

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS**

**ADDENDUM NO. 3
FOR
JRF ARFF STATION RENOVATIONS
KALAELOA AIRPORT
KAPOLEI, OAHU, HAWAII
STATE PROJECT NO. CO4420-33**

October 4, 2024

This Addendum shall make the following amendment(s) to the Solicitation:

A. PLANS

1. Delete **PLAN SHEET NO. AD101 DEMOLITION FLOOR PLAN** and replace with attached **PLAN SHEET NO. AD101 DEMOLITION FLOOR PLAN** dated 09/25/24.
2. Delete **PLAN SHEET NO. AD103 DEMOLITION EXTERIOR ELEVATION** and replace with attached **PLAN SHEET NO. AD103 DEMOLITION EXTERIOR ELEVATION** dated 09/25/24.
3. Delete **PLAN SHEET NO. A-401 PARTITION TYPES** and replace with attached **PLAN SHEET NO. A-401 PARTITION TYPES** dated 09/25/24.
4. Delete **PLAN SHEET NO. A-501 EXTERIOR DETAILS** and replace with attached **PLAN SHEET NO. A-501 EXTERIOR DETAILS** dated 09/25/24.
5. Delete **PLAN SHEET NO. A-603 EQUIPMENT SCHEDULE** and replace with attached **PLAN SHEET NO. A-603 EQUIPMENT SCHEDULE** dated 09/25/24.
6. Delete **PLAN SHEET NO. MD101 PARTIAL FLOOR MECH DEMO PLAN** and replace with attached **PLAN SHEET NO. MD101 PARTIAL FLOOR MECH DEMO PLAN** dated 09/25/24.
7. Delete **PLAN SHEET NO. MD102 PARTIAL ROOF MECH DEMO PLAN** and replace with attached **PLAN SHEET NO. MD102 PARTIAL ROOF MECH DEMO PLAN** dated 09/25/24.

8. Delete **PLAN SHEET NO. M-101 MECHANICAL PLAN** and replace with attached **PLAN SHEET NO. M-101 MECHANICAL PLAN** dated 09/25/24.
9. Delete **PLAN SHEET NO. M-102 PARTIAL ROOF MECHANICAL PLAN** and replace with attached **PLAN SHEET NO. M-102 PARTIAL ROOF MECHANICAL PLAN** dated 09/25/24.
10. Delete **PLAN SHEET NO. M-501 MECHANICAL DETAILS** and replace with attached **PLAN SHEET NO. M-501 MECHANICAL DETAILS** dated 09/25/24.
11. Delete **PLAN SHEET NO. E-010 ELECTRICAL NOTES** and replace with attached **PLAN SHEET NO. E-010 ELECTRICAL NOTES** dated 09/25/24.
12. Delete **PLAN SHEET NO. E-111 FIRST FLOOR POWER PLAN** and replace with attached **PLAN SHEET NO. E-111 FIRST FLOOR POWER PLAN** dated 09/25/24.
13. Delete **PLAN SHEET NO. E-411 ENLARGED KITCHEN AND RESTROOM POWER PLAN** and replace with attached **PLAN SHEET NO. E-411 ENLARGED KITCHEN AND RESTROOM POWER PLAN** dated 09/25/24.
14. Delete **PLAN SHEET NO. E-412 ENLARGED APPARATUS BAY POWER PLAN** and replace with attached **E-412 ENLARGED APPARATUS BAY POWER PLAN** dated 09/25/24.
15. Delete **PLAN SHEET NO. E-602 PANEL SCHEDULE** and replace with attached **PLAN SHEET NO. E-602 PANEL SCHEDULE** dated 09/25/24.

The following is provided for information.

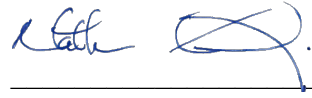
B. RESPONSES TO REQUESTS FOR INFORMATION (RFI'S/QUESTIONS)

1. The attached **Responses to Requests for Information (RFI's/Questions)** is provided for information.

C. SUBSTITUTION REQUESTS

1. The attached **SUBSTITUTION REQUESTS** is provided for information.

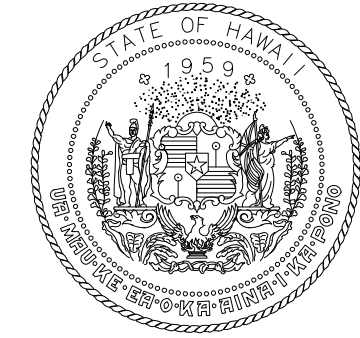
Please acknowledge receipt of this **ADDENDUM NO. 3** by recording the date of its receipt in the space provided on **PAGE P-4** of the Proposal.



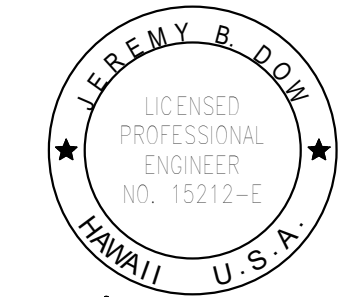
NATHAN KANESHIGE
Engineering Program Manager

