

Invitation for Bids

**Leahi Hospital Replace Generator Atherton
26L-0515**

The Hawaii Health Systems Corporation (HHSC) Oahu Region is requesting bids from qualified companies for the replacing of the generator at the Atherton Building at Leahi Hospital located at 3675 Kilauea Ave., Honolulu, HI 96816.

The IFB may be obtained electronically from the following website:

<http://leahi.hhsc.org/procurement/notices/>

A site visit is scheduled for July 14, 2026 at 10:30 a.m. All interested companies shall meet in the Leahi Hospital Parking Lot entrance area. The deadline for submission of written/emailed questions pertaining to the IFB is July 21, 2026.

All bids must be received by HHSC by August 4, 2026, 2:00 p.m. Hawaii Standard Time. All bids shall be sent digitally to oahucip@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 Michael Nakada, Oahu Region Facilities Operations Manager, at (808) 767-0526 or by email at mnakada@hhsc.org.

Leahi Hospital
3675 Kilauea Ave.
Honolulu, HI 96816

TABLE OF CONTENTS

	<u>Page No.</u>
SECTION 1: ADMINISTRATION	3
SECTION 2: SCOPE OF SERVICES	7
SECTION 3: BID PROPOSAL AND GENERAL CONDITIONS.....	8
SECTION 4: BID EVALUATION AND AWARD	12
APPENDIX A: BID TRANSMITTAL COVER LETTER	
APPENDIX B: BID PROPOSAL	
APPENDIX C: SPECIFICATIONS and DRAWINGS	

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	July 7, 2026
2.	Pre-Bid Orientation Leahi Hospital parking lot entrance 10:30 a.m.	July 14, 2026
3.	Closing Date for Receipt of Questions	July 21, 2026
4.	Closing Date for Receipt of Bids 2:00 p.m.	August 4, 2026
5.	Contractor Selection/Award Notification (on/about)	August 5, 2026
6.	Contract Start Date (on/about)	September 5, 2026

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:

Sean Sanada
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 administering/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:

Michael Nakada
Oahu Region Facilities Operations Manager
e-mail: mnakada@hhsc.org
phone: (808) 767-0526

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 HHSC General and Special Terms and Conditions (<https://www.hhsc.org/procurement/>) 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:

Michael Nakada, Issuing Officer
e-mail: mnakada@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:

Sean Sanada
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. All bids shall be submitted to the Issuing Officer.
- B. 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.
- C. 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

LEAHI HOSPITAL REPLACE GENERATOR ATHERTON

Work for this project shall include, but is not limited to the demolition and replacement of the generator in the Atherton Building, and miscellaneous work as indicated on the drawings.

2.1 CONTRACT PERIOD

The work shall be completed within 365 consecutive calendar days. 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 \$500.00 per calendar day of delay.

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. HHSC 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 within 60 calendar days or upon execution of the Contract agreement by both parties. HHSC 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 HHSC 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 State of Hawaii 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.gov/campaign.

(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)

SAMPLE BID TRANSMITTAL COVER LETTER

Dear Mr. Nakada,

(Name of Business) proposes to provide any and all goods and services as set forth in the "Invitation for Bid" for Leahi Hospital Replace Generator Atherton IFB No. 26L-0515, for which fees/costs have been set. The fees/costs offered herein shall apply from June, 2026 to December, 2026.

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. 26L-0515
Leahi Hospital Replace Generator Atherton**

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 _____
Date

Addendum No. 3 _____

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 <u>Lump Sum Base Bid</u>	<u>License Number</u>	<u>Nature and Scope of Work to be Performed</u>

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

**LEAHI HOSPITAL
REPLACE GENERATOR
ATHERTON**

3675 KILAUEA AVENUE
HONOLULU, OAHU, HAWAII

TMK: 3-2-031:001

FOR THE
HAWAII HEALTH SYSTEMS CORPORATION (HHSC)
STATE OF HAWAII

ELECTRICAL ENGINEER: ELECTECH HAWAII, INC.

JANUARY 2026

TABLE OF CONTENTS

TABLE OF CONTENTS	1
<u>DIVISION 0 – BIDDING AND CONTRACT REQUIREMENTS</u>	
Section 00210 – INSTRUCTIONS TO BIDDERS	1-8
Section 00800 – SPECIAL PROVISIONS	1-4
<u>DIVISION 1 - GENERAL REQUIREMENTS</u>	
Section 01019 - GENERAL PROJECT REQUIREMENTS	1-9
Section 01100 – SUMMARY	1-5
Section 01140 – WORK RESTRICTIONS	1-2
Section 01300 - SUBMITTALS	1-4
Section 01577 - POLLUTION CONTROL	1-3
<u>DIVISION 2 - SITE WORK (NOT USED)</u>	
<u>DIVISION 3 – CONCRETE (NOT USED)</u>	
<u>DIVISION 4 – MASONRY (NOT USED)</u>	
<u>DIVISION 5 – METAL (NOT USED)</u>	
<u>DIVISION 6 - WOOD AND PLASTICS (NOT USED)</u>	
<u>DIVISION 7 - THERMAL AND MOISTURE PROTECTION (NOT USED)</u>	
<u>DIVISION 8 – DOORS AND WINDOWS (NOT USED)</u>	
<u>DIVISION 9 – FINISHES (NOT USED)</u>	
<u>DIVISION 10 – SPECIALTIES (NOT USED)</u>	
<u>DIVISION 11 – EQUIPMENT (NOT USED)</u>	
<u>DIVISION 12 – FURNISHINGS (NOT USED)</u>	
<u>DIVISION 13 – SPECIAL CONSTRUCTION</u>	
<u>DIVISION 14 – CONVEYING SYSTEMS (NOT USED)</u>	
<u>DIVISION 15 – MECHANICAL (NOT USED)</u>	
<u>DIVISION 16 – ELECTRICAL</u>	
Section 16010 – GENERAL ELECTRICAL REQUIREMENTS	1-7
Section 16210 – ENGINE GENERATOR	1-9

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 is 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 00700 – General Conditions" and "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 to the bidders at the Contracts Manager’s office. 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 Project Architect. 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 CONDCTIONS 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. For projects with alternates, the total lump sum base bid price and alternates will be adjusted to reflect the applicable preferences.
- 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 OF INSTRUCTIONS 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 Section 6.3 Substitution of Materials and Equipment.

B. Substitution requests by FAX are not acceptable.

1.02 PROJECT CONTACT PERSON

A. HHSC Representative – For access to the site, project solicitation, and construction inquiries.

NAME:	Mr. Michael Nakada
POSITION OR TITLE:	Oahu Region Facilities Operations Manager
TELEPHONE NUMBER:	(808) 767-0526
EMAIL ADDRESS:	mnakada@hhsc.org

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

NAME:	Mr. Clayton Pang
POSITION OR TITLE:	Project Coordinator
TELEPHONE NUMBER:	(808) 522-1866
EMAIL ADDRESS:	cpang245@ethawaii.com

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 of the Work shall be within 365 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 \$500.00 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".

1.07 SPECIAL PROCEDURES DURING BIDDING

- A. Bid documents will be available from the HHSC Representative's office, at Leahi, 3675 Kilauea Avenue, Honolulu, HI, 96816.
- B. All bids shall be submitted to the HHSC Representative.
- 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 HHSC Representative. The HHSC Representative will review the questions and issue any responses via Addendum. Only information received by Addendum shall be binding.
- E. All requests for substitution of materials shall be submitted in writing to the Architect. Substitutions shall be of products and materials of equal or better quality and performance of the specified products. The Architect will review the substitution and if acceptable, will issue acceptance by Addendum. Only products pre-approved and accepted by Addendum shall be considered for use on this project.
- F. 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.

1.08 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 the Hospital 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.

1.09 PROJECT RESTRICTIONS

- A. The Contractor is informed that the facility and surrounding facilities will be fully occupied and operational. All work shall be coordinated with the HHSC Representative.
- B. Staging and storage of materials on-site is limited and shall be coordinated 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 is not 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.

PART 2 – PRODUCTS (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 Engineer 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 Hospital 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. The Hospital 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 Representative.

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,

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 Engineer 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 EXAMING 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.
- C. 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.
- D. Furnish or obtain templates, patterns, and setting instructions as required for the installation of all Work. All dimensions shall be verified in the field.
- E. 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.

3.02 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.

3.03 ENVIRONMENTAL

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

3.04 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.

3.05 BARRICADE

- A. Erect temporary construction barricade(s) to prevent unauthorized persons from entering the project area and to the extent required by the Engineer and/or HHSC Representative.
- B. Maintain temporary construction barricade(s) throughout the duration of the Work. During the course of the project, the Engineer 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.

3.06 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.

3.07 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.

3.08 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 from time to time and as directed by the Engineer 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 demolition and removal work, reroofing, and miscellaneous repairs as indicated on the drawings and specified herein.
 - 1. Project Location: Leahi Hospital, 3675 Kilauea Ave., 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 HHSC Representative, requested by HHSC Representative, 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 HHSC Representative.

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 HHSC Representative for a decision before proceeding.

1.03 WORK SEQUENCE

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

1.04 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.
- B. Contractor’s use of premises is restricted as follows:
1. Contractor’s use of premises is restricted as follows:

- 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.

1.05 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 OF 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 occupants.
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.
6. 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.
- B. Stoppage of work for the duration of CMS and State Survey audits shall not incur additional costs to HHSC.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

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 00800.

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 CONTRACTUAL 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 devices 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 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.

1.06 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

DIVISION 16 - ELECTRICAL

SECTION 16010 - GENERAL ELECTRICAL REQUIREMENTS

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

As specified in SECTION 01001 - GENERAL REQUIREMENTS.

