

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS**

ADDENDUM NO. 1

FOR

**CONVERT CARGO BUILDING TO WORKSHOP
AT
DANIEL K. INOUE INTERNATIONAL AIRPORT
HONOLULU, OAHU, HAWAII
STATE PROJECT NO. CO1325-33**

JUNE 2, 2023

This Addendum shall make the following amendments to the Bid Documents.

A. SPECIFICATIONS

1. TABLE OF CONTENTS

- a. Delete the TABLE OF CONTENTS in its entirety and replace with the attached TABLE OF CONTENTS, dated R06/02/2023.

2. SECTION 01010 DESCRIPTION OF WORK

- a. Delete SECTION 01010 in its entirety and replace with the attached SECTION 01010, dated R06/02/2023.

3. SECTION 02411 SELECTIVE DEMOLITION

- a. Delete SECTION 02411 in its entirety and replace with the attached SECTION 02411, dated R06/02/2023. Page numbers were corrected.

4. SECTION 03354 POLISHED CONCRETE FINISHING

- a. Add and make a part of the specifications the attached SECTION 03354, dated R06/02/2023.

B. PROPOSAL

1. PROPOSAL SCHEDULE

- a. Delete PROPOSAL SCHEDULE Pages P-7 & P-8 and replace with the attached Pages P-7 & P-8, dated R06/02/2023.

2. SUPPLEMENT TO PROPOSAL SCHEDULE

- a. Add and make part of the specification the attached Supplement to Proposal Schedule Pages P-9 to P-11, dated R06/02/2023

C. PLANS

1. Delete Drawing No. S001 (Sheet 26 of 84) and replace with Addendum No. 1 Drawing No. S001 dated 06/02/2023
2. Delete Drawing No. SD101 (Sheet 27 of 84) and replace with Addendum No. 1 Drawing No. SD101 dated 06/02/2023
3. Delete Drawing No. S101 (Sheet 28 of 84) and replace with Addendum No. 1 Drawing No. S101 dated 06/02/2023
4. Delete Drawing No. S102 (Sheet 29 of 84) and replace with Addendum No. 1 Drawing No. S102 dated 06/02/2023
5. Delete Drawing No. S103 (Sheet 30 of 84) and replace with Addendum No. 1 Drawing No. S103 dated 06/02/2023
6. Delete Drawing No. S201 (Sheet 31 of 84) and replace with Addendum No. 1 Drawing No. S201 dated 06/02/2023
7. Delete Drawing No. S501 (Sheet 32 of 84) and replace with Addendum No. 1 Drawing No. S501 dated 06/02/2023
8. Delete Drawing No. S502 (Sheet 33 of 84) and replace with Addendum No. 1 Drawing No. S502 dated 06/02/2023

The following is provided for information.

D. PREBID MEETING MINUTES

The attached Prebid Meeting Minutes and Attendance Sheet dated May 24, 2023 is provided for information.

Please acknowledge receipt of this Addendum No. 1 by recording the date of its receipt in the space therefore provided on Page P-4 of the Proposal.

Ford Fuchigami

FORD N. FUCHIGAMI
Airports Deputy Director

TABLE OF CONTENTS

	<u>Page</u>
Notice to Bidders.....	1 to 3
Instructions for Contractor’s Licensing.....	HAI
Special Provisions.....	SP-1 to SP-12
Wage Rate Schedule (Not Physically included in the Bid Documents)	


SPECIFICATIONS

PART I - GENERAL PROVISIONS

General Provisions for Construction Projects, 2016
(Not Physically included in the Bid Documents)

PART II – TECHNICAL PROVISIONS

DIVISION 1 - GENERAL REQUIREMENTS

	SECTION 01010 DESCRIPTION OF WORK..... 01010-1 to 01010-5
	SECTION 01300 SUBMITTALS 01300-1 to 01300-9
	SECTION 01400 CONTRACTOR QUALITY CONTROL PROGRAM 01400-1 to 01400-8
	SECTION 01524 CONSTRUCTION WASTE MANAGEMENT 01524-1 to 01524-7
	SECTION 01533 BARRICADES..... 01533-1 to 01533-2
	SECTION 01560 ENVIRONMENTAL CONTROLS..... 01560-1 to 01560-6
	SECTION 01561 CONSTRUCTION SITE RUNOFF CONTROL PROGRAM..... 01561-1 to 01561-21
	SECTION 01562 MANAGEMENT OF CONTAMINATED MEDIAS..... 01562-1 to 01562-17
	SECTION 01565 SECURITY MEASURES 01565-1 to 01565-3
	SECTION 01580 TEMPORARY FACILITIES AND UTILITIES 01580-1 to 01580-2
	SECTION 01700 MOBILIZATION AND DEMOBILIZATION 01700-1 to 01700-2
	SECTION 01715 EXISTING CONDITIONS HAZARDOUS MATERIALS SURVEY 01715-1 to 01715-2
	ATTACHMENT MURANAKA ENVIRONMENTAL CONSULTANTS “HAZARDOUS MATERIAL SURVEY REPORT” Dated 11/10/2022 1-30

DIVISION 2 – SITE CONSTRUCTION

	SECTION 02411 SELECTIVE DEMOLITION 02411-1 TO 02411-7
--	--

DIVISION 3 – CONCRETE

	SECTION 03300 CAST-IN-PLACE CONCRETE..... 03300-1 TO 03300-17
	SECTION 03354 POLISHED CONCRETE FINISHING 03354-1 TO 03354-9

DIVISION 4 – MASONRY

SECTION 04200 CONCRETE UNIT MASONRY..... 04200-1 TO 04200-15

DIVISION 5 - METALS

SECTION 05120 STRUCTURAL STEEL 05120-1 TO 05120-8
SECTION 05310 STEEL DECKING 05310-1 TO 05310-3
SECTION 05400 COLD-FORMED METAL FRAMING 05400-1 TO 05400-4
SECTION 05500 METAL FABRICATIONS 05500-1 TO 05500-8

DIVISION 6 - WOODS & PLASTICS

SECTION 06070 WOOD TREATMENT06070-1 to 06070-5
SECTION 06100 ROUGH CARPENTRY06100-1 to 06100-7
SECTION 06202 INTERIOR FINISH CARPENTRY06202-1 to 06202-3
SECTION 06410 CABINET WORK06410-1 to 06410-6
SECTION 06611 SOLID SURFACING FABRICATIONS.....06611-1 to 06611-8

DIVISION 7 - THERMAL & MOISTURE PROTECTION

SECTION 07210 THERMAL INSULATION07210-1 to 07210-4
SECTION 07841 PENETRATION FIRESTOPPING07841-1 to 07841-3
SECTION 07900 SEALANTS07900-1 to 07900-3

DIVISION 8 - DOORS & WINDOWS

SECTION 08111 HOLLOW METAL DOORS AND FRAMES08111-1 to 08111-7
SECTION 08210 WOOD DOORS08210-1 to 08210-6
SECTION 08310 ACCESS DOORS08310-1 to 08310-4
SECTION 08710 FINISH HARDWARE08710-1 to 08710-9
SECTION 08800 GLAZING08800-1 to 08800-3

DIVISION 9 – FINISHES

SECTION 09250 GYPSUM BOARD.....09250-1 to 09250-4
SECTION 09301 TILING.....09301-1 to 09301-6
SECTION 09305 TILE SETTING MATERIALS09305-1 to 09305-7
SECTION 09500 ACOUSTICAL CEILINGS09500-1 to 09500-8
SECTION 09770 FIBERGLASS REINFORCED WALL PANELS.....09770-1 to 09770-4
SECTION 09901 PAINTING 09901-1 to 09901-15
SECTION 09930 STAINING AND TRANSPARENT FINISHING.....09930-1 to 09930-5