GENERAL NOTES

1. THE CONTRACTOR SHALL INSPECT THE PROJECT SITE BEFORE PROCEEDING WITH THE WORK AND SHALL NOTIFY AND COORDINATE WITH THE ENGINEER FOR ANY MAJOR DEVIATIONS OR DISCREPANCIES FROM THE PLANS DUE TO UNFORESEEN OR VARYING FIELD CONDITIONS.
2. THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE BUILDING CODE OF THE CITY & COUNTY OF HONOLULU, STATE DEPARTMENT OF HEALTH REGULATIONS, STATE OF HAWAII, TITLE 12, SUBTITLE 8, PART 10. THE CURRENT VERSION OF THE INTERNATIONAL BUILDING CODE, UNIFORM FIRE CODE, NFPA 13, NFPA 70, NFPA 72, NFPA 110, NATIONAL ELECTRICAL SAFETY CODE, OSHA, AND ALL OTHER AGENCIES HAVING JURISDICTION.
3. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL AND EQUIPMENT INCLUDING CUTTING AND PATCHING AS REQUIRED FOR COMPLETE AND OPERATING SYSTEMS.
4. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER THE COMPLETE INSTALLATION OF SYSTEMS TO FUNCTION AS DESCRIBED. THE OMISSION OF REFERENCE OR ANY NECESSARY ITEM OF LABOR OR MATERIAL SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH LABOR AND MATERIAL. DRAWINGS DO NOT ATTEMPT TO SHOW EXACT DETAILS OF PIPING. ARRANGE AND LOCATE PIPING TO MAINTAIN ADEQUATE CLEARANCES TO SERVICE EQUIPMENT. PROVIDE OFFSETS AS NECESSARY TO AVOID LOCAL OBSTRUCTIONS OR INTERFERENCES WITH OTHER TRADES. SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF WORK, THE CONTRACTOR SHALL MARK SUCH CHANGES ON THE RECORD DRAWINGS. IF THESE CHANGES REQUIRE ALTERNATE METHODS TO THOSE APPROVED BY THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING THE PROPOSED ALTERNATE METHODS TO THE ENGINEER. THE CONTRACTOR SHALL NOT PROCEED UNTIL APPROVAL IS OBTAINED.
5. PATCH AND PAINT ALL EXPOSED MATERIALS TO MATCH ADJACENT SURFACES OR AS INDICATED.
6. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER BEFORE MAKING ANY PENETRATIONS THROUGH STRUCTURAL MEMBERS, WALLS, AND SLABS.
7. ALL WORK SHALL BE COORDINATED WITH AIRPORT MANAGEMENT AND DONE IN ACCORDANCE WITH THE PHASING PLAN.
8. CONTRACTOR SHALL COMPLY WITH ALL OSHA AND EPA REGULATIONS AND REQUIREMENTS IN THE HANDLING OF ANY POTENTIALLY HAZARDOUS MATERIALS, INCLUDING ASBESTOS CONTAINING MATERIALS, LEAD-BASED PAINT AND FLUORESCENT LIGHT BULBS.
9. DRAWINGS DO NOT ATTEMPT TO SHOW EXACT DETAILS OF PIPING AND DUCTWORK. PROVIDE OFFSETS AS NECESSARY TO AVOID LOCAL OBSTRUCTIONS OR INTERFERENCE WITH OTHER TRADES. REVIEW ALL PIPING AND DUCT RUNS PRIOR TO FABRICATION AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY INTERFERENCE AND/OR LACK OF ADEQUATE CLEARANCES.
10. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS ON SITE AND IMMEDIATELY NOTIFY THE OWNER OF ANY DISCREPANCIES PRIOR TO START OF WORK.
11. PATCH ALL SURFACES AFFECTED BY DEMOLITION AND NEW WORK. FINISH TO MATCH EXISTING ADJACENT WALL AND/OR EXISTING CONDITIONS.
12. CAUTION SHALL BE EXERCISED SO THAT NO EXISTING AREAS TO REMAIN SHALL BE DAMAGED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORRECTIVE WORK REQUIRED TO RESTORE DAMAGE TO THE SITE LANDSCAPING AND STRUCTURE TO THE ORIGINAL CONDITIONS.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE JOB SITE IN A REASONABLY NEAT AND SAFE CONDITION. ALL WORK SHALL BE PERFORMED WITHIN THE PROPERTY. STORING OF MATERIALS AND EQUIPMENT SHALL BE COORDINATED WITH THE OWNER.
14. AT COMPLETION OF WORK THE CONTRACTOR SHALL REMOVE ALL RUBBISH FROM THE SITE AND LEAVE THE PREMISES CLEAN AND TO THE SATISFACTION OF THE OWNER.
15. THIS PROJECT CONFORMS TO THE LATEST ADOPTED BUILDING CODE REQUIREMENTS.
16. THE DEMOLITION DRAWINGS ARE INTENDED TO SHOW THE GENERAL SCOPE OF WORK AND DO NOT NECESSARILY SHOW EVERY DEVICE, THE CONTRACTOR SHALL FIELD VERIFY OTHER ELECTRICAL SERVICES THAT MAY BE ENCOUNTERED DURING DEMOLITION AND SHALL REMOVE OR REROUTE THESE ITEMS DIRECTED.
17. THE CONTRACTOR SHALL VERIFY PRIOR TO BEGINNING WORK THAT ELECTRICAL DISTRIBUTION SYSTEM ARE IN PROPER WORKING ORDER. ANY ELECTRICAL DEVICES FOUND TO BE IN A NON-WORKING CONDITION SHALL BE REPLACED OR REPAIRED AS NECESSARY.
18. REMOVE ALL UNUSED WIRING FROM DEMOLITION AREA, INCLUDING DISCONNECTED UNDER THIS CONTRACT AND WIRING UNCOVERED BY DEMOLITION.
19. MAINTAIN CIRCUIT CONTINUITY AS REQUIRED FOR ALL ELECTRICAL EQUIPMENT TO REMAIN, INCLUDING THOSE OUTSIDE OF PROJECT LIMITS. COORDINATE WITH NEW WORK AND RE-ROUTE CONDUIT AND WIRE AS REQUIRED TO AVOID CONFLICT WITH NEW WORK.
20. ALL MATERIALS REMOVED REMAIN THE PROPERTY OF THE STATE. IF THE STATE CHOOSES TO DISCARD THESE MATERIALS THEN THE CONTRACTOR SHALL DISPOSE OF THEM AS DIRECTED.
21. ALL NEW WORK SHALL BE CONCEALED ABOVE CEILING AND IN WALLS TO THE EXTENT POSSIBLE.
22. PROVIDE FIRESTOPPING THROUGH FIRE RATED WALLS. FIRESTOPPING TO MATCH WALL FINISH COLOR.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
AIRPORTS



04/30/2026
Licensed Expiration Date

This work was prepared by me or under my supervision.