1.02 SUMMARY

- A. Electrical Scope of Work: Provide all articles, materials, equipment, systems and services specified herein, on the drawings, or as normally required by accepted industry practices, including all labor, materials, taxes, fees, insurances, warranties and incidentals required to provide a complete and operational electrical system.
- B. Work shall include but shall not be limited to:
 - 1. Removal and disposal of existing standby 80kW diesel engine generator.
 - 2. Installation and testing of standby 80kW diesel engine generator, including concrete pad.
 - 2. Submittal of shop drawings.
 - 3. Preparation of "as-built" drawings.
- C. The term "wiring" shall include raceways, outlets, conductors, fixtures, devices, and panelboards.
- D. Wiring and connecting all electrical equipment supplied for installation and use in this contract and not specifically listed as work by other.
- E. It is the intent of the plans and specifications to provide a complete electrical system within the scope of this project. Should there be any conflicts in the plans and/or specifications, the Contractor shall call the immediate attention of the HHSC to such conflicts in advance of the date of bid opening so that the necessary corrections can be made.
- F. These specifications are accompanied by diagrammatic electrical plans showing the approximate locations of devices and other

equipment to establish a uniform estimating basis for all bidders; they are not intended to be detailed construction drawings.

- G. The Contractor shall study the requirements of the project and make the installation in the most logical manner. The Contractor shall verify all dimensions on drawings and at the job site before proceeding.
- H. Any device may be relocated within 10-feet before installation at the direction of the HHSC. Reasonable modifications to the indicated locations and rearrangement to suit job conditions shall not constitute a basis for the requesting of additional funds from the HHSC.

1.03 SUBMITTALS

- A. Submit in accordance with SECTION 01300 - SUBMITTALS.
- B. Samples, Shop Drawings, and Product Data: Submit samples, shop drawings, and product data as noted under item entitled "SAMPLES, SHOP DRAWINGS, AND PRODUCT DATA" hereinbelow.
- C. List of Materials and Equipment: Submit list of materials and equipment as noted under paragraph entitled "List of Materials and Equipment" hereinbelow.
- D. Record Drawings: Submit record drawings as noted under item entitled "RECORD DRAWINGS" hereinbelow.
- E. Warranty: Submit warranty as noted under item entitled "WARRANTY" hereinbelow.

1.04 DEFINITIONS

- A. Provide: Furnish, install, test, and deliver to HHSC in operating and ready to use condition.
- B. Wiring: Provide all raceways, junction boxes, conductors, devices, protection equipment, installation of motor controller when required, etc., including testing for a complete, operative and ready to use electrical system.
- C. Pre-Approved: As approved by the HHSC in accordance with SECTION 01001 - GENERAL REQUIREMENTS, item entitled "SUBSTITUTION OF MATERIALS AND EQUIPMENT".
- D. Complete: Finished installation that is operative, tested, ready to use

and which satisfies the intent of the contract documents, including all necessary accessories and modifications.

- E. Contractor: Prime Contractor responsible for all work shall assign work to Subcontractors. Except where noted, work of this Section shall be assigned to the Electrical Subcontractor. Should the Prime Contractor be an Electrical Contractor work of this Section shall apply to the Prime Contractor.

1.05 QUALITY ASSURANCE

- A. Materials and Equipment: Materials and equipment shall conform to requirements of applicable technical sections and publications specified therein. Materials and equipment shall be new and shall be the products of the manufactures regularly engaged in the manufacture of such products. All items shall essentially duplicate materials and equipment that have been in satisfactory use at least 2 years prior to bid opening and shall be supported by the service organization that is, in the opinion of the HHSC reasonably convenient to the site of installation.
- B. List of Materials and Equipment: Provide List of Materials and Equipment which shall include manufacturer's names and material or equipment identification such as styles, types or catalog numbers, to permit ready and complete identification.
 - 1. Where items are specified by manufacturer's name or catalog number, substitutions shall not be permitted after the expiration of the time limit allowed. Substitute items submitted and disapproved shall not be resubmitted in any modified form.
 - 2. Items requiring shop drawings shall be included in the list of materials and equipment, identified by manufacturer's name and type, and accompanied by complete descriptive data, electrical, physical and performance characteristics of the equipment and manufacturer's bulletins.

1.06 SAMPLES, SHOP DRAWINGS, AND PRODUCT DATA

- A. Submittals of samples, shop drawings, manufacturer's technical brochures and catalog cuts shall be accompanied by a letter of transmittal from the Electrical Contractor itemizing and identifying by catalog number and/or description all equipment and materials included in the transmittal. Inadequately coordinated submittals, or submittals which fail to provide sufficient information for evaluation, will be returned to the Contractor for resubmittal without extension of time or waiver of any and all requirements of the contract. The

HHSC's judgment on adequacy of the delineation of shop drawings and technical data shall govern.

- B. Shop drawings or catalog cuts of the following equipment shall be submitted for approval:
 - 1. Electrical apparatus including safety switches, circuit breakers, and wiring devices.
 - 1. Panelboards, switchboards, meter sockets.
 - 2. Light fixtures and lamp schedules.
 - 3. Wiring devices.
 - 4. Any built-to-order equipment.
- C. Shop drawings shall be sufficiently comprehensive and detailed to permit evaluations or they may be rejected. The shop drawings shall include, as a minimum the following:
 - 1. Identification of each equipment component.
 - 2. Dimensional outlines of all devices.
 - 3. Operating and electrical characteristics including voltage and current or power ratings.

1.07 RECORD DRAWINGS

Record changes for the contract drawings of all equipment and wiring. Indicate any change in location of lighting fixtures, receptacles, junction boxes, panelboards, equipment and feeders routing. Also see SECTION 01300 - SUBMITTALS for "Record" drawings requirements.

1.08 WARRANTY

Contractor's Warranty: Installation shall be complete in every detail and ready for use. Any item supplied by the Contractor developing defects within one year of final acceptance by the HHSC shall be replaced by such materials, apparatus, or parts including installation labor to make such defective portion of the complete system conform to the true intent and meaning of drawings and specifications, at no additional cost to the HHSC.

1.09 SITE CONDITIONS

The Contractor shall visit the project site before any work has started to determine the site conditions and the extent of the removal and new work required.

1.10 CONTINUITY OF SERVICES, PHASING

- A. Execute work using such methods, techniques, connections and tie-ins which will cause least interference with, and interruptions of, existing utilities and services. Schedule all arrangement for work which will cause interferences or interruptions, in advance with the HHSC, all other affected trades and authorities having jurisdiction.
- B. Examine site and become familiar with existing local conditions affecting work.
- C. Examine all Drawings and Specifications, including architectural and mechanical, and become familiar with the types and systems of construction to be used. Determine how such types and systems will affect the installation of electrical work.
- D. Investigate, determine and verify locations of any utilities in or near project area.

1.11 APPLICABLE DOCUMENTS, RULES, AND CHARGES

- A. Latest published standards of NBFU, NFPA, ANSI, NEMA, and IPCEA shall be applicable to all systems and components covered by such standards.
- B. Comply with ordinances of the City and County of Honolulu. Obtain and pay for electrical permits (include in bid), arrange for periodic inspection by local authorities and deliver certificates of final inspection to the HHSC.

PART 2 - PRODUCTS

2.01 MATERIALS AND EQUIPMENT

- A. Materials and equipment shall be new and equipment satisfying the requirements of NEC Articles 90.7 and 110.3 shall be listed or labeled by a nationally recognized electrical testing laboratory.
- B. Brand names and catalog numbers indicate standards of design and quality required. In case of obsolescence, supersedure, or error in catalog number, the associated description and intent implied by the application shall govern, requests for substitutions shall comply with

applicable paragraph of the SPECIAL PROVISIONS.

PART 3 - EXECUTION

3.01 CONSTRUCTION METHODS

Program the work and coordinate with other facets of this project. Construction shall conform to accepted industry practices and to the recommendations of the American Electricians Handbook by Croft (latest edition), National Electrical Code and applicable instructions of manufacturers of equipment and materials for this project.

3.02 INSTALLATION

- A. These specifications are accompanied by diagrammatic electrical plans showing approximate locations of switches, service and feeder runs, devices and other electrical equipment. Before installing, the Contractor shall study adjacent architectural details and make installation in most logical manner. Verify all dimensions on drawings and sizes of equipment at job site before proceeding with the work. Any device may be relocated within 10-feet before installation at the direction of the HHSC without cost to the HHSC if additional materials is not involved.
- B. Cut, core and patch as required to install electrical system. Repair any surface damaged or marred by notching, coring or any other process necessary for installation of electrical work. Cutting, repairs and refinishing shall be subject to the approval of the HHSC. Need for remedial work attributable to poor coordination and workmanship shall be cause for reconstruction to the satisfaction of the HHSC at no additional cost.
- C. Grounding: Shall be installed as shown on the drawings and in conformance with NEC requirements:
 - 1. Equipment grounding conductor shall be properly identified in accordance with Table 250.122.
 - 2. Grounding electrode conductors shall be properly identified in accordance with Section 250.66.
 - 3. Whenever possible, grounding conductors shall be run in raceways with circuit conductors.

3.03 PROGRESS OF WORK AND COORDINATION

The Contractor shall prepare a schedule giving sequence of electrical work. The electrical work shall be coordinated with the work of other Contractors and other trades. The schedule shall be submitted to and approved by the HHSC prior to beginning installation.

3.04 RULES

The installation shall conform to the applicable rules and regulations of the City and County of Honolulu Building Department, the HHSC of Hawaii, requirements of the National Electrical Code (NEC) and other standards and publications specified in the technical sections. Building permits shall be obtained and paid for by the Contractor. Certificates of Inspection shall also be provided by the Contractor prior to final inspection.

