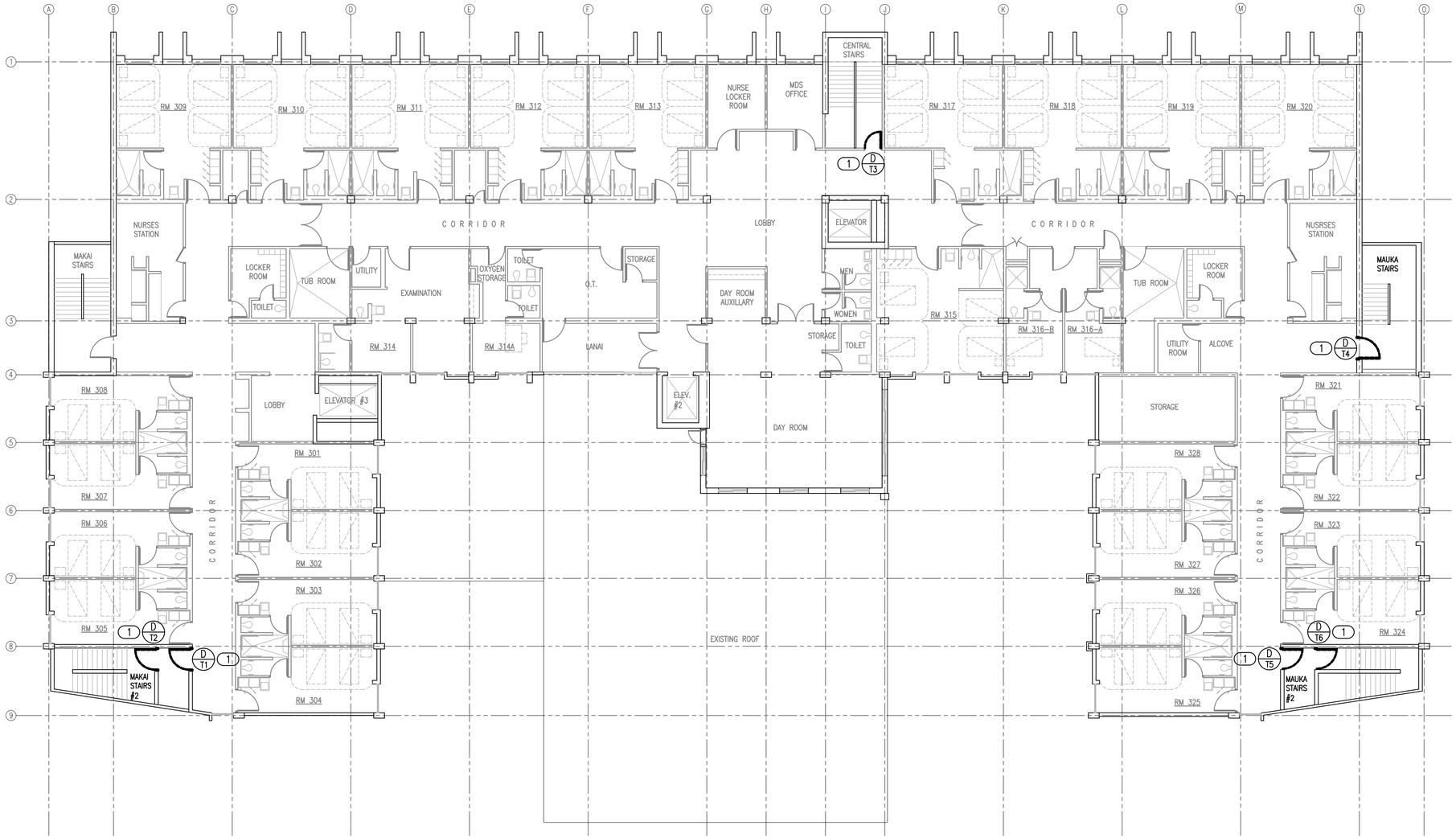
SHEET

A-2.3

OF SHEETS

DEMO LEGEND

1	REMOVE & DISPOSE EXIST'G METAL DOOR & FRAME



A
A-2.4

THIRD FLOOR PLAN – DEMO WORK

SCALE: 3/32" = 1'-0"

N

GRAPHIC SCALE:

0 8' 16' 32' 64' 128'

SCALE: 3/32" = 1'-0"

REV. NO.	DESCRIPTION	DATE

This work was prepared by me or under my supervision and construction of this project shall be under my observation.

Signature

LICENSE EXPIRES : APRIL 30, 2024

CLIFFORD K. MURAKAMI LICENSED PROFESSIONAL ARCHITECT NO. 6665 HAWAII, U.S.A.