DIVISION 10 – SPECIALTIES

SECTION 10260 CORNER GUARDS AND DOOR PROTECTION10260-1 to 10260-3
SECTION 10511 METAL LOCKERS.....10511-1 to 10511-5
SECTION 10520 FIRE EXTINGUISHERS AND CABINETS10520-1 to 10520-2
SECTION 10990 MISCELLANEOUS SPECIALTIES.....10990-1 to 10990-5

DIVISION 12 – FURNISHINGS

SECTION 12481 ENTRANCE FLOOR MATS & FRAMES.....12481-1 to 12481-6

DIVISION 13 - SPECIAL CONSTRUCTION

SECTION 13283 REMOVAL AND DISPOSAL OF
 POLYCHLORINATED BIPHENYLS (PCB) –
 CONTAINING LIGHT BALLASTS AND
 MERCURY-CONTAINING LAMPS 13283-1 to 13283-10

SECTION 13851 ADDRESSABLE FIRE ALARM SYSTEM 13851-1 to 13851-21

SECTION 13930 WET PIPE SPRINKLER SYSTEM13930-1 to 13930-9

SECTION 13966 CLEAN AGENT FIRE EXTINGUISHING SYSTEM ... 13966-1 to 13966-14

DIVISION 15 – MECHANICAL

SECTION 15000 GENERAL MECHANICAL REQUIREMENTS 15000-1 TO 15000-18

SECTION 15400 PLUMBING, GENERAL PURPOSE 15400-1 TO 15400-11

SECTION 15650 AIR CONDITIONING AND VENTILATION 15650-1 TO 15650-39

SECTION 15901 TESTING, ADJUSTING AND BALANCING (TAB) 15901-1 TO 15901-3

DIVISION 16 – ELECTRICAL

SECTION 16050 BASIC MATERIALS AND METHODS..... 16050-1 TO 16050-11

SECTION 16510 LIGHTING 16510-1 TO 16510-4

SECTION 16722 FIRE ALARM SYSTEM 16722-1 TO 16722-18

SECTION 16740 BUILDING TELECOMMUNICATION SYSTEMS..... 16740-1 TO 16740-8

Requirements of Chapter 104, HRS (eH104-3, Rev 04/21) 1 to 2

Proposal P-1 to P-6

Proposal Schedule P-7 to P-8

Supplement to the Proposal Schedule P-9 to P-11

Surety Bid Bond (r11/17/98)

FORMS

- Performance Bond (Surety)
- Performance Bond
- Surety Labor and Material Payment Bond
- Labor and Material Payment Bond
- Chapter 104, HRS Compliance Certification
- Certification of Compliance for State Resident (ACT 192, SLH 2011)
 Provision to be Included in Construction Procurement Solicitation

DIVISION 1 - GENERAL REQUIREMENTS

SECTION 01010 - DESCRIPTION OF WORK

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. The General Provisions of the Contract, including the General Provisions for Construction Projects (2016), Special Provisions and General Requirements of the Specifications, apply to the work specified in this Section. Special attention is directed to the Proposal Schedule.

1.02 SCOPE OF WORK

- A. Renovate existing Cargo Warehouse Building to for new Paint and Wood Workshops. New exhaust system, power upgrades, painting, flooring, tiling, New restrooms/showers, Paint booth, Storage Mezzanine, Big Ass Fans, Repair Roll up doors, etc. as shown in the construction drawings and in these Specifications.
- B. Section Includes:
1. Location of the work.
 2. Hours of work.
 3. Safety.
 4. Operation of airport facilities during construction.
 5. Work Under Separate Contracts.
 6. Special project requirements.

1.03 VEHICLE PARKING

- A. Public Parking is available first come first serve for a fee at all three Airport Parking Structures. Hourly and daily fee schedule is posted online at the Daniel K. Inouye International Airport website. <https://airports.hawaii.gov/hnl/getting-to-from/parking/>
- B. Upon approval by the DOT-A, monthly passes at the International Parking Structure may be purchased at the rate of \$175/month, valid until the expiration date of the Contract. All costs associated with obtaining parking shall be incidental to the Contract. The Contractor shall submit the following information in writing to the State Project Manager, for consideration of approval for a monthly pass.
1. Business Name of Contractor
 2. Project Number
 3. Contract Number
 4. Contract Expiration Date
 5. Employee's Name/Job Title/Airport ID Media Badge Number
 6. Effective Date Parking Requested for.

1.04 PROVISIONS FOR FIELD OFFICE/STORAGE SPACE

- A. Bidders shall not assume that a field office and or storage space will be available on the Airport Property by the Notice to Proceed date. Pending the availability, the State may issue revocable permit(s) to the Contractor for the use of a space within the Airport Property, for \$25 each location/permit, to be used specifically for a field office and/or storage of materials and equipment. The State will make every effort to provide the Contractor with space on airport property, however, should the State determine that no space is available for such use(s), the responsibility shall then be on the Contractor to find space outside of airport property at no additional cost to the State.

1.05 LOCATION OF THE WORK

- A. The work to be performed under this contract is located at the end of the Ewa Access Road, the Daniel K. Inouye International Airport, Honolulu, Hawaii.
- B. Conditions:
 - 1. The Main Terminal and airport roadways shall remain operational at all times. Any damages to existing areas caused by the Contractor shall be repaired by the Contractor at no cost to the State.

1.06 HOURS OF WORK

- A. Construction hours will be anytime between the hours of 7:00 a.m. and 3:30 p.m. without considerable disruption to airport operations or other adjacent tenants, with the exception of the following tasks as follows:
 - 1. Contractor shall coordinate other work activities associated with loud noise with the Project Manager for the after - hours between 10:30 p.m. to 5:00 a.m.
- B. Submit a proposed construction schedule to Project Manager for review and approval within fourteen (14) calendar days prior to start of work. Along with project barricade plan, scheduling, the construction schedule shall also include the project phasing and work broken down by the project phases. The Contractor shall coordinate their schedule with the Project Manager if rescheduling of work or intermittent work is required, such work shall be performed at no extra cost to the State. If the Contractor elects to work overtime, compensation for State employees and for construction management consultant as authorized by the State shall be the Contractor's obligation to pay in accordance with Section 7.5 of ARTICLE VII of the General Provisions.
- C. Contractor shall clean work areas at the end of each working shift. Rubbish, loose materials, etc. shall be disposed of daily. Materials shall be safely secured and stored in an area designated by the Airport Manager.

1.07 SAFETY

- A. The Contractor shall take the necessary precautions to protect his workers and other personnel from injuries. The rules and regulations promulgated by the Occupational Safety and Health Acts are applicable and made a part of these specifications.
- B. Barricades and warning signs shall be erected by the Contractor in the work area to properly protect all personnel in the area.
- C. During the progress of work debris, empty crates, waste, material drippings, etc., shall be removed by the Contractor at the end of each workday, and the work area shall be left clean and orderly.

1.08 OPERATION OF AIRPORT FACILITIES DURING CONSTRUCTION

- A. The Contractor shall coordinate the phases of work under this contract with the Project Manager to permit the continuing operation of existing Airport facilities and to minimize disruption to pedestrian and vehicular traffic.
- B. Utility Maintenance: During the construction of this contract, existing utility services serving occupied or used facilities shall not be disrupted except where authorized in writing by authorities having jurisdiction. Contractor shall provide temporary services during interruptions to existing utilities, as acceptable to the Project Manager. Damages to the existing utility facilities by the Contractor will be repaired at the Contractors expense.
- C. Outages for water, power, communications, air conditioning or any other utility, if necessary, shall be kept to a minimum and scheduled for off-peak hours, generally from 12:00 a.m. to 6:00 a.m. The Contractor shall submit written requests to the Project Manager for such outages no later than fourteen (14) calendar days in advance. The request shall include a description of work and the duration of the outage. The Contractor shall not proceed with such outages until written approval is received from the State.