3.05 PRELIMINARY TEST

After obtaining permission from the HHSC and before commencing work on any existing electrical system, the Contractor shall perform an operational test on the existing systems to determine if it is in perfect operating condition and free from physical damage. Any malfunctions or physical damage shall be noted and reported in writing, in order that the adjustments and repairs can be made by the HHSC. All reported malfunctions and physical damage shall constitute the as-in condition of the system and the Contractor shall not be responsible for their repairs, adjustment or replacement. Thereafter, work on those systems, in connection with this project, may be performed. Upon completion of the project, any malfunctions of or physical damage to those systems not identified in a preliminary test report shall be the responsibility of the Contractor to repair, adjust and make operative at no additional cost to the HHSC.

END OF SECTION

SECTION 16210 - ENGINE GENERATOR

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

As specified in SECTION 01001 - GENERAL REQUIREMENTS.

1.02 SUMMARY

- A. Furnish all labor, materials, tools and equipment required to install completely a standby diesel engine generating unit as shown on the drawings and so specified herein. Work shall include:
 - 1. Provide and install diesel engine driven generator unit, complete with connection to existing automatic transfer switch.
 - 2. Sub base fuel tank.
 - 3. Re-connect to existing automatic transfer switch.
 - 4. Provide and install alarm annunciators.
 - 5. Test engine generator unit.
- B. The supplier shall certify in writing to the HHSC that the manufacturer have manufactured and have in service at least 50 engine generator units of the same size and rating.

1.03 WORK DESCRIBED IN OTHER SECTIONS

- A. Electrical Work under SECTION 16010 – GENERAL ELECTRICAL REQUIREMENTS.

1.04 SUBMITTALS

- A. Submit in accordance with SECTION 01300 - SUBMITTALS.
- B. Submit 1 copy of shop drawings in PDF format for approval to the HHSC covering all items of equipment and features for approval prior to ordering of the system. Resubmit shop drawings, if required, until all items are approved.
- C. Guarantee: Submit guarantee as noted under item entitled "GUARANTEE" hereinbelow.
- D. Warranty: Submit warranty as noted under paragraph entitled "Accessory Items" hereinbelow.

1.05 GUARANTEE

Contractor's Guarantee: Installation shall be complete in every detail and ready for use. Any item supplied by the Contractor developing defects within one year of final acceptance by the HHSC, shall be replaced by such materials, apparatus or parts including installation labor to make such defective portion of complete system conform to true intent and meaning of Drawings and Specifications, at no additional charge to the HHSC.

1.06 WORKMANSHIP AND MATERIALS

- A. All workmanship and materials shall be of the very best quality of their several kinds and subject to approval of the HHSC.
- B. Where materials or equipment are required to conform to the requirements of the Underwriters' Laboratories, Inc., the Contractor shall submit proof that the items furnished under this specification conform to such requirements.
- C. The Contractor shall be responsible for the quality of welding done. The quality of the welding procedures and the quality of the welding shall be determined by testing and the welder's ability to make sound welds under standard working conditions, with the equipment to be used in the work on this project, all in conformance with American Standard B31.1 and American Welding Society Standard B3.0.

1.07 COMPLIANCE WITH STANDARD AND INDUSTRY SPECIFICATIONS

Any materials operations and equipment shall conform to the latest requirements of the American Society of Mechanical Engineers Publications, American Society of Testing and Materials Standards, American National Standards Institute Standards, Diesel Engine Manufacturer's Standards, and National electrical Manufacturer's Association Standards.

PART 2 - PRODUCTS

2.01 DIESEL-ENGINE DRIVEN STANDBY ELECTRIC GENERATOR PLANT

- A. General: A complete diesel-driven standby electric generating system shall be provided. The system shall be of the latest commercial design, completely built, tested and shipped by a manufacturer who has been regularly engaged in the production of such equipment for at least the past 10 years. The manufacturer shall have service facilities in Hawaii with adequate stock of spare parts to assure expeditious maintenance of the system.
- B. The system shall be tested by an independent testing laboratory who shall certify the performance of the system.
- C. The standby electric generating system shall be an Generac series electric plant and shall be rated for continuous standby service at 80KW continuously, 100KVA at 0.8 power factor 480/277 volts, 3 phase, 4-wires

at 60 hertz. The system shall be a package of new and current equipment consisting of:

1. A diesel engine-driven electric plant to provide emergency electric power and conforming to NFPA Standard 76A.
 2. Engine mounted start-stop control system.
 3. Automatic load transfer controls to provide automatic starting and stopping of the plant and switching of the loads with existing automatic transfer switch.
 4. Mounted accessories as specified.
 5. Alarm annunciators in the Security Office.
 6. This system except transfer switch shall be built, tested and shipped by the manufacturer at his manufacturing plant so there is one source of supply and responsibility. The performance of this generating set series shall be certified by an independent testing laboratory as to the set's full power rating, stability and voltage and frequency regulation.
- D. Engine: The engine shall be diesel-fueled, turbocharged, 4-cycle, water-cooled mounted radiator, fan and water pump. It shall have 6-cylinders - 60 degrees and a minimum displacement of 427.8 cubic inches, with an operating speed of 1800 rpm. Intake and exhaust valves shall be heat resisting alloy steel, free rotating. Exhaust valve seat inserts shall be provided. Full pressure lubrication shall be supplied by a positive displacement lube oil pump. The engine shall have air cleaner, fuel and oil filters with replaceable elements; lube oil cooler and a fuel transfer pump. Engine speed shall be governed by a mechanical governor to maintain alternator frequency within 5 percent from no-load to full-load alternator output. The engine shall have a 24 volt battery charging DC, alternator with a transistorized voltage regulator, remote, 2-wire, starting shall be by a 24 volt, solenoid shift, electric starter.
- E. Engine Instruments: The engine instrument panel shall contain a oil pressure gauge, coolant temperature gauge, and battery charge rate ammeter.
- F. Engine Controls: The generating set shall contain a complete engine start-stop control which starts engine closing contact and stops engine on opening contact. A cranking limiter shall be provided to open the starting circuit in approximately 45 to 90 seconds if the engine is not started within that time. The engine controls shall also include a 3-position selector switch with the following positions: RUN-STOP-REMOTE. High engine temperature, low oil pressure, and overspeed shutdown with the signal light and alarm terminal shall be provided.
- G. Alternator: The alternator shall be a 4-pole, revolving field design with

temperature compensated solid state voltage regulator and brushless rotating rectifier exciter system. No brushes shall be allowed. The stator shall be directly connected to the engine flywheel housing, and the rotor shall be driven through a semi-flexible driving flange to insure permanent alignment. The insulation system shall be class F as defined by NEMA MG1-I.65. The 3 phase, broad range alternator shall be 21-lead, reconnectible.

- H. Unit Performance: Frequency regulation shall not exceed 3 hertz from no load to rated load. Voltage regulation shall be within plus or minus 2 percent of rated voltage, from no load to full rated load. The instantaneous voltage dip shall be less than 12 percent of rated voltage when full, 3-phase, load and rated power factor is applied to the alternator. Recovery to stable operation shall occur within 5 seconds. Stable or steady state operation is defined as operation with terminal voltage remaining constant within plus or minus one percent of rated voltage. A rehostat shall provide a minimum of plus or minus 5 percent voltage adjustment from rated value. Temperature rise shall be within NEMA MG1-22-.40 definition.
- I. Alternator Instrument Panel: The alternator instrument panel shall be wired, tested and shock mounted on the generating set by the manufacturer of the alternator. It shall contain panel lighting; manual reset circuit breaker; frequency meter; running time meter; voltage adjusting rheostat; AC voltmeter; AC ammeter; meter switch, voltmeter-ammeter phase selector with OFF position.
- J. Mounting: Electric plant shall be mounted on a welded steel base which shall provide suitable mounting to any level surface. Vibration isolation mounts shall be provided.
- K. Accessories: All accessories needed for the proper operation of the plant shall be furnished. These shall include a critical muffler, flexible exhaust piping, 300-gallon day tank, with fuel pump, starting batteries, battery cables, battery rack and detailed operation and maintenance manuals with parts list.
- L. Alarm Annunciator: Remote alarm annunciators, storage battery-powered, shall be provided to operate outside of the generating room in locations readily observed by the operating personnel at a regular work stations and at the telephone switchboard as indicated. The annunciator shall indicate alarm conditions of the emergency or auxiliary power source as follows:
 - 1. Individual visual signals shall indicate:
 - a. When the emergency of auxiliary power source is operating to supply power to load.
 - b. When the battery charger is malfunctioning.

2. Individual visual signals plus common audible signal to warn of an engine-generator alarm condition shall indicate:
 - a. Low lubricating oil pressure.
 - b. Low water temperature (below 70 degrees F).
 - c. Low fuel - when the main storage tank contains less than a 3-hour operating supply.
 - d. Overcrank (failure to start).
 - e. Overspeed.

M. Controls: Operating controls, meters, and indicators shall be mounted on a front panel visible through the main cabinet door. This is to allow for ease of operation when the main cabinet lockable door is closed.

1. Control circuit disconnect plugs shall be provided to de-energize control circuits to avoid the hazards of electrical shock to personnel while making adjustments.
2. The Power Sentry electronic control, undervoltage and time delay modules, shall be a printed circuit board for ease of service. The solid-state undervoltage sensors shall simultaneously monitor all phases of the normal and emergency power sources to provide field adjustable range sensors for specific applications. Voltage pickup settings shall be adjustable from a minimum of 85% to a maximum of 100% of nominal voltage. Voltage dropout settings shall be adjustable from a minimum of 74% to a maximum of 98% of the pickup setting with a fixed dropout time delay of 0.5 second. Voltage sensors shall be of the temperature compensated type, for maximum deviation over the temperature range of -32 degrees C (-25 degrees F) to 79 degrees C (175 degrees F). Voltage sensors shall allow for adjustment to sense partial loss of voltage on any phase of the normal or emergency power source, even where motor feedback voltages exist.
3. Controls shall signal the emergency power system to start upon signal from normal source voltage sensors. Solid-state time delay start shall avoid nuisance engine-generator set start-ups on momentary voltage dips or interruptions.
4. The transfer switch shall transfer the load to the emergency power system after the engine-generator set reaches proper voltage and frequency and has stabilized.
5. The transfer switch shall control the engine-generator set to allow the set to start and transfer the load within 10 seconds after a normal

source power failure. It shall be the responsibility of the transfer switch supplier to meet this requirement.