Pacific Architects, Inc.
2020 South King Street
Honolulu, Hawaii 96826
808-949-1601
fax 808-942-0054

PROJECT TITLE

MALUHIA
REPLACE EXIT DOORS
1027 HALA DR.
HONOLULU, HI 96817
T.M.K.: 01 – 06 – 09: 04

SHEET TITLE

THIRD FLOOR PLAN – DEMO WORK

DATE MARCH 2014
SCALE AS SHOWN
DRAWN GA/MM/MT CHECK DM

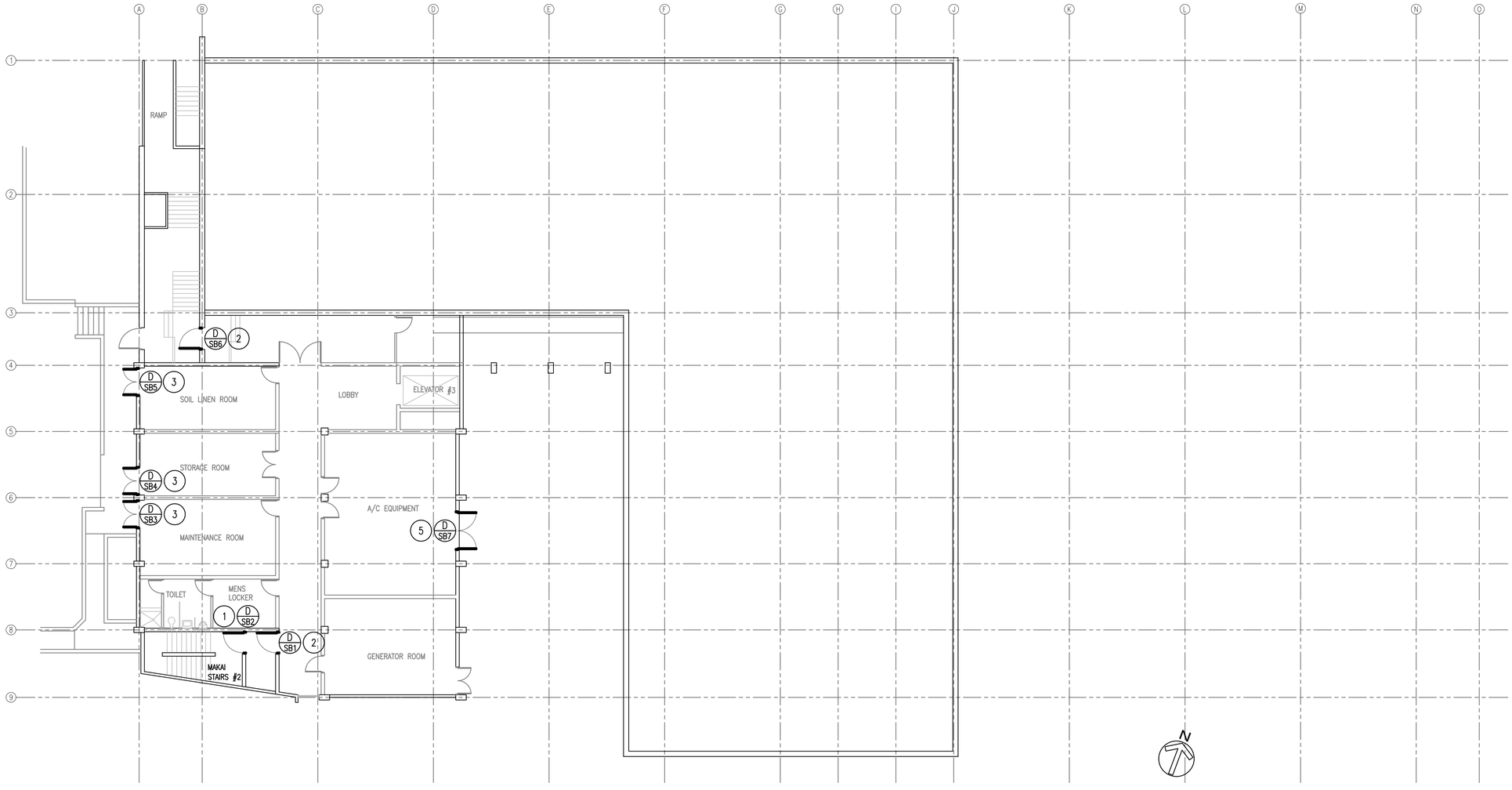
SHEET

A-2.4

OF SHEETS

NEW WORK LEGEND

1	NEW FIRE RATED METAL DOOR & FRAME. SEE SHT. A-4.0
2	NEW FIRE RATED METAL DOOR & FRAME w/VISION PANEL. SEE SHT. A-4.0
3	NEW FIRE RATED DOUBLE METAL DOOR & FRAME. SEE SHT. A-4.0
4	NEW FIRE RATED DOUBLE METAL DOOR & FRAME w/VISION PANEL. SEE SHT. A-4.0
5	NEW LOUVERED METAL DOOR & FRAME. SEE SHT. A-4.0



A / A-3.0 SUB-BASEMENT PLAN - NEW WORK

SCALE: 3/32" = 1'-0"

GRAPHIC SCALE:

0 8' 16' 32' 64' 128'

SCALE: 3/32" = 1'-0"

REV. NO.	DESCRIPTION	DATE

This work was prepared by me or under my supervision and construction of this project will be under my observation.