1.09 WORK UNDER SEPARATE CONTRACTS

- A. General: Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract or other contracts. Coordinate the Work of this Contract with work performed under separate contracts. No other construction anticipated at this time for this location.

1.10 ALLOWANCE

- A. Allowance includes, but not limited to, works required for environmental measures, when required by the regulation(s), miscellaneous repair, unforeseen conditions and other measures, such as temporary traffic controls, temporary safety measures, security measures, and material short supply when approved by the Project Manager.
- B. Use the allowance only as directed by the Project Manager for the airport's purposes and only by Change Orders that indicate amounts to be charged to the allowance.

- C. Contractor's overhead, profit, and related costs for products and equipment ordered by the Airport under the contingency allowance are included in the allowance and are not part of the Contract Sum. These costs include delivery, installation, taxes, insurance, equipment rental, and similar costs.
- D. Change Orders authorizing use of funds from the contingency allowance will include Contractor's related costs and reasonable overhead and profit margins.
- E. At project closeout, any unused amounts remaining in the Allowance will be credited back to the State.
- F. The Contractor shall coordinate the installation of video monitoring and access control systems (VMACS) at each of the building entrances with the State's VMACS maintenance contractor. This work shall be paid for under an allowance item.
- G. The State may request the Contractor's assistance in relocating shop equipment from their existing locations to the new workshop being constructed as part of this project. If a relocation request is made, then the Contractor shall submit a proposal to relocate the equipment. If any equipment is found to be in a condition where it cannot be relocated, then the State may request a proposal to replace this equipment from the Contractor. The State may authorize the work via change order, subject to availability of funds. The Contractor shall not perform any relocation work or any equipment replacements without an executed change order from the State Project Manager. This work shall be paid for under an allowance item.



1.11 CLEANING UP

- A. The Contractor shall always keep the work area, including storage or staging areas, free from accumulations of waste materials. Before completing the work, the Contractor shall remove from the work and premises any rubbish, tools, scaffolding, equipment, and materials that are not the property of the Airports Division. Upon completing the work, the Contractor shall leave the work area in clean, neat, and orderly condition satisfactory to the Project Manager.

1.12 SPECIAL PROJECT REQUIREMENTS

- A. Upon receipt of the Contract, the Contractor shall process and return the Contract to the State Contract Office within five (5) calendar days.
- B. The State intends to award the contract within 60 calendar days from bid opening date and issues the Notice to Proceed for the Project to the Contractor within 90 calendar days after award date. The Contractor shall be able to commence work on this date.

PART 2 - PRODUCTS

Not Used.

PART 3 - EXECUTION

Not Used.

PART 4 - MEASUREMENT AND PAVEMENT

4.01 METHOD OF MEASUREMENT

- A. Work under this section will be measured for payment and paid for at the pre-approved contract price.

4.02 BASIS OF PAYMENT

- A. All payments shall be full compensations for all work described under this Section, and all materials, labors, tools, equipment, and incidentals needed to complete the Contract.



- B. Miscellaneous Repair, Unforeseen Conditions, Video Monitoring & Access Control Work, and Relocation or Replacement of Shop Equipment shall be paid for under their associated allowances

<u>Item No.</u>	<u>Item Description</u>	<u>Unit</u>
01010.1	Basis of Bid for Item No. 01010.1 shall be entire work, complete in accordance with the drawings and specifications, but not including the work indicated or specified under Bid Items 01524.1, 01561.1, 01700.1 and ALLOWANCES.	L.S.
01010.2	Miscellaneous Repair	Allowance
01010.3	Unforeseen Conditions	Allowance
01010.4	Video Monitoring & Access Control Work	Allowance
01010.5	Relocation or Replacement of Shop Equipment	Allowance



END OF SECTION

DIVISION 2 – SITE CONSTRUCTION

SECTION 02411 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

The General Provisions of the contract, including the General Provisions for Construction Projects (2016), Special Provisions and General Requirements of the Specifications, apply to the work specified in this section.

1.02 SUMMARY

A. Section Includes:

1. Demolition and removal of selected portions of building or structure.

1.03 DESCRIPTION OF WORK

- A. Extent of selective demolition work is indicated on the drawings. Selective demolition work includes, but is not limited to, selective demolition, removal, and subsequent disposal of all materials indicated or required to be removed.
- B. It shall be the responsibility of the Contractor to examine the project site and determine for himself the existing conditions.
- C. Execute all work in an orderly and careful manner with due consideration for all items of work to remain.
- D. Obvious conditions which exist on the site shall be accepted as part of the work, even though they may not be clearly indicated on the Drawings and/or described herein, or may vary therefrom.
- E. All debris of any kind accumulated from the work of this section shall be disposed off the site.
- F. Protect all existing conditions surrounding the work area, including, but not limited to, walkways, parking, landscaping, etc. at all times from damage.
- G. Any damage as a result of demolition work and any neglect to provide protection shall be fixed new at Contractor's own expense.
- H. Demolish and remove materials as indicated on the drawings and as required to perform work under this project.
- I. Carefully remove, salvage, and label existing items and store at project site at location as approved by the Engineer for re-installation in new work as indicated.

- J. Remove/relocate existing furniture, equipment, pictures, signage, blinds, etc. as required to perform demolition work. Return all items to its original location, unless otherwise indicated or directed by the Engineer, after completion of work.
- K. Temporarily disconnect and remove all existing overhead utilities on the roof if required during roofing work. Obtain State's written approval of all utility outages prior to performing work. Re-install and reconnect utility service when roofing work is completed.
- L. Permits, Notice, Etc:
 - 1. The contractor shall procure and pay for all necessary permits or certificates that may be required in connection with this work.
 - 2. The Contractor shall serve proper notice and consult with the Engineer regarding any temporary disconnections of electrical or other utility lines in the area which may interfere with the removal work, and all such lines where necessary shall be properly disconnected or relocated before commencing with the work.
 - 3. Submit, where required, a State Department of Health Clean Air Branch, "Asbestos Notifications of Demolition & Renovation" form.

1.04 DEFINITIONS

- A. Remove: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and salvaged or removed and reinstalled.
- B. Remove and Reinstall: Detach items from existing construction, prepare for reuse, and reinstall where indicated.
- C. Existing to Remain: Existing items of construction that are not to be permanently removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

1.05 PREINSTALLATION MEETINGS

- A. Pre-demolition Conference: Conduct conference at Project site.

1.06 SUBMITTALS

- A. Schedule: Submit schedule indicated proposed methods and sequence of operations for selective demolition work for review prior to commencement of work. Include coordination for temporary shut-off and continuation of utility services as required, together with details for dust and noise control protection.
- B. Pre-demolition Photographs or Video: Submit before Work begins.
- C. Landfill Records: Indicate receipt and acceptance of hazardous wastes by a landfill facility licensed to accept hazardous wastes, as applicable.

1.07 FIELD CONDITIONS

- A. State will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so the State's operations will not be disrupted.
- B. Conditions existing at time of inspection for bidding purpose will be maintained by the State as far as practical.
- C. Notify Engineer of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- D. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
 - 1. If suspected hazardous materials are encountered, do not disturb; immediately notify the Engineer.
- E. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
 - 1. Maintain fire-protection facilities in service during selective demolition operations.
- F. Partial Demolition and Removal: Items indicated to be removed but of salvageable value to Contractor, may be removed from structure as work progresses. Transport salvaged items from site as they are removed. Storage or sale of removed items on site will not be permitted.
- G. Explosives: Use of explosives will not be permitted.
- H. Noise and Dust shall be kept within acceptable levels at all times including non-working hours, weekends and holidays, in conformance with requirements of other sections of this specification.
- I. Other Conditions:
 - 1. Wherever trucks and/or vehicles leave the site and enter surrounding paved streets, the Contractor shall prevent any material from being carried onto the pavement. Wastewater shall not be discharged into existing streams, waterways, or drainage systems such as gutter and catch basins unless treated to comply with Department of Health pollution regulations.
 - 2. Trucks hauling materials shall be covered as required by PUC regulation. Trucks hauling fine materials shall be covered.
- J. Existing Conditions: The Contractor shall be responsible for protection of existing conditions for the entire duration of the project. Damage to the existing conditions as a result of the work of this section shall be corrected at Contractor's own expense.