6. The transfer switch shall retransfer the load to the normal source after normal source power is restored, allowing normal source to stabilize before retransfer and shall allow staggered retransfer of loads in multiple transfer switch systems.
7. The controls shall signal the engine-generator set(s) to stop after load retransfer to the normal source, but shall maintain the availability of the emergency source in the event that the normal source fails shortly after retransfer. The controls shall allow the engine-generator set(s) to run unloaded for a cooldown period prior to shutdown.
8. The controls shall provide an automatic retransfer of the load from the emergency source to the normal source if the emergency source fails when the normal source is available.
9. The transfer switch operating power for transfer and retransfer shall be obtained from the source to which the load is being transferred.
10. Controls shall provide built-in "Control Mode Status" indicators.
11. The indicators shall allow the operator to determine that the controls are properly sequencing and shall assist in determining the sequence of any malfunctions that might occur.
12. Main cabinet front panel mounted controls and indicator lamps shall consist of oil-tight, neon position indicator lamps (NORMAL and EMERGENCY) and key-operated Test and Selector switches to provide the following functions:
 1. Test Switch:
 - a. TEST - Simulated normal source power loss to control unit for testing engine-generator set capability, including transfer of load if so equipped. Control system shall provide for system test with/without load transfer when specified.
 - b. NORMAL - Normal operating position and also restores the system to standby operation; and if load was transferred, retransfers load from emergency to normal source after test and time delays.
 - c. RETRANSFER - Spring-loaded momentary position of switch, that overrides retransfer time delay to cause the immediate return to the normal source after a test or actual power outage.
 2. Selector Switch: 3-wire engine-generator set starting system.

- a. AUTO - Normal position for automatic operation of the engine-generator set.
 - b. HANDCRANK - Remote position, allows the engine- generator set to be started with no affect from the transfer switch.
 - c. STOP - Maintenance position, prevents the engine-generator set from starting or stops the set if running.
- 13. Start contacts for 2-wire engine-generator set(s) control shall be gold plated Form-C, dry contacts wired to an easy access terminal block. Provide 2 to 3-wire converter where required for 3-wire engine-generator set(s) control.
- N. Accessory Items: Where shown on drawings or specified herein, transfer switches shall be equipped with the following items:
 - 1. Provide Exerciser clock to set day-of-week (one week dial minimum), time-of-day, and duration-of-time of engine-generator set exercise. Exercise period with/without load selector switch is standard with clock. Exerciser clock is required for Limited 5-year Warranty.
 - 2. Sub base fuel tank as indicated on the drawing.
- O. Inspection and Testing: Factory tests as set forth in NEMA Standard MG1 shall be performed on the generator and exciter.
 - 1. The generating set shall be inspected for defects, cooling system, fuel system and lubricating system shall be inspected for leaks, looseness and any defective assembly. These items shall be checked for acceptability:
 - a. Governor adjustments.
 - b. Starting motor.
 - c. Lubricating system, including but not limited to filler cap, dip stick, and oil drain.
 - d. Fuel system, including fuel filter, and connections.
 - e. Voltage regulators.
 - f. Battery charging equipment.
 - g. Generator brushes.
 - h. Mounting bolts.
 - i. Shock mounts.

2. The following defects shall be noted:
 - a. Defects in casting, such as, cracks, breaks, and blowholes.
 - b. Alignments in machine parts.
 - c. Sticking or binding or moving parts.
 - d. Burr or ungrounded parts.
 - e. Noisy or irregular operations.
 - f. Misfit of any parts.
 - g. Presence of rust or other deterioration.
 - h. Defective finishes and painting.
 - i. Imperfect or faulty welds.
 - j. Loose or poorly soldered electrical connections.
 - k. Unlevel base.
 - l. Missing or defective nameplate and instruction plates.
3. Generator shall be tested before shipment in accordance with EMS Standard MC1. Engine generator set shall be operated for 4 hours to demonstrate the following:
 - a. It will start automatically.
 - b. It will pick up and supply a load continuously within the limits specified.
 - c. Unit will shut down automatically and reset as required.
 - d. It will carry rated KW output at 0.8 power factor continuously for a period of 2 hours.
 - e. Test results shall be submitted to the HHSC. Data shall include load supplied, power factor oscillographs of frequency variations, charts from recording meters and meter calibration data.
 - f. All defects in materials, assembly and performance shall be corrected by manufacturer at no additional cost to the HHSC.

- O. Operating and Maintenance Instructions and Spare Parts Lists: 6 complete sets of operating and maintenance instructions and spare parts lists shall

be provided to the HHSC, bound in suitable manuals. Manufacturer shall instruct Maintenance personnel in the operation and maintenance of the diesel-electric generating unit.

2.02 BATTERIES

Batteries shall be checked for electrolyte level, properly charged and installed. Terminal lugs shall be automotive type, crimp or bolted type. Apply petroleum jelly on battery terminals after connection.

PART 3 - EXECUTION

3.01 FIELD TESTING

After installation of the unit, Contractor shall perform field tests in the presence of the HHSC. Engine generator shall first be tested and loaded as follows:

<u>Test Load</u>	<u>Duration of Test</u>
1/2 load	One hour
Full load	2 hours
110 percent load	1/2 hour

After engine generator has been tested and found to be operating properly, operation of transfer switch shall be tested. Contractor shall furnish necessary tools, load wiring, load banks, and instruments for the test. Notify HHSC in writing 14 days prior to tests.

3.02 IDENTIFICATION OF EQUIPMENT

Contractor shall provide suitable and neatly stenciled nameplate identifications on all of the electrical devices and/or apparatus installed. Letters shall be 3/4-inches high and shall indicate operation function of the equipment. Dymo labels are not acceptable.