Signature

LICENSE EXPIRES : APRIL 30, 2024

CLIFFORD K. MURAKAMI LICENSED PROFESSIONAL ARCHITECT NO. 6665 HAWAII, U.S.A.

Pacific Architects, Inc.
2020 South King Street
Honolulu, Hawaii 96826
808-949-1601
fax 808-942-0054

PROJECT TITLE

MALUHIA
REPLACE EXIT DOORS
1027 HALA DR.
HONOLULU, HI 96817
T.M.K.: 01 – 06 – 09: 04

SHEET TITLE

SUB-BASEMENT PLAN - NEW WORK

DATE MARCH 2014

SCALE AS SHOWN

DRAWN GA/MM/MT CHECK DM

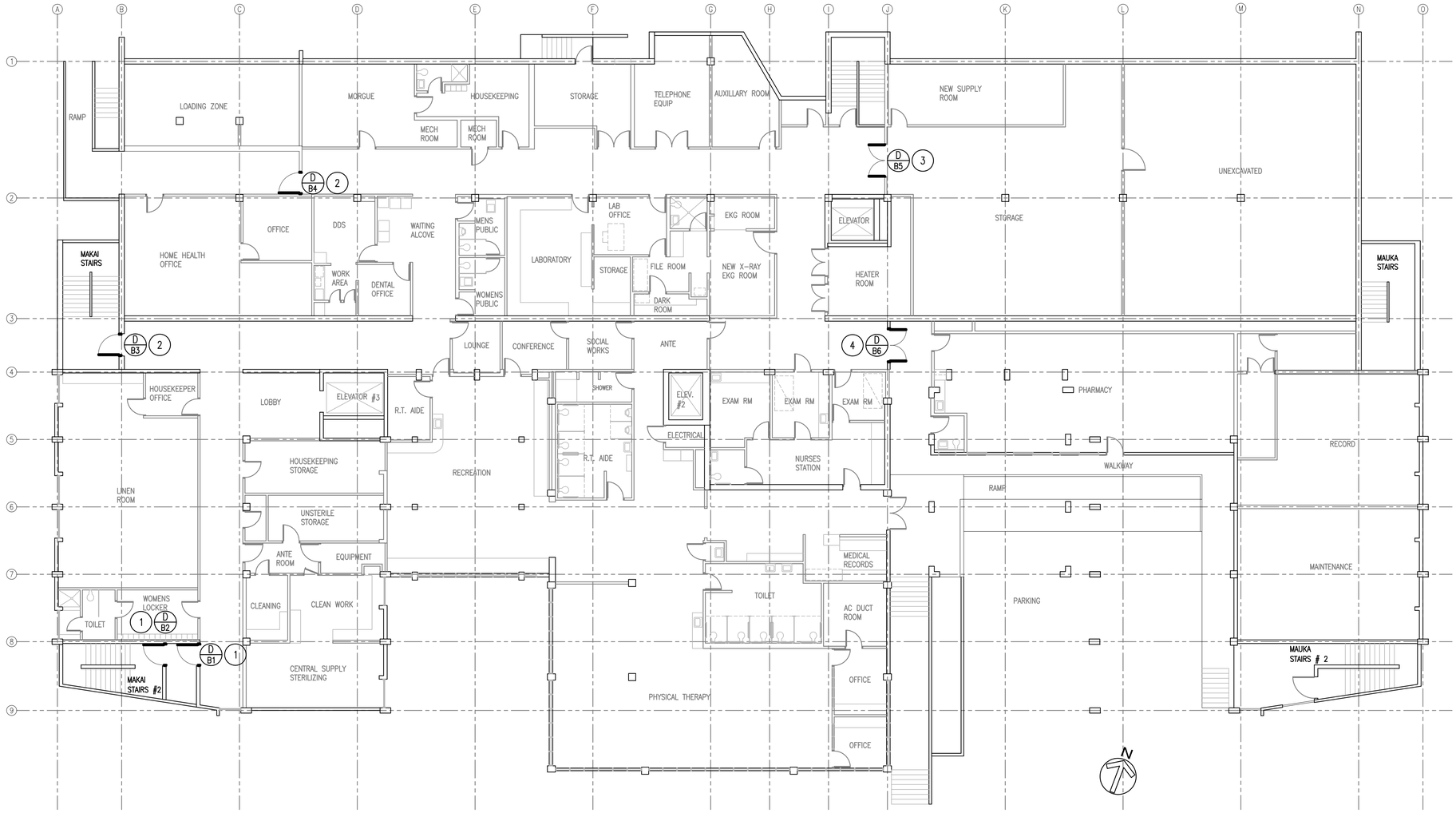
SHEET

A-3.0

____ OF ____ SHEETS

NEW WORK LEGEND

1	NEW FIRE RATED METAL DOOR & FRAME. SEE SHT. A–4.0
2	NEW FIRE RATED METAL DOOR & FRAME w/VISION PANEL. SEE SHT. A–4.0
3	NEW FIRE RATED DOUBLE METAL DOOR & FRAME. SEE SHT. A–4.0
4	NEW FIRE RATED DOUBLE METAL DOOR & FRAME w/VISION PANEL. SEE SHT. A–4.0
5	NEW LOUVERED METAL DOOR & FRAME. SEE SHT. A–4.0



A
A–3.1

BASEMENT PLAN – NEW WORK

SCALE: 3/32" = 1'–0"

GRAPHIC SCALE:

0 8' 16' 32' 64' 128'

SCALE: 3/32" = 1'–0"

REV. NO.	DESCRIPTION	DATE

This work was prepared by me or under my supervision and construction of this project will be under my observation.