1.08 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials so as not to void existing warranties.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Standards: Comply with ANSI/ASSE A10.6 and NFPA 241.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- B. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Engineer.
- C. Survey of Existing Conditions: Prior to commencement of selective demolition work, inspect areas in which work will be performed. Inventory existing conditions of structure surfaces, equipment, or surrounding properties which could be misconstrued as damage resulting from selective demolition work; photograph, video or otherwise document and file with the Engineer prior to starting work.

3.02 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.
 - 1. The existence of exposed and concealed utility lines other than those shown on the drawings is not definitely known. Should any other utility line be encountered, the Contractor shall immediately notify the Engineer and follow his direction as to procedure. Maintain existing utilities indicated to remain, keep in service, and protect against damage during demolition operations. Do not interrupt existing utilities serving occupied building or facilities, except when authorized in writing by the Engineer. Submit written notice of outages and interruptions not less than fourteen (14) days in advance of intended outage. Report damage, however slight, immediately. Do not repair or reconstruct any pipe, conduit, or installation without authorization, except perform emergency repairs immediately.

- B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off indicated utility services and mechanical/electrical systems serving areas to be selectively demolished.
 - 1. The State will arrange to shut off indicated services/systems when requested by Contractor.
 - 2. Arrange to shut off indicated utilities with utility companies.
 - 3. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems.

3.03 PREPARATION

- A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
 - 1. Comply with requirements for access and protection in Division 1 General Requirements.
- B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
 - 1. Erect temporary barricades as required, to prevent people from entering project area to the extent as accepted by the Engineer. The extent of barricade may be adjusted as necessary with the acceptance of the Engineer. This work shall be accomplished at Contractor's own expense.
 - 2. When necessary, the Contractor shall provide, erect, and maintain lights, barriers, etc., as required by traffic and safety regulations with special attention to protection of life.
 - 3. Provide interior and exterior shoring, bracing, or support to prevent movement, settlement, or collapse of structure or elements to be removed, and adjacent facilities or work to remain.
 - 4. Protect from damage existing finish work that is to remain in place and becomes exposed during demolition operations.
 - 5. Life safety procedures and provisions shall be in conformance with all applicable Federal, State, and City and County regulations, including OSHA.
 - 6. Remove protections at completion of work.
- C. Temporary Shoring: Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.

3.04 SELECTIVE DEMOLITION, GENERAL

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:

1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
2. Cut or drill from exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
3. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on adjacent roads and parking areas.
4. Dispose of demolished items and materials promptly. Comply with requirements in SECTION 01560 ENVIRONMENTAL CONTROLS and other Division 1 General Requirements.

B. Removed and Re-installed Items:

1. Clean and repair items to functional condition adequate for intended reuse.
2. Pack or crate items after cleaning and repairing. Identify contents of containers.
3. Protect items from damage during transport and storage.
4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.

C. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Engineer, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.

D. If unanticipated mechanical, electrical, or structural elements which conflict with intended function or design are encountered, investigate and measure both nature and extent of the conflict. Submit report to the Engineer in written, accurate detail. Pending receipt of directive from the Engineer rearrange selective demolition schedule as necessary to continue overall job progress without delay.

E. Conduct selective demolition operations and debris removal in a manner to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities. Do not close, block or otherwise obstruct streets, walks or other occupied or used facilities without written permission from the Engineer. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations, as directed by the Engineer.

F. Temporary buildings and facilities which are not of permanent construction but are extensively used or are essential for public use for a period of time shall be provided with safe pedestrian passageways around the construction site as per ADA-ABA 201.3.

3.05 DISPOSAL OF DEMOLISHED MATERIALS

A. General: Except for items or materials can to be recycled, reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from Project site.

1. Do not allow demolished materials to accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent areas.
3. Comply with requirements specified in SECTION 01560 ENVIRONMENTAL CONTROLS and other Division 1 General Requirements.

B. Burning: Do not burn demolished materials.

C. Disposal: Transport demolished materials off Owner's property and legally dispose of them.

3.06 CLEANING

A. Upon completion of demolition work, remove tools, equipment, and demolished materials from site. Remove protections and leave interior areas broom clean.

B. Clean adjacent areas and improvements of dust, dirt, and debris caused by selective demolition operations. Repair demolition performed in excess of that required. Return structures and surfaces to condition existing prior to commencement of selective demolition work. Repair adjacent construction or surfaces soiled or damaged by selective demolition work.

C. Where exposed existing surfaces and/or materials are damaged or left unfinished by the removal work, the resultant exposed unfinished surfaces shall be repaired, patched, filled or finished to match the adjoining existing surfaces. Where the method of repair is not indicated or specified, the Contractor shall perform the repair work.

PART 4 - MEASUREMENT AND PAYMENT

4.01 BASIS OF MEASUREMENT AND PAYMENT

A. Work under this section will not be measured nor paid for separately but shall be considered incidental to and included in the contract Lump Sum Price.

B. Allowance: Unforeseen Site Conditions encountered during the selective demolition or construction period shall be paid for under an allowance item in the Proposal Schedule.

<u>Item No.</u>	<u>Item</u>	<u>Unit</u>
02411.1	Selective Demolition – Unforeseen Conditions	Allowance

END OF SECTION

SECTION 03354 - POLISHED CONCRETE FINISHING

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Concrete polishing including the following:
 - 1. Grinding and honing concrete surface to receive pure reactive colloidal silica concrete densifier.
 - 2. Application of pure reactive colloidal silica concrete densifier.
 - 3. Progressively refining, polishing of the densified concrete surface.
 - 4. Application of polished concrete protective treatment.

1.02 RELATED SECTIONS

- A. Section 01300 – Submittals
- B. Section 03300 - Cast-in-Place Concrete.

1.03 REFERENCES

- A. American Society of Concrete Contractors (ASCC) Subgroup - Concrete Polishing Council (CPC) Polished Concrete Definition: D 100.1.
- B. American National Standard Institute National Floor Safety Institute (ANSI/NSF):
 - 1. ANSI/NSFI B101.1 - Test Method for Measuring Wet SCOF of Common Hard-Surface Floor Materials.
- C. ASTM International (ASTM):
 - 1. ASTM C1028 - Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method.
 - 2. ASTM C1353 - Standard Test Method for Abrasion Resistance of Dimension Stone Subjected to Foot Traffic Using a Rotary Platform, Double-Head Abraser.
 - 3. ASTM D523 - Standard Test Method for Specular Gloss.
 - 4. ASTM D4541 - Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers.
 - 5. ASTM E96/96M Method B (Water Method) - Standard Test Methods for Water Vapor Transmission of Materials.
 - 6. ASTM G154 - Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Pre-Installation Meeting: Convene before the start of work on new concrete slabs, patching of existing concrete slabs, and start of application of concrete finish system.
 - 1. Require attendance of parties directly affecting work of this section, including the University, Contractor, Architect, concrete installer, and surface treatment/polishing contractor. Meeting should only convene when required

- parties are present.
2. Review the Following:
 - a. Physical requirements of completed concrete slab and slab finish.
 - b. Locations and time of test areas.
 - c. Protection of surfaces not scheduled for finish application.
 - d. Surface preparation.
 - e. Application procedure.
 - f. Quality control.
 - g. Cleaning.
 - h. Protection of finish system.
 - i. Coordination with other ongoing work.