END OF SECTION

LEAHI HOSPITAL

REPLACE GENERATOR ATHERTON

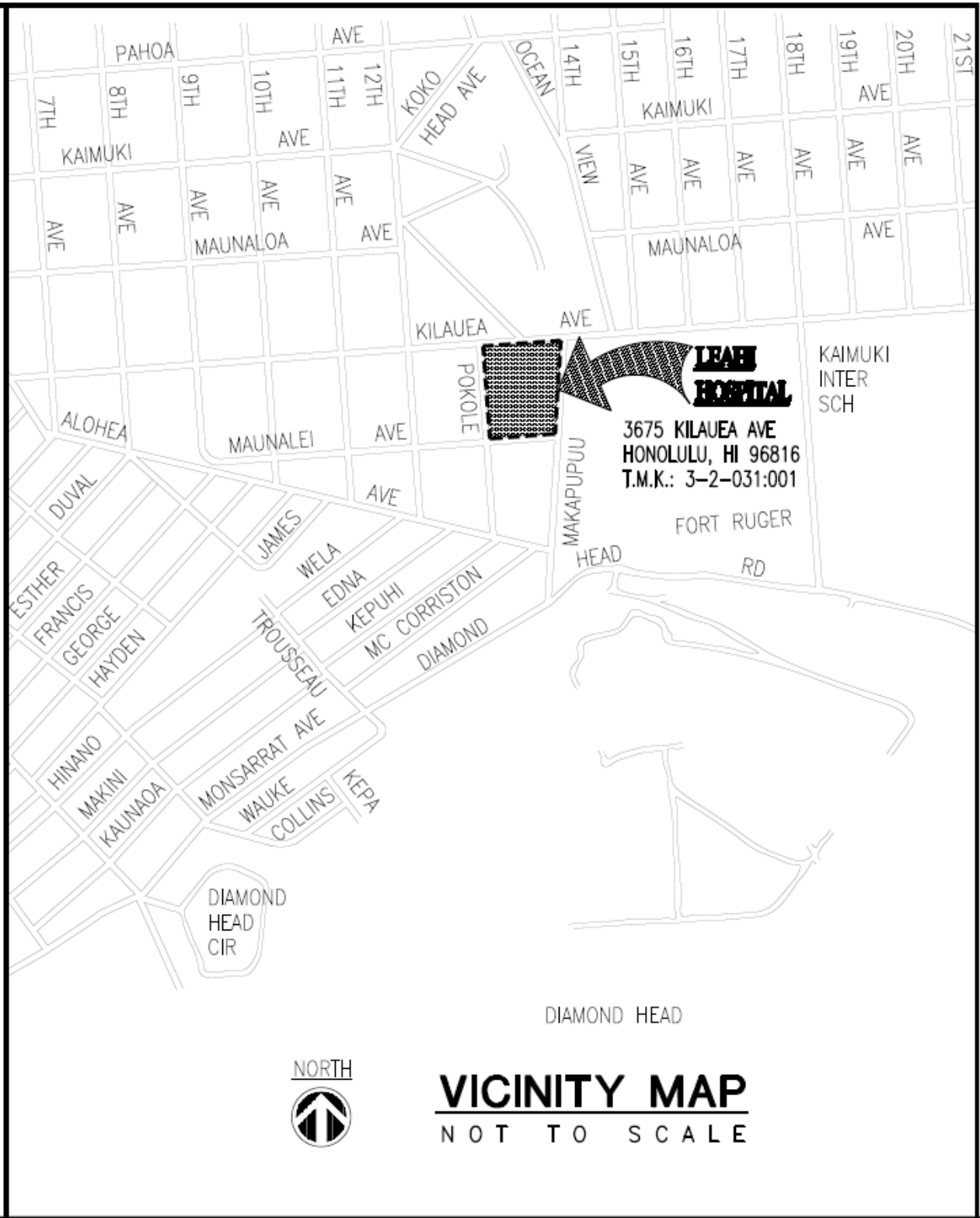
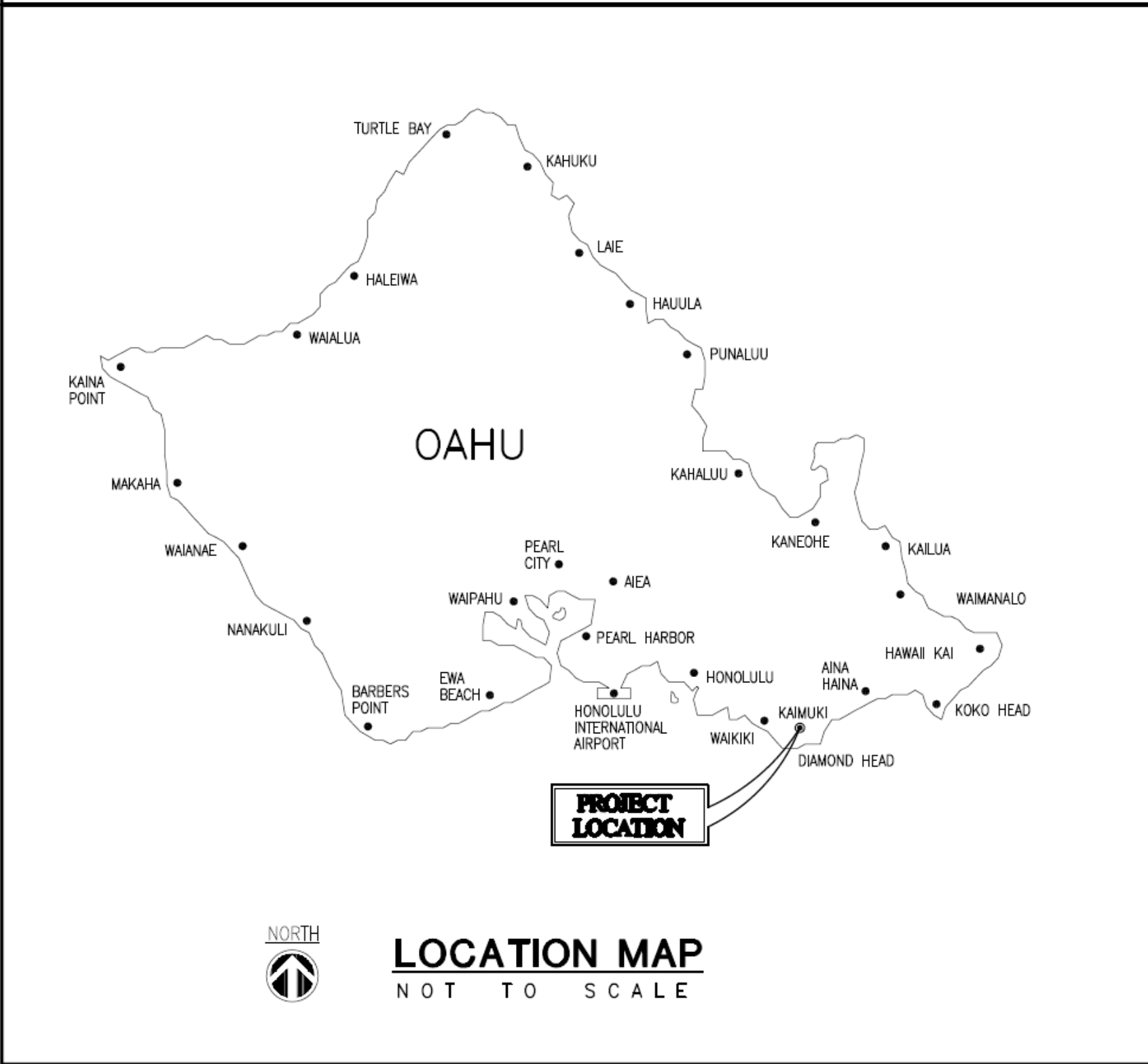
HONOLULU, OAHU, HAWAII
TAX MAP KEY : 3-2-031:001

IFB NO. : 26L-0112

FOR THE
HAWAII HEALTH
SYSTEMS CORPORATION

ELECTRICAL ENGINEER :
ELECTECH HAWAII, INC.

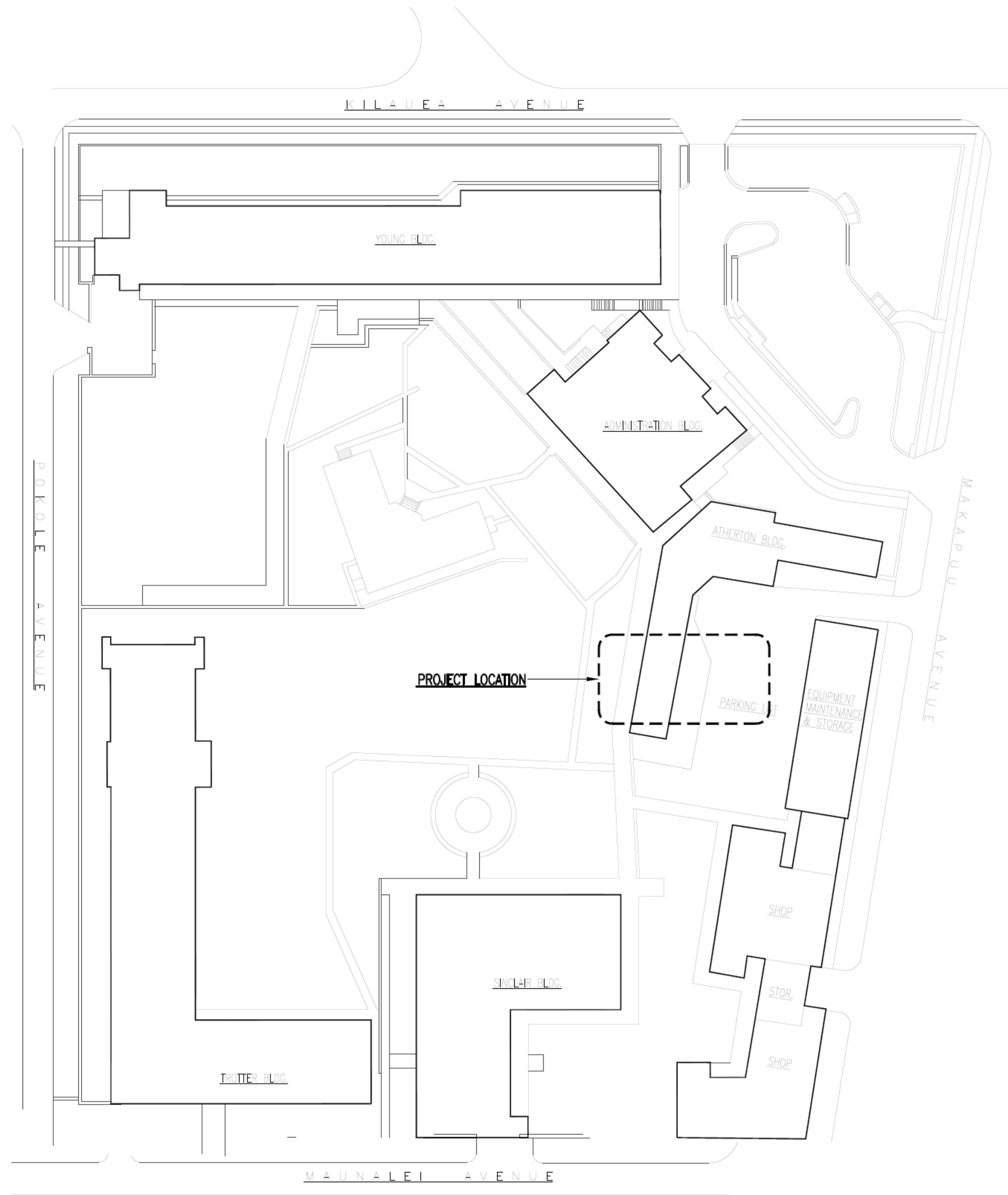
INDEX OF DRAWINGS		
SHEET No.	DWG. No.	SHEET TITLE
1	T001	TITLE AND INDEX OF DRAWINGS
2	E001	OVERALL ELECTRICAL SITE PLAN
3	E002	ELECTRICAL AND ENLARGED PLANS
4	E003	SINGLE LINE DIAGRAMS AND DETAIL



REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED

CLAYTON C. Y. PANG LICENSED PROFESSIONAL ENGINEER No. 4145-E HAWAII, USA LICENSE EXPIRATION DATE 04/30/26 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION Clayton C. Y. Pang C. Y. Pang Digitally signed by Clayton C. Y. Pang Date: 2026.01.14 14:29:04 -10'00'	HAWAII HEALTH SYSTEMS CORPORATION STATE OF HAWAII		IFB NO.	DRAWING NO.
	LEAHI HOSPITAL REPLACE GENERATOR ATHERTON HONOLULU, OAHU, HAWAII		26L-0112	T001
	TITLE AND INDEX OF DRAWINGS		DESIGNED BY: GM	CHECKED BY: CP
	ELECTECH HAWAII, INC.		DRAWN BY: GM	APPROVED BY: CP
	SCALE AS NOTED		DATE JAN 2026	SHEET 1 OF 4 SHTS