DSGN.	DRWN.	CHKD.	APPD.
DL	DL	JH	JBD

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
1	9/25/2024	ADDENDUM 3

CONSTRUCTION DOCUMENTS

MAY 2024
DATE

PROJECT TITLE :

**JRF ARFF STATION
RENOVATIONS**

AT
KALAELOA AIRPORT
KAPOLEI, OAHU, HAWAII

PROJECT NO.:

CO4420-33

SHEET TITLE:

ELECTRICAL NOTES

DATE :	DWG. NO.
01 MAY 2024	E-010
SHEET :	
44 OF 57 SHEETS	

Branch Panel: A

Location: ELEC 105
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 150 A

Notes:
EXISTING WESTINGHOUSE PANEL. PROVIDE A MINIMUM OF 30 DAY LOAD STUDY AT 15 MINUTE INTERVALS FOR EXISTING MAXIMUM DEMAND PER NEC 220.87
1 - EXISTING BREAKER, 2 - NEW BREAKER

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	(E) BREAKER	20 A	1	0 VA	0 VA			1	20 A (E) OUTLET BY BUNK RM DR	1 2	
3	R-KITCHEN COUNTER	20 A	1			720 VA	0 VA	1	20 A (E) OUTLET LATRINE	1 4	
5	(E) BREAKER	20 A	1				0 VA	0 VA	1	20 A (E) ALARM WATCH OFFICE	1 6
7	(E) S/D	20 A	1	0 VA	0 VA			1	20 A (E) OUTLET APPAR	1 8	
9	(E) BREAKER	20 A	1		0 VA	0 VA		1	20 A (E) S/D RW EWA	1 10	
11	(E) BREAKER	20 A	1				0 VA	0 VA	1	20 A (E) WASHING MACHINE	1 12
13	R-REFRIGERATOR #3	20 A	1	180 VA	0 VA			1	20 A (E) OUTLET STA CHIEF	1 14	
15	R-DISHWASHER	20 A	1		500 VA	0 VA		1	20 A (E) S/D EWA	1 16	
17	R-MICROWAVE	20 A	1			500 VA	0 VA	1	20 A (E) OUTLET BUNK RM	1 18	
19	(E) BREAKER	20 A	1	0 VA	0 VA			1	20 A (E) OUTLET APPAR	1 20	
21	R-REFRIGERATOR #1	20 A	1		180 VA	0 VA		1	20 A (E) OUTLET APPAR	1 22	
23	R-REFRIGERATOR #2	20 A	1			180 VA	0 VA	1	20 A (E) BUNK RM	1 24	
25	(E) EXT FAN HOOD LTS	20 A	1	0 VA	0 VA			1	20 A (E) PA SYSTEM	1 26	
27	R-COFFEE MACHINE	20 A	1		180 VA	180 VA		1	20 A R-WATER DISPENSER	1 28	
29	R-DISPOSAL	20 A	1			756 VA	0 VA	1	20 A (E) OUTLET BUNK RM	1 30	
31	(E) BREAKER	20 A	1	0 VA	180 VA			1	20 A R-COFFEE MAKER	1 32	
33	(E) BREAKER	20 A	1		0 VA	0 VA		1	20 A (E) OUTLET LT MECH SHOP	1 34	
35	(E) BREAKER	20 A	1			0 VA	0 VA	1	20 A (E) ELEC GATE	1 36	
37	(E) BREAKER	20 A	1	0 VA	0 VA			2	30 A (E) DRYER	1 38	
39	(E) SODA	20 A	1		0 VA	0 VA		1	20 A SF-1	1 40	
41	(E) BREAKER	20 A	1			0 VA	1176 VA	1	20 A	2 42	
Total Load:				1963 VA	3363 VA	4215 VA					
Total Amps:				16 A	30 A	37 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Power	756 VA	85.00%	643 VA	
HVAC	5986 VA	100.00%	5986 VA	Total Conn. Load: 9542 VA
Receptacle, GP, NEC 220.44	2800 VA	100.00%	2800 VA	Total Est. Demand: 9428 VA
				Total Conn.: 26 A
				Total Est. Demand: 26 A

Notes:

Existing Panel: B

Location: ELEC 105
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 150 A

Notes:
EXISTING WESTINGHOUSE PANEL
1 - EXISTING BREAKER, 2 - NEW BREAKER

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT		
1	(E) DORM LIGHTS	20 A	1	0 VA	0 VA			1	20 A (E)	1 2		
3	(E) DORM LIGHTS	20 A	1		0 VA	0 VA		1	20 A (E)	1 4		
5	(E)	20 A	1			0 VA	0 VA	1	20 A (E) CORRIDOR LIGHTS	1 6		
7	(E)	20 A	1	0 VA	0 VA			1	20 A (E)	1 8		
9	(E)	20 A	1		0 VA	0 VA		1	20 A (E)	1 10		
11	(E) ALARM FOR LIGHT	20 A	1			0 VA	0 VA	1	20 A (E)	1 12		
13	R-OVERNS	20 A	1	180 VA	0 VA			1	20 A (E)	1 14		
15	SHUNT TRIP	--	1		--	0 VA				1 16		
17	R-ELEC IGNITION	20 A	1			180 VA	0 VA	2	40 A (E)	1 18		
19	SHUNT TRIP	--	1	--	0 VA					1 20		
21	R-EXTERIOR	20 A	1		180 VA	0 VA		2	20 A (E)	1 22		
23	(E) W/D #1	30 A	2	0 VA	0 VA		0 VA	0 VA	1	20 A (E)	1 24	
25											1 26	
27	(E) W/D #2	30 A	2		0 VA	0 VA		0 VA	0 VA	3	20 A (E)	1 28
29											1 30	
31				0 VA	0 VA						1 32	
33	(E)	30 A	3		0 VA	0 VA		0 VA	0 VA	2	60 A (E)	1 34
35						0 VA	--	1	--	PFB		1 36
Total Load:				180 VA	180 VA	180 VA						
Total Amps:				2 A	2 A	2 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle, GP, NEC 220.44	540 VA	100.00%	540 VA	Total Conn. Load: 540 VA
				Total Est. Demand: 540 VA
				Total Conn.: 1 A
				Total Est. Demand: 1 A

Notes:

Branch Panel: D

Location: APPARATUS BAY 108
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 10000
Mains Type: MCB
Mains Rating: 225 A

Notes:
EXISTING GE PANEL. PROVIDE A MINIMUM OF 30 DAY LOAD STUDY AT 15 MINUTE INTERVALS FOR EXISTING MAXIMUM DEMAND PER NEC 220.87
1 - EXISTING BREAKER, 2 - NEW BREAKER

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1				0 VA	0 VA					2
3	(E) MAKO	50 A	3		0 VA	0 VA		3	50 A (E) COMP OUTSIDE	1 4
5						0 VA	0 VA			6
7				0 VA	0 VA			1	20 A (E) CONTROLLER	1 8
9	(E)	50 A	3		0 VA	0 VA		1	20 A (E)	1 10
11						0 VA	0 VA	1	20 A (E)	1 12
13	(E) DRYER OUTLET	30 A	2	0 VA	0 VA			1	20 A (E)	1 14
15					0 VA	0 VA		1	20 A (E)	1 16
17						0 VA	10,377...			1 18
19	(E) MECH PNEUMATIC LIFT	20 A	3	0 VA	9,052 VA			3	100 A (N) PANEL E	2 20
21					0 VA	10,167 VA				2 22
23	(E) DROP C	20 A	1			0 VA	0 VA	1	20 A SPARE	1 24
25	(E) DROP C	20 A	1	0 VA	0 VA			1	20 A (E) RECEPTACLES	1 26
27	(E) DROP C	20 A	1		0 VA	--	--	1	-- PFB	1 28
29	PFB	--	1		--	--	--	1	-- PFB	1 30
Total Load:				9,052 VA	10,167 VA	10,377 VA				
Total Amps:				75 A	86 A	88 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	2724 VA	125.00%	3405 VA	
Motor	19872 VA	103.13%	20493 VA	Total Conn. Load: 29587 VA
HVAC	7220 VA	100.00%	7220 VA	Total Est. Demand: 30837 VA
				Total Conn.: 82 A
				Total Est. Demand: 86 A

Notes:

Branch Panel: E

Location: APPARATUS BAY 108
Supply From: D
Mounting: Surface
Enclosure: Type 1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 100 A

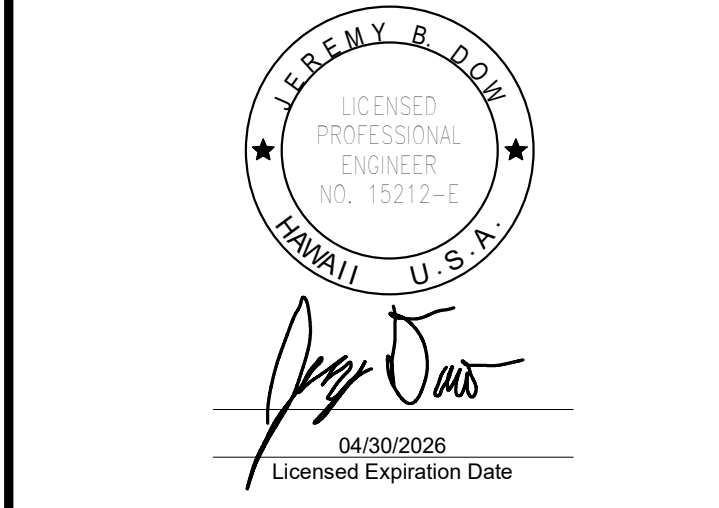
Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1				828 VA	1,200 VA					2
3	ROLL UP DOOR #1	20 A	3		828 VA	1,200 VA		3	20 A HVLS-1	4
5						828 VA	1,200 VA			6
7				828 VA	1,200 VA			3	20 A HVLS-2	8
9	ROLL UP DOOR #2	20 A	3		828 VA	1,200 VA		3	20 A HVLS-2	10
11						828 VA	1,200 VA			12
13				828 VA	10 VA			2	20 A HVLS-3	14
15	ROLL UP DOOR #3	20 A	3		828 VA	10 VA		1	20 A L-APPARATUS BAY	16
17						828 VA	1,254 VA	1	20 A L-APPARATUS BAY	18
19				828 VA	1,454 VA			1	20 A L-APPARATUS BAY	20
21	ROLL UP DOOR #4	20 A	3		828 VA	18 VA		1	20 A L-EMERGENCY LIGHTS	22
23						828 VA	828 VA	3	20 A ROLL UP DOOR #8	24
25				828 VA	828 VA			1	20 A Spare	26
27	ROLL UP DOOR #5	20 A	3		828 VA	828 VA		1	20 A Spare	28
29						828 VA	0 VA	1	20 A Spare	30
31				828 VA	0 VA			1	20 A Spare	32
33	ROLL UP DOOR #6	20 A	3		828 VA	0 VA		1	20 A Spare	34
35						828 VA	0 VA	1	20 A Spare	36
37				828 VA	0 VA			1	20 A Spare	38
39	ROLL UP DOOR #7	20 A	3		828 VA	--		1	20 A Spare	40
41						828 VA	--	1	-- PFB	42
Total Load:				10,377 VA	9,052 VA	10,167 VA				
Total Amps:				88 A	75 A	86 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	2724 VA	125.00%	3405 VA	
Motor	19872 VA	103.13%	20493 VA	Total Conn. Load: 29587 VA
HVAC	7220 VA	100.00%	7220 VA	Total Est. Demand: 30837 VA
				Total Conn.: 82 A
				Total Est. Demand: 86 A