1.05 SUBMITTALS

- A. Submit under provisions of Section 01300 - Submittal Requirements.
- B. Shop Drawings: Indicate information on shop drawings as follows:
 1. Layout including dimensions and floor grinding schedule.
 2. Plan view of floor and joint pattern layout.
 3. Areas to receive colored surface treatment.
 4. Hardener, sealer, densifier identified in notes.
- C. Product Data: Submit product data, including manufacturer's product data sheets, for specified products.
 1. Safety Data Sheets (SDS).
 2. Preparation and concrete grinding procedures.
 3. Colored Concrete Surface, Dye Selection Guides.
- D. VOC Certification: Submit certification that products furnished comply with regulations controlling use of volatile organic compounds (VOC).
- E. Certificates:
 1. Letter by manufacturer stating that installer is listed applicator of specified products, and has completed the necessary training programs.
- F. Floor protection plan.
- G. Warranty: Submit warranty documents specified.
- H. Operation and Maintenance Data: Submit operation and maintenance data for installed products.
 1. Manufacturer's instructions on maintenance renewal of applied treatments.
 2. Protocols and product specifications for joint filing, crack repair and/or surface repair.

1.06 QUALITY ASSURANCE

- A. Installer Qualifications:
 1. Applicator to be familiar with specified requirements and methods needed for proper performance of work of this section. Must have available proper equipment to perform work within scope of this project on a timely basis. Applicator should have successfully performed a minimum of 4 projects of similar scope and complexity.

- B. Concrete finishing components and materials shall be from single manufacturer.
- C. Manufacturer Qualifications:
 - 1. Manufacturer capable of providing field service representation during construction and approving application method.
 - 2. Manufacturer shall have a minimum 12 years of experience in manufacturing components similar to or exceeding requirements of project.
- D. Mock-Ups: On site, prior to the start of the polished concrete finishing process.
 - 1. Require attendance of parties directly affecting work of this Section, including the Contractor, Architect, applicator, and University
 - 2. Notify the above parties one week in advance of date and time when mock-up will be completed.
 - 3. Demonstrate the materials, equipment and application methods to be used for work specified herein in pre-approved location approximately 50 sq ft (4.645 sq m) in area or as directed by Architect.
 - 4. Retain approved mock-up during construction as a standard for judging the completed work. Areas may remain as part of the completed work.

1.07 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in original containers, with seals unbroken, bearing manufacturer labels indicating brand name and directions for storage.
- B. Store concrete hardener/densifier and surface protectant treatment in environment recommended on published manufacturer's product data sheets.
 - 1. Store containers upright in a cool, dry, well-ventilated place, out of the sun with temperature between 40 and 100 degrees F (4 and 38 degrees C).
 - 2. Protect from freezing.
 - 3. Store away from other chemicals and potential sources of contamination.
 - 4. Keep lights, fire, sparks and heat away from containers.
 - 5. Do not drop containers or slide across sharp objects.
 - 6. Do not stack pallets more than three high.
 - 7. Keep containers tightly closed when not in use.

1.08 PROJECT CONDITIONS

- A. Environmental limitations:
 - 1. Comply with manufacturer's written instructions for substrate temperature and moisture content, ambient temperature and humidity, ventilation, and other conditions affecting performance and finishing requirements.
- B. Close areas to traffic during floor application and after application for time period recommended in writing by manufacturer.
- C. Protect the completed slab to prevent damage by the other trades during floor completion.

- D. Temperature Limitations:
 - 1. Apply when surface and air temperature are between 40 degrees F (4 degrees C) and 95 degrees F (35 degrees C) unless otherwise indicated by manufacturer's written instructions.
 - 2. Apply when surface and air temperatures are expected to remain above 40 degrees F (4 degrees C) for a minimum of 8 hours after application, unless otherwise indicated by manufacturer's written instructions.
- E. Apply when air conditions are calm to minimize surface treatment contacting surface not intended to be finished.
- F. Do not apply to frozen substrate. Allow adequate time for substrate to thaw if freezing conditions exist before application.
- G. Apply a minimum of 24 hours after rain event. Suspend application when rain is anticipated for a period of 8 hours after application, unless otherwise indicated by manufacturer's written instructions.
- H. Temporary Heat: Ambient temperature of 50 degrees F (10 degrees C) minimum.
- I. Ventilation: Provide adequate ventilation in confined or enclosed areas in accordance with manufacturer's instructions.

1.09 SEQUENCING

- A. Sequence with Other Work: Comply with manufacturer's written recommendations for sequencing construction operations.

1.10 WARRANTY

- A. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and does not limit, other rights Owner may have under Contract Documents.
- B. Contractors Surety shall not be held liable beyond 2 years from project acceptance date.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable Manufacturer or Approved Equal:

Sike U.S. Headquarters, located at 201 Polito Avenue, Lyndhurst, NJ, 07071, Direct Tel: 201-933-8800; Fax: 201-804-1076

Solomon Colors, which is located at: 4050 Color Plant Rd.; Springfield, IL 62702-1060; Toll Free Tel: 800-624-0261; Tel: 217-522-3112; Fax: 800-624-3147;

- B. Requests for substitutions will be considered in accordance with provisions of general provisions of this specifications.

2.02 MATERIALS

- A. Water-based, Colloidal silica blended surfactant used for cutting aid: Product used to extend the life of diamond tooling and minimize concrete surface scratches during the wet-grinding process if requires to cut the concrete cap.
 - 1. Basis of Design: Lythic Cleaner manufactured by Sika Corporation or approved equal.
 - 2. Subject to compliance with the following requirements:
 - a. Comply with national, state and district AIM VOC regulations and contains 0.067 oz per gal (0.5 g per L) or less.
 - b. Formulated with colloidal silica and cleaning surfactants
- B. Lithium Concrete Densifier: Colloidal silica concrete densifier.
 - 1. Basis of Design: Scofield Formula One – Lithium densifier MP or approved equal.
 - 2. Subject to compliance with the following requirements:
 - a. Abrasion Resistance: Greater than 60 percent improvement over untreated samples when tested in accordance with ASTM C1353 or ASTM C779
 - b. Coefficient of Friction: Greater than 0.60 dry, Greater than 0.60 wet when tested in accordance with ASTM C1028.
 - c. Adhesion: Greater than 10 percent increase in pull-off strength when compared to an untreated sample when tested in accordance with ASTM D4541.
 - d. UV Stability: No degradation or yellowing of material when tested in accordance with ASTM G154.
 - e. Colloidal silica particles size ranging from 3 to 60 nanometers
 - f. Chemical pH no greater than pH10
- C. Polished Concrete Protective Treatments:
 - 1. Polished concrete film forming concrete protector, colloidal silica sealer.
 - a. Basis of Design: Scofield Formula One Guard-W manufactured by Sika Corporation or approved equal.

2.03 EQUIPMENT

- A. Auto Scrubber Machine: For cleaning operations.
- B. Hand Grinder or stand-up edger for edge grinding/polishing.
- C. Grinding/Polishing Equipment:
 - 1. Dry grinding/polishing machines shall include a dust extraction system, including HEPA filtration vacuum.
- D. Diamond Segments:
 - 1. Use heads from the same manufacturers throughout the entirety of the project.
- E. Diamond Heads Types:

1. Metal Diamonds: 16 or 200.
 2. Hybrid Style Diamonds: 30 or 100.
 3. Resin, Phenolic or Ceramic Bonded Diamonds: 100, 200, 400, 800, 1500, and 3000 (Grit range will depend on individual tooling manufacturers system).
- F. Burnishing Machine and Burnishing Pads to produce specified results.
1. Burnishing Machine: High-speed burnisher, generating pad speeds of 1,500 RPM or higher, as recommended by protective treatment manufacturer. Dust skirt must be installed at time of work.
 2. Burnishing Pads: as recommended by protective treatment manufacturer.
 - a. White Burnishing Pad, non-abrasive.
 - b. Abrasive diamond burnishing pads selective grades 200, 400, 600, 800, 1000, 1500, 3000

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Site Verification of Conditions:
 1. Verify that concrete substrate conditions, which have been previously installed under other sections or contracts, are acceptable for product installation in accordance with manufacturer's instructions prior to installation of concrete finishing materials.
- B. Ensure surfaces are clean and free of dirt and other foreign matter harmful to performance of concrete finishing materials.
- C. Examine surface to determine soundness of concrete for polishing.
- D. Do not begin installation until substrates have been properly prepared. Beginning work constitutes acceptance of site conditions and responsibility for defective installation caused by prior observable conditions.
- E. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 PREPARATION

- A. Repair, patch and fill cracks, voids, defects and damaged areas in surface as approved by the Architect. Allow repair materials to cure completely before carrying out additional work, grinding or product application.
- B. Variations in substrate texture and color will affect final appearance, should be corrected prior to application of colloidal silica concrete densifier, refined polishing stages and protective treatments.
- C. Protect surrounding areas prior to application. If product is accidentally sprayed or spilled to adjacent surfaces, flush with water immediately before material dries.
- D. Seal open joints in accordance with Section 07900.
- E. Apply specified sealants and caulking and allow complete curing before application

of penetrating colloidal silica concrete densifier.