Signature

LICENSE EXPIRES : APRIL 30, 2024

CLIFFORD K. MURAKAMI LICENSED PROFESSIONAL ARCHITECT NO. 6665 HAWAII, USA

Pacific Architects, Inc.
2020 South King Street
Honolulu, Hawaii 96826
808-949-1601
fax 808-942-0054

PROJECT TITLE

MALUHIA
REPLACE EXIT DOORS
1027 HALA DR.
HONOLULU, HI 96817
T.M.K.: 01 – 06 – 09: 04

SHEET TITLE

BASEMENT PLAN – NEW WORK

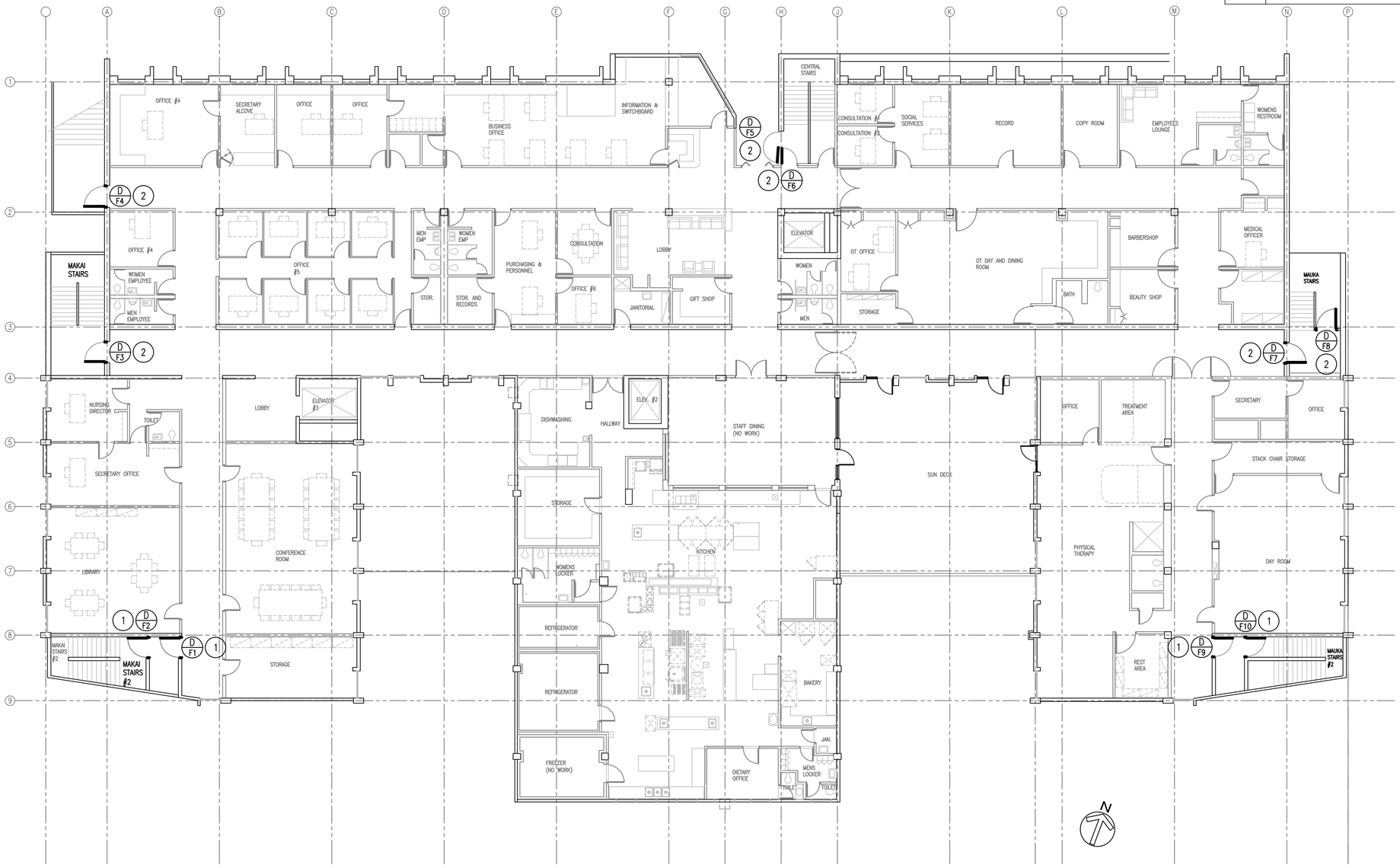
DATE MARCH 2014
SCALE AS SHOWN
DRAWN GA/MM/MT CHECK DM
SHEET

A-3.1

OF SHEETS

NEW WORK LEGEND

1	NEW FIRE RATED METAL DOOR & FRAME. SEE SHT. A–4.0
2	NEW FIRE RATED METAL DOOR & FRAME w/VISION PANEL. SEE SHT. A–4.0
3	NEW FIRE RATED DOUBLE METAL DOOR & FRAME. SEE SHT. A–4.0
4	NEW FIRE RATED DOUBLE METAL DOOR & FRAME w/VISION PANEL. SEE SHT. A–4.0
5	NEW LOUVERED METAL DOOR & FRAME. SEE SHT. A–4.0