Notes:



This work was prepared by me or under my supervision.

DSGN.	DRWN.	CHKD.	APPD.
DL	DL	JH	JBD

KEY PLAN / NOTES:

1	9/25/2024	ADDENDUM 3
NO.	DATE	REVISIONS

CONSTRUCTION DOCUMENTS

MAY 2024
DATE

PROJECT TITLE :

JRF ARFF STATION RENOVATIONS
AT
KALAELOA AIRPORT
KAPOLEI, OAHU, HAWAII

PROJECT NO.:

CO4420-33

SHEET TITLE:

PANEL SCHEDULE

DATE :	DWG. NO.
01 MAY 2024	E-602
SHEET :	
57 OF 57 SHEETS	

JRF ARFF STATION RENOVATIONS

KALAELOA AIRPORT

KAPOLEI, OAHU, HAWAII

STATE PROJECT NO. CO4420-33

RESPONSES TO REQUEST FOR INFORMATION (RFI'S/QUESTIONS)

The following Requests for Information (RFI) were received.

1. **QUESTION:** Sheet E-601, E-602: Please provide information on the existing Panel D (manufacturer, panel type, breaker type) to ensure compatibility of the new 3P100A circuit breaker.

RESPONSE: GE-A series Panelboard, AQU3302RCX. THQB breakers.

2. **QUESTION:** Section 08330 – Coiling Doors: Para 2.05/B is asking for a trim package. This is only available on Model ESD20. The specified model in the spec is asking for Model ESD30. In order to keep the air filtration rating that comes with the ESD30, the trim package needs to be excluded.

RESPONSE: Exclude trim package as needed to keep air filtration rating with Model ESD30.

3. **QUESTION:** Section 08330 – Coiling Doors: Para 1.03/2. – What is the max wind speed required?

RESPONSE: Basic Wind Speed is 154 MPH

4. **QUESTION:** Is there a pre-bid meeting attendees list?

RESPONSE: Yes, see Addendum 1.

5. **QUESTION:** Section 01715, paragraph 1.04 LEAD PAINT, item B states “Review the attached lead testing data which identify locations paint with lead was found and/or tested and the painted surface tested lead concentration was below the lead in paint analyzer level of detection. ...”. Item C states “All paint shall be considered to contain lead until proven otherwise.” There are no lead paint hazmat survey results found in the specifications. Please provide applicable hazmat survey for lead paint.

RESPONSE: Please assume that all paint shall be considered to contain lead until proven otherwise.

6. **QUESTION:** Please provide door hardware schedule and specifications as applicable.

RESPONSE: All door hardware by manufacturer excluding pantry door 100.3. Door hardware for door 100.3 should match existing conditions.

7. **QUESTION:** Section 01210 ALLOWANCES, paragraph 1.05.A.1 states “Lump sum allowances to cover lump sum payments to another party shall not include contractor’s overhead, profit, and related costs. These costs include delivery, installation, taxes, insurance, equipment rental, and similar costs. These shall be included in the Contract Sum.” However, Section 012010 ALLOWANCES, paragraph 1.05.A.2 states “Contractor’s overhead, profit, and related costs for products and equipment ordered by State under the lump sum 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.” Please confirm if the Lump Sum Allowances do Not include the Contractor’s overhead, profit, and related costs, such as taxes, insurance, etc.

RESPONSE: Section 01210 1.05 LUMP SUM ALLOWANCES are only directed by the Contracting Officer for the purposes of a Change Order.

1.05 A.1: If the payment is to another party; no contractor’s overhead, profit or related costs are allowed.

1.05 A.2: If the State requires purchase of products or equipment, a contractor’s overhead, profit and related costs are included in the allowance.

8. **QUESTION:** Sheet AD101 KEYNOTE D32 refers to SST worktables to be relocated by User. On Sheet A-603, equipment E05 appears to be same as equipment D32, and E05 states that the SST table is “Existing - uninstall, store and re-install”. Please confirm User relocates, stores, and reinstalls the SST tables referred to by Equipment E05.

RESPONSE: Confirm. Users shall relocate, store, and reinstall SST tables. E05 was updated to “Existing – Coordinate with user to uninstall, store, and reinstall”

9. **QUESTION:** Sheet AD101 KEYNOTE D34 refers to Table to be relocated by User, and D35 refers to “seating” to be relocated by User. On Sheet A603, keynote N43 appears to be same as equipment D34 (tables), and Keynote N44 appears to be same as equipment D35 (“seating”). Keynote #N43 states “relocate existing table as indicated...”. Key note #N44 states “Relocate existing seating as indicated...”. Please confirm User relocates, stores and re-installs existing tables and “seating” indicated by Keynotes N43 and N44.