3.03 CONCRETE GRINDING, HONING, AND POLISHING

- A. Adhere to industry standard grinding, honing, and polishing procedures for dry and wet grinding and honing. (Reference ASCC - Concrete Polishing Council CPC Polished Concrete Definition: D 100.1)
- B. Scrub and rinse slab surface with clean water and vacuum with auto-scrubber between and after final passes.
- C. Sequential progression of diamond tooling steps shall be required and limited to no more than double the grit value of the previous diamonds used.
- D. Overlap adjacent passes by 25 percent.
- E. Perform each pass perpendicular to the other pass north/south then east/west; multiple passes may be needed.
- F. Progressively grind, hone and polish the slab surface utilizing approved diamond segments as necessary to produce finishing requirements.
 - 1. Grout Coat material to fill gaps, voids and pop-outs during grinding operation per manufacturer's published recommendations.
 - 2. Apply water-based, Colloidal Silica blended surfactant cutting aid during the initial wet grinding process per manufacturer's published recommendations. (Typically during any metal diamond tooling stages and only if wet grinding is required).

3.04 APPLICATION OF COLLOIDAL SILICA CONCRETE DENSIFIER

- A. Apply Colloidal Silica concrete densifier at the rate of 350 to 650 square feet per gallon with a low-pressure sprayer. (Application stage can range from 100-grit metal tooling to 400-grit resin tools depending on the concrete condition).
- B. Apply sufficient material to the point of saturation keeping concrete surface wet for 5 to 15 minute period, without producing puddles.
- C. Allow treated surface to gel and dry. (Do not remove gel during reaction, it will not leave a residue and will not crystalize on the surface)
- D. Continue progressively polishing floor with required resin diamonds as necessary to produce desired final finish.
- E. Repeat step (A) Applying Colloidal Silica concrete densifier as needed to harden excessively soft concrete surfaces.

3.05 APPLICATION OF POLISHED CONCRETE PROTECTIVE TREATMENTS:

- A. Application of interior high performance sealer high gloss, film forming sealer:
 - 1. Mix interior high performance sealer per manufacturer's instructions.
 - 2. Apply to clean, dry slab at the completion of mechanically polishing no higher than 800-grit. (200-grit to 800-grit produces optimum surface preparation for chemical bond. Ensure scratch pattern is not visible before application)

3. Lightly wet a lint free short nap paint roller with interior high performance sealer and remove excess, leaving primed paint roller.
4. Roll out interior high performance sealer using minimal downward force. Evenly roll the interior high performance sealer without leaving overlap lines at an estimated coverage rate of 1000 to 1500 square feet per gallon. Working from one control joint to another.
5. Maintain a thin, even coating and wet edge. Do not over apply.
6. Allow 4-6 hours before of dry time before a second application is applied (Only re-coat if needed) Repeat steps 1 through 4 for re-coat application.
7. To increase gloss, wait at least 12 to 24 hours after the final coat is applied, then use a high- speed burnisher fitted with a burnishing pad. Burnish at a slow walking pace.

3.06 SLAB PROTECTION

- A. Protect finished floors to prevent damage including staining, gouges and scratching by construction traffic and activities until possession.
- B. Do not drag or drop equipment or material across the slab which will scratch or chip it.
- C. Inspect tires for debris prior to use on slab. Remove embedded items which may cause damage to floor slab.
- D. Clean up spills on slab immediately. Provide cleaning chemicals and absorptive materials.
- E. Develop a concrete protection procedure which addresses the following procedures:
 1. Communication of protection plan to subcontractors and vendors.
 2. Procedures for cleaning up slab spills, including use of and availability of cleaning chemicals and absorptive materials at Site.
- F. Provide a clean slab surface using concrete maintenance cleaner within an auto scrubber, equipped with soft nylon brushes, in accordance with manufacturer's published recommendations.

3.07 FINISHING REQUIREMENTS

- A. Appearance:
 1. Interior exposed finished slab areas must consist of the following:
 - a. Slab surface must meet the desired sheen, as discussed in Pre-Installation meeting and be consistent with approved Mock-up.
 - b. Slab surface must have a consistent look and exhibit a finish that has no evidence of streaking or burnish marks.
 - c. White residue or hazy appearance is not acceptable.
 - d. Exposure of aggregate beyond Concrete Polishing Council Class is not acceptable.
 - 1) Aggregate Exposure Class: C-Medium Aggregate.
 2. Interior exposed finished slab areas must consist of the following Concrete Polishing Council Gloss Level:
 - a. Finished Gloss Level 2: Satin Gloss Appearance.

3.08 ADJUSTMENTS

- A. Re-finish those areas not meeting specified gloss levels per mock-up.

3.09 FINAL CLEANING

- A. Upon completion, remove surplus and excess materials, rubbish, tools and equipment.

3.10 PROTECTION

- A. Protect installed product from damage during construction in accordance with manufacturer's recommendations.

PART 4 - MEASUREMENT AND PAYMENT


4.01 BASIS OF MEASUREMENT AND PAYMENT

- A. Work under this section will not be measured nor paid for separately, but shall be considered incidental to and included in the price bid for the various items of work in this project.

END OF SECTION

CONVERT CARGO BUILDING TO WORKSHOP
 DANIEL K. INOUE INTERNATIONAL AIRPORT
 HONOLULU, OAHU, HAWAII
 STATE PROJECT NO. CO1325-33

PROPOSAL SCHEDULE

Item No.	Description	Unit	Total
I. GENERAL REQUIREMENT			
01010.1	Basis of Bid for Item No. 01010.1 shall be entire work, complete in accordance with the drawings and specifications, but not including the work indicated or specified under Bid Items 01524.1, 01561.1, 01700.1 and ALLOWANCE.	L.S.	\$ _____
01524.1	Construction Waste Management	L.S.	\$ _____
01561.1	Construction Site Runoff Control Program	L.S.	\$ _____
01700.1	Mobilization (Not to exceed 6% of sum of all items, excluding this item, all allowances and force account items)	L.S.	\$ _____
II. ALLOWANCES			
01010.2	Miscellaneous Repair	Allow.	\$ 30,000.00
01010.3	Unforeseen Conditions	Allow.	\$ 100,000.00
 01010.4	Video Monitoring & Access Control Work	Allow.	\$ 40,000.00
01010.5	Relocation or Replacement of Shop Equipment	Allow.	\$ 200,000.00
01562.1	Management of Contaminated Medias	Allow.	\$ 5,000.00
01565.1	Security Measures	Allow.	\$ 5,000.00
02411.1	Selective Demolition - Unforeseen Conditions	Allow.	\$ 50,000.00
TOTAL AMOUNT FOR COMPARISON OF BIDS: \$			_____

The prices bid herein shall include all labor, materials, equipment, and incidentals necessary to construct all items in place, including installation and testing of equipment, complete and ready for operation, all in accordance with the plans and specifications.