A / A–3.2 FIRST FLOOR PLAN – NEW WORK

SCALE: 3/32" = 1'–0"

GRAPHIC SCALE:

0 8' 16' 32' 64' 128'

SCALE: 3/32" = 1'–0"

REV. NO.	DESCRIPTION	DATE

This work was prepared by me or under my supervision and construction of this project shall be under my observation.

Signature

LICENSE EXPIRES : APRIL 30, 2024

CLIFFORD K. MURAKAMI LICENSED PROFESSIONAL ARCHITECT NO. 6065 HAWAII, U.S.A.

Pacific Architects, Inc.
2020 South King Street
Honolulu, Hawaii 96826
808-949-1601
fax 808-942-0054

PROJECT TITLE

MALUHIA
REPLACE EXIT DOORS
1027 HALA DR.
HONOLULU, HI 96817
T.M.K.: 01 – 06 – 09: 04

SHEET TITLE

FIRST FLOOR PLAN – NEW WORK

DATE MARCH 2014

SCALE AS SHOWN

DRAWN GA/MM/MT CHECK DM

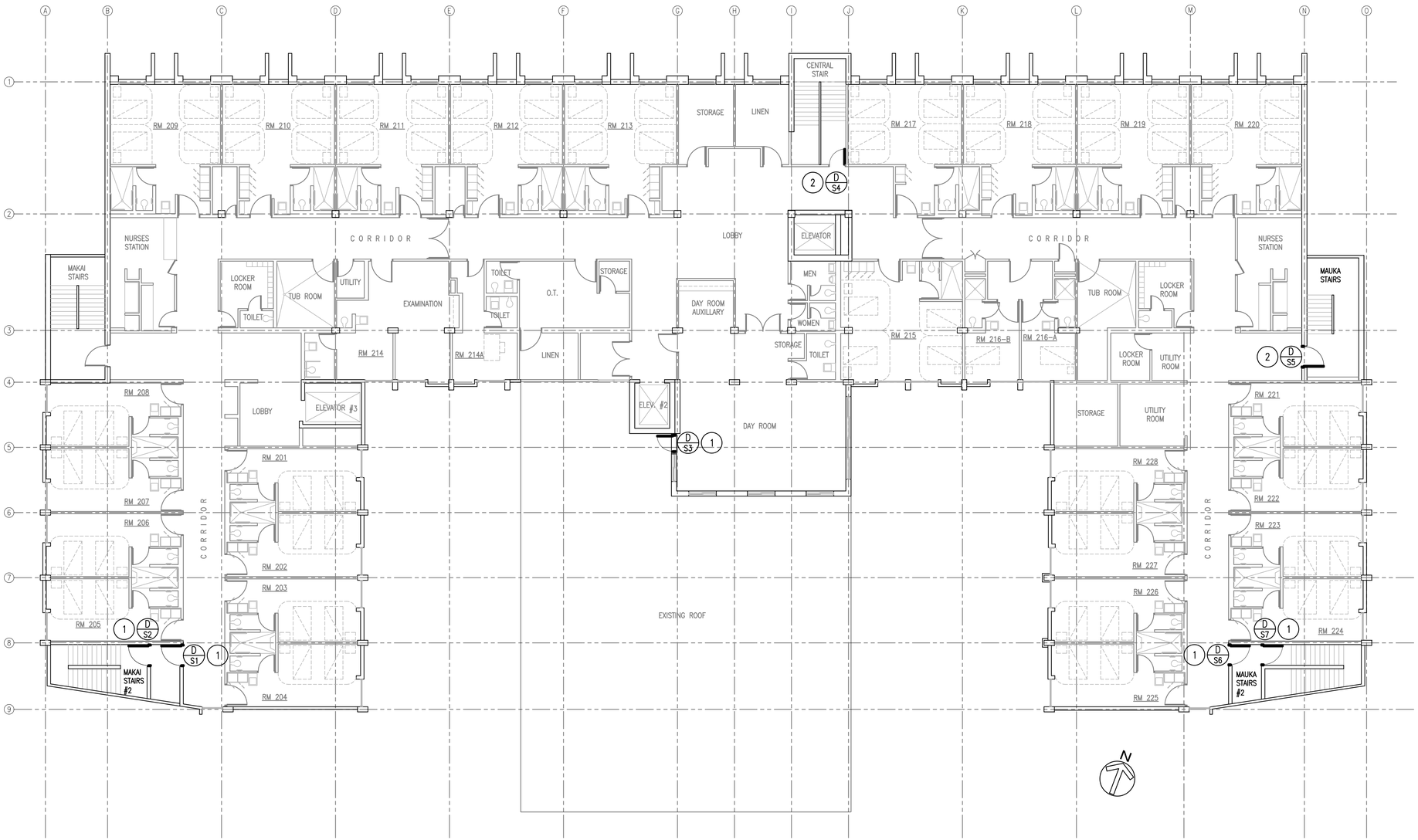
SHEET

A-3.2

____ OF ____ SHEETS

NEW WORK LEGEND

1	NEW FIRE RATED METAL DOOR & FRAME. SEE SHT. A-4.0
2	NEW FIRE RATED METAL DOOR & FRAME w/VISION PANEL. SEE SHT. A-4.0
3	NEW FIRE RATED DOUBLE METAL DOOR & FRAME. SEE SHT. A-4.0
4	NEW FIRE RATED DOUBLE METAL DOOR & FRAME w/VISION PANEL. SEE SHT. A-4.0
5	NEW LOUVERED METAL DOOR & FRAME. SEE SHT. A-4.0



A
A-3.3

SECOND FLOOR PLAN – NEW WORK

SCALE: 3/32" = 1'-0"

GRAPHIC SCALE:

0 8' 16' 32' 64' 128'

SCALE: 3/32" = 1'-0"

REV. NO.	DESCRIPTION	DATE

This work was prepared by me or under my supervision and construction of this project will be under my observation.

Signature

LICENSE EXPIRES : APRIL 30, 2024

CLIFFORD K. MURAKAMI LICENSED PROFESSIONAL ARCHITECT NO. 6665 HAWAII, USA

Pacific Architects, Inc.
2020 South King Street
Honolulu, Hawaii 96826
808-949-1601
fax 808-942-0054