FILE DRAWER FOLDER



1 OVERALL ELECTRICAL SITE PLAN
SCALE: 1" = 40'-0"



DEMOLITION NOTES

- EXISTING PLANS DO NOT INDICATE COMPLETE EXISTING WIRING CONDITIONS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
- BEFORE ANY WIRING IS CUT, CONTRACTOR SHALL VERIFY USAGE OF WIRING TO BE CUT TO ASSURE THAT SERVICES REQUIRED ARE NOT DISCONTINUED. PROVIDE ADDITIONAL WIRING DEVICES AND OTHER ACCESSORIES TO ENSURE CONTINUITY OF SERVICE TO OTHER PARTS OF INSTALLATION TO REMAIN.
- REMOVE ALL EXISTING WIRING NOT TO REMAIN IN SERVICE.
- REMOVE ALL CONDUITS NO LONGER REQUIRED.
- PHASE WORK TO ASSURE CONTINUITY OF ELECTRICAL, TELEPHONE AND SIGNAL SERVICES TO PARTS OF FACILITIES THAT WILL REMAIN IN USE.
- DELIVER ALL SALVAGEABLE MATERIAL AS DETERMINED BY HHSC AT NO ADDITIONAL COST TO HHSC. PACK MATERIAL IN BOXES. COIL ALL CABLES AND TIE.
- ABANDON CONDUITS BELOW GRADE NO LONGER REQUIRED. PULL OUT ALL WIRES IN ABANDONED CONDUITS.
- CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF EXISTING ENGINE GENERATOR.

ELECTRICAL SYMBOLS

- EXISTING LARGE JUNCTION BOX
- EXISTING TRANSFORMER
- EXISTING PANELBOARD
- EXISTING SAFETY SWITCH
- WIRING IN EXISTING RACEWAY
- WIRING IN EXISTING RACEWAY TO BE REMOVED

- NOTES:
- ANY CIRCUIT WITH NO FURTHER DESIGNATION INDICATES A TWO WIRE CIRCUIT. CIRCUITS WITH ADDITIONAL WIRES ARE INDICATED AS FOLLOWS: ~~///~~, 3 WIRES: ~~///~~, 4 WIRES, ETC.
 - GROUND WIRE PER NATIONAL ELECTRICAL CODE INDICATED AS FOLLOWS: ~~—~~.
 - ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH ADJACENT WALL OR CEILING SURROUNDING.

CITY AND COUNTY OF HONOLULU
REVISED ORDINANCES OF HONOLULU 2021
CHAPTER 16B

To the best of my knowledge, this project's design substantially conforms to the Building Energy Conservation Code for:

☐ Building Component System
☒ Electrical Component System
☐ Mechanical Component System

Signature: Clayton C. Y. Pang Date: JANUARY 2026
Name: Clayton C. Y. Pang, P. E.
Title: Principal
License No.: 4145-E

REVISION NO.	SYMBOL	DESCRIPTION	SHEET NO.	DATE	APPROVED

CLAYTON C. Y. PANG
LICENSED PROFESSIONAL ENGINEER
No. 4145-E
HAWAII, USA

LICENSE EXPIRATION DATE 04/30/28

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Clayton C. Y. Pang
Digitally signed by Clayton C. Y. Pang
Date: 2026.01.14 14:30:47 -10'00'

HAWAII HEALTH SYSTEMS CORPORATION
STATE OF HAWAII

LEAHI HOSPITAL
REPLACE GENERATOR ATHERTON
HONOLULU, OAHU, HAWAII

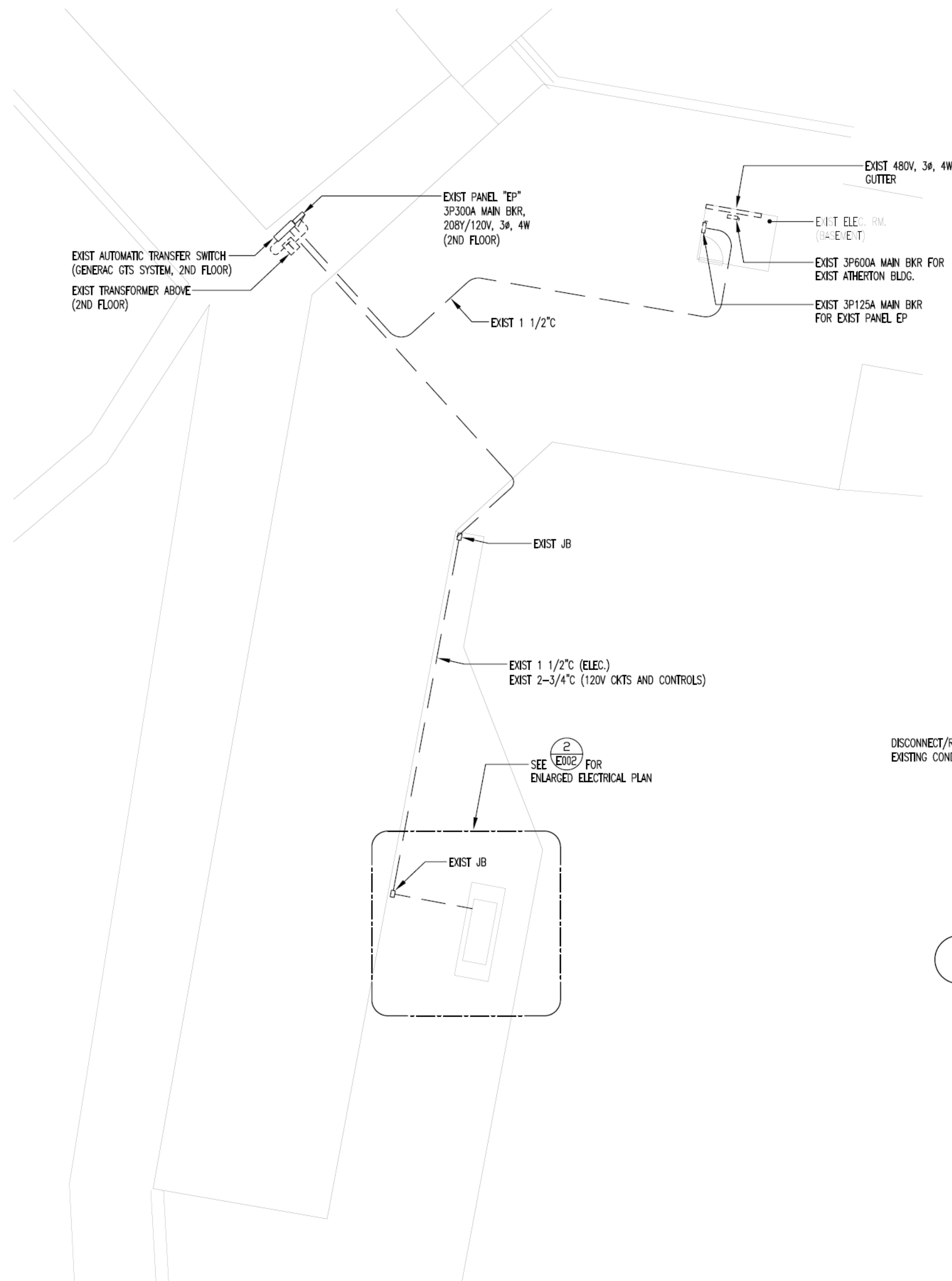
OVERALL ELECTRICAL SITE PLAN

ELECTECH HAWAII, INC.

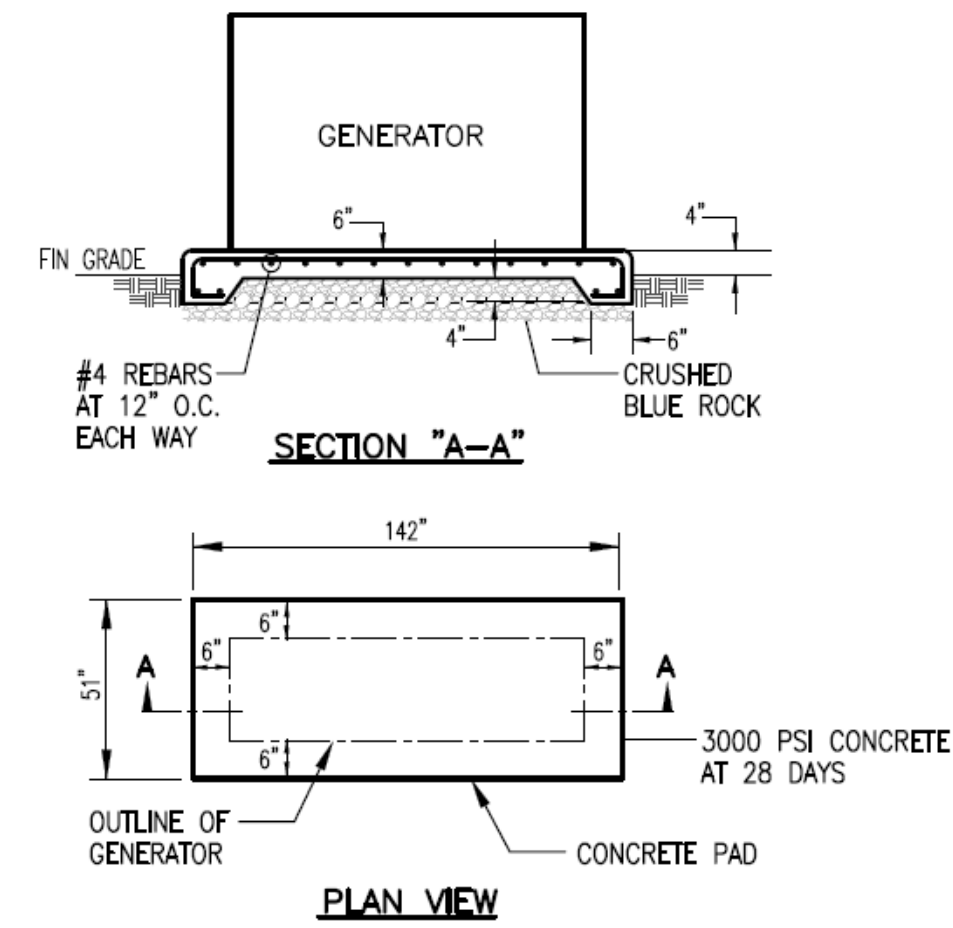
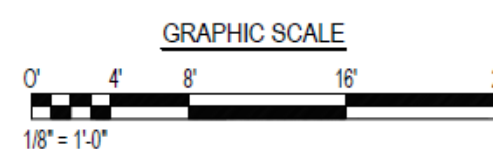
DESIGNED BY: GM
DRAWN BY: GM
SCALE: AS NOTED