RESPONSE: Confirm. Users shall relocate, store, and reinstall SST tables. N43 & N44 was updated to specify user to relocate, store, and reinstall.

10. **QUESTION:** Besides the existing furniture/equipment/fixtures shown on Sheets AD101 and A603 and A604, Please confirm the rooms will be cleared by others prior to construction.

RESPONSE: Yes. User shall clear rooms prior to construction.

11. **QUESTION:** Reference Sheet A603 (equipment code E08) and AD101 (keynote D38). Since the existing refrigerator-with-freezers are scheduled to be protected in place, please confirm others will clear the refrigerators of perishables prior to construction.

RESPONSE: Keynote updated for user to relocate, store, and reinstall refrigerator with freezers.

12. **QUESTION:** Please advise where is the staging area.

RESPONSE: Parking and staging area are available on the east side of the parking lot and 2nd staging area is available on the eastside of the Station. Parking and staging area to be coordinated with ARFF user.

13. **QUESTION:** Where are allowed access points to building?

RESPONSE: From the parking lot and stall area.

14. **QUESTION:** Will the Contractor be allowed to enter from the existing double gates in the chain link fencing along Midway St and Ranger Rd?

RESPONSE: Yes, the Contractor will need to coordinate with ARFF to open and secure gates. On duty shift will assist.

15. **QUESTION:** Are the ARFF Station and Apparatus Bay Buildings within the AOA?

RESPONSE: Yes

16. **QUESTION:** If the ARFF Station and Apparatus Bay Buildings are within the AOA, Exterior work at these buildings appears to be farther than 75 FT from taxiway (and seem to be farther than the 500 FT 'clear zone' when the runway is active) from the nearest taxiway/runway. To work within the AOA at the interior & exterior of the ARFF Station and Apparatus Bay Buildings: Is Contractor required to obtain AOA badging?

RESPONSE: Yes

17. **QUESTION:** If the ARFF Station and Apparatus Bay Buildings are within the AOA, Is Contractor required to take AOA training/classes?

RESPONSE: Yes

18. **QUESTION:** If the ARFF Station and Apparatus Bay Buildings are within the AOA, Is Contractor required to obtain AOA decals for all vehicles entering the AOA area?

RESPONSE: No, just appropriate insurance and safety check current

19. **QUESTION:** If the ARFF Station and Apparatus Bay Buildings are within the AOA, Is Contractor required to meet insurance requirements for all vehicles entering the AOA area?

RESPONSE: Yes

20. **QUESTION:** If the ARFF Station and Apparatus Bay Buildings are within the AOA, Do Section 01800, paragraph 1.12 AOA Escorts apply to this project?

RESPONSE: Yes.

21. **QUESTION:** If the ARFF Station and Apparatus Bay Buildings are within the AOA, Besides obtaining AOA badging, are there any other special clearances required? If so, what are they?

RESPONSE: Non-Movement Area training

22. **QUESTION:** If the ARFF Station and Apparatus Bay Buildings are within the AOA, The ARFF Station and Apparatus Bay Buildings are within existing secured chain link fencing. Please advise of limitations to equipment we can bring within the existing secured chain link fencing.

RESPONSE: No obstruction within 4 feet of the fence lines.

23. **QUESTION:** Please confirm the Contractor will be allowed to take over areas for construction in one phase. If not, please advise of phasing requirements.

RESPONSE: Phasing shall as follows: All kitchen and Apparatus Deck and Stall doors.
Phase II: Bathroom and Hallway floors

24. **QUESTION:** Corridor 100 calls for demolishing existing flooring and providing new flooring. There appears to be several rooms tied to Corridor 100 they will not be accessible during floor demolition and floor install. Will the Contractor be allowed close access to the entire Corridor 100 in one phase for demo of flooring and in another single phase for new flooring installation? If not, please advise of phasing requirements.

RESPONSE: Contractor shall provide two (2) Portable Toilets for ARFF employees to use during flooring work in Corridor 100. During non-construction hours access to showers shall be made available.

25. **QUESTION:** Will the State require access to the NIC area at Bldg 117 from G/L 1 to 3?

RESPONSE: No access is required by ARFF during construction.

26. **QUESTION:** Will the State require access to the NIC area at Bldg 116 from G/L 32 to 33 during construction?

RESPONSE: Need access from 1 ARFF person per day to sleep; however can be avoided during construction hours.

27. **QUESTION:** If State require access to the NIC area at Bldg 117 from G/L 1 to 3, is there another doorway the State can use for access?

RESPONSE: No access is required by ARFF during construction.

28. **QUESTION:** Sheet 1/A201 NORTH ELEVATION shows two existing window areas will be infilled with CMU. Detail 1/A301 shows there are 3 more areas to receive CMU wall in-fill at G/L 7-8, 10-11, and 12-13. No masonry specs were found. Please provide masonry specifications.

RESPONSE: Provide solid grouted CMU infill with #4 @ 16" O.C. each way centered in wall. Provide #4 x 18" rebar dowels @ 16" O.C. at perimeter of infill. Dowels shall be embedded 3" min. into existing concrete with epoxy grout. Masonry compressive strength shall be $F'm = 2,000$ PSI.

29. **QUESTION:** Regarding the CMU in-fills shown on 1/A201 and 1/A301: Are the CMU wall in-fills to be fully grouted?

RESPONSE: Refer to answer 28 above for response.

30. **QUESTION:** Regarding the CMU in-fills shown on 1/A201 and 1/A301: Reference Wall Type W-3 on Sheet A401 and Detail 3/A402. Are there any tie-in between new CMU wall in-fill to existing wall? If so, please provide detail(s).

RESPONSE: Refer to answer 28 above for response.

31. **QUESTION:** Regarding the CMU in-fills shown on 1/A201 and 1/A301: No reinforcing steel for CMU wall in-fills found on Plans. Some of the new CMU in-fills will have new objects attached to them such as pot rack, metal wall cabinet, and AC-1 unit. Please confirm no reinforcing steel to be provided for CMU wall in-fills. If not, please provide details.

RESPONSE: Refer to answer 28 above for response.

32. **QUESTION:** Sheet A101 Keynote N36, in Room 103, indicates "Provide storage shelves..." Sheet A603 Equipment code E27 is shown in same Room 103 areas and indicates 8 ea SST wall-mounted storage cabinet, sized 43" x 12". Please confirm if intent is to provide 8 ea SST wall-mounted shelves, each shelf sized 43" x 12".

RESPONSE: Confirmed. Provide eight (8) SST wall mounted shelves in Room 103. 4 shelves located inside storage closet in Room 103. The remaining 4 located in Room 103 next to the sliding storage shelves. Each shelf sized 43" x 12".

33. **QUESTION:** Sheet E-411 shows a new receptacle at the open counter (detail 1/A503) (Elevation 2B on Sheet A404). Is the intent to route the conduit for this receptacle under slab to the open counter (detail 1/A503)? If so, for bidding purposes, please show the underground route on drawings.

RESPONSE: Route under slab to open counter. See routing in addendum set.

34. **QUESTION:** Sheet AD101 shows intent is to demo one window in between G/L 10 and 11. Elevation 1A on Sheet A405, in between G/L 10 and 11, appears to indicate that of the two windows in between G/L 10 and 11 one window is being replaced with CMU in-fill and mechanical penetration, and other window is replaced with new window. Please confirm if both windows in between G/L 10 and 11 are to be removed and disposed of.

RESPONSE: Confirmed. Both windows will be removed and disposed of. One window with CMU-in fill and mechanical penetration and the other window will be replaced with a new window.

35. **QUESTION:** Reference Sheet M-102 which calls for increasing size of existing opening at roof. What is the existing roof system type?

RESPONSE: Double tee structure with modified bitumen mop on with cap sheets. See below photos.





36. **QUESTION:** Reference Sheet M-102 which calls for increasing size of existing opening at roof. What is the existing substrate under the existing roof?

RESPONSE: Increasing of existing opening was removed. Roof structure is double tee structure with modified bitumen mop on with cap sheets. See below photos.

37. **QUESTION:** Reference Sheet P-101 and P901, which shows that there's new plumbing work under existing concrete slab. Section 03300, paragraph 3.05 provides some information for slab restore, but could not find existing slab thickness and PSI. For bidding purposes, what is the existing interior concrete slab's thickness and PSI?

RESPONSE: Please assume 6" thick slab and restore with 4000 psi concrete.

38. **QUESTION:** Reference Sheet P-101 and P901, which shows that there's new plumbing work under existing concrete slab. In Section 03300, paragraph 3.05.B found that the slab is to be reinforced with a minimum Grade 60 #3 steel reinforcing bars, but no requirements for drilling and epoxy dowelling related to trench restore was found. Please confirm if drilling and epoxy doweling is Not required for trench restore of existing concrete slab/pavement. If no, please provide details.

RESPONSE: Rebar dowels embedded in the existing concrete slab-on-grade are required to prevent differential settlement problems between the new and existing slab. Rebar dowels need to be set in drilled and cleaned holes filled with epoxy.

39. **QUESTION:** Reference Section 03300, paragraph 3.06.A for concrete sidewalks mentions providing concrete reinforced with synthetic fiber reinforcement. Section 03300, paragraph 2.01 REINFORCEMENT MATERIALS doesn't mention synthetic fiber reinforcement. Is the intent to provide concrete reinforced with synthetic fiber reinforcement for patching the exterior concrete sidewalk/pavement? If so, please provide

fiber type to provide.

RESPONSE: Synthetic fiber reinforcing is not required for sidewalk infill. In addition to #3 dowels epoxy doweled into existing concrete, use #3 @ 16" O.C. each way centered in sidewalk.

40. **QUESTION:** Reference detail 10/A502, detail 2/P-501. Detail 2/P601 appears to show waterproof membrane in middle of concrete slab. Please confirm if we follow detail 10/A502 where the waterproof membrane goes over new mortar bed that's over existing concrete slab.

RESPONSE: Follow detail 2/P601 for waterproofing – Waterproof membrane in middle of concrete slab.

41. **QUESTION:** Sheet E010 GENERAL NOTE #22 states “provide firestopping through fire rated walls. Firestopping to match wall finish color.” If firestopping is required, please clarify which walls are fire rated and provide firestopping specs as applicable.

RESPONSE: Not required if not penetrating through CMU wall or other fire rated walls. If firestopping is required, the firestopping shall meet the ASTM E 84 or UL 1479 standards.

42. **QUESTION:** Sheet E010 GENERAL NOTE #22 states “provide firestopping through fire rated walls. Firestopping to match wall finish color.” If firestopping is required, is it acceptable to paint the firestopping to match wall finish color?

RESPONSE: Not required if not penetrating through CMU wall or other fire rated walls. If firestopping is required, it is acceptable to paint the firestopping to match the wall finish color.

QUESTION: Sheet E010 GENERAL NOTE #17 states “The Contractor shall verify prior to beginning work that electrical transformer and distribution system are in proper working order. Any electrical devices found to be in a non-working condition shall be replaced or repaired as necessary.” No electrical transformer was found on the Plans. Please confirm verifying operation of electrical transformer is not in scope.

RESPONSE: Transformer is not in scope.

43. **QUESTION:** Sheet E010 GENERAL NOTE #17 states “The Contractor shall verify prior to beginning work that electrical transformer and distribution system are in proper working order. Any electrical devices found to be in a non-working condition shall be replaced or repaired as necessary.” a. Considering that existing Panels A, B & D remains and electrical work is limited to select rooms, please confirm doing an electrical survey of existing electrical distribution system is not required. b. If no, then please clarify if extent of survey is limited to verifying operation of existing receptacles to remain in Rooms 102 & 101. If still no, then please advise.

RESPONSE: Extent of survey is limited to verifying operation of existing receptacles to remain in rooms 101 and 102.

44. **QUESTION:** Sheets ED121 and E-111 shows that area between G/L 25 to 26 are not in scope. Sheets AD101, AD102 and A-101 shows that the work involves removing and replacing a coiling door at G/L 25 to 26. Please clarify.

RESPONSE: Power to coiling door and door controller to be provided.

45. **QUESTION:** Sheet AD101 KeyNote D30 states “Range Hood to remain during construction – Protect in Place”. Does this note mean the exist oven-range (below the hood) is to remain?

RESPONSE: Existing hood will remain – protect in place. Existing oven-range will be removed and disposed of and replaced with new gas oven-range.

46. **QUESTION:** Sheet A101 KeyNote #N32 states “Oven, Range, and all associated wiring, piping and conduit – Refer to Mech Dwgs”. M and P dwgs do not show connection to oven-range. Sheet E411 does not show power for oven-range. Section 11301 does not show new oven-range. Is the existing oven-range (below the hood) to remain?

RESPONSE: The existing oven-range will be replaced with new gas oven-range.

47. **QUESTION:** If the oven-range is to remain, is the existing gas or electric?

RESPONSE: The existing oven-range is gas and will be replaced with new gas oven-range,

48. **QUESTION:** Sheet PD101 has callout to “Remove (E) gas range, modify (E) gas line for new range connection. If there is a new oven-range to be provided, please provide specifications.

RESPONSE: Find attached cut sheet for range specification.

JRF ARFF STATION RENOVATIONS

KALAELOA AIRPORT

KAPOLEI, OAHU, HAWAII

STATE PROJECT NO. CO4420-33

RESPONSES TO SUBSTITUTION REQUESTS

The following Substitution Requests were received.

1. APPROVED SUBSTITUTIONS

The following items hereafter listed are approved as equal to the specified items:

<u>Item</u>	<u>Spec Section / Item</u>	<u>Specified Item</u>	<u>Requested Substitution</u>
1	Section 16510, paragraph 2.04	ELU COOPER LIGHTING SELHP100LiFeP0R3SD	ELU LEDALUX SQ-LED-2-SD
2	Section 16510, paragraph 2.01	PLA METALUX 4APVTLD-SL3C3	PLA LEDALUX MVT04-50W-27V-DDK-W-F
3	Section 16510, paragraph 2.01	PLAE METALUX 4APVTLD-SL3C3- EL10W	PLAE LEDALUX MVT04-50W-27V-DDK-W-B-F
4	Section 16510, paragraph 2.01	PLB COOPER LIGHTING TT-D5-830-U-WQ- DPM-TT/BG-UP-NW	PLB LITHONIA LIGHTING VCPG V4 P5 30K 80CRI T5W MVOLT PM BDS DWHXD
5	Section 16510, paragraph 2.01	SLB COOPER LIGHTING TT-D5-830-U-WQ-NW	SLB LITHONIA LIGHTING VCPG V4 P5 30K 80CRI T5W MVOLT SRM DWHXD

FAMILY RESTROOM

<u>Item</u>	<u>Spec Section / Item</u>	<u>Specified Item</u>	<u>Requested Substitution</u>
6	Section 16050, paragraph 2.02	Wattstopper DLM	Acuity Brands Control NCM PDT 9 RJB
7	Section 16050, paragraph 2.02	Wattstopper DLM	Acuity Brands Controls NPP16 D EFP

KITCHEN

<u>Item</u>	<u>Spec Section / Item</u>	<u>Specified Item</u>	<u>Requested Substitution</u>
9	Section 16050, paragraph 2.02	Wattstopper DLM	Acuity Brands Controls NCM PDT 10 RJB
10	Section 16050, paragraph 2.02	Wattstopper DLM	Acuity Brands Control NPP16 D EFP
11	Section 16050, paragraph 2.02	Wattstopper DLM	NPODMA DX XXX

MEN'S RESTROOM

<u>Item</u>	<u>Spec Section / Item</u>	<u>Specified Item</u>	<u>Requested Substitution</u>
12	Section 16050, paragraph 2.02	Wattstopper DLM	Acuity Brands Controls NCM PDT 9 RJB
13	Section 16050, paragraph 2.02	Wattstopper DLM	Acuity Brands Controls NCM PDT 9 RJB
15	Section 16050, paragraph 2.02	Wattstopper DLM	Acuity Brands Controls NPP16 D EFP

2. DENIED SUBSTITUTIONS

The following items hereafter listed are denied as equal to the specified items:

FAMILY RESTROOM

<u>Item</u>	<u>Spec Section / Item</u>	<u>Specified Item</u>	<u>Requested Substitution</u>
8	Section 16050, paragraph 2.02	Wattstopper DLM	Acuity Brands Controls NPODMA DX XXX

MEN'S RESTROOM

<u>Item</u>	<u>Spec Section / Item</u>	<u>Specified Item</u>	<u>Requested Substitution</u>
14	Section 16050, paragraph 2.02	Wattstopper DLM	Acuity Brands Controls NPODMA DX XXX