PROJECT TITLE

MALUHIA
REPLACE EXIT DOORS
1027 HALA DR.
HONOLULU, HI 96817
T.M.K.: 01 – 06 – 09: 04

SHEET TITLE

SECOND FLOOR PLAN – NEW WORK

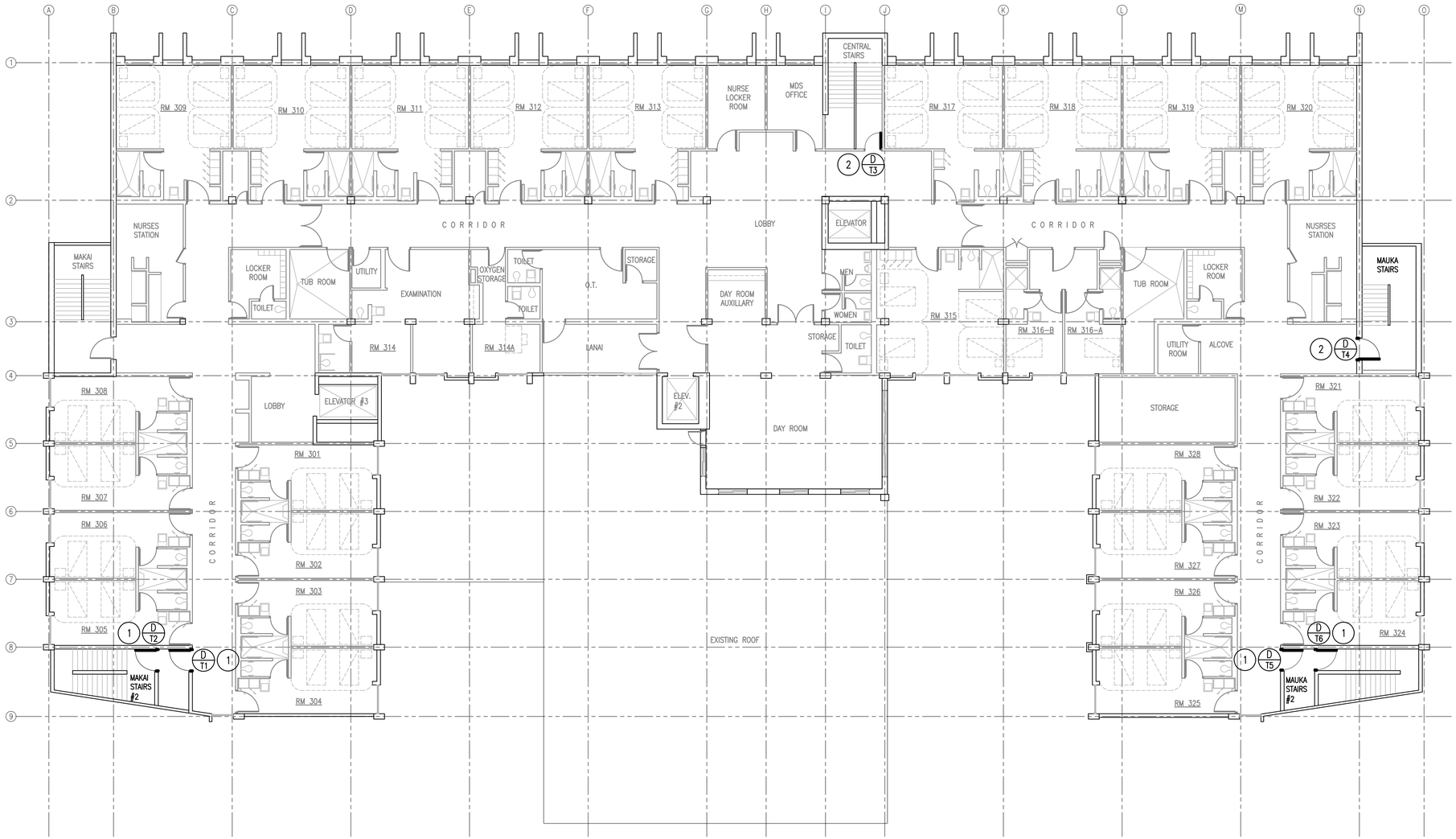
DATE MARCH 2014
SCALE AS SHOWN
DRAWN GA/MM/MT CHECK DM
SHEET

A-3.3

OF SHEETS

NEW WORK LEGEND

1	NEW FIRE RATED METAL DOOR & FRAME. SEE SHT. A–4.0
2	NEW FIRE RATED METAL DOOR & FRAME w/VISION PANEL. SEE SHT. A–4.0
3	NEW FIRE RATED DOUBLE METAL DOOR & FRAME. SEE SHT. A–4.0
4	NEW FIRE RATED DOUBLE METAL DOOR & FRAME w/VISION PANEL. SEE SHT. A–4.0
5	NEW LOUVERED METAL DOOR & FRAME. SEE SHT. A–4.0



A
A–3.4

THIRD FLOOR PLAN – NEW WORK

SCALE: 3/32" = 1'–0"

N

GRAPHIC SCALE:

0 8' 16' 32' 64' 128'

SCALE: 3/32" = 1'–0"

REV. NO.	DESCRIPTION	DATE

This work was prepared by me or under my supervision and construction of this project shall be under my observation.

Signature

LICENSE EXPIRES : APRIL 30, 2024

CLIFFORD K. MURAKAMI LICENSED PROFESSIONAL ARCHITECT NO. 6665 HAWAII, U.S.A.

Pacific Architects, Inc.
2020 South King Street
Honolulu, Hawaii 96826
808-949-1601
fax 808-942-0054

PROJECT TITLE

MALUHIA
REPLACE EXIT DOORS
1027 HALA DR.
HONOLULU, HI 96817
T.M.K.: 01 – 06 – 09: 04

SHEET TITLE

THIRD FLOOR PLAN – NEW WORK

DATE MARCH 2014
SCALE AS SHOWN
DRAWN GA/MM/MT CHECK DM
SHEET

A-3.4

____ OF ____ SHEETS

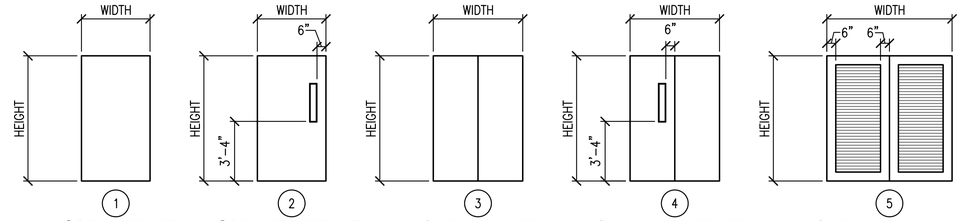
DOOR SCHEDULE

	DOOR NO.	SIZE WIDTH	SIZE HEIGHT	SIZE THK	DOOR TYPE	CONST. TYPE	HARDWARE NO.	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	REMARKS
SUB-BASEMENT	D/SB1	3'-10"	7'-0"	1 ¾"	2	M	001	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	4"x25" VISION PANEL
	D/SB2	3'-10"	7'-0"	1 ¾"	1	M	002	B/A-4.0	B/A-4.0 SIM.		NO THRESHOLD
	D/SB3	5'-0"	7'-0"	1 ¾"	3	M	011	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	
	D/SB4	5'-0"	7'-0"	1 ¾"	3	M	011	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	
	D/SB5	5'-0"	7'-0"	1 ¾"	3	M	011	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	
	D/SB6	3'-7½"	7'-0"	1 ¾"	2	M	003	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	4"x25" VISION PANEL
	D/SB7	7'-0"	6'-10"	1 ¾"	5	M	004	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	
BASEMENT	D/B1	3'-10"	7'-0"	1 ¾"	1	M	001	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	
	D/B2	3'-10"	7'-0"	1 ¾"	1	M	002	B/A-4.0	B/A-4.0 SIM.		NO THRESHOLD
	D/B3	3'-8"	7'-0"	1 ¾"	2	M	003	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	4"x25" VISION PANEL
	D/B4	4'-0"	7'-0"	1 ¾"	2	M	003	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	4"x25" VISION PANEL
	D/B5	6'-0"	7'-0"	1 ¾"	3	M	005	B/A-4.0	B/A-4.0 SIM.		
	D/B6	6'-0"	7'-0"	1 ¾"	4	M	006	B/A-4.0	B/A-4.0 SIM.		
FIRST FLOOR	D/F1	3'-10"	7'-0"	1 ¾"	1	M	001	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	
	D/F2	3'-10"	7'-0"	1 ¾"	1	M	002	B/A-4.0	B/A-4.0 SIM.		NO THRESHOLD
	D/F3	3'-7½"	7'-0"	1 ¾"	2	M	003	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	4"x25" VISION PANEL
	D/F4	4'-0"	7'-0"	1 ¾"	2	M	007	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	4"x25" VISION PANEL
	D/F5	3'-0"	7'-0"	1 ¾"	2	M	008	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	
	D/F6	3'-0"	7'-0"	1 ¾"	2	M	001	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	4"x25" VISION PANEL
	D/F7	3'-10"	7'-0"	1 ¾"	2	M	001	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	4"x25" VISION PANEL
	D/F8	3'-10"	7'-0"	1 ¾"	2	M	009	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	4"x25" VISION PANEL
	D/F9	3'-10"	7'-0"	1 ¾"	1	M	001	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	
	D/F10	3'-10"	7'-0"	1 ¾"	1	M	002	B/A-4.0	B/A-4.0 SIM.		NO THRESHOLD
SECOND FLOOR	D/S1	3'-10"	7'-0"	1 ¾"	1	M	001	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	
	D/S2	3'-10"	7'-0"	1 ¾"	1	M	002	B/A-4.0	B/A-4.0 SIM.		NO THRESHOLD
	D/S3	3'-0"	7'-0"	1 ¾"	2	M	010	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	4"x25" VISION PANEL
	D/S4	3'-0"	7'-0"	1 ¾"	2	M	002	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	4"x25" VISION PANEL
	D/S5	4'-0"	7'-0"	1 ¾"	1	M	002	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	
	D/S6	3'-10"	7'-0"	1 ¾"	1	M	001	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	
	D/S7	3'-10"	7'-0"	1 ¾"	1	M	002	B/A-4.0	B/A-4.0 SIM.		NO THRESHOLD
THIRD FLOOR	D/T1	3'-10"	7'-0"	1 ¾"	1	M	001	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	
	D/T2	3'-10"	7'-0"	1 ¾"	1	M	002	B/A-4.0	B/A-4.0 SIM.		NO THRESHOLD
	D/T3	3'-0"	7'-0"	1 ¾"	2	M	002	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	4"x25" VISION PANEL
	D/T4	4'-0"	7'-0"	1 ¾"	2	M	002	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	4"x25" VISION PANEL
	D/T5	3'-10"	7'-0"	1 ¾"	1	M	001	B/A-4.0	B/A-4.0 SIM.	C/A-4.0	
	D/T6	3'-10"	7'-0"	1 ¾"	1	M	002	B/A-4.0	B/A-4.0 SIM.		NO THRESHOLD

DOOR ABBREVIATIONS:

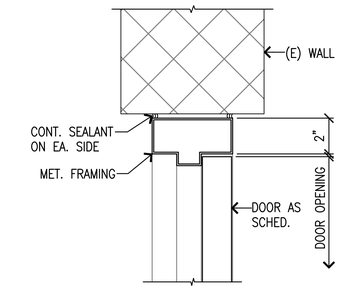
M METAL

NOTE:
CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS & ROUGH OPENINGS PRIOR TO ORDERING & INSTALLING NEW DOORS & FRAMES.



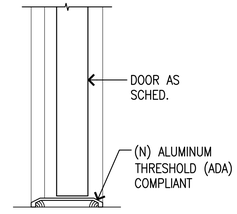
A A-4.0 DOOR TYPES

SCALE: 1/4" = 1'-0"



B A-4.0 HEAD DETAIL (JAMB SIM.)

SCALE: 3" = 1'-0"



C A-4.0 THRESHOLD DETAIL

SCALE: 3" = 1'-0"

GRAPHIC SCALE:

0 1' 2' 4' 8' 12'

SCALE: 1/4" = 1'-0"

0 1" 2" 3" 6" 9" 1'

SCALE: 3" = 1'-0"

DATE

DESCRIPTION

REV. NO.

This work was prepared by me or under my supervision and construction of this project shall be under my observation.

Signature

LICENSE EXPIRES : APRIL 30, 2024

CLIFFORD K. MURAKAMI LICENSED PROFESSIONAL ARCHITECT NO. 6665 HAWAII, USA

Pacific Architects, Inc.
2020 South King Street
Honolulu, Hawaii 96826
808-949-1601
fax 808-942-0054

PROJECT TITLE

MALUHIA
REPLACE EXIT DOORS
1027 HALA DR.
HONOLULU, HI 96817
T.M.K.: 01 – 06 – 09: 04

SHEET TITLE

DOOR SCHEDULE, DOOR TYPE & DETAILS

DATE MARCH 2014

SCALE AS SHOWN

DRAWN GA/MM/MT CHECK DM

SHEET

A-4.0

____ OF ____ SHEETS