CHECKED BY: CP
APPROVED BY: CP
DATE: JAN 2026

IFB NO.: 26L-0112
DRAWING NO.: E001
SHEET 2 OF 4

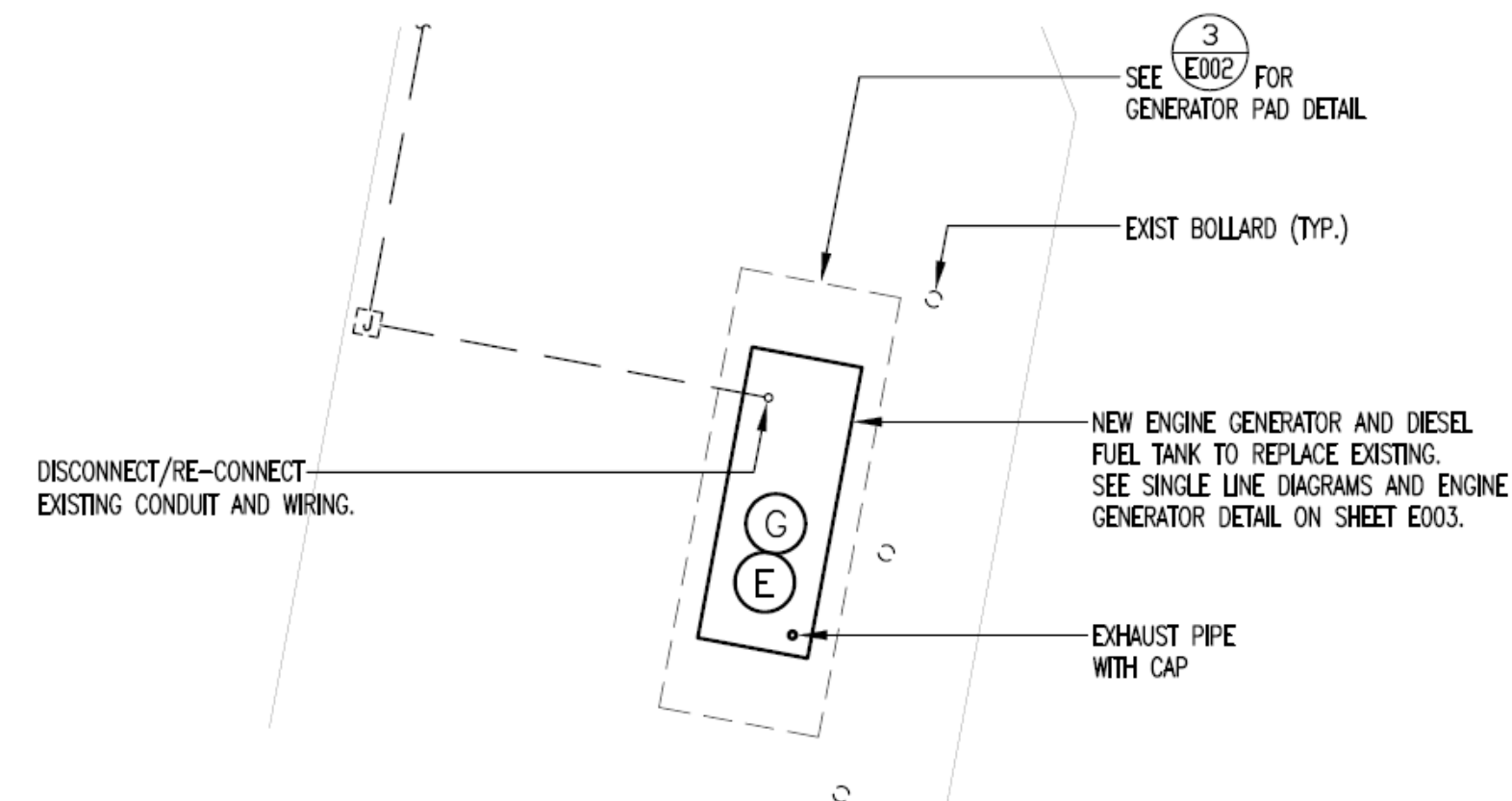


1 **ELECTRICAL PLAN**
SCALE: 1/8" = 1'-0"

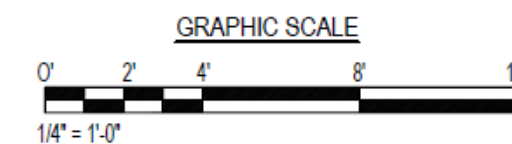


NOTED: ADJUST CONCRETE PAD SIZE TO MEET THE NEW GENERATOR BEING FURNISHED.

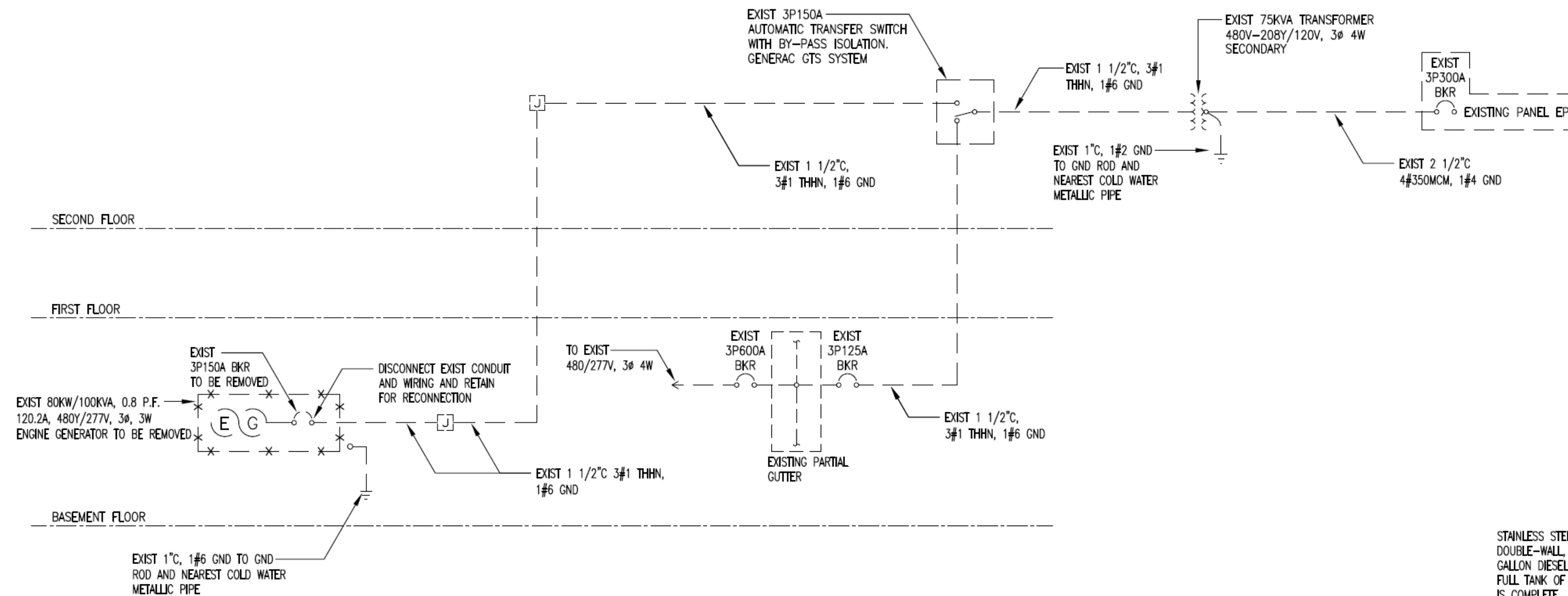
3 **GENERATOR PAD DETAIL**
NOT TO SCALE



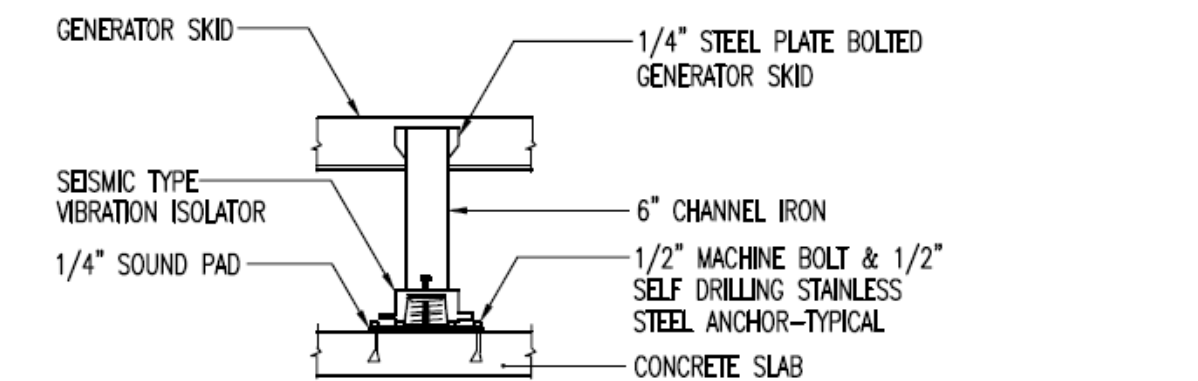
2 **ENLARGED ELECTRICAL PLAN**
SCALE: 1/4" = 1'-0"



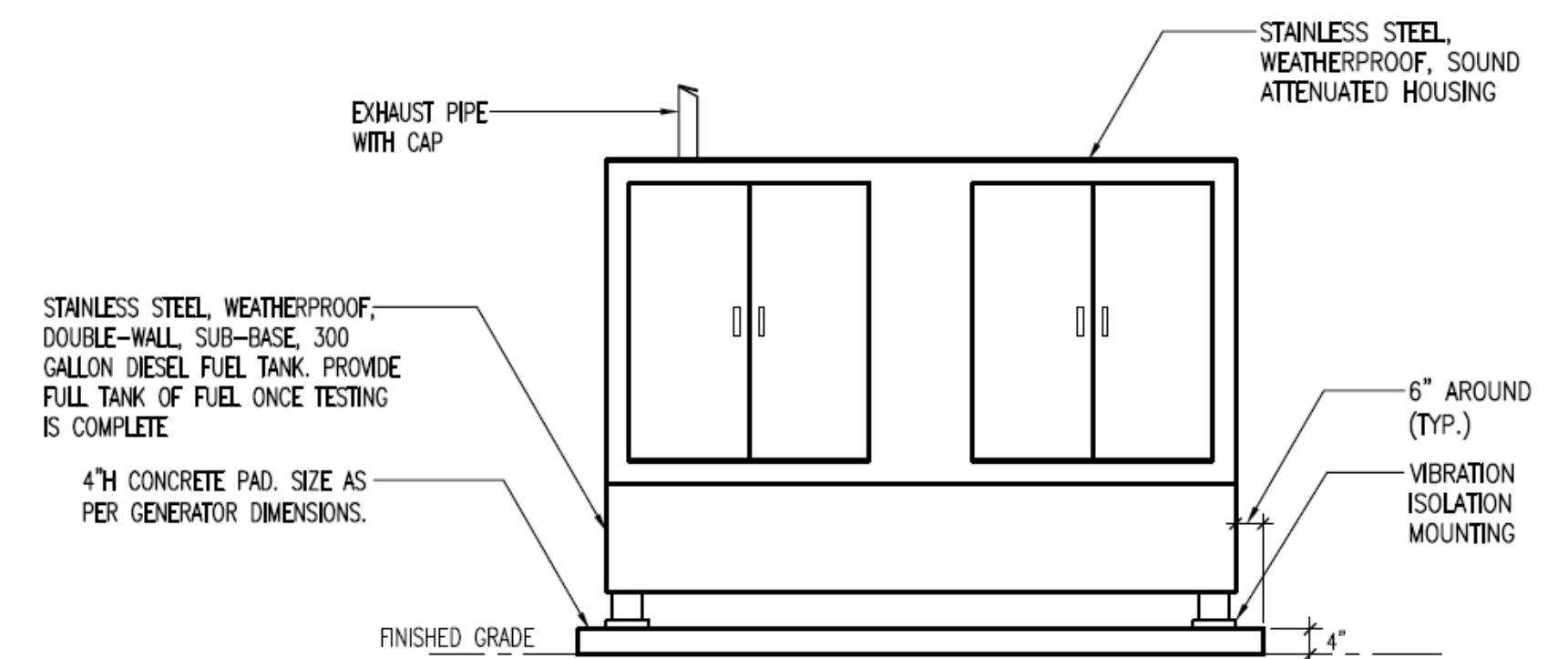
REVISION NO.	SYMBOL	DESCRIPTION	SHEET NO.	DATE	APPROVED												
CLAYTON C. Y. PANG LICENSED PROFESSIONAL ENGINEER No. 4145-E HAWAII, U.S.A. THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION Clayton C. Y. Pang Date: 2026.01.14 14:40:59 -10'00' HAWAII HEALTH SYSTEMS CORPORATION STATE OF HAWAII LEAHI HOSPITAL REPLACE GENERATOR ATHERTON HONOLULU, OAHU, HAWAII ELECTRICAL AND ENLARGED PLANS <table><tr><td>DESIGNED BY: GM</td><td>CHECKED BY: CP</td><td>DATE: 26L-0112</td><td>DRAWING NO. E002</td></tr><tr><td>DRAWN BY: GM</td><td>APPROVED BY: CP</td><td>DATE: JAN 2026</td><td>SHEET 3 OF 4</td></tr><tr><td colspan="2">SCALE: AS NOTED</td><td colspan="2">SHTS</td></tr></table>						DESIGNED BY: GM	CHECKED BY: CP	DATE: 26L-0112	DRAWING NO. E002	DRAWN BY: GM	APPROVED BY: CP	DATE: JAN 2026	SHEET 3 OF 4	SCALE: AS NOTED		SHTS	
DESIGNED BY: GM	CHECKED BY: CP	DATE: 26L-0112	DRAWING NO. E002														
DRAWN BY: GM	APPROVED BY: CP	DATE: JAN 2026	SHEET 3 OF 4														
SCALE: AS NOTED		SHTS															



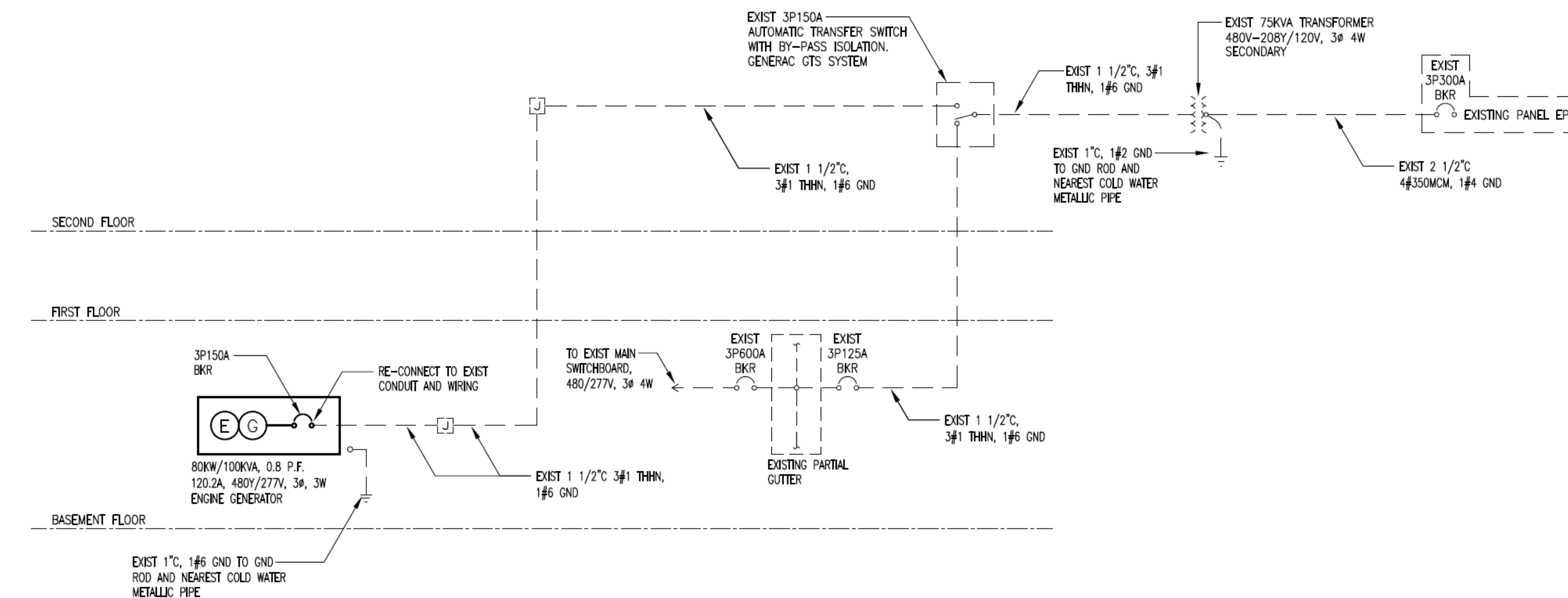
1 SINGLE LINE DIAGRAM - DEMOLITION WORK



VIBRATION ISOLATOR DETAIL



3 ENGINE GENERATOR DETAIL
NOT TO SCALE



2 SINGLE LINE DIAGRAM - NEW WORK

REVISION NO.	SYMBOL	DESCRIPTION	SHEET NO.	DATE	APPROVED
 CLAYTON C. Y. PANG LICENSED PROFESSIONAL ENGINEER No. 4145-E HAWAII, U.S.A. LICENSE EXPIRATION DATE 04/30/26 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. Clayton C. Y. Pang Date: 2026.01.14 14:33:29 -10'00' HAWAII HEALTH SYSTEMS CORPORATION STATE OF HAWAII LEAHI HOSPITAL REPLACE GENERATOR ATHERTON HONOLULU, OAHU, HAWAII SINGLE LINE DIAGRAMS AND DETAIL ELECTECH HAWAII, INC. DESIGNED BY: GM DRAWN BY: GM SCALE: AS NOTED CHECKED BY: CP APPROVED BY: CP DATE: 26L-0112 JAN 2026					
DESIGNED BY: GM			DATE: 26L-0112		DRAWING NO. E003
DATE: 26L-0112			JAN 2026		SHEET 4 OF 4