Notes:

1. Bids shall include all Federal, State, County and other applicable taxes.
2. The TOTAL AMOUNT FOR COMPARISON OF BIDS will be used to determine the lowest responsible bidder.

3. Bidders must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid.
4. The State reserves the right to reject any or all Proposals and to waive any defects in the best interest of the State.
5. The bidder's attention is directed to Section 2.11 – BID SECURITY of the Special Provisions and Section 2.24 – REQUIREMENTS OF CONTRACT BONDS of the "General Provisions" as amended by the Special Provisions.
6. If the lowest TOTAL AMOUNT FOR COMPARISON OF BIDS is less than, or approximately equal to the funds available for this project, an award will be made to the lowest responsible bidder.
7. If the lowest TOTAL AMOUNT FOR COMPARISON OF BIDS exceeds the funds available, the State reserves the right to negotiate with the lowest responsible bidder as permitted under Section 103D-302, Hawaii Revised Statutes, to further reduce the scope of work and award a contract thereafter.
8. The bidder shall submit the proposal in HlePRO. The proposal shall be UPLOADED to HlePRO prior to the bid opening date and time. Proposals received after said due date and time shall not be considered. Original (wet ink) proposal documents are not required to be submitted. The award will be made based on proposals uploaded in HlePRO. Any and all other additional documents explicitly designated and labeled as CONFIDENTIAL OR PROPRIETARY shall be UPLOADED SEPARATELY to HlePRO. If there is a conflict between this specification and its HlePRO solicitation, the specifications shall govern and control unless otherwise specified.

SUPPLEMENT TO PROPOSAL SCHEDULE

The Department recognizes that certain items of material to be incorporated into the project and/or consumed in the prosecution of the project are temporarily in short supply and beyond the control and without the fault of the Contractor. The effect of such shortages has, among other things, resulted in periodic fluctuations in the posted prices of such short supply materials, thereby making the proposal difficult for the Contractor to bid with confidence.

The only materials considered to be in short supply are asphalt cement, portland cement, reinforcing steel, structural steel and galvanized steel.

Each bidder shall submit with the proposal a written statement from the supplier of each short supply material indicating the supplier's current posted price, effective date of that price and the location of the material at that posted price (by island).

If the price of such short supply material is increased or decreased by more than 5% by the supplier prior to the completion of that contract item requiring the short supply material, the Contractor shall submit to the Department a written statement from the supplier indicating the effective date and changed price the Contractor will thereafter be charged for such short supply material. The Contractor shall also obtain whenever possible, quotations for furnishing the material from other available local suppliers. The quotations shall be obtained sufficiently in advance of the need for the material to allow review by the Department so as not to delay the work. The Contractor's request to the Department for adjusted compensation due to such changed prices will be computed only with prices in effect at the time of delivery. Only the lowest quotation obtained will be accepted by the Department. Transportation, handling, loading, processing and other similar costs will not be subject to adjusted compensation.

No adjustment to the unit bid prices will be made when the increase or decrease in the price of the short material is less than 5% of the original posted price.

If the adjustment to the unit bid price is decreased in the price of the short supply material by more than 5% of the original posted price, the State will be credited. The Contractor shall notify the State within five (5) working days in the event of such an occurrence.

When an adjustment in price is made in accordance with this section, the adjustment will be allowed only so long as the purchase price remains more or less than 5% of the original posted price.

If an increase in the price of any short supply material exceeds or is scheduled to exceed 5% of the original posted price, the Contractor must notify the State within five (5) working days before using the short supply material. Upon receipt of such notification from the Contractor, the State will direct the Contractor to either (1) authorize work to proceed as usual with the assurance that the indicated incremental price increase above the 5% will be compensable, (2) issue such change orders as the State may deem necessary to reduce further requirements of the short supply material which is to be paid at the increase price, or (3) if the material is considered to have priced itself beyond reason or beyond what the State can pay, the State may order cessation of further use of such short supply material on the project. Such notification by the Contractor will be

required at each instance of incremental price increase above the 5% limit. If the Contractor fails to notify the State of any such incremental price increase within five (5) working days before using the short supply material and continues to utilize the short supply material on the project, the State will not be responsible for payment for the incremental cost increase of which the State was not forewarned.

Computation for the adjusted compensation will be as follows:

(A) Portland Cement

- If, X = Adjustment per cubic yard of concrete,
- P = Portland cement content of the approved mix design expressed in hundredweight per cubic yard of concrete,
- Q = Increase or decrease in the price of portland cement in dollars per hundredweight,

Then, X = QP

Example: Posted price of Portland cement increases from \$1.40 to \$1.70 per cwt. and the hundredweight (cwt) of concrete is 5.6 cwt per c.y., then the adjustment will be:

$$\begin{aligned}
 \$1.70 - \$1.40 &= \$0.30 \\
 (\$1.40) \times (5\%) &= \$0.07 \\
 \$0.30 - \$0.07 &= \$0.23 \\
 X &= (\$0.23) \times (5.6) \\
 &= \$1.29 \text{ per c.y. of concrete}
 \end{aligned}$$

(B) Asphalt Cement

- If, X = Adjustment per ton of mix,
- P = Asphalt cement content, expressed in percentage of dry weight of the aggregates, as determined and accepted by the Department for each of the design plant mixes,
- Q = Increase or decrease in the price of asphalt cement, in dollars per ton,

Then, X = Q × (P) ÷ (100 + P)

Example: Posted price of asphalt concrete increases from \$70 to \$80 per ton and the asphalt content of the A.C. mix was accepted at 6.0%, then the adjustment shall be:

$$\begin{aligned}
 \$80.00 - \$70.00 &= \$10.00 \\
 (\$70.00) \times (5\%) &= \$3.50 \\
 \$10.00 - \$3.50 &= \$6.50 \\
 X &= \$6.50 \times 6 / (100 + 6)
 \end{aligned}$$

= \$0.37 per ton A.C. mix

(C) Reinforcing Steel

If, X = Adjustment for reinforcing steel,

P = Weight of reinforcing steel, expressed in hundredweight,

Q = Increase or decrease in the price of reinforcing steel in dollars per hundredweight,

Then, X = QP

Example: Posted price of grade 40 reinforcing steel increases from \$14.00 to \$15.00 per cwt and the weight of the grade 40 reinforcing steel is 80,000 pounds, then the adjustment shall be:

$$\begin{aligned} \$15.00 - \$14.00 &= \$1.00 \\ (\$14.00) \times (5\%) &= \$0.70 \\ \$1.00 - \$0.70 &= \$0.30 \\ X &= (\$0.30) \times (800) \\ &= \$240 \text{ for grade 40 reinforcing steel} \end{aligned}$$

The contractor shall submit to the Department original receipted bills covering the short supply material used on the project as soon as practicable after shipments are completed. The bills shall be accompanied by a tabulation on which the bills are listed in chronological order showing for each bill the quantity, the date shipped from the supplier's terminal and the price per unit at the place indicated in the posted price (reflecting any deductions for quantity shipments). These bills shall be subject to audit verification.

The Department reserves the right to alter the quantities of material to be furnished in accordance with the provisions of SP Article IV, Paragraph. 4.2.

The Department also reserves the right, during construction, to decrease or increase the scope of work, because of limitations of funds, with no adjustment in unit prices other than that specified hereinabove.

Price increases as specified hereinabove shall not exceed the remaining unpaid balance in the contract at any point in time without prior review and approval from the Engineer or designated representative.

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS**

PRE-BID MEETING AGENDA

DATE: May 24, 2023

TIME: 8:30 AM

LOCATION: State of Hawaii Department of Transportation Airports Division
Microsoft Teams Web-Conference
Call-in Phone No.: (808) 829-4853
Phone Conference ID: 876 006 882#
WebMeeting ID: 257 422 344 694
Passcode: 5RpPaD

PROJECT: Convert Cargo Building to Workshop
Daniel K. Inouye International Airport
State Project No. CO1325-33

PRESENT: See attached list

SUBJECT: Pre-Bid Meeting

MEETING SUMMARY:

I. GENERAL DISCUSSION

1. The State Project Manager will fill out the attendance sheet as completely as possible. All persons that were emailed meeting invitations shall be emailed a copy of the draft meeting minutes and attendance list for review and comment in order to ensure accuracy. Once finalized, a copy of the meeting minutes will be attached to the bid documents via addendum.
2. Introduction of participants
3. RFIs shall be submitted in writing via HlePRO prior to the due date and time noted in the Notice to Bidders (May 26, 2023 @ 2:00 PM).
4. This meeting is to clarify general questions only. If there is a conflict between what was stated in this meeting and the bid documents, the bid documents shall govern. Any significant changes will be issued through an addendum. A copy of the meeting minutes will be issued to all attendees.
5. Important items brought to the attendees' attention:

- A site visit has been scheduled for May 25, 2023 @ 9:30 AM. Please contact Ms. Wendy Cheuk, State Project Manager, by phone at (808) 838-8822 or by email at wendy.cheuk@hawaii.gov to confirm your attendance.
 - Deadline to submit bids is June 15, 2023 2:00 p.m., Hawaii Standard Time. The complete bid Proposal Schedule shall be uploaded into HlePRO prior to bid opening date and time. All other required confidential and proprietary documents shall be uploaded separately. Failure to upload the bid Proposal Schedule into HlePRO shall be grounds for the rejection of the bid. Bids received after said due date and time shall not be considered.
6. Project duration is two hundred seventy (270) calendar days.
 7. Unless there is a problem with the award or contract execution process, the State intends to issue the Notice to Proceed by November 2023 at the earliest.
 8. Requests for AOA badges, AOA stickers, ramp licenses, etc. shall be submitted within 14 calendar days after award of contract. In addition to the requirements stated in the Contract Bid Documents, all Contractors shall comply with the requirements and procedures of the Contractor's Training Guide.

II. QUESTIONS

1. Bidder question: Is there any exterior or roof work?

DOTA response: The designer noted that there is no roof or exterior work apart from some wall penetrations.

2. Bidder question: Is the Contractor or the State responsible for special inspections?

DOTA response: The State will arrange for any required special inspections via the construction management team or the design team.

3. Bidder question: Are AOA badges required?

DOTA response: Although the project worksite is outside of the AOA, it is adjacent to the AOA perimeter fence. The policy on past projects required AOA badges on any projects in close proximity to the AOA perimeter fence. Furthermore, the Contractor may be requested to assist with the relocation of existing shop equipment. Much of this equipment are located in workshops within the AOA. Therefore, AOA badges will be required for this project.

4. Bidder question: Will the Contractor be required to relocate any existing workshop equipment?

DOTA response: Yes, however it is currently undetermined which equipment will require Contractor assistance to remove. It is also unknown which equipment are in a condition that would warrant replacement instead of relocation. Therefore, the State, the Construction Manager, and the Contractor will evaluate each piece of equipment on a case by case basis to determine which equipment may be moved by State personnel alone, which equipment require the Contractor's assistance to relocate, or which equipment may require replacement. Any work done to relocate or replace equipment will be paid for via an allowance and only with an approved change order from the State Project Manager.

5. Bidder question: There appears to be a glitch in detail numbers on the structural plan sheets.

DOTA response: The designer will review those plan sheets and any changes will be made via addendum or post contract documents if there is insufficient time to issue them via an addendum.

Meeting adjourned at: 8:47 AM

c: All attendees (See attached sign-in sheet)

MEETING ATTENDANCE SHEET
Pre-Bid Meeting

Project Name: **Convert Cargo Building to Workshop**

Daniel K. Inouye International Airport

Project No. CO1325-33

Meeting Location: Microsoft TEAMS Teleconference

Date: May 24, 2023 @ 8:30 AM

Name: Steve Tagupa Title: State Project Manager	Company: DOT-Airports Address: 400 Rodgers Blvd, Suite 700, Honolulu, Hawaii, 96819	Phone: (808) 838-8805 Fax: (808) 838-8017 E-Mail: Steve.Tagupa@hawaii.gov
Name: Wendy Cheuk Title: State Project Manager	Company: DOT-Airports Address: 400 Rodgers Blvd, Suite 700, Honolulu, Hawaii, 96819	Phone: (808) 838-8822 Fax: (808) 838-8751 E-Mail: wendy.cheuk@hawaii.gov
Name: Tracy Ing Title: State Project Manager, Oahu Air District Engineer	Company: DOT-Airports Address: 400 Rodgers Blvd, Suite 700, Honolulu, Hawaii, 96819	Phone: (808) 838-8841 Fax: (808) 838-8751 E-Mail: tracy.ing@hawaii.gov
Name: Eddy Takiguchi Title: AIR-OMB Plumber Supervisor	Company: DOT-Airports Address: 300 Rodgers Blvd, Honolulu, Hawaii, 96819	Phone: (808) 836-6597 Fax: E-Mail: eddy.m.takiguchi@hawaii.gov
Name: Elvin Dydasco Title: AIR-OMB, Building Construction & Maintenance Supervisor	Company: DOT-Airports Address: 300 Rodgers Blvd, Honolulu, Hawaii, 96819	Phone: (808) 836-6464 Fax: E-Mail: elvin.m.dydasco@hawaii.gov
Name: Justin Matsukawa Title: Architect	Company: YH Architects Address: 615 Piikoi Street #1806 Honolulu, HI 96814	Phone: Fax: E-Mail: matsukawaj@yharchitects.com
Name: Alyssa Dixon Title:	Company: Gundaker Works Address:	Phone: 808-268-6072 Fax: E-Mail: Alyssa.Dixon@Gundaker Works.com
Name: Chip Doyle Title:	Company: Blue Builders Address:	Phone: 808-226-6261 Fax: E-Mail: chip@bluebuilders.com
Name: Edgardo Cubacub Title:	Company: Ralph S. Inouye Co. LTD. Address:	Phone: (808) 839-9002 Fax: E-Mail: ed@rsinouye.com>
Name: John Lee Title:	Company: Hoku Pacific Address:	Phone: Fax: E-Mail: johnlee@hokupacific.com
Name: Erika Mori Title:	Company: Swinerton Address:	Phone: Fax: E-Mail: Emori@Swinerton.com

MEETING ATTENDANCE SHEET
Pre-Bid Meeting

Project Name: **Convert Cargo Building to Workshop**
Daniel K. Inouye International Airport
Project No. CO1325-33
Meeting Location: Microsoft TEAMS Teleconference

Date: May 24, 2023 @ 8:30 AM

Name: Letty Settle Title:	Company: Swinerton Address:	Phone: Fax: E-Mail: Letty.Settle@Swinerton.com
Name: Gary Gordon Title:	Company: Swinerton Address:	Phone: Fax: E-Mail: Gary.Gordon@Swinerton.com
Name: Ryan Yoneda Title:	Company: S & M Sakamoto, Inc Address:	Phone: Fax: E-Mail: ryany@smsihawaii.com
Name: Chris U Berard Title:	Company: Johnson Controls Address: 550 Paiea St, #210 Honolulu, HI 96819	Phone: 808 521-9905 Fax: E-Mail: Chris.U.Berard@jci.com
Name: Title:	Company: Address:	Phone: Fax: E-Mail:
Name: Title:	Company: Address:	Phone: Fax: E-Mail:
Name: Title:	Company: Address:	Phone: Fax: E-Mail:
Name: Title:	Company: Address:	Phone: Fax: E-Mail:
Name: Title:	Company: Address:	Phone: Fax: E-Mail: