

# REQUEST FOR PROPOSAL FOR:

## DESIGN AND SUPERVISION SERVICES FOR

Project Number: B00032-DRO-07-24-RUM

**Project Title: RECONDITIONING AND REPAIRS OF TWENTY-ONE BUILDINGS AND/OR STRUCTURES AT EEA FINCA ALZAMORA - UNIVERSITY OF PUERTO RICO, MAYAGÜEZ CAMPUS**

**RFP #DRO 25-007 / B00032**

Physical Development and Infrastructure Office  
Disaster Recovery Office  
President's Office  
University of Puerto Rico

Project funded by:  
**FEMA AND CDBG-DR PROGRAM**



Universidad  
*de Puerto Rico*



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## 1. BACKGROUND AND PURPOSE

The University of Puerto Rico (the "UPR") is a public corporation of the Government of Puerto Rico, organized by Act No. 1 of January 20, 1966, as amended, known as "Ley de la Universidad de Puerto Rico" (the "UPR Act"), 18 LPRA § 601 et seq, and a higher education institution. The UPR was severely devastated by Hurricane María, and as a result, is a subrecipient of the Puerto Rico Department of Housing (the "PRDOH"), under the CDBG-DR Non- Federal Match Program, and the Public Assistance Program of the Federal Emergency Management Agency (the "FEMA").

The UPR is working towards its recovery, which requires the issuance of this Request for Proposal (the "RFP") for Design and Supervision Services for the UPR Recovery Project: **B00032-DRO-07-24-RUM-Reconditioning and Repairs of Twenty-one Buildings and/or Structures at EEA Finca Alzamora - University of Puerto Rico, Mayagüez Campus**, ("The Project"). This Program is 90% funded by FEMA and 10% matching funds of CDBG-DR Non- Federal Match Program. The purpose of this RFP is to request and receive proposals from qualified **Architecture and Engineering firms for the assessment of building's scope of work alignment and the development of all design documents: Basis of Design, Design Phases, Specialized Studies, Specifications, Cost Estimates, Schedules, Execution Logistic Plan, Permits, assistance in bidding phase, development of Project Manual for Construction and any other required documentation for the compliance of the requirements of FEMA and PRDOH/CDBG-DR Non-Federal Match Program, including but not limited to FEMA scope alignment and alternative procedure documentation as needed.** The awarded firm or professional will also provide services of oversight and coordination for the execution of a complete comprehensive project.

Proponents must explain in detail how they will be able to provide the required services and achieve the expected results, while in compliance with FEMA and PRDOH/CDBG-DR Non-Federal Match Program requirements. Previous experience with projects subject to compliance requirements under FEMA and PRDOH/CDBG-DR Non-Federal Match Program is very important. Review and verification through the site area of FEMA's Scope of Work (the "SOW") is required, as well as the development of a detailed SOW (based exclusively in the FEMA SOW of hurricane damages provided) with current industry construction costs for the repair in compliance with applicable actual codes and regulations. In addition, proponents shall provide the percent fee applicable for any future additional scope or scope change required for reinstate facility to normal functional operation.

The awarded proponent shall comply with all applicable Federal, state, and local laws, rules, regulations, and policies relating to FEMA Public Assistance Program and PRDOH CDBG-DR Program services. This includes without limitation, applicable Federal Registers; 2 C.F.R. part 200 Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards; Community Development Act of 1974; 24 C.F.R. part 570 Community Development Block Grant; applicable waivers; Fair Housing Act, 24 C.F.R. § 35, 24 C.F.R. part 58, 24 C.F.R. part 135; National Historic Preservation Act; 2 C.F.R. part 200.101, where applicable, and any other applicable state laws or regulations, including the requirements related to nondiscrimination, labor standards, and the environment; and Action Plan amendments and HUD's guidance on the funds. [Click on link](#) to see Compliance with Federal Law, Regulations and Executive Orders.

## 2. CONTACT AND TIMELINE

The RFP shall be sent and addressed to:

**Mr. Julio Collazo Rivera, Director**  
Office of Physical Development & Infrastructure

**Attention to:**  
**Arch. Alejandro Argüelles, Director**  
**Eng. Carlos Hiraldo, Field Operation Manager's**  
Disaster Recovery Office

University of Puerto Rico  
Jardín Botánico Sur 1187, calle Flamboyán  
Río Piedras, Puerto Rico 00926-1117  
Tel. (787) 250-0000, Ext. 5099  
**E-mail: [upprecovery.rfp@upr.edu](mailto:upprecovery.rfp@upr.edu)**

**NOTICE:** Interested proponents **must** register receipt of this RFP and confirm their intent to participate at [upprecovery.rfp@upr.edu](mailto:upprecovery.rfp@upr.edu). **Failure to register via email will result in automatic disqualification.** Registered proponents will receive the following when applicable:

- Notice of changes or cancelation of the RFP;
- Addendums (Responses to questions or clarifications, additional documents, etc.);
- Time extensions;
- Notice of award.

Receipt registration must include the following information:

1. Company's name.
2. Representative's name.
3. Representative's email.
4. Interested proponents who are employees or contractors of the UPR are obligated to disclose their relationship with the University when confirming their interest in participating. For more information, please see Section 15.2.2 of this RFP.

### **Performance Evaluation**

Please be advised that the resulting contract from this Request for Proposal (RFP) process will be subject to a series of performance evaluations throughout its term. By assessing the performance of the contractor at different stages of the contract term, the University aims to uphold the principles of fairness, transparency, and efficiency in government procurement. The evaluations will seek to review contractors' performance in the following or more areas: quality standards, delivery timelines, regulatory requirements, level of quality and value for the resources invested, and professionalism. The feedback obtained through performance evaluations can be used to identify areas for improvement and optimize the procurement process in the future, enabling the contractor and the University to learn from past experiences and enhance its practices for better outcomes.

### 3. TIMELINE AND SUBMISSION DATE

Description	Date
RFP publication	August 2, 2024.
Site Visit (Not compulsory but recommended): Location: Agricultural Research Station at Finca Alzamora: Principal Building. Coordinates: (18.25283, -65.99025) Be advised that interested proponents must register via email. Be advised that interested proponents must register via email. Please provide the complete company name, representative's name and email.	August 22, 2024 Time: 10:00am
Deadline for Request for Information (RFI) by email	August 27, 2024, Time: on or before 4:30pm Atlantic Standard Time (AST)
Response for Request for Information by email	September 3, 2024, Time: on or before 4:30pm Atlantic Standard Time (AST)
The proposal must be submitted by email. Address the indicated contacts in Section 2 – CONTACT (Mr. Julio Collazo Rivera, Attention to Eng. Carlos Hiraldo)	September 20, 2024, Time: on or before 11:59pm Atlantic Standard Time (AST).
Award Notification	November 2024
Execution of Agreement	December 2024

The proposal must be compiled in digital PDF format. The dates may be subject to change at the discretion of the UPR. Interested proponents have the responsibility of verifying and checking the email from which they issued a notice of receipt of this RFP, as was indicated in Section 2 of this RFP. All official communication related to this RFP will be per that indication. The award notice of this proposal shall not constitute the formal agreement between the parties.

### 4. PROJECT DESCRIPTION

The project considers two project worksheets (**09389 & 04938**) that will impact 21 buildings and/or structures located at the Agricultural Research Station at Finca Alzamora, Mayagüez which support research and academic activities of the College of Agricultural Sciences of University of Puerto Rico at Mayagüez.

DI #	DI Name
<b>PW 09389</b>	
155534	UPR Mayagüez EEA Finca Alzamora - Edificio 020 G Invernadero de Cereales, Leguminosas y Oleaginosas
155536	UPR Mayagüez EEA Finca Alzamora - Edificio 020 J Invernadero Propagación de Pasto y Forraje
155539	UPR Mayagüez EEA Finca Alzamora - Edificio 020 M Hangar #2 47-3-7 478
155543	UPR Mayagüez EEA Finca Alzamora - Edificio 020 Q Hangar #1 47-3-7-477
<b>PW 04938</b>	
155528	UPR Mayagüez EEA Finca Alzamora - Edificio 020 A Edificio de Ventas

155529	UPR Mayagüez EEA Finca Alzamora - Edificio 020 B Invernadero Área de Ventas
155530	UPR Mayagüez EEA Finca Alzamora - Edificio 020 C Invernadero de Investigación Largo Plazo
155531	UPR Mayagüez EEA Finca Alzamora - Edificio 020 D Invernadero de Investigación Corto Plazo
155532	UPR Mayagüez EEA Finca Alzamora - Edificio 020 E Edificio de Acuapónicos
155533	UPR Mayagüez EEA Finca Alzamora - Edificio 020 F Invernadero Anturios para Cortes
155535	UPR Mayagüez EEA Finca Alzamora - Edificio 020 H Invernaderos de Microbiología (1,2,3,4,5)
155540	UPR Mayagüez EEA Finca Alzamora - Edificio 020 N Invernadero Frente Área de Ventas
155541	UPR Mayagüez EEA Finca Alzamora - Edificio 020 O Laboratorio de Microbiología (BNF)
155542	UPR Mayagüez EEA Finca Alzamora - Edificio 020 P Garaje
155544	UPR Mayagüez EEA Finca Alzamora - Edificio 020 R Edificio Programa Doctoral
155546	UPR Mayagüez EEA Finca Alzamora - Edificio 020 T Invernadero CIFT
155549	UPR Mayagüez EEA Finca Alzamora - Edificio 020 V Edificio CEMA
155550	UPR Mayagüez EEA Finca Alzamora - Edificio 020 W Invernadero 6 Ingeniería Agrícola
263857	UPR Mayagüez EEA Finca Alzamora - Edificio 804 Laboratorio de Nutrición y Entomología
263859	UPR Mayagüez EEA Finca Alzamora - Edificio 803 Pabellón de Animales Pequeños Rumiantes
264275	UPR Mayagüez EEA Finca Alzamora - 020-444 Site

In general terms, the scope of the project contemplates repair tasks to restore facilities to pre-disaster design, function, and capacity, including mitigation tasks as recommended by FEMA. All work to be performed must be within the existing footprint. Some works include mitigation measures and code compliance measures as recommended by FEMA in the respective scope of work for each building. Due to the structure's year of construction, it may be necessary lead or asbestos inventories, abatement specifications to define the hazardous materials SOW in relation to the scope of the damages to be repaired. The rehabilitation tasks consider surfaces treatment, roof waterproofing and replacements, openings, VCT floors and bases, air conditioner units and electrical repairs, among other repairs and replacements.

The awarded firm will provide oversight services and coordination for the execution of the project. Proponents will be working on the respective scope of work, as stated by FEMA and must explain in detail how they will be able to provide the required services and achieve the expected results, while in compliance with FEMA and PRDOH/CDBG-DR Non-Federal Match Program requirements. Review and verification through the site area of FEMA's Scope of Work (the "SOW") and the proposed strategy is required, as well as the development of a detailed SOW (based exclusively in the FEMA SOW of hurricane damages provided) with current industry construction costs for the repair, and in compliance with applicable actual codes and regulations.

This RFP aims to develop the permanent works (Category E) obligated by FEMA in Public Assistance (PA) and Hazard Mitigation Program (HMP). The A/E firm will be working on the respective scope of work, as stated by FEMA.

The design scope will be executed in concurrence for all impacted project buildings that are included in one Project Worksheets. As part of the development, the A/E firm evaluates and develops the design package that considers:

- a. **Alignment of Scope** for submission to COR3 and FEMA for the compliance of the requirements of FEMA and PRDOH/CDBG-DR Non-Federal Match Program, that might consider the following strategies:
  - o The Awarded proponent is responsible for the evaluation of the FEMA SOW and development of the alignment/improved project package result of the methods of repair, construction logistics and others for a complete and constructable facility or system.
  - o *Improved Project or Scope of Work Alignment* shall follow all the requirements for approval of FEMA, as applicable.
  - o The scope alignment/improved project package will be evaluated and developed at the beginning of the design phase for submission to COR3 and FEMA. The alignment/improved scope shall be included as part of the final construction documents phase as an alternate SOW pending COR3/FEMA approval. Refer to **Appendix G** for the FEMA requirements and checklist for submission of alternatives procedures (share funds, alternate projects, improved projects).
  
- b. **Design Services** which include, but may not be limited to:
  - o Visit and identify the FEMA damages (as per SOW **Appendix F**)
  - o Validation of the strategy with the owner (UPR ORD & UPR Campus)
  - o Design (design development, construction documents), technical specifications, cost estimates, schedules, and bidding phase assistance.)
  - o Infrastructure, safety, energy efficiency and technology measures in accordance with the hazard mitigation scope
  - o Abatement for lead and asbestos materials
  - o Endorsements and Permits
  - o Technical Studies as Additional Services (detailed or described the possibles)
  - o Field Supervision
  - o Other services required for the design and supervision services.
  
- c. **Development of the Logistic Plan** for the Design, Permits, Bid packages and Construction Execution phases in relation to the approved budgets and schedule. The purpose of this plan is to coordinate activities with the UPR EEA Lajas to not cause adverse effects with the research, academic and administrative functions.

In general terms, the required tasks for those buildings are as follows (See SOW in **Appendix F** for specifications).

## 5. SERVICES

The **Awarded Proponent** will carry out, as part of the design and supervision services, all the activities and responsibilities identified below, acknowledging that this does not constitute an exhaustive list of the duties, which can increase due to the very nature of the work:

### 5.1 ALTERNATIVE PROCEDURES SERVICES RELATED TO FEMA'S SOW

5.1.1 The Alternative Procedures shall be developed per the Public Assistance Program and Policy Guide (PAPPG) V3.1 2018, Chapter 2, section VII.G (Capped Projects). Alternative Procedures consist of the following projects:

- a. Improved
- b. Consolidated
- c. Alternate
- d. Share funds
- e. Excess funds

5.1.2 The scope of work includes, but is not limited, to the following:

1. Review, evaluation, and familiarization with the projects that are part of the Alternative Procedures.
2. Develop and prepare a turnover package (TOP) for submission to COR3 and FEMA. The TOP shall include, but is not limited, to the following:
  - a. Transmittal letter.
  - b. Project narrative -Description with cost effectiveness and benefits of the Alternative Procedure project and Mitigation proposal resiliency.
  - c. FEMA requested forms per the PAPPG guidelines.
  - d. Schematic design.
  - e. New scope of work alignment with cost.
  - f. Possible mitigation measures proposal to be transferred from original project to the alternate.
  - g. Detailed Cost estimates.
  - h. Schedule.
  - i. Applicable permits for each turnover package.
  - j. Development and submission of any required document as stated by the PAPPG and the Alternative Procedures guidelines.

5.1.3 The selected proponent shall be available to meet with FEMA and COR3 as part of the development and submission of the TOP for Alternative Procedure.



- 5.1.4 The selected proponent shall respond to any requests for information (RFI) from FEMA and COR3 derived of the process of evaluation and selection for this RFQ. Qualified firms or individuals should have experience in historic restoration/rehabilitation design and engineering services (mechanical, civil, structural, electrical, roof waterproofing specialist, cost estimator, vertical communication (elevator) engineer, historic buildings consultant) that are necessary for the reconstruction of these facilities. The UPR's goal is to receive the highest level of quality that aligns with its needs at the lowest reasonable price from an experienced and qualified firm.

Please, for more information, **Appendix G** for overview and processing the requirements for Alternatives Procedures – Example for Public Assistance-Alternative Procedures (Section 428) Guide for Permanent Work FEMA4339-DR-PR.

## 5.2 SERVICES RELATED TO FEMA'S SOW

- 5.2.1 The provided SOW serves as fundamental base for the development of a final detailed SOW. This final detailed SOW is required for submission to FEMA as part of the schematic design phase, for the purpose of Scope of Work Alignment. The UPR will provide guidelines for roof design. The awarded proponent will be responsible for the design following such guidelines and for preparing cost estimates for the mentioned SOW and any additional SOW as required by UPR for compliance with all internal and FEMA procedures. In addition, the awarded proponent shall perform technical assessments of existing roof conditions, technical specifications, including but not limited to infrared photography; uplift test; cores; materials; roof elements, including equipment, and existing roof perforations to be included as part of the as built. These plans and other documents will comply with the above requirements and must be submitted to the UPR for consideration and approval.
- 5.2.2 The Awarded Proponent is responsible for verifying the SOW, Method of Repair (MOR), Record of Environmental Consideration (REC), Bipartisan Budget Act of 2018, Pub. L. No. 115-123, § 20601, 132 Stat. 64 (2018) approved work included in this document. The Campus Liaison will coordinate the visit as soon as possible.
- 5.2.3 The Project shall comply with FEMA's requirements for Category E – Permanent Work as stated in the Public Assistance Program and Policy Guide FP104-009-2/April 2018 and Puerto Rico's construction laws, regulations, and codes.
- 5.2.4 The Awarded Proponent is responsible for notifying the UPR's representative in case of any change that may affect the primary SOW.

- 5.2.5 As part of the design and supervision services to be provided, the Awarded Proponent will serve as a consultant in all matters related, constituting an advisory resource for the UPR in the plans, strategies, and actions referred and/or requested by the President or his authorized representative, COR3 or FEMA, and will be available to complete said requests and attend the meetings that the UPR deems necessary.
- 5.2.6 The Awarded Proponent will evaluate the 406 Hazard Mitigation proposed by FEMA and determine if it's viable or if there are better proposal measures to provide Hazard Mitigation to the facility. In case of a change, the awarded proponent, in coordination with the UPR's representative, will prepare a Hazard Mitigation proposal for submission to FEMA for its corresponding approval.
- 5.2.7 The Awarded Proponent will work as a representative of the UPR during the development of the Project. The personnel designated by the Awarded Proponent to oversee the project must be authorized and licensed to exercise the professions of engineering and/or architecture in Puerto Rico and must be a bona fide member of the Professional College of Engineers and Land Surveyors of Puerto Rico or the Architects and Landscape Architects Association of Puerto Rico with the corresponding membership fee payment up to date.
- 5.2.8 As part of the Basic Services the Awarded Proponent will have the responsibility related to the preparation, processing, and obtaining all the endorsements and permits required for the Project. This includes the responsibility of evaluating and determining the applicable permits to the Project and undertaking all necessary actions to ensure compliance with both state and federal agencies. These efforts will not constitute additional services but will be integral to the basic services provided. The costs associated with submitting the endorsements, engaging technical consultants, and/or acquiring permits from the relevant agencies will be included as part of the reimbursable expenses.

These responsibilities also extend to obtaining permits and certificates for lead and asbestos remediation in buildings constructed before 1990. In addition, any permit from environmental and historical agencies required for this project.

The UPR reserves the right to award and request Additional Services. The award of Additional Services for a contract does not imply the complete utilization of the Additional Services amount. All necessary additional services must be requested to or authorized by the UPR. Requests for Additional Services will be made in writing, detailing their nature and associated costs, including coordination costs and the time required for

execution. The UPR could also request additional services to the Awarded Proponent per this section of the RFP.

Unless covered under the definition of Basic Services, all services that deviate from the generally accepted architecture/engineering practices will be considered as additional services. Specifically, this refers to services beyond those described in the contract, which the UPR will approve in writing, and within the budget allocated for these services.

Upon contract signing, to activate the Additional Services clause, the awarded proponent must submit a proposal. The UPR will then assess the necessity of performing the additional services. If deemed necessary, and in compliance with the federal procurement process, the UPR may request a minimum of three different proposals. Alternatively, the UPR can activate the clause by requesting additional services from the awarded proponent.

- Please refer to **Appendix F** for a complete FEMA's SOW.

## 6. COST PROPOSAL

The proposal **must be submitted only in the Table Form** stated in **Appendix D**.

**Note: Do not modify the template in Appendix D. All spaces are required and must be filled. If any space does not apply you should put (N/A) or other information. This is a substantial requirement, do not leave any blank spaces, for it could be cause for disqualification.**

## 7. REQUIRED DOCUMENTS FOR THE SUBMISSION OF THE PROPOSAL

### General Instructions

The evaluation and selection of a proposal will be based on the information submitted as required in this RFP. Additional information may be required upon interviews, if conducted. Proponents should respond clearly and completely to all requirements. Failure to respond to each of the requirements in the RFP will be grounds for disqualification. **Disqualified proponents will not be considered by the Evaluation Committee. The proponent must carefully examine the RFP documents and submit Appendix E as required. The submission of a proposal by a proponent will be considered evidence that it has read, understands, and accepts these requirements.** The proponent must understand that any study or information presented is provided in good faith, with the purpose of offering access to the same information that the UPR obtained. Said information or studies must be supplemented by personal research and interpretation to be judged by the bidders. It is the responsibility of the proponents, not the UPR, any misinterpretation of the information presented.

Elaborate proposals (e.g., expensive artwork), beyond that sufficient to present a complete and effective proposal, are not necessary or desired.

**Mandatory requirements, Proposal Preparation, and Submission**

Professional services of Design and Supervision companies or individuals with current license to practice engineering or architecture in Puerto Rico are required.

Before submitting the offer, the proponent should carefully examine the RFP or proposal form provided in the RFP documents. The proponent will be responsible for any errors or omissions in the offer. Proposals will be submitted in said form and shall be initialized and signed on each page provided for it, in accordance with the following:

- a. If the proponent is an individual, the offer will be signed with the individual's name and should indicate "Individually." The individual's physical and postal address, telephone and email will be included, also proposal number and title of this RFP.
  - i. If the proponent is an individual operating under the name of a firm, the offer will be signed by the individual. The proponent will include the name of the firm under which it operates (dba). The postal and physical address, email, telephone of the firm will be included, also bid number and title of this RFP.
- b. If the proposer is a professional services corporation (P.S.C.), a limited liability company (L.L.C) or a limited liability partnership (L.L.P), its offer will be signed by its president, secretary, or other authorized official, according to its corporate resolution in this regard. The seal of the corporation must be attached. The physical and postal address, email, telephone of the main office of the corporation will be included, also proposal number and title of this RFP.

The offer and the documents identified below will be addressed to the indicated contacts in Section 2 – CONTACT via email in digital PDF format.

Proposers responding to this RFP **must comply** with the following documents:

- **Letter of Intent** - (1-page limit): Identifying the name and number of the RFP, and date of submittal. The letter must be signed by an authorized representative of the organization, that states the acceptance of the Terms and Conditions of this RFP, providing the exact business name to conduct business with the UPR, and address, telephone, fax number, e-mail address and SAM Entity Identifier Number.
  - SAM registration and annual renewal is a contract requirement. Proponents in the process of registering and/or renewing their SAM can participate in this RFP, however, if SAM registration and/or renewal process is not done by the time of award, your proposal may be rejected for not meeting federal procurement requirements.
- **Appendix A** – Statement of the Bidder

- **Appendix B** – Required Federal Documents (Lobbying Certification, Non-Conflict of Interest Certification and Limited Denial of Participation Affidavit)
- **Appendix D** - Cost Proposal, including additional SOW fee percentage (%)
- **A color copy of the engineer's or architect's professional ID** (Identificación de Colegiación) and **a copy of the Department of State License.**
- **Copy of initialized RFP and its Appendices.**
- **Appendix E** – Response Checklist - Before signing and submitting the proposal for this Project, interested proponents should carefully review and fill the Appendix E – Response Checklist. Response checklist must represent the reality of submitted documents. **If a proponent fails to submit documentation as indicated in the Response Checklist, the proponent will be automatically disqualified from consideration. No exceptions will be made to this requirement.**

### **Request for Information (RFI)**

An RFI or clarification shall be addressed by email to: [uprrecovery.rfp@upr.edu](mailto:uprrecovery.rfp@upr.edu) on or before the date established in this document and must reference this specific RFP (**RFP #DRO 25-007 / B00032**) in the subject line of the email. No telephone inquiries will be allowed. No further questions will be allowed after the established date. No questions will be accepted after the deadline provided in the above schedule, subject to any amendment to the same duly notified.

Any interpretations, correctios, or changes to this RFP will be made by addendum. Any changes to specifications will be made in writing and delivered to proponents that register receipt of this RFP at [uprrecovery.rfp@upr.edu](mailto:uprrecovery.rfp@upr.edu). Proponents shall acknowledge receipt of the addenda on **Appendix D – Cost Proposal.**

## **8. UPR RESPONSIBILITIES**

The University of Puerto Rico PR will provide for this RFP:

- All the available information considered necessary for the Project execution.

## **9. COMPENSATION FOR DESIGN AND SUPERVISION SERVICES AND PAYMENT METHOD**

The UPR will pay **the Awarded Proponent only** for services rendered or provided to the satisfaction of the UPR. **The Awarded Proponent** will certify that it will submit invoices for services established in the contract and any other services approved in writing by the UPR.

For the performance of the DESIGN PHASE, **the Awarded Proponent** will prepare and deliver to the UPR the documents required for the phase within the time indicated in the basic itinerary agreed to between the parties. The design and bidding itinerary

are based on a total of calendar days, beginning on the date of the written Notice to Proceed, and will be interrupted by the evaluation processes carried out by the UPR between each of the phases. Payments will be made after the UPR receives and approves in writing the documents required in the Design Phase, as indicated in the contract, based on construction cost.

**The Awarded Proponent** must submit one (1) original and one (1) digital copy of the invoices to be certified by the President of the University of Puerto Rico or his authorized representative, in this case, the Director of the Office of Physical Infrastructure and Development at the University of Puerto Rico, Central Administration (the "ODFI"). In addition, the Designer/Supervisor will send a copy by email to the Project Coordinator appointed by ODFI. Each invoice must be delivered physically to the ODFI during the first ten (10) calendar days of the following month in which the services were rendered. During the Design Phase, the invoices must detail the services provided or the activities carried out, accompanied by the required documents, and comply with the Basic Services requirements established in this contract.

During the SUPERVISION PHASE, the **Designer/Supervisor** must submit, along with the invoice, one (1) monthly report with the summary of activities carried out during that period in accordance with the Scope of Work established in the contract. The report must include photographs that show the project progress, minutes of the meetings with the contractors, an analysis of the current status of the Project, an evaluation of the quality of the execution, and recommendations, among other documents that the **Designer/Supervisor** considers relevant or important. The report with its corresponding invoice must also be delivered on a Universal Serial Bus (USB) and sent by email to the Project Coordinator appointed by the ODFI.

Payments for rendered services will be issued according to contract and within thirty (30) calendar days, beginning on the date on which the Director of the Office of Physical Infrastructure and Development at the University of Puerto Rico, Central Administration approves the work performed, and the invoices and documentation received meet all requirements.

## **10. PROPOSAL SCORING AND EVALUATION CRITERIA**

Accepted proposals will be reviewed by the UPR and scored against the stated criteria. The committee may review references, request interviews/presentations, conduct interviews, demonstrations and/or conduct on-site visits. The resulting information will be used to score the proposals. The scoring will be tabulated, and the proposals ranked based on the numerical scores received.

The requested proposal will be known as **Design and Supervision Services** to be provided by established and experienced engineer's or architect's firms. The **Awarded Proponent** shall be a professional or technical team fully experienced in project designs, architectural and engineering concepts, site improvements and infrastructure strategies, building development and technology, cost estimates, administration, management, evaluation, project control (budget and schedule)

accounting, technological reporting systems, construction quality control and processes. The proponent must also be well versed in Federal compliance, with a proven performance record. The UPR will only consider architectural and engineering firms with established and verifiable experience with at least two (2) years or more of experience, with projects sponsored and funded by FEMA, CDBG-DR program, and/or another Federal agency.

The UPR must comply with all applicable federal and state laws, regulations, executive orders, and policy. Consequently, the UPR will review the Proponent's Proposal to determine overall responsiveness and completeness of the Proposal with respect to the components outlined in the RFP using the following evaluation criteria:

**Executive Summary – Refer to Appendix A Statement of the Bidder**

- Provide a complete profile of your organization, mission, and vision statements.

**Experience and strategy in providing the services (up to 20 points) – Refer to Appendix A Statement of the Bidder**

- Describe the organization/company's history, experience, and capabilities as it relates to the proposed scope of work. Be specific and detail no more than three projects/contracts: description of work, dates, locations, challenges, and results. (up to 5 points)
- Please indicate whether you have experience working with public or federal entities, and years of experience performing like services. Specify the entities and supervisor of the work. The UPR may call said entities. (up to 5 points)
- Provide specific examples of the services or tasks previously provided by the entity as considered in this RFP. (up to 5 points)
- Detail your firm's understanding of the challenges and barriers for a project like this and proposed approach to overcoming these barriers. (up to 3 points)
- Identify potential risk factors and methods for dealing with these factors. (up to 2 points)

**Team qualifications (up to 25 points) – Refer to Appendix A Statement of the Bidder**

- The Proponent should provide detailed information about the experience and qualifications of the Proponent's principals, project managers, key personnel, and staff to be assigned, including degrees, certifications, licenses, and years of relevant experience in terms of Federal Grants and/or FEMA and FEMA regulatory requirements. The Proponent shall specifically identify current employees who will serve as Key Personnel. This includes the Proponent's own staff and staff from any subcontractors to be used. The Proponent should demonstrate that its staff (and/or subcontractor's staff) meet the desirable requirements listed below and have necessary experience and knowledge to successfully implement and perform the tasks and services. Any subcontractors should be named, along with a description of experience and what role they

- will play on the Proponent's team. The proponent should describe its demonstrated capability to provide the staffing with the qualifications required in this RFP through the term of the expected contract. (up to 15 points)
- Attach resumes of personnel (or/and sub-contractors, if any) who will be providing the services. Consider the infrastructure trades specialists (engineering and/or architectural consultants) based on the trades applicable for the scope work for this project (up to 10 points)
    - Personnel/Trade specialist mechanical, electrical, architectural, structural, civil, specialist roof consultant and/or other qualifications per trades based on SOW.

**Proponent references (up to 5 points) – Refer to Appendix A Statement of the Bidder**

- A minimum of three (3) references of the Proponent (as Prime Contractor) to which similar services have been provided within the past five years of a comparable sized institution or company, offering for each a summary of the work performed and how it relates to the scope of work under this RFP. Each reference should include a point of contact name, their title, name of the organization they represent, and their phone and e-mail information so that they may be contacted by the UPR or its designer(s). The Proponent is encouraged to provide up to two (2) references for identified subcontractors. (up to 5 points)
- If the Proponent has previous contracts with the UPR the performance directly related to those services will be considered as additional reference to those minimally required.

**Cost Proposal (up to 30 points) – Refer to Appendix D – Cost Proposal**

- Proponent with lower proposal (30 points), all other proposals receive a percentage of the point available based on their cost relationship to the lowest with the following formula:  $(\text{Lowest Cost Proposal} / (\text{Cost Proposal being evaluated})) \times \text{Total Cost Proposal Points}$ . The final score will be rounded to the nearest whole number.
- The Additional Services and Reimbursable Expenses amounts will not be considered for the formula calculation.

**Cost Proposal % Fee for additional SOW (up to 5 points) – Refer to Appendix D – Cost Proposal**

- Proponent with lower % of fee for additional SOW (up to 5 points)

**Preference of 5 points for Section 3 Business Concern and MWBE**

The UPR will provide a preference of five (5) points in the evaluation criteria of the method of rating, for a greater participation of Section 3 Business Concern and M/WBE Registered Puerto Rico Business. The Proposer seeking the Section 3 preference must be able to demonstrate that they meet one of the following criteria:



- Percentage owned by Section 3 residents: or
- Has permanent, full time employees at least 30 percent of whom are currently Section 3 residents, or within three years of the date of first employment with the business concern were Section 3 residents: or
- Has subcontracted, or has a commitment to sub-contract, in excess of 25 percent of the total dollar award of all sub-contracts to be awarded to such businesses described above. You can locate the Section 3 or MWBE Policy document with all the related information of this topic available in English and Spanish on the PRDOH website.
  - <https://cdbg-dr.pr.gov/en/download/section-3-policy/>
  - <https://cdbg-dr.pr.gov/download/politica-sobre-seccion-3/>
  - <https://cdbg-dr.pr.gov/en/download/mwbe-policy>
  - <https://cdbg-dr.pr.gov/download/politica-mwbe/>
  - **Supporting evidence to substantiate Section 3 status can include; (i) Evidence of business ownership (e.g. Articles of Incorporation, By Laws, proof of 51% company ownership, Partnership Agreement); (ii) Evidence of employees of the business (e.g. roster of permanent full time employees, Section 3 Resident Self Certification Form for each employee who qualifies as newly hired Section Resident employee); (iii) Duly signed letter evidencing subcontracting at least 25% of the dollar amount.**
  - Proposers seeking M/WBE preference **should provide a copy of their MWBE certification to evidence their status.** The certification should be provided by the following agencies as stated in the PRDOH M/WBE Policy Guide:
    - **MBDA** – Minority Business Development Agency PR
    - **WOSB** – Women-Owned Small Business
    - **WBENC** – Women’s Business Enterprise National Council PR
    - **PMSDC** – Puerto Rican Minority Supplier Development Council
    - **EPA** – Office of Small Business Programs OSDBU

For more information, please click the link below:

<https://cdbg-dr.pr.gov/en/section-3/enterprise-woman-minority-mwbe/m-wbe-policy/>

**TABLE - SUMMARY OF POINTS**

<b>Description</b>	<b>Points</b>
<b>Experience and strategy in providing the services</b>	<b>20</b>
<b>Team qualifications</b>	<b>25</b>
<b>Proponent references</b>	<b>5</b>
<b>Cost Proposal</b>	<b>30</b>
<b>Cost Proposal % Fee for additional SOW</b>	<b>5</b>
<b>Total</b>	<b>85</b>
<b>Section 3 Business concerns and MWBE</b>	<b>5</b>
<b>Total</b>	<b>90</b>

### **11. FINAL EVALUATION**

The UPR will review all Proposals submitted based on the proponent experience and execution of similar and complex projects. The Project will be awarded to firms that exceed the requirements of the RFP for the best value of overall services that surpass the UPR's interests and are in full compliance with FEMA and CDBG-DR procurement requirements.

The RFP may not be awarded to the Proponent who submitted the lowest price if, in the judgment of the Committees or the UPR, another Proposal offers a better value for the Government of Puerto Rico.

### **12. PROJECT AWARD**

ODFI's Director will provide oversight on all contractual matters between the UPR and the awarded firm, including final professional services fee compensation, contract's details, and compliance.

The UPR reserves the right to reject any or all proposals and to award the bid under the conditions it deems most advantageous to the interests of the University of Puerto Rico, regardless of the amount of the offer. It also reserves the right to award the proposal to more than one proponent, cancel the RFP and/or the award of the bid at any time before the signing of the corresponding contract. The submission of a response to an RFP does not represent an agreement of any kind between the UPR and the proponent.

The UPR will award the bid in writing and will state the reasons it had for the award. The UPR has the right to cancel the process of RFP without notice at any time.

### **13. JUDICIAL REVIEW**

Any proponent adversely affected by a decision made by the UPR in connection with the selection and award procedures provided in this RFP may submit a request for

reconsideration to the UPR in accordance with the Uniform Administrative Procedure Act, Law No. 38 of June 30, 2017, as amended, within ten (10) days from the award notification date to the following email [upprecovery.rfp@upr.edu](mailto:upprecovery.rfp@upr.edu).

A request for reconsideration, as well as any other petition for review, must be in writing and clearly identify the name and address of the requesting party, contain a detailed and accurate statement of the grounds for the request, including copies of all relevant documents, and specify the relief requested. A request for reconsideration or other petition for review that fails to comply with the time limits or procedures stated above or otherwise provided in this section may be dismissed or denied without further consideration. If the UPR fails to act on the motion for reconsideration within ten (10) business days of the filing thereof, it shall be understood that the motion was denied outright and the term for judicial review shall begin to elapse from said date.

If the UPR accepts the reconsideration request within the term provided for it, it must issue the reconsideration resolution within thirty (30) days following the filing of the motion for reconsideration. If the UPR accepts the reconsideration request but doesn't take any action in relation to the motion within thirty (30) days of being filed, it will lose jurisdiction over it and the term to request judicial review will begin from the expiration of said term of thirty (30) days. The UPR may extend said term only once, before it ends, for an additional term of fifteen (15) days.

**Judicial Review.** The proponent adversely affected by the UPR's final decision on reconsideration may file a petition for judicial review in accordance with the Uniform Administrative Procedure Act, Law No. 38 of June 30, 2017, as amended, before the Court of Appeals, within a term of twenty (20) days from the date a copy of the notice of the final resolution or order was filed in the record of the UPR or from the term of twenty (20) days from the expiration of the thirty (30) day period within which the UPR must act upon the request for reconsideration or from the time extended by the agency, if applicable. The party shall notify the UPR and all other parties of the filing of the petition for review within the term established to request such review. The notice may be sent by mail. Provided that if the date on which the copy of the notice of adjudication is filed in the records of the agency differs from the mailing date of said notice, the term shall be calculated from the mailing date.

## 14. BLACKOUT PERIOD

### 14.1. Definition of Blackout Period

The blackout period is a specified period during a competitive procurement process in which any Proponent, bidder, or its agent or representative, is prohibited from communicating with any UPR's employee or UPR's contractor involved in any step in the procurement process about the solicitation. The blackout period applies not only to UPR employees, but also to any current contractor of the UPR. "Involvement" in the procurement process includes but may not be limited to project management,

design, development, implementation, procurement management, development of specifications, and evaluation of proposals for a particular procurement.

This solicitation designates the contact person (RFP Coordinator) and all communications to and from potential Contractors and/or their representatives during the blackout period must be in accordance with this RFP's defined method of communication with the RFP Coordinator. The blackout period begins on the date that the UPR first issued the publication of this RFP and will end when the 20 days of request for judicial review have passed.

In the event a prospective Contractor may also be a current UPR contractor, UPR employees and the prospective Proponent may contact each other with respect to their existing contract and duties only. Under no circumstances UPR employees or current contractors may discuss this RFP or corresponding procurement process or status. Any bidder, Proponent, or UPR contractor who violates the blackout period may be excluded from the awarding contract and/or may be liable to the UPR in damages and/or subject to any other remedy allowed under law, including but not limited to a ban in participating in any procurements issued by or for the UPR, or any entity of the Government of Puerto Rico, for a period of ten (10) years, if it is determined that such action results in violation of the Anticorruption Code, Puerto Rico Act 2-2018.

#### **14.2. Other Prohibited Communications**

Communications with other representatives of the Government of Puerto Rico or relevant entities of Federal Government regarding any matter related to the contents of this RFP are prohibited during the submission and selection processes. Failure to comply with these communications restrictions will result in rejection of the Proponent's proposal.

### **15. UPR DISCLAIMERS**

By accessing and using the information provided by the UPR for the purpose of proposal submission, and, by submitting a Proposal, the Proponent, on behalf of themselves and their Partners/Subconsultants acknowledges and agrees that:

#### **15.1. Equal Employment Opportunity and Non-Discrimination**

15.1.1. The awarded proponent and authorized subcontractors must comply with the Executive Order 11246 titled "Equal Employment Opportunity", as amended by Executive Order 11375, and as supplemented in Department of Labor regulations (41CFR Part 60). In addition, the awarded proponent will not discriminate on account of sex, gender, gender identity, sexual orientation, age, race, color, national origin or social condition, physical or mental impairment, political or religious beliefs, marital status, for being a victim or being perceived as a victim of domestic violence, physical or mental handicap or veteran status in any employment, contracting or subcontracting practices called for by this contract.

## **15.2. Conflict of Interest**

- 15.2.1. Conflict of Interest: As defined by the "Organic Law of the Office of Government Ethics of Puerto Rico," Law No. 1 of January 3, 2012, as amended, a Conflict of Interest is a situation in which personal or economic interest is or may reasonably be in conflict with the public interest.
- 15.2.2. Interested proponents who are employees or contractors of the UPR are obligated to disclose their relationship with the University when confirming their interest in participating. For UPR employees, it is mandatory to notify and disclose the nature of the relationship and the campus where such a relationship exists. For contractors, it is mandatory to notify and disclose any active contracts with the University, including the campus or subsidiary corporations in which services are rendered, contract term, quantity, and registration number. This information will be analyzed on a case-by-case basis, in accordance with the "Organic Law of the Office of Government Ethics of Puerto Rico," Law No. 1 of January 3, 2012, as amended, and all applicable local, state, and federal laws and regulations. The UPR will determine if the interested proponent will be disqualified for conflict of interest, or if a waiver from the Government Ethics Office will be sufficient to remediate said appearance of conflict of interest. If an interested proponent fails to provide accurate information, the UPR reserves the right to disqualify the proponent outright or cancel the award, if already granted.
- 15.2.3. No employee, officer, or agent may participate in the selection, award, or administration of a contract supported by a federal award if he or she has a real or apparent conflict of interest. The purpose of this prohibition is to ensure, at a minimum, that employees involved in the award and administration of contracts are free of undisclosed personal or organizational conflicts of interest—both in fact and appearance (2 C.F.R. § 200.318(c)(2)).
- 15.2.4. The Proponent shall notify the UPR as soon as possible if this contract or any aspect related to the anticipated work under this contract raises an actual or potential conflict of interest (as defined at 2 C.F.R. Part 215 and 24 C.F.R. § 85.36 (2013) (or 84.42 (2013), if applicable). The Proponent shall explain the actual or potential conflict in writing in sufficient detail so that the UPR can assess it.
- 15.2.5. In the event of real or apparent conflicts of interest, the UPR reserves the right, in its best interest and at its sole discretion, to reject a proposal(s) outright or to impose additional conditions upon the Proponents. The Proponent shall accept any reasonable conflict mitigation strategy employed by the UPR, including but not limited to the use of an independent subcontractor(s) to perform the portion of work that gives rise to the actual or potential conflict. The UPR reserves the right to cancel any contract awarded pursuant to this RFP with 30 days' notice if an actual conflict of interest, or the appearance of such conflict, is not cured to UPR's satisfaction.

- 15.2.5.1. A real conflict of interest arises when an employee, officer, any member of his or her immediate family, his or her partner, or an organization which employs or is about to employ any of the aforementioned individuals, has a financial or other interest or a tangible personal benefit from a firm considered for a contract.
- 15.2.5.2. An apparent conflict of interest is an existing situation or relationship that creates the appearance that an employee, officer, or agent, any member of his or her immediate family, his or her partner, or an organization which employs or is about to employ any of the parties indicated herein, has a financial or other interest in or a tangible personal benefit from a firm considered for a contract.
- 15.2.5.3. Although the term "financial interest" is not defined or otherwise described in the Uniform Rules, a financial interest can be considered to be the potential for gain or loss to the employee, officer, or agent, any member of his or her immediate family, his or her partner, or an organization which employs or is about to employ any of these parties as a result of the particular procurement. The prohibited financial interest may arise from:
  - 15.2.5.3.1. Ownership of certain financial instruments or investments like stock, bonds, or real Estate.
  - 15.2.5.3.2. A salary, indebtedness, job offer, or similar interest that might be affected by the procurement.

### **15.3. Proponent's Error and Omissions**

- 15.3.1. The UPR reserves the right to reject a submission that contains an error or omission. The UPR also reserves the right to request correction of any errors or omissions and/or to request any clarification or additional information from any Proponent, without opening clarifications for all Proponents. Proponents will be provided with a reasonable period in which to submit written responses to UPR's requests for clarification or additional information. Proponents shall respond by the deadline stated in the correspondence.

### **15.4. Cost analysis for proposal; Proponent's Responsibility**

- 15.4.1. All proponents are required to perform an independent and thorough analysis of the cost estimate related to the project and their design and supervision services. Proponents are responsible for determining the accuracy and completeness of the cost estimate independently. Proponents are solely responsible for the accuracy and completeness of the cost proposal submitted.

### **15.5. No responsibility of the UPR regarding the use of information**

- 15.5.1. The information provided by the UPR in reference to this RFP is intended solely for good faith and for the purpose of facilitating the proposal submission process. It is provided as a convenience to proponents and should not be

relied upon as the sole basis for proposals, neither should be interpreted as the norm for every request and procurement process. The UPR shall not be held responsible for the accuracy, completeness, or reliability of the information provided for proposal submission. The UPR disclaims all liability for any errors, omissions, or discrepancies in the information presented in connection with this RFP.

**15.6. Proponent's Expenses**

15.6.1. Proponents are solely responsible for their own expenses in preparing a Proposal and for subsequent negotiations with the UPR, if any. The UPR will not be liable to any Respondent for any claims, costs, or damages incurred by the Proponent in preparing the Proposal, loss of anticipated profit in connection with any final Agreement, or any other matter whatsoever.

**15.7. Selection of proposal in best interest of the UPR**

15.7.1. Notwithstanding the selection criteria set forth in the RFP, if determined by the UPR to be in its best interest, the UPR reserves the right to request further information, negotiation, and select a Proposal(s) that, in its sole judgment, is consistent with, and responsive to the goals of its recovery plan, irrespective of whether it is the apparent lowest-priced Proposal.

**15.8. Number of Awards**

15.8.1. At the sole discretion of the UPR and based upon the breadth and experience of Proponent to this RFP, or other factors considered in its best interests, the UPR may award contracts to more than one proponent and award any vendor one or more steps or task orders per contract. In such case, proponents acknowledge and accept that UPR reserves the right, in its absolute discretion, to further negotiate the terms and conditions of their Proposals and to withdraw an award(s) if an agreement acceptable to the UPR is not reached, notwithstanding the Proponents' submission of Best and Final Offers ("BAFOs").

**15.9. Withdrawal Proposals**

15.9.1. A proponent may withdraw a Proposal at any time up to the date and time that the contract is awarded. The withdrawal must be submitted in writing to the RFP Coordinator. Absent a full withdrawal, Proponent must certify in the transmittal letter that its Proposal, including the submitted cost proposal and pricing, will be valid for one hundred twenty (120) days from UPR's receipt.

**15.10. SAM Registration**

15.10.1. SAM registration and annual renewal is a contract requirement. Proponents in the process of registering and/or renewing their SAM can participate in this RFP, however, if SAM registration and/or renewal process is not done by the time of award, your proposal may be rejected for not meeting federal procurement requirements.

**15.11. Contract Negotiations/No obligation to Contract/Rejection of Proposals/Cancellation of RFP**

- 15.11.1. The selection of any proposal for contract negotiation shall not imply acceptance by the UPR of all terms of the proposal, which may be subject to further negotiation and approvals before the UPR may be legally bound thereby.
- 15.11.2. Issuance of this RFP does not constitute a commitment by the UPR to award a contract. None of the participants in this RFP process have any acquired proprietary rights. The execution of a contract will be subject to the government contracting process, all approvals required by law, including the FOMB if applicable. The UPR will not have any binding obligation, duties, or commitments to the Selected Proponent(s) until and unless a contract has been duly executed and delivered by the UPR after approval by the President. If the UPR is unable to negotiate a mutually satisfactory agreement with the Selected Proponent(s), it may, in its sole discretion, negotiate with the next highest-ranked Proponent(s) or cancel and reissue a new RFP. The UPR reserves the right to accept or reject, in whole or in part, all Proposals submitted and/or cancel this RFP and/or reissue this RFP or another version of it, at any time prior to the execution of a contract, if it determines, in its absolute discretion, that doing so is in its best interests. If any or all proposals are rejected, the UPR reserves the right to re-solicit proposals.
- 15.11.3. There is no guarantee of a minimal amount of work or compensation for any of the proponents selected for contract negotiations.

**15.12. Ownership of Proposals**

- 15.12.1. All documents, including Proposals submitted to the UPR, become the property of the UPR. Selection or rejection of a Proposal does not affect this provision.

**15.13. Confidentiality of Proposals**

- 15.13.1. The UPR shall have no obligation to treat any information submitted in connection with a Proposal as proprietary or confidential unless (i) the Proponent so identifies such information in its Proposal as proprietary or confidential, and (ii) the UPR determines that the information is proprietary or a trade secret and legitimately requires such treatment or that it must otherwise be protected from publication according to law. The UPR obligations with respect to protection and disclosure of such information shall always be subject to applicable law. If the Proponent desires to identify any information in its Proposal as proprietary or confidential, it shall limit such designation to only those particular portions of the Proposal that actually constitute proprietary information, trade secrets, or other confidential matters or data. Identification of the entire Proposal or entire sections of the Proposal or other overly broad designations as confidential or proprietary are strongly discouraged and may result in the Proposal being deemed unresponsive. The



UPR shall have the right to use all portions of the Proposal, other than those portions identified and marked as confidential or proprietary, as it considers necessary or desirable in connection with this RFP; and, by the submission of the Proposal, the Proponent thereby grants to the UPR an unrestricted license to use such unrestricted portions of the Proposal.

**15.14. Collection and Use of Personal Information**

15.14.1. Proponents are solely responsible for familiarizing themselves and ensuring that they comply with the laws applicable to the collection and dissemination of information, including résumés and other personal information concerning employees and employees of any subcontractors. If this RFP requires Respondents to provide the UPR with personal information of employees who have been included as resources in Proposal to this RFP, Proponents will ensure that they have obtained written consent from each of those employees before forwarding such personal information to the UPR. Such written consents are to specify that the personal information may be forwarded to the UPR for the purposes of responding to this RFP and use by the UPR for the purposes set out in the RFP. The UPR may, at any time, request the original consents or copies of the original consents from Respondents, and upon such request being made, Respondents will immediately supply such originals or copies to the UPR.

**15.15. RFP and Proposal as Part of Agreement**

15.15.1. This RFP, as well as any related solicitation documents such as Addenda and Questions & Answers, and the selected Proponent's Proposal will become part of any contract between the UPR and the Respondent. If the terms of the RFP and related documents or Proposal conflict with the contract, the contract terms shall control.

**15.16. Non-Assignment**

15.16.1. The successful proponent obligation under the contract shall not be assigned or transferred to any other person, firm, or corporation without the prior written consent of the UPR.

**15.17. Causes for Disqualification**

15.17.1. Failure to submit the proposal on or before the date and time deadline indicated in this RFP.

15.17.2. Failure to submit a fully completed proposal may be deemed nonresponsive.

15.17.3. Failure to submit appendix, form, certification, or required document may be ground for disqualification.

15.17.4. Any unauthorized ex-parte communication with UPR officials, employees, consultants or advisers, or any other unauthorized person, regarding this Project may be grounds for disqualification.

15.17.5. Failure to register via email will result in automatic disqualification.

15.17.6. As indicated in **Section 7** of this RFP, before signing and submitting the proposal for this Project, interested proponents must submit Appendix E – Response Checklist. Response checklist must represent the reality of submitted documents. If a proponent fails to submit documentation as indicated in the Response Checklist, the proponent will be automatically disqualified from consideration. No exceptions will be made to this requirement.

**15.18. Performance Evaluation**

15.18.1. Please be advised that the resulting contract from this Request for Proposal (RFP) process will be subject to a series of performance evaluations throughout its term. By assessing the performance of the contractor at different stages of the contract term, the University aims to uphold the principles of fairness, transparency, and efficiency in government procurement. The evaluations will seek to review contractors' performance in the following or more areas: quality standards, delivery timelines, regulatory requirements, level of quality and value for the resources invested, and professionalism. The feedback obtained through performance evaluations can be used to identify areas for improvement and optimize the procurement process in the future, enabling the contractor and the University to learn from past experiences and enhance its practices for better outcomes.

**15.19. No Bid**

15.19.1. Proponents, that for any circumstances decide not to participate in this RFP process, must notify the UPR by email the intention to not submit.

**15.20. Sub-Contracts or Consultants of the Awarded Proponent**

15.20.1. All federal and state law and regulations requirements apply to subcontractors. The awarded proponent shall require all subcontractors to flow down the PRDOH's Conditions, as well as termination for convenience of the PRDOH, to all subcontractors as well as the requirement to flow down such terms to all lower-tiered subcontractors. These Conditions include required terms for project contracts, HUD General Provisions, Participation by Minority Group Members and Women Requirements and Procedures for Contracts with Housing Trust Fund Corporation, Standard Clauses for Contracts with the PRDOH, and required diversity forms. The UPR reserves the right to request the removal of any personnel, consultant, or employee from the project at any time or reason it deems appropriate.

## 16. REQUIRED DOCUMENTS FOR THE SIGNING OF THE CONTRACT

In addition of the above requirements, it is required that **before** the signing of the contract, the **successful proponent** provides all the documents listed below within **ten (10) calendar days** of selection. **These documents are essential requirements, the UPR reserves the right to cancel the award and/or RFP if the awarded proponent does not comply with the aforementioned term to submit documents:**

- 1. Certificate of Ethics (will be provided)
- 2. Authorization Form for Electronic Payment (will be provided)
- 3. Provide a Unique Entity Identifier (UEI) number; be registered and active in the System for Award Management SAM.GOV.
- 4. Section 3 Plan - [Click on link](#)
- 5. MWBE Utilization Plan - [Click on link](#)
- 6. Policies and Insurances – See **Appendix C**
- 7. Government ID, a color copy of the engineer's or architect's professional ID (*identificación de colegiación*) and a copy of the Department of State License to practice the profession.
- 8. Legal Entity Certification - Circular Letter No. 013-2021 of the Management and Budget Office (OGP). (Will be provided)
- 9. Eligibility Certification of the Unique Registry of Professional Service Providers (RUP) from the General Services Administration (ASG) may be accepted. If proponent doesn't have a valid RUP, **provide** the following documents:
  - Certificate of Good Standing from the State Department.
  - Department of State Certificate of Incorporation.
  - Corporate Resolution with Corporate's Seal authorizing Corporation's representative to sign the contract.
  - Debt Certification issued by Department of the Treasury, Form SC 6096, Rev. 24-Feb-2020. In case of debt, submit official Department of Treasury document which certifies that you are under a payment plan that is being fully complied with.
  - Certification of Filing of Income Tax Forms for the last five (5) years issued by the Department of Finance. Form SC 6088, Rev. 24-Feb-2020 (If there is no information because the Corporation has recently been incorporated, you must include an affidavit expressing such a situation.)
  - If the filing certification of payrolls does not register the filing corresponding to the year 2022, present a punched copy by the Treasury of the first sheet of the filed return.
  - Certificate of No Debt of the Municipal Revenue Collection Center (CRIM) for all concepts.
  - If there is debt, you must submit an official CRIM document evidencing a payment plan. If the Cert. of Filing of Movable Property Forms is negative, an Affidavit is required.
  - Certificate of No Debt of the CRIM of Real Estate of the Corporation. If there is debt, you must submit an official CRIM document evidence of a payment plan that is being fully complied with.

- Certification of Insurance for Unemployment, Temporary Disability, issued by the Department of Labor and Human Resources.
- Social Security Certification for Drivers, issued by the Department of Labor and Human Resources.
- Negative certification from ASUME that the Corporation does not owe payments to ASUME, from which it has withheld its employees, or negative certification ordering withholding.
- Merchant Registration Certification (IVU) Filing of Monthly Forms of IVU – Model SC 2942 A.
- Municipal Patent Certification.
- Affidavit – Law 2, January 4, 2018.

**END OF DOCUMENT**

**17. APPENDIX A**  
**STATEMENT OF THE BIDDER**

**UNIVERSITY OF PUERTO RICO BOARD OF AWARD STATEMENT OF THE BIDDER FOR CONTRACTORS**

**BUSINESS AND TECHNICAL ORGANIZATION.**

Bidder may use additional space to complete required information.

**I. PERMANENT PLACE OF BUSINESS**

A. Name of Bidder: \_\_\_\_\_

B. Mailing Address: \_\_\_\_\_

C. City and Zip Code: \_\_\_\_\_

D. Physical Address: \_\_\_\_\_

\_\_\_\_\_

E. City and Zip Code: \_\_\_\_\_

F. Telephone No: \_\_\_\_\_

G. E-Mail: \_\_\_\_\_

**II. PROPOSER REFERENCES - LIST BELOW SIMILAR CONTRACTS EXECUTED.**

Proposer must supply references of minimum three firms to which similar services have been provided within the past five years of a comparable sized institution or company.

No.	Client Name, Contact Person and telephone	Location	Type of Work (Description of the services provided, include any similar services to the herein required)	Contract Amount	Completion Date	Funding Resource (private, state, or federal)
1						
2						
3						
4						
5						

**III. LIST BELOW ACTIVE AND PREVIOUS CONTRACTS WITH THE UNIVERSITY**

Proponents with active and previous contracts with the University must notify and disclose such contract(s), including the campus or subsidiary corporations in which services are rendered, contract term, quantity, and registration number. The performance directly related to those services will be considered as an additional reference to those minimally required.

No.	Contract Registration Number	Campus or subsidiary corporations in which services are rendered	Contract Term	Quantity
1				
2				
3				
4				
5				
6				
7				

**IV. LIST BELOW CONTRACTS IN HAND**

No.	Name Contact Person and Telephone	Type of Work	Contract Price	% Completed
1				
2				
3				
4				
5				

**V. EXECUTIVE SUMMARY**

Provide a profile of your organization, mission, and vision statements and organizational chart.

**VI. EXPERIENCE DESCRIPTION AND STRATEGY IN PROVIDING THE SERVICES**

- Describe the organization/company's history, experience, and capabilities as it relates to the proposed scope of work. Be specific and detail no more than three projects/contracts: description of work, dates, locations, challenges, and results. Please indicate whether you have experience working with public or federal entities, and years of experience performing like services. Specify the entities and supervisor of the work. The UPR may call said entities. Provide specific examples, detailing the services or tasks previously provided by the entity as considered in this RFP. Detail your firm's understanding of the challenges and barriers that may arise in a project like this and the proposed approach to effectively overcome these barriers. Identify potential risk factors associated with this project and proposed strategies for dealing with these factors to avoid adverse effects to the project's performance.



**VII. TEAM QUALIFICATIONS** - The Proponent should provide detailed information about the experience and qualifications of the Proponent's principals, project managers, key personnel, and staff to be assigned, including degrees, certifications, licenses, and years of relevant experience in terms of Federal Grants and/or FEMA and FEMA regulatory requirements. The Proponent shall specifically identify current employees who will serve as Key Personnel. This includes the Proponent's own staff and staff from any subcontractors to be used. The Proponent should demonstrate that its staff (and/or subcontractor's staff) meet the desirable requirements listed below and have necessary experience and knowledge to successfully implement and perform the tasks and services. Any subcontractors should be named, along with a description of experience and what role they will play on the Proponent's team. The proponent should describe its demonstrated capability to provide the staffing with the qualifications required in this RFP through the term of the expected contract. Attach resumes of personnel (or/and subcontractors, if any) who will be providing the services. Consider the infrastructure trades specialists (engineering and/or architectural consultants) based on the trades applicable for the scope work for this project. Personnel/Trade specialist mechanical, electrical, architectural, structural, civil, specialist roofing consultant and/or other qualifications per trades based on SOW.

I, \_\_\_\_\_ (Representative's Name) of \_\_\_\_\_ (Name of Organization) \_\_\_\_\_ certified that the answer to this foregoing questions and all statement therein contained are true and correct.

\_\_\_\_\_  
Authorized representative signature

\_\_\_\_\_  
Date

Initials \_\_\_\_\_

## 18. APPENDIX B

### REQUIRED FEDERAL DOCUMENTS

In compliance with federal regulations, **all bidders** must submit the following documents with their tender documents:

1. Lobbying Certification (Use attached model below)
2. Non-Conflict of Interest Certification on Existing or Pending Contracts. (Use attached model below)
3. Limited Denial of Participation (LDP)/Suspension or Debarment Status Affidavit. (Use attached model below)

A bidder who omits any of the required documents may be disqualified.



### 1. LOBBYING CERTIFICATION RFP #25-007 / B00032

#### Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$11,000 and not more than \$110,000 for each such failure.

Please check appropriate box:

No nonfederal funds have been used or are planned to be used for lobbying in connection with this application/award/contract.

or

Attached is Standard Form LLL, "Disclosure of Lobbying Activities," which describes the use (past or planned) of nonfederal funds for lobbying in connection with this application/award/contract.

Executed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

by \_\_\_\_\_  
(Type or Print Name)

\_\_\_\_\_  
(Title of Executing Official)

\_\_\_\_\_  
(Signature of Executing Official)

\_\_\_\_\_  
(Name of organization/applicant)

Initials \_\_\_\_\_



**2. NON-CONFLICT OF INTEREST  
CERTIFICATION ON EXISTING OR PENDING CONTRACTS  
Request for Proposal (RFP)  
Design and Supervision Services  
Community Development Block Grant – Disaster Recovery  
Universidad de Puerto Rico  
RFP #DRO 25-007 / B00032**

I, \_\_\_\_\_, of legal age, of marital status (married/single), and a resident of \_\_\_\_\_, have been designated as the \_\_\_\_\_ authorized representative of \_\_\_\_\_ (“the Proposer”) for the **Design and Supervision Services / RFP #DRO 25-007 / B00032** procurement process (“Procurement Process”). In such regard, I hereby certify that:

1. There are no relevant facts or circumstances that could give rise to an organizational or personal conflict of interest for the Proposer or its staff with respect to the Procurement Process with the Procuring Entity. Nonetheless, the Proposer recognizes that situations may arise that may appear to be, or are, conflicts -or potential conflicts- of interest. The term “potential conflict” means reasonably foreseeable conflict of interest.
2. The Proposer will disclose to the Procuring Entity any relevant information of an apparent, potential, or actual conflict of interest that may appear to exist regardless of their opinion that such information would not impair their objectivity.
3. As per 2 C.F.R. § 200.318(c)(1), a conflict of interest would arise when “the employee, officer, or agent, any member of his or her immediate family, his or her partner, or an organization which employs or is about to employ any of the parties indicated herein, has a financial or other interest in or a tangible personal benefit from a firm considered for a contract”. Therefore, I understand that conflicts of interests may arise in, but not limited to, the following situations:
  - a) **Unequal access to information.** A potential contractor, subcontractor, employee, or consultant has access to non-public information through its performance on a government contract for disaster recovery services in Puerto Rico.
  - b) **Biased ground rules.** A potential contractor, subcontractor, employee, or consultant has worked with a government contract or program with the basic structure or ground rules of another government contract for disaster recovery services in Puerto Rico.
  - c) **Impaired objectivity.** A potential contractor, subcontractor, employee, or consultant, or member of their immediate family (spouse, parent, or child) has financial interests, or others, that would

impair, or give the appearance of impairing, impartial judgment in the evaluation of government programs in offering advice or recommendations to the government, or in providing technical assistance or other services to recipients of Federal funds as part of its contractual responsibility.

4. In the case in which the Proposer discloses to the Procuring Entity an apparent, potential, or actual conflict of interest, the Procuring Entity will take the appropriate measures to address the disclosure by taking the following actions, which include but are not limited to, eliminating, mitigating or neutralizing the apparent, potential or actual conflict, when appropriate, through such means as ensuring a balance of views, disclosure with the appropriate disclaimers, or by restricting or modifying the work to be performed to avoid or reduce the apparent, potential, or actual conflict.
5. If an apparent, potential, or actual conflict of interest is discovered by the Proposer after the Procurement Process concludes, it will make a full disclosure in writing to the contracting officer. This disclosure shall include a description of actions that the Proposer has taken or proposes to take to avoid, mitigate, or neutralize the apparent, potential, or actual conflict of interest.
6. The Proposer has no present or currently planned interests (financial, contractual, organizational, or otherwise) relating to the contract or task order that may result from this Procurement Process that would create any apparent, actual, or potential conflict of interest (including conflicts of interest for immediate family members: spouses, parents, children) that would impinge on its ability to render impartial, technically sound, and objective assistance or advice or result in it being given an unfair competitive advantage.
7. The Proposer has exercised, and will continue to exercise, due diligence in avoiding, identifying, removing or mitigating any apparent, potential or actual conflicts of interests to the Procuring Entity's satisfaction.

\_\_\_\_\_  
Signature of Proposer's Authorized Representative

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name of Proposer's Authorized Representative



**3. LIMITED DENIAL OF PARTICIPATION (LDP)/SUSPENSION OR DEBARMENT STATUS  
AFFIDAVIT  
Request for Proposal (RFP)  
Design and Supervision Services  
Community Development Block Grant – Disaster Recovery  
Universidad de Puerto Rico  
RFP #25-007 / B00032**

By signing this Certification, the Proposer certifies that the firm, business, or person submitting the Statement of Qualifications, Proposal, Bid, or Quote has not been LDP, suspended, debarred or otherwise lawfully precluded from participating in any public procurement activity with any Federal, State or local government. Signing this Certification without disclosing all pertinent information about a debarment or suspension shall result in rejection of the proposal or cancellation of a contract. The **University of Puerto Rico** also may exercise any other remedy available by law.

In \_\_\_\_\_, \_\_\_\_ this \_\_\_\_ day of \_\_\_\_\_ of 20\_\_\_\_.

\_\_\_\_\_  
(Name of Entity)

\_\_\_\_\_  
(Authorized Representative)

\_\_\_\_\_  
(Printed Name of Authorized)

\_\_\_\_\_  
(Position)

Affidavit No. \_\_\_\_\_

Subscribed and sworn to before me in the city of \_\_\_\_\_, \_\_\_\_\_, this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by \_\_\_\_\_ of legal age, \_\_\_\_\_ (civil status), \_\_\_\_\_ (occupation) and resident of \_\_\_\_\_, \_\_\_\_\_, in his/her capacity as \_\_\_\_\_ of Proposer, who I personally known or have identified by his/her \_\_\_\_\_.

\_\_\_\_\_  
Public Notary

Initials \_\_\_\_\_

## 19. APPENDIX C

# POLICIES AND INSURANCE

### Required Insurance for the project

#### RFP #25-007 / B00032

The required covers must be endorsed in favor of the University of Puerto Rico.

- (X) Workmen's Compensation (Corp. del Fondo del Seguro del Estado)
- (X) Commercial General Liability (C.G.L.), including Employers Liability & Products Liability Limits – Combined Single Limit of \$1,000,000
- (X) Auto Limits – Combined Single Limit of \$500,000
- (X) Endorsements required for CGL & Auto:
  - (X) Hold Harmless Agreement
  - (X) Additional Insured
  - (X) Thirty (30) days cancellation notice
  - (X) Waiver of Subrogation
- (X) Errors & Omissions / Professional Liability – Limits \$1,000,000.00

For any project for which funding includes CDBG-DR funds, endorsements must include the following entities:

Puerto Rico Department of Housing PO Box 21365 San Juan, PR 00928-1365	Gobierno de Puerto Rico PO Box 9020082 San Juan, PR 00902-0082	US Department of Housing and Urban Development (HUD) 451 7 <sup>th</sup> Street S.W Washington, DC 20410
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## **20. APPENDIX D**

# **COST PROPOSAL**

## COST PROPOSAL

### RE: RECONDITIONING AND REPAIRS OF FIFTEEN BUILDINGS AND/OR STRUCTURES AT EEA FINCA ALZAMORA, - UNIVERSITY OF PUERTO RICO, MAYAGÜEZ CAMPUS

**RFP #DRO 25-007/ B00032**

**\*WORKS TO BE SUBJECT OF FEDERAL FUNDS REIMBURSEMENT**

**Note:** Do not modify this Cost Proposal Template. Fill all the required spaces. If any space does not apply you should put (N/A) or other information. Do not leave any blank spaces. The design time is concurrent for both PW's

COST PROPOSAL		
<b>Group PW #09389 – Project 178572</b> <b>EEA Finca Alzamora</b> DI155534 - Edificio 020 G Invernadero de Cereales, Leguminosas y Oleaginosas DI155536 - Edificio 020 J Invernadero Propagación de Pasto y Forraje DI155539 - Edificio 020 M Hangar #2 47-3-7 478 DI155543 - Edificio 020 Q Hangar #1 47-3-7-477		
Estimated Construction Cost for the proposed development: \$_____ (required)		
Professional design and supervision fees have been computed based on the estimated construction cost mention above:		
PHASE	TIME	FEE
<b>Basic Services:</b>		
Development of Scope Improve/ Alignment Package <small>(Validates the damages, cost estimate, development of the scope alignment and/or improved project strategy for submission to FEMA/COR3.)</small>	____ days	\$
Preliminary design	____ days	\$
Construction Documents	____ days	\$
Bidding and Negotiation	N/A	\$
<b>Design Subtotal:</b>	N/A	\$
<b>Supervision:</b>	____ months x \$____ monthly	\$
<b>Basic Services TOTAL*:</b>		<b>\$</b>

Initials \_\_\_\_\_

_____ (\$ _____ )
<b>Total GROUP: #09389 (Basic services total). Write the total amount in words and numbers.</b>
<b>Additional SOW Fee % _____ (Design subtotal + Supervision) / Estimated Cost</b>

\*The Basic Services will consider all the required permitting efforts with the state and federal agencies and the design of the Roof Waterproofing System with all its components.

**Reimbursable Expenses:**

The University of Puerto Rico establishes an amount of **\$1,500.00 for Reimbursables Expenses** for fees, stamps, and filing costs related to endorsements and permits from permit regulatory offices.

The UPR reserves the right to adjust the amount for their convenience. These services will be approved after submitting the proposal and order to proceed by the University. These refunds will be settled at the actual cost incurred, no surcharges, commissions, or management fees will be paid.

**Possible Additional Services:**

It is requested to describe the possible Additional Services required for the scope of this project:

Description of the possible Additional Services
Lead and Asbestos sampling
Topographic and land survey
Geotechnical survey

The UPR establishes an amount of **\$6,000.00 for Additional Services**. The UPR reserves the right to adjust the Additional Services. Please refer to Section 5.2.8 for additional information regarding additional services for this RFP and resulting contract.

<b>COST PROPOSAL</b>		
<b>PW #04938– Project 90466</b> <b>EEA Finca Alzamora Group 01</b>		
D1155528 - Edificio 020 A Edificio de Ventas D1155529 - Edificio 020 B Invernadero Área de Ventas D1155530 - Edificio 020 C Invernadero de Investigación Largo Plazo D1155531 - Edificio 020 D Invernadero de Investigación Corto Plazo D1155532 - Edificio 020 E Edificio de Acuapónicos D1155533 - Edificio 020 F Invernadero Anturios para Cortes D1155535 - Edificio 020 H Invernaderos de Microbiología (1,2,3,4,5) D1155540 - Edificio 020 N Invernadero Frente Área de Ventas D1155541 - Edificio 020 O Laboratorio de Microbiología (BNF) D1155542 - Edificio 020 P Garaje D1155544 - Edificio 020 R Edificio Programa Doctoral D1155546 - Edificio 020 T Invernadero CIFT D1155549 - Edificio 020 V Edificio CEMA D1155550 - Edificio 020 W Invernadero 6 Ingeniería Agrícola DI263857 - Edificio 804 Laboratorio de Nutrición y Entomología DI263859 - Edificio 803 Pabellón de Animales Pequeños Rumiantes DI264275 - 020-444 Site		
Estimated Construction Cost for the proposed development: \$_____ (required) Professional design and supervision fees have been computed based on the estimated construction cost mention above:		
PHASE	TIME	FEE
<b>Basic Services:</b>		
Development of Scope Improve/ Alignment Package <small>(Validates the damages, cost estimate, development of the scope alignment and/or improved project strategy for submission to FEMA/COR3.)</small>	____ days	\$
Preliminary design	____ days	
Construction Documents	____ days	\$
Bidding and Negotiation	N/A	\$
<b>Design Subtotal:</b>	N/A	\$
<b>Supervision:</b>	_____ months x \$_____ monthly	\$
<b>Basic Services TOTAL*:</b>		\$
_____ (\$_____)		
<b>Total GROUP: #04938 (Basic services total). Write the total amount in words and numbers.</b>		

**Additional SOW Fee % \_\_\_\_\_ (Design subtotal + Supervision) / Estimated Cost**

\*The Basic Services will consider all the required permitting efforts with the state and federal agencies and the design of the Roof Waterproofing System with all its components.

**Reimbursable Expenses:**

The University of Puerto Rico establishes an amount of **\$8,000.00 for Reimbursables Expenses** for fees, stamps, and filing costs related to endorsements and permits from permit regulatory offices.

The UPR reserves the right to adjust the amount for their convenience. These services will be approved after submitting the proposal and order to proceed by the University. These refunds will be settled at the actual cost incurred, no surcharges, commissions, or management fees will be paid.

**Possible Additional Services:**

It is requested to describe the possible Additional Services required for the scope of this project

Description of the possible Additional Services
Lead and Asbestos sampling
Topographic and land survey
Geotechnical survey

The UPR establishes an amount of **\$21,000.00 for Additional Services**. The UPR reserves the right to adjust the Additional Services. Please refer to Section 5.2.8 for additional information regarding additional services for this RFP and resulting contract.

Fees for additional professional services will be calculated using the % Fee design for services (Design subtotal + Supervision) / Estimated Cost included on the Cost Proposal table above and/or hours-based rate described below.

Fees for Professional Services	
	Fee per hour

The proponent acknowledges the receipt of the following **addenda** and, unless otherwise specified, accepts that changes required in these Addenda are included in the Proposal:

**Addendum No. 1**– Description: \_\_\_\_\_

\_\_\_\_\_

Date \_\_\_\_\_

**Addendum No. 2**– Description: \_\_\_\_\_

\_\_\_\_\_

Date \_\_\_\_\_

**Addendum No. 3**– Description: \_\_\_\_\_

\_\_\_\_\_

Date \_\_\_\_\_

No Addendum was received in connection with this RFP. If no Addenda is received, check the box.

The bidder understands that the Owner reserves the right to reject any or all bids and to waive any informality in the bidding.

**Dated:** \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

<b>Firm Name:</b>	
<b>Signed by:</b>	_____ (Sign it in ink)
<b>Name:</b>	
<b>Title:</b>	
<b>Employers Social Security:</b>	
<b>Mail Address:</b>	
<b>Physical Address:</b>	

Initials \_\_\_\_\_

<b>Phone Number:</b>	
<b>Fax Number:</b>	
<b>E-mail:</b>	

**Seal (if Bidder is a Corporation)**

## 21. **APPENDIX E** **RESPONSE CHECKLIST**



## Response Checklist

In response to this RFP, the proponent certifies that the following requirements are met. Interested proponents are required to submit the completed Appendix E – Response Checklist along with the proposal for this RFP. The Response Checklist must accurately represent the content of the submitted documents. Failure to submit the documentation as indicated in the Response Checklist will result in the automatic disqualification of the proponent from consideration. No exceptions will be made to this requirement.

- Registered for participation for this RFP at [upprecovery.rfp@upr.edu](mailto:upprecovery.rfp@upr.edu). **Failure to register via email will result in automatic disqualification.**
- Letter of Intent signed by an authorized representative of the organization, that states the acceptance of the Terms and Conditions of this RFP, providing the exact business name to conduct business with the UPR, address, telephone, e-mail address, and SAM Entity Identifier Number. In addition, the letter of intent must identify the name and number of the RFP and date of submittal.
- Active** Registration on SAM.gov.
- Completed and signed Appendix A - Statement of the Bidder.
- Completed Part 1 through 6 in the Statement of the Bidder, Appendix A.
- Attached resumes of all firm personnel teamwork (or/and sub-contractors, specialized trades consultants, if any) who will be providing the services.
- Completed additional SOW Fee Percentage (%) in Appendix D – Cost Proposal.
- If any space does not apply in Appendix D – Cost Proposal, (N/A) or other information shall be placed instead.
- Acknowledgement of the Addendums in Appendix D – Cost Proposal, if applicable.
- Signed** and **sealed** Appendix D – Cost Proposal following the instruction in Section 7 - REQUIRED DOCUMENTS FOR THE SUBMISSION OF THE PROPOSAL.
- Federal Documents in Appendix B (Lobbying Certification, Non-Conflict of Interest Certification and Limited Denial of Participation Affidavit).
- Color copy of the engineer's or architect's professional ID (Identificación de Colegiación) and a copy of the Department of State License.
- Copy of initialized RFP and its Appendices.
- Appendix E – Response Checklist.

## **22. APPENDIX F**

# **SCOPE OF WORK**

## I. GENERAL DATA OF THE PROJECT:

Campus: UPR Mayagüez Agricultural Research Station Finca Alzamora Project  
Worksheets: 09389-04938: Damage Inventories (DI):

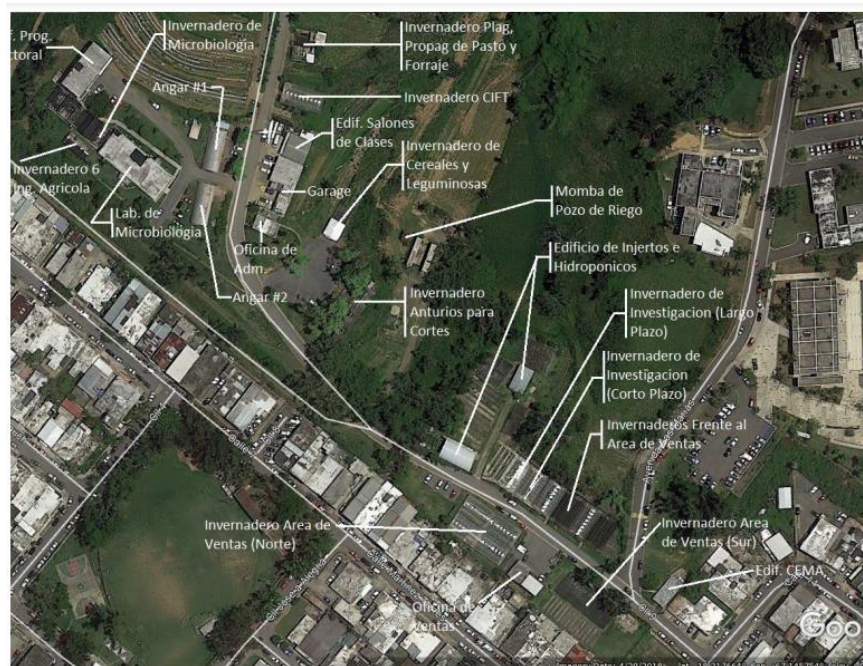
### EEA Finca Alzamora (Agricultural Research Station)

## LOCATION PLAN, PROJECT DESCRIPTIONS AND SCOPES:

### Location Plan and architectural context

The 21 buildings and structures included in these PW's are located at the Agricultural Research Station Finca Alzamora at Calle Post, PR – 108, Mayagüez, Puerto Rico, 00682. The Agricultural Research Station is dedicated to teaching and formal research activities performed through the College of Agricultural Sciences of the University of Puerto Rico at Mayagüez. The facilities are mainly used as research and teaching laboratories for agriculture and dairy herds. Besides, there are facilities for support activities such as warehousing and maintenance.

### PW 09389/4938 Location map EEA Finca Alzamora





In general terms, the scope of the project contemplates repair tasks to restore facilities to pre-disaster condition. The rehabilitation tasks consider surfaces treatment, roof waterproofing and replacement, openings, replacement of ceiling, , and electric repairs, among other repairs and replacements.

## I. Structures Description

### EEA Finca Alzamora (Agricultural Research Station)

#### A. PW #09389 – Project 178572

1. 155534 - Edificio 020 G Invernadero de Cereales, Leguminosas y Oleaginosas
2. 155536 - Edificio 020 J Invernadero Propagación de Pasto y Forraje
3. 155539 - Edificio 020 M Hangar #2 47-3-7 478
4. 155543 - Edificio 020 Q Hangar #1 47-3-7-477

#### 1. DI 155534 - Edificio 020 G Invernadero de Cereales, Leguminosas y Oleaginosas

**Facility Description:** The building is a block (CMU), reinforced concrete building with a plaster finish. The building is 3 sided with one side open. The open or south side has metal gates for security. The building measurements were 20x26 with the 20 length being the missing wall. The roof system is metal roofing on a metal rafter system. The roof has a 3/12 slope making the roof area 546 SF. The interior includes reinforced concrete bearing walls with a reinforced concrete floor slab on grade. Interior finishes generally consist of no ceiling, painted plaster on concrete and unfinished concrete floor. There is an 8FT high chain-link surrounding a garden that had a total length of 170 LF.

**Approx. Year Built:** 1972

**Location Description:** Calle Post, PR – 108, Mayagüez, Puerto Rico, 00682.

**GPS Latitude/Longitude:** 18.21702, -67.14754

**2. DI 155536 - Edificio 020 J Invernadero Propagación de Pasto y Forraje**

**Facility Description:** The area includes 4 connected buildings and accessory structures that includes north greenhouse, south greenhouse, a pesticide shed and a gardening shed built in 1963 (56 years old). The 500 SF north greenhouse is an 8-foot-tall steel tube frame that supports a sunscreen mesh over a concrete slab. The 600 SF south greenhouse is a steel tube frame roofed by corrugated plexiglas panels with side covered 8 FT tall chain link fence and a concrete floor. The 72 SF pesticide shed is a single-story building with a ribbed steel roof with a 1.5 FT overhang, concrete walled with a concrete slab floor. The 72 SF gardening shed is a single-story building with a ribbed sheet metal roof with 1.5 FT overhangs, concrete walls and a concrete slab floor. This facility was in operation at the time of the event.

**Approx. Year Built:** 1963

**Location Description:** Calle Post, PR-108, Mayagüez, Puerto Rico, 00682.

**GPS Latitude/Longitude:** 18.21783, -67.14766

**3. DI 155539 - Edificio 020 M Hangar #2 47-3-7 478**

**Facility Description:** The storage building is a 1,500 SF Quonset hut with semi-circular corrugated sheet metal roof panels set on a 3 FT high concrete bearing knee wall set on a concrete floor slab on grade. This facility was in operation at the time of the event.

**Approx. Year Built:** 1972

**Location Description:** Calle Post, PR-108, Mayagüez, Puerto Rico, 00682.

**GPS Latitude/Longitude:** 18.21726, -67.14805

**4. DI 155543 - Edificio 020 Q Hangar #1 47-3-7-477**

**Facility Description:** The storage building is a 1,500 SF Quonset hut with semi-circular corrugated sheet metal roof panels set on a 3 FT high concrete bearing knee wall set on a concrete floor slab on grade.

**Approx. Year Built:** 1973

**Location Description:** Calle Post, PR-108, Mayagüez, Puerto Rico, 00682.

**GPS Latitude/Longitude:** 18.21748, -67.14799

**B. PW #04938 – Project 90466**

1. 155528 - Edificio 020 A Edificio de Ventas
2. 155529 - Edificio 020 B Invernadero Área de Ventas
3. 155530 - Edificio 020 C Invernadero de Investigación Largo Plazo
4. 155531 - Edificio 020 D Invernadero de Investigación Corto Plazo
5. 155532 - Edificio 020 E Edificio de Acuaponicos
6. 155533 - Edificio 020 F Invernadero Anturios para Cortes
7. 155535 - Edificio 020 H Invernaderos de Microbiología (1,2,3,4,5)
8. 155540 - Edificio 020 N Invernadero Frente Área de Ventas
9. 155541 - Edificio 020 O Laboratorio de Microbiología (BNF)
10. 155542 - Edificio 020 P Garaje
11. 155544 - Edificio 020 R Edificio Programa Doctoral
12. 155546 - Edificio 020 T Invernadero CIFT

13. 155549 - Edificio 020 V Edificio CEMA
14. 155550 - Edificio 020 W Invernadero 6 Ingeniería Agrícola
15. 263857 - Edificio 804 Laboratorio de Nutrición y Entomología
16. 263859 - Edificio 803 Pabellón de Animales Pequeños Rumiantes
17. 264275 - 020-444 Site

**1. DI 155528 - Edificio 020 A Edificio de Ventas**

**Facility Description:** The building, constructed in 1964 (55 years old) is a single floor, reinforced concrete masonry frame building with a reinforced concrete floor slab on grade bearing and spread footings. The roof is also a reinforced concrete slab. The exterior walls are CMU infill with a plaster finish and the roof has an elastomeric surface coating. Additionally, the roof area of the main structure includes a partially constructed second floor. The building has an open shed roofed structure adjacent to one wall. The shed is constructed of steel frame with ribbed metal roof panels. The interior construction includes plaster finished CMU walls. Interior finishes generally consist of suspended acoustic ceiling, painted plaster and terrazzo floor tile. This facility was in operation at the time of the event.

**Approx. Year Built:** 1964

**Location Description:** PR-108, Mayagüez, Puerto Rico, 00682.

**GPS Latitude/Longitude:** 18.21560, -67.14677

**2. DI 155529 - Edificio 020 B Invernadero Área de Ventas**

**Facility Description:** Building 020B North, constructed in 2004 (15 years old), consists of two open-air greenhouses. Each roof is an arch frame of metal tubing spanning thirty feet. The frame is covered with clear polyethylene and is supported by steel tubing columns. Building 020 South is an open-air greenhouse consisting of a metal tube, flat roofed frame covered by black plastic mesh. Only one half of the South area is covered. This facility was in operation at the time of the event.

**Approx. Year Built:** 2004

**Location Description:** PR-108, Mayagüez, Puerto Rico, 00682.

**GPS Latitude/Longitude:** 18.21570, -67.14685

**3. DI 155530 - Edificio 020 C Invernadero de Investigación Largo Plazo**

**Facility Description:** The greenhouse facility was built in 1995 (24 years old). The building is a 1,500 SF greenhouse designed with a galvanized steel tubing barrel-vault curved roof and polyethylene plastic sheeting to include 2,350 SF of material. The interior includes polyethylene plastic sheeting walls with a reinforced concrete floor slab approximately three feet above grade. The greenhouse is a stand-alone structure with no gutter connection. This facility was in operation at the time of the event.

**Approx. Year Built:** 1995

**Location Description:** Calle Post, PR-108, Mayagüez, Puerto Rico, 00682.

**GPS Latitude/Longitude:** 18.21594, -67.14686

**4. DI 155531 - Edificio 020 D Invernadero de Investigación Corto Plazo**

**Facility Description:** The greenhouse facility was built in 1995 (24 years old). The building is a 1,500 SF greenhouse designed with a galvanized steel tubing barrel-vault curved roof and polyethylene plastic sheeting to include 2,350 SF of material. The interior includes polyethylene plastic sheeting walls with a reinforced concrete floor slab approximately three feet above grade. The greenhouse is a stand-alone structure with no gutter connection. This facility was in operation at the time of the event.

Approx. Year Built: 1995

**Location Description:** Calle Post, PR-108, Mayagüez, Puerto Rico, 00682.

**GPS Latitude/Longitude:** 18.21589, -67.14678

**5. DI 155532 - Edificio 020 E Edificio de Acuaponicos**

**Facility Description:** The greenhouse facility was built in 2016 (3 years old). The building is a galvanized steel tubes structure (30 FT x 50 FT) with a white polyethylene covered fifteen (15) FT radius curved roof and a four (4) FT high perimeter low wall with four (4) FT high chain link fence on top, all over a reinforced concrete slab on ground. The facility was in operation at the time of the event.

Approx. Year Built: 2016

**Location Description:** Calle Post, PR-108, Mayagüez, Puerto Rico, 00682.

**GPS Latitude/Longitude:** 18.21606, -67.14699

**6. DI 155533 - Edificio 020 F Invernadero Anturios para Cortes**

**Facility Description:** The greenhouse facility was built in 1971 (48 years old). It is a 4,410 SF building, 10 FT high, steel frame composed of channel, angle, and pipe to support a corrugated sheet metal roof with a 1 FT overhang. The sides include a 4 FT high galvanized chain link fence on a 6 FT concrete masonry unit wall and a concrete slab floor. Adjacent to this structure is a 144 SF, single story, 8 foot tall, shed with a corrugated sheet metal roof with 1.5 FT overhang and wood framed and paneled sides with a concrete slab floor. This facility was in operation at the time of the event.

Approx. Year Built: 1971

**Location Description:** Calle Post, PR-108, Mayagüez, Puerto Rico, 00682

**GPS Latitude/Longitude:** 18.21674, -67.14748

**7. DI 155535 - Edificio 020 H Invernaderos de Microbiología (1,2,3,4,5)**

**Facility Description:** The facility consists of five (5) greenhouses constructed in 1975 (44 years old). The greenhouses are constructed with corrugated polycarbonate roof panels over a galvanized aluminum frame with a two-foot overhang to include 768 SF of the roof. The interior includes 2 FT x 2 FT awning-style windows and cement panel sidewalls with a reinforced concrete floor slab on grade. There is a 2 FT high stem wall tied into slab. Each structure is 600 SF. This facility was in operation at the time of the event.

Approx. Year Built: 1975

**Location Description:** Calle Post, PR-108, Mayagüez, Puerto Rico, 00682.

**GPS Latitude/Longitude:** 18.21751, -67.14856

**8. DI 155540 - Edificio 020 N Invernadero Frente Área de Ventas**

**Facility Description:** The Edificio Invernadero Frente Área de Ventas, built in 1995, is composed of four (4) galvanized steel tubes greenhouse (30 FT x 50 FT) covered with either a white polyethylene covering or a shade cloth covering, fifteen (15) FT barrel vault roof, all sides open, resting on a reinforced concrete slab on grade. This facility was in operation at the time of the event.

**Approx. Year Built:** 1995

**Location Description:** Calle Post, PR-108, Mayagüez, Puerto Rico, 00682.

**GPS Latitude/Longitude:** 18.21576, -67.14660

**9. DI 155541 - Edificio 020 O Laboratorio de Microbiología (BNF)**

**Facility Description:** This facility, built in 1975 (44 years old), is a microbiology laboratory. The building built is a site cast, reinforced concrete building with an open web truss metal deck roof with a bituminous built-up roof membrane, with a 1 FT roof overhang, and 1.5 FT concrete fascia panels with an additional 10 FT x 12 FT canopy over the main entrance for 5,377 SF of the roof. The interior includes reinforced concrete bearing walls with a reinforced concrete floor slab on grade. Interior finishes generally consist of suspended acoustic ceiling, painted concrete or drywall and vinyl floor tile. This facility was in operation at the time of the event.

**Approx. Year Built:** 1975

**Location Description:** PR-108, Mayagüez, Puerto Rico, 00682.

**GPS Latitude/Longitude:** 18.21724, -67.14823

**10. DI 155542 - Edificio 020 P Garaje**

**Facility Description:** The building is a single story shop and garage building built in 1951 (68 years old). It is framed with concrete columns and open web steel joists with 2 IN x 10 IN wood purlins on top of the joists. The roof is clad with corrugated decking and has two foot and three-foot overhangs. The exterior walls are composed of CMU or reinforced concrete. The floor is composed of a reinforced concrete slab on grade.

Interior finishes generally consist of suspended acoustic ceiling tile, 2x4 stud wall with plywood sheathing, plaster walls, expanded metal screening partitions, and floors with bare concrete surfacing or vinyl floor tile. This facility was in operation at the time of the event.

**Approx. Year Built:** 1951

**Location Description:** PR-108, Mayagüez, Puerto Rico, 00682.

**GPS Latitude/Longitude:** 18.21733, -67.14778

**11. DI 155544 - Edificio 020 R Edificio Programa Doctoral**

**Facility Description:** This facility, built in 1975 (44 years old), provides classroom and laboratory areas. The building is a site cast, reinforced concrete structure with a bituminous built-up roof system over a 3 IN lightweight concrete over metal deck roof with 1.5 foot concrete fascia panels. The interior included reinforced concrete bearing walls with reinforced concrete floor slab on grade. Interior finishes generally consist of suspended



acoustic ceiling, painted concrete or drywall and vinyl floor tile. This facility was in operation at the time of the event.

**Approx. Year Built:** 1975

**Location Description:** Calle Post, PR-108, Mayagüez, Puerto Rico, 00682.

**GPS Latitude/Longitude:** 18.21772, -67.14850

**12. DI 155546 - Edificio 020 T Invernadero CIFT**

**Facility Description:** The greenhouse facility was built in 2004 (15 years old). The building is a 1,800 SF greenhouse designed with a galvanized steel tubing barrel-vault curved roof and polyethylene plastic roof membrane. A small storage building (10 FT x 14 FT x 8 FT high) is located within the greenhouse footprint. It is a site cast, reinforced concrete building with a corrugated metal roof. The foundation is reinforced concrete grade beam and retaining walls as the greenhouse sits on sloped terrain. The storage shed interior finishes generally consist of painted concrete and an exposed concrete floor. This facility was in operation at the time of the event.

**Approx. Year Built:** 2004

**Location Description:** Calle Post, PR-108, Mayagüez, Puerto Rico, 00682

**GPS Latitude/Longitude:** 18.21761, -67.14773

**13. DI 155549 - Edificio 020 V Edificio CEMA**

**Facility Description:** The building, built in 1964 (55 years old) is a site cast, reinforced concrete building with a reinforced concrete roof. The interior includes reinforced concrete bearing walls with a reinforced concrete floor slab on grade. Interior finishes generally consist of suspended acoustic ceiling, painted concrete or drywall and vinyl floor tile. This facility was in operation at the time of the event.

**Approx. Year Built:** 1964

**Location Description:** Calle Post, PR-108, Mayagüez, Puerto Rico, 00682.

**GPS Latitude/Longitude:** 18.21546, -67.14620

**14. DI 155550 - Edificio 020 W Invernadero 6 Ingeniería Agrícola**

**Facility Description:** The building is a greenhouse roofed with corrugated polycarbonate panels and a sheet metal ridge cap. The primary structure is steel frame construction bearing to plinths supported on spread footings at each column. Secondary framing in walls consists of small, square tube shapes which are a mix of primed and galvanized steel. Roof purlins are a mix of the original light gauge, primed steel tube shapes, light gauge galvanized C shapes and extruded aluminum shapes. Walls are covered with galvanized, expanded metal lath. Walls are supported on a low wall of plaster on CMU. The wall rests on a concrete grade beam. A nonstructural 4" wire mesh reinforced concrete slab on grade finishes the interior. This building was built in 1975 (44 years old). This facility was in operation at the time of the event.

**Approx. Year Built:** 1975

**Location Description:** Calle Post, PR-108, Mayagüez, Puerto Rico, 00682.

**GPS Latitude/Longitude:** 18.21749, -67.14866

**15. DI 263857 - Edificio 804 Laboratorio de Nutrición y Entomología**

**Facility Description:** This facility is an instructional laboratory built in 1983. The building is a reinforced concrete building with corrugated metal roofing over wood framing supporting corrugated sheet metal and 1,800 SF with a built up bitumen tar with aggregate surface roof system. The interior includes reinforced concrete bearing walls with a reinforced concrete floor slab on grade. Interior finishes generally consist of suspended acoustic ceilings, painted concrete or drywall and vinyl, ceramic and terrazzo floor and wall tile. This facility was in operation at the time of the event.

**Approx. Year Built:** 1983

**Location Description:** Calle Post, PR-108, Mayagüez, Puerto Rico, 00682

**GPS Latitude/Longitude:** 18.21839, -67.14780

**16. DI 263859 - Edificio 803 Pabellón de Animales Pequeños Rumiantes**

**Facility Description:** This structure, built in 1989, serves as a barn. The building is a galvanized steel structure with concrete block and metal panels walls. There is metal support with a metal panel roof. There are 8 polycarbonate skylights and 4 wind turbines extractors. Interior includes wood stud walls and paneling with a reinforced concrete floor slab on grade. Interior finishes generally consist of open ceilings, painted concrete or drywall and cement floors. There are 2 corral areas, 22 FT x 50 FT and 22 FT x 60 FT that are under the metal roof. This facility was in operation at the time of the event.

**Approx. Year Built:** 1989

**Location Description:** Calle Post, PR-108, Mayagüez, Puerto Rico, 00682

**GPS Latitude/Longitude:** 18.22010, -67.14694

**17. DI 264275 - 020-444 Site**

**Facility Description:** The EEA Finca Alzamora, UPR Mayagüez campus, has about 70 acres with land topography of medium elevations with slightly to moderate slopes. This property is dedicated to research of planting, crops and apiculture.

**Approx. Year Built:** 1972

**Location Description:** Calle Post, PR-108, Mayagüez, Puerto Rico, 00682.

**GPS Latitude/Longitude:** 18.21768, -67.14789

**PW 09389-04938: Detailed FEMA scope of work**

**EEA Finca Alzamora (Agricultural Research Station)**

**PW09389:**

1. DI 155534 - Edificio 020 G Invernadero de Cereales, Leguminosas y Oleaginosas
  - a. Original Scope

<b>PA 428</b>		
<b>Building Damage:</b>		
Exterior Walls:		

A. Prepare and paint with in-kind 720 SF of Wall, concrete surfacing, painted. Interior Walls:	720	SF
Interior walls:		
B. Prepare and paint with in-kind 720 SF of Wall, Painted Surfaces. Roofing System:	720	SF
C. Remove and replace 546 SF of Ribbed Metal.	546	SF
<b>HMP 406</b>		
1.1. Exterior Metal Panel Fastening - Metal Roof, Siding, and Flashing	0	SF
1.1.1. Provide and install exterior metal panel fastening - Metal Roof, Siding, and Flashing. Improve exterior metal panel fastening pattern in order to better secure the exterior panels and mitigate damages to the building envelope itself and subsequent water infiltration damage.	0	LF

2. DI 155536 - Edificio 020 J Invernadero Propagación de Pasto y Forraje

a. Original Scope

<b>PA 428</b>		
<b>Building Damage:</b>		
General:		
A. Prepare and paint with in-kind 544 SF of Building interior painted surfaces. North Greenhouse/ Exterior:	544	SF
North Greenhouse/ Exterior Roofing:		
B. Repair with in-kind 5 CY of Concrete, reinforced, structural, fractured slab corners.	5	CY
C. Remove and replace with in-kind 35 SF of Corrugated Metal Roofing.	35	SF
D. Repair with in-kind 65 SF of Corrugate Plexiglass Roofing.	65	SF
North Greenhouse/ First Floor:		
E. Remove and replace with in-kind 1 each of Light, 2x4 fluorescent, suspended.	1	EA
F. Remove and replace with in-kind 1 each of Door 1/8 IN steel sheet.	1	EA
G. Remove and replace with in-kind 1 each of Door Frame 1x2 IN tube steel.	1	EA
H. Remove and replace with in-kind 1 each of Electrical Circuit Breaker Box.	1	EA
I. Repair with in-kind 2 IN Diameter, roof Sealant for steel pipe.	1	EA
<b>BBA Details: Education Sector Industry Standard:</b>		
Lighting Controls - 2018 IECC / Section C405.2 Lighting Controls (Mandatory) C405.2.1 Occupant Sensor Controls.		

<p>a. Disaster Damage Work Required: Remove and replace damaged number as noted above per classroom lighting fixtures.</p> <p>b. BBA Pre-disaster condition: The lighting system in this classroom were operable prior to the event. Lighting fixtures are powered through an electrical circuit with a commercial type 1 pole lever switch.</p> <p>c. BBA Work required: Install 1 ceiling mounted occupancy sensors one (1) per 600 SF of room area – damaged lighting is functional dependent on sensor to meet code requirement. Depending on the room sizes, several occupancy sensors will be necessary to operate lighting fixture system. The sensor shall be positioned in the ceiling, room area centered to allow for best functionality. New conduit and corresponding wiring will be necessary for sensor installation. Consider conduit installation to nearest lighting system junction box and wiring of sensor to existing circuit. Considering a minimum of 20ft of EMT conduit and 60ft of existing gauge electrical copper wire (minimum allowable: THWN #12 stranded copper wire). If the corresponding circuit wiring is not accessible, consider conduit and corresponding wiring to the nearest lighting panel board.</p>		
<b>HMP 406</b>		
1.1. Concrete Fiber Additive		
1.1.1. Add a fiber additive to the concrete mix such as Sika Fiber or similar to increase the resistance to tension and prevent future cracking. Add concrete fiber additive to the 5 CY concrete mix.	0	LF
1.2. Exterior Metal Panel Fastening - Metal Roof, Siding, and Flashing		
1.2.1. Provide and install exterior metal panel fastening - Metal Roof, Siding, and Flashing. Improve exterior metal panel fastening pattern in order to better secure the exterior panels and mitigate damages to the building envelope itself and subsequent water infiltration damage.	0	LF

3. DI 155539 - Edificio 020 M Hangar #2 47-3-7 478

a. Original Scope

<b>PA 428</b>		
Building Damage:		
General/ Doors:		
General/ Exterior Walls:		
A. Prepare and paint with in-kind 510 SF of Painted Surfaces.	510	SF
General/ Interior Walls:		
A. Prepare and paint with in-kind 510 SF of Painted Surfaces.	510	SF
General/ Windows:		
A. Remove and replace with in-kind 2 each of Window Security Grill, #5 rebar, 4 IN Horiz., Spacing, Painted, 3 FT wide x 3 FT high.	2	EA
B. Remove and replace with in-kind 3 each of Window Security Grill, #5 rebar, 4 IN Horiz., Spacing, Painted, 4 FT wide x 3 FT high.	3	EA

Light Fixtures:		
A. Remove and replace with in-kind 6 each of Fluorescent, 2x4, 4 bulb, suspended.	6	EA
Roofing System:		
A. Remove and replace with in-kind 2,040 SF of Corrugated Sheet Metal, 60 FT long x 34 FT wide.	2040	SF
<b>BBA Details: Education Sector Industry Standard:</b>		
Lighting Controls - 2018 IECC / Section C405.2 Lighting Controls (Mandatory) C405.2.1 Occupant Sensor Controls. a. Disaster Damage Work Required: Remove and replace damaged number as noted above per classroom lighting fixtures. b. BBA Pre-disaster condition: The lighting system in this classroom were operable prior to the event. Lighting fixtures are powered through an electrical circuit with a commercial type 1 pole lever switch. c. BBA Work required: Install (3) ceiling mounted occupancy sensors one (1) per 600 SF of room area – damaged lighting is functional dependent on sensor to meet code requirement. Depending on the room sizes, several occupancy sensors will be necessary to operate lighting fixture system. The sensor shall be positioned in the ceiling, room area centered to allow for best functionality. New conduit and corresponding wiring will be necessary for sensor installation. Consider conduit installation to nearest lighting system junction box and wiring of sensor to existing circuit. Considering a minimum of 20ft of EMT conduit and 60ft of existing gauge electrical copper wire (minimum allowable: THWN #12 stranded copper wire). If the corresponding circuit wiring is not accessible, consider conduit and corresponding wiring to the nearest lighting panel board.		
<b>Hazard Mitigation</b>		
NO HMP		

4. DI 155543 - Edificio 020 Q Hangar #1 47-3-7-477

a. Original Scope

<b>PA 428</b>		
Building Damage:		
{00-001} General:		
A. Prepare and paint with in-kind 3,166 SF of building exterior painted surfaces.	3166	SF
B. Remove and replace with in-kind 3 each of window, awning, glass 3x4.	3	EA
{00-002} General:		
C. Prepare and paint with in-kind 3,166 SF of building interior painted surfaces.	3166	SF
{01-002} First Floor General:		

D. Remove and replace with in-kind 6 each of light, 2x4 fluorescent, 4 tube, suspended.	Work Completed,	Apply BBA Scope
<b>BBA Details: Education Sector Industry Standard:</b>		
<p>Lighting Controls - 2018 IECC / Section C405.2 Lighting Controls (Mandatory) C405.2.1                  Occupant Sensor Controls.</p> <p>a. Disaster Damage Work Required: Remove and replace damaged number as noted above per classroom lighting fixtures.</p> <p>b. BBA Pre-disaster condition: The lighting system in this classroom were operable prior to the event. Lighting fixtures are powered through an electrical circuit with a commercial type 1 pole lever switch.</p> <p>c. BBA Work required: Install (3) ceiling mounted occupancy sensors one (1) per 600 SF of room area – damaged lighting is functional dependent on sensor to meet code requirement. Depending on the room sizes, several occupancy sensors will be necessary to operate lighting fixture system. The sensor shall be positioned in the ceiling, room area centered to allow for best functionality. New conduit and corresponding wiring will be necessary for sensor installation. Consider conduit installation to nearest lighting system junction box and wiring of sensor to existing circuit. Considering a minimum of 20ft of EMT conduit and 60ft of existing gauge electrical copper wire (minimum allowable: THWN #12 stranded copper wire). If the corresponding circuit wiring is not accessible, consider conduit and corresponding wiring to the nearest lighting panel board.</p>		
<b>Hazard Mitigation</b>		
The mitigation to be performed includes...		
1. Fasteners for metal roof: 1,368 SF		
- To prevent future similar damages to the metal paneled roof, the Applicant intends to use additional fasteners to improve upon roofing fastener pattern.		
2. Additional gutter hangers: 20 L.F.		
- To prevent gutters from being blown off by high winds, additional clips will be added to better anchor them to the building. Standard spacing for gutter hangers is generally 6 L.F. This mitigation method provides 1 hanger every 3 L.F.		

**PW04938:**

1. DI 155528 - Edificio 020 A Edificio de Ventas

a. Original Scope

<b>PA 428</b>		
<b>Building Damage:</b>		
{00-001} Main Building and Garage:	Work completed, inspection of work to request a new scope version and apply HMP.	
A. Prepare and paint in-kind 196 SF of building exterior surfaces		
{01-002} General Interior):		
A. Remove and replace in-kind 1,100 SF of ceiling, 2 FT x 2 FT acoustic tile, (90% of total)		
{01-004} First Floor Room 100 (12 FTx18 FT) + (12 FTx13 FT):		
A. Remove and replace in-kind 1 each of light, 1 FT x 4 FT fluorescent, 4 tube		
<b>HMP 406</b>		
1. Apply 196SF of waterproof coating for walls, 2 coats, to prevent building surface from wind driven rain related damages	196	SF

2. DI 155529 - Edificio 020 B Invernadero Área de Ventas

a. Original Scope

<b>PA 428</b>		
<b>Building Damage:</b>		
{01-001} South Area (74 FT x 98 FT) :	Work Completed, possible new scope version and or alignment.	
A. Remove and replace 5,760 SF of Saran black nylon mesh insulation		
{01-001} South Area (74 FT x 98 FT) Building Exterior:		
A. Remove and replace galvanized steel tube, 1-1/2 IN DIA, 751 LF long		
{01-001} South Area (74 FT x 98 FT) Building Interior:		
A. Remove and replace irrigation system, PVC, 3/4 IN DIA, 3.19 LF long		
{02-002} North Area (60 FT x 90 FT) Greenhouse:		
A. Remove and replace 5,760 SF of polyethylene, 6 mil		
B. Remove and replace 68 each of column, 2-1/2 IN DIA x 8 FT long		
C. Remove and replace beam, 2 IN x 6 IN treated wood, 360 LF long		
D. Remove and replace 34 each of galvanized steel tubing, 2 IN DIA x 32 FT		
E. Remove and replace galvanized steel tubing, 1 IN DIA, 540 LF long		
<b>HMP 406</b>		
NO HMP		

b. Improve Project/Scope Alignment

- Possible demolition to be relocated.

3. DI 155530 - Edificio 020 C Invernadero de Investigación Largo Plazo

a. Original Scope

<b>PA 428</b>		
{00-001} Roofing System:		
A. Remove and replace 2,350 SF of polyethylene, 6 mil	Work Completed, possible new scope version and or alignment.	
<b>HMP 406</b>		
NO HMP		

b. Improve Project/Scope Alignment

- Possible relocation and consolidation of Invernaderos.

4. DI 155531 - Edificio 020 D Invernadero de Investigación Corto Plazo

a. Original Scope

<b>PA 428</b>		
{00-001} Roofing System:		
A. Remove and replace 2,350 SF of polyethylene, 6 mil	Work Completed, possible new scope version and or alignment.	
<b>HMP 406</b>		
NO HMP		

b. Improve Project/Scope Alignment

- Possible relocation and consolidation of Invernaderos.

5. DI 155532 - Edificio 020 E Edificio de Acuaponicos

a. Original Scope

<b>PA 428</b>		
<b>Building Damage:</b>		
{00-001} General:	Work completed, Inspection of work to request a new scope version and/or alignment.	
A. Prepare and paint 960 SF of building exterior surfaces		
{00-002} Roofing System:		
A. Remove and replace 1,500 SF of polyethylene, 6 mil		
B. Remove and replace 22 each of galvanized steel tubing, 2-1/2 IN DIA x 5 FT high		



C. Remove and replace 4 each of galvanized steel tubing, 1 IN DIA, 50 FT long		
D. Remove and replace 11 each of galvanized steel tubing, 1-1/2 IN x 40 FT long		
{00-003} General Interior Painting:		
A. Prepare and paint 64 SF of building interior surfaces		
<b>HMP 406</b>		
1. Apply 960 SF of waterproof coating for walls, 2 coats, to prevent building surface from wind driven rain related damages.		Work Completed

6. DI 155533 - Edificio 020 F Invernadero Anturios para Cortes

a. Original Scope

<b>PA 428</b>		
<b>Building Damage:</b>		
{00-00-001} Annex Wood Shed:		
A. Remove and replace in-kind 1 each of door and frame, wood, SC, 3 FT x 6 FT-8 IN	1	EA
{00-00-003} Greenhouse (40 FT x 100 FT):		
A. Remove and replace in-kind 4,500 SF of corrugated polycarbonate panel	4500	SF
B. Remove and replace in-kind galvanized steel tube, purlin, 2 IN x 2 IN (50% of total purlins), 800 LF long	800	LF
C. Remove and replace in-kind galvanized steel truss, pipe, 3 IN DIA (10 trusses @ 20 FT each top & bottom chord), 400 LF long	400	LF
D. Remove and replace in-kind retaining wall, reinforced concrete posts 6 IN x 12 IN @ 10 FT CC and tie beam 8 IN x 12 IN, with concrete block in between posts and 8 CY of continuous footing underground, 100 LF long x 6 IN wide x 6 FT high	0	EA
<b>HMP 406</b>		
1. Install additional 2,666 fasteners (27C) to 40FT W x 100FT L of Polycarbonate Corrugated Roof Panels at 6" spacing, to provide greater wind uplift resistance.	2666	EA
2. Apply 1333 LF of Joint sealants, caulking acrylic latex.	1333	LF

7. DI 155535 - Edificio 020 H Invernaderos de Microbiología (1,2,3,4,5)

a. Original Scope

<b>PA 428</b>		
<b>Building Damage:</b>		
{01-001} Building 1:		
A. Prepare and paint in-kind 650 SF of exterior and interior wall	650	SF

B. Remove and replace in-kind 3 each of light, 1 FT x 4 FT fluorescent, 2 tube	3	EA
{01-001} Building 1		
A. Remove and replace in-kind 36 SF of wall, 1/4 IN glass panels, 2 FT wide x 6 FT high	36	SF
B. Remove and replace in-kind 5 each of window, awning, glass panels 2 FT x 2 FT	5	EA
C. Remove and replace in-kind 1 each of Rain Bird Model SST-400i electronic irrigation timer	1	EA
{01-002} Building 1 Roofing System (24 FT x 32 FT):		
A. Remove and replace in-kind ridge cap, 24 GA aluminum, 24 IN wide, 32 LF long	32	LF
B. Remove and replace in-kind 768 SF of corrugated polycarbonate sheets over galvanized aluminum frame	768	SF
{02-011} Building 2:		
A. Remove and replace in-kind 3 each of window, awning, 1/4 IN glass panels, 2 FT wide x 2 FT high	3	EA
B. Remove and replace in-kind 1 each of Rain Bird Model SST-400i electronic irrigation timer	1	EA
{02-011} Building 2 :		
A. Remove and replace in-kind 18 SF of wall, 1/4 IN glass panels, 2 FT wide x 3 FT high	18	SF
B. Prepare and paint in-kind 650 SF of exterior and interior wall	650	SF
C. Remove and replace in-kind 1 each of door, aluminum, 1 lite, 3 FT wide x 8 FT high	1	EA
D. Remove and replace in-kind 3 each of light, 1 FT x 4 FT fluorescent, 2 tube	3	EA
{02-012} Building 2 Roofing System (24 FT x 32 FT):		
A. Remove and replace in-kind ridge cap, 24 gage aluminum, 24 IN wide, 32 LF long	32	LF
B. Remove and replace in-kind 768 SF of corrugated polycarbonate sheets over galvanized aluminum frame	768	SF
{03-021} Building 3:		
A. Remove and replace in-kind 3 each of light, 2 FT x 4 FT fluorescent, 2 tube	3	EA
{03-021} Building 3 :		
A. Remove and replace in-kind 60 SF of wall, 2 FT x 6 FT glass panels	60	SF
B. Remove and replace in-kind 1 each of window, awning, glass panels 2 FT x 2 FT	1	EA
C. Prepare and paint in-kind 650 SF of exterior and interior wall	650	SF
D. Remove and replace in-kind 1 each of Rain Bird Model SST-400i electronic irrigation timer	1	EA
{03-022} Building 3 Roofing System (24 FT x 32 FT):		

A. Remove and replace in-kind ridge cap, 24 gage aluminum, 24 IN wide, 32 LF long	32	LF
B. Remove and replace in-kind 768 SF of corrugated polycarbonate sheets over galvanized aluminum frame	768	SF
<b>{04-031} Building 4:</b>		
A. Remove and replace in-kind 3 each of light, 6 IN x 8 FT fluorescent, 2 tube	3	SF
<b>{04-031} Building 4 :</b>		
A. Remove and replace in-kind 96 SF of wall, 2 FT x 6 FT glass panels	96	SF
B. Remove and replace in-kind 4 each of window, awning, glass panels 2 FT x 6 FT	4	EA
C. Prepare and paint in-kind 650 SF of exterior and interior wall	650	SF
D. Remove and replace in-kind 1 each of door, aluminum, 1 lite, 3 FT wide x 8 FT high	1	EA
E. Remove and replace in-kind 1 each of Rain Bird electronic irrigation timer	1	EA
<b>{04-032} Building 4 Roofing System (24 FT x 32 FT):</b>		
A. Remove and replace in-kind ridge cap, 24 gage aluminum, 24 IN wide, 32 LF long	32	LF
B. Remove and replace in-kind 768 SF of corrugated polycarbonate sheets over galvanized aluminum frame	768	SF
<b>{05-041} Building 5</b>		
A. Remove and replace in-kind 2 each of window, awning, glass panels 2 FT x 2 FT	2	EA
B. Remove and replace in-kind 3 each of light, 1 FT x 4 FT fluorescent, 2 tube	3	EA
<b>{05-041} Building 5</b>		
A. Remove and replace in-kind 60 SF of wall, 2 FT x 6 FT glass panels	60	SF
B. Prepare and paint in-kind 650 SF of exterior and interior wall	650	SF
C. Remove and replace in-kind 1 each of Rain Bird Model SST-400i electronic irrigation timer	1	EA
<b>{05-042} Building 5 Roofing System (24 FT x 32 FT):</b>		
A. Remove and replace in-kind ridge cap, 24 gage aluminum, 24 IN wide, 32 LF long	32	LF
B. Remove and replace in-kind 768 SF of corrugated polycarbonate sheets over galvanized aluminum frame	768	SF
<b>BBA Details: Education Sector Industry Standard:</b>		
Lighting Controls - 2018 IECC / Section C405.2 Lighting Controls (Mandatory) C405.2.1 Occupant Sensor Controls. a. Disaster Damage Work Required: Remove and replace damaged number as noted above per classroom lighting fixtures. b. BBA Pre-disaster condition: The lighting system in this classroom were operable prior to the event. Lighting fixtures are powered through an electrical circuit with a commercial type 1 pole lever switch.		

c. BBA Work required: Install (10) ceiling mounted occupancy sensors one (1) per 600 SF of room area – damaged lighting is functional dependent on sensor to meet code requirement. Depending on the room sizes, several occupancy sensors will be necessary to operate lighting fixture system. The sensor shall be positioned in the ceiling, room area centered to allow for best functionality. New conduit and corresponding wiring will be necessary for sensor installation. Consider conduit installation to nearest lighting system junction box and wiring of sensor to existing circuit. Considering a minimum of 20ft of EMT conduit and 60ft of existing gauge electrical copper wire (minimum allowable: THWN #12 stranded copper wire). If the corresponding circuit wiring is not accessible, consider conduit and corresponding wiring to the nearest lighting panel board.		
<b>HMP 406</b>		
1. Install additional 1,790 fasteners (18 C) to 896 LF to Polycarbonate of Corrugated Roof Panels along perimeter and ridge cap, at 6" spacing, to provide greater wind uplift resistance.	1790	EA
2. Install additional 2,558 fasteners (26 C) to 120 FT W x 160 FT L Polycarbonate Corrugated Roof Panels at 6" spacing, to provide greater wind uplift.	2558	EA
3. Apply additional 1,279.2 LF of Joint sealants, caulking acrylic latex, to prevent water intrusion.	1279.2	LF
4. Apply 3,250 SF of waterproof coating for walls, 2 coats, to prevent building surface from wind driven rain related damages. Note: Mitigation measures above are the combine for all 5 Invernaderos.	3250	SF
{01} Envelope:		
A. Prepare Prime and Apply Two Coats of Paint, 1,084 SF of paint on wall, peeling	1084	SF
B. Remove and Replace (In kind), 1 each of support pipe for electrical wire, 3 FT high, 1-1/2 IN diameter	1	EA
{02} Roofing System:		
A. Remove and Replace (In kind), 400 SF of elastomeric coating over concrete	400	SF
{03} Interior:		
A. Prepare Prime and Apply Two Coats of Paint to 400 SF of paint on ceiling	400	SF
B. Repair (In kind), 1 SF of concrete ceiling (elevated 12 FT above ground), spalling	1	SF
C. Prepare Prime and Apply Two Coats of Paint to 85 SF of paint on wall around windows (North and East elevations),	85	SF

b. Improve Project/Scope Alignment

- Re- design of the existing buildings for a more resilient buildings. Include upgrade of electric infrastructure/ lighting and power source.

8. DI 155540 - Edificio 020 N Invernadero Frente Área de Ventas

a. Original Scope

<b>PA 428</b>		
<b>Building Damage:</b>		
{01-001} Greenhouse 1 (30 FT x 50 FT) Roofing System:		
A. Remove and replace 2,350 SF of polyethylene, 6 mil	2350	SF
B. Remove and replace galvanized steel tube, 1-1/2 IN DIA, 510 LF long	510	LF
{02-002} Greenhouse 2 (30 FT x 50 FT) Roofing System:		
A. Remove and replace 2,350 SF of shade cloth, nylon mesh	2350	SF
B. Remove and replace galvanized steel tube, 1-1/2 IN DIA, 510 LF long	510	LF
{03-003} Greenhouse 3 (30 FT x 50 FT) Roofing System:		
A. Remove and replace 2,350 SF of polyethylene, 6 mil	2350	SF
B. Remove and replace galvanized steel tube, 1-1/2 IN DIA, 510 LF long	510	LF
{04-004} Greenhouse 4 (30 FT x 50 FT) Roofing System:		
A. Remove and replace 2,350 SF of shade cloth, nylon mesh	2350	SF
B. Remove and replace galvanized steel tube, 1-1/2 IN DIA, 510 LF long	510	LF
<b>HMP 406</b>		
NO HMP		

9. DI 155541 - Edificio 020 O Laboratorio de Microbiología (BNF)

a. Original Scope

<b>PA 428</b>		
<b>Building Damage:</b>		
{00-001} Building Envelope:		
A. Prepare and paint in-kind 355 SF of building exterior surfaces (approx. 10%)	355	SF
{00-002} Roofing System:		
A. Remove and replace in-kind 5,039 SF of Danosa single ply bitumen membrane over concrete slab	5039	SF
{00-003} General:		
A. Prepare and paint in-kind 1,295 SF of building interior surfaces	1295	SF
{01-004} First Floor Room BNF1 (21 FT x 35 FT):		
A. Remove and replace in-kind 112 SF of ceiling, 2 FT x 4 FT acoustic tile	112	SF
B. Remove and replace in-kind 4 each of light, 2 FT x 4 FT fluorescent, 4 tube	4	EA
C. Repair in-kind 6 SF of wall, 1/4 IN thick cement plaster (cracks)	6	SF

D. Remove and replace in-kind 2 each of A/C unit, 24k BTU, window mount	2	EA
{01-005} First Floor Room BNF5 (8 FT x 20 FT):		
A. Remove and replace in-kind 1 each of light fixture, fluorescent 2 FT x 4 FT, 4 tubes	1	EA
{01-007} First Floor Room BNF6 Research office (8 FT x 20 FT):		
A. Remove and replace in-kind 8 SF of ceiling, 2 FT x 4 FT acoustic tile	8	SF
{01-007} First Floor Room BNF6 Research office(8 FT x 20 FT):		
A. Remove and replace in-kind 1 each of light fixture, 2 FT x 4 FT fluorescent, 4 tube	1	EA
B. Repair in-kind 15 SF of wall, 1/4 IN thick cement plaster (cracks)	15	SF
{01-008} First Floor Room BNF7 (20 FT x 20 FT):		
A. Remove and replace in-kind 100 SF of ceiling, 2 FT x 4 FT acoustic tile	100	SF
B. Remove and replace in-kind 1 each of light fixture, 2 FT x 4 FT fluorescent, 4 tube, recessed	1	EA
C. Repair in-kind 10 SF of wall, 1/4 IN thick cement plaster (cracks)	10	SF
{01-009} First Floor Room BNF10 Research Lab(17 FT x 23 FT):		
A. Remove and replace in-kind 1 each of light fixture, 2 FT x 4 FT fluorescent, 4 tube	1	EA
{01-011} First Floor Room BNFP1 Hall (4 FT x 16 FT):		
A. Remove and replace in-kind 80 SF of wall, 2 IN gypsum board panel, fire rated	80	SF
B. Remove and replace in-kind base, 4 IN vinyl, 40 LF long	40	LF
<b>BBA Details: Education Sector Industry Standard:</b>		
<p><b>Lighting Controls - 2018 IECC / Section C405.2 Lighting Controls (Mandatory) C405.2.1</b></p> <p><b>Occupant Sensor Controls.</b></p> <p>a. Disaster Damage Work Required: Remove and replace damaged number as noted above per classroom lighting fixtures.</p> <p>b. BBA Pre-disaster condition: The lighting system in this classroom were operable prior to the event. Lighting fixtures are powered through an electrical circuit with a commercial type 1 pole lever switch.</p> <p>c. BBA Work required: Install (6) ceiling mounted occupancy sensors one (1) per 600 SF of room area – damaged lighting is functional dependent on sensor to meet code requirement. Depending on the room sizes, several occupancy sensors will be necessary to operate lighting fixture system. The sensor shall be positioned in the ceiling, room area centered to allow for best functionality. New conduit and corresponding wiring will be necessary for sensor installation. Consider conduit installation to nearest lighting system junction box and wiring of sensor to existing circuit. Considering a minimum of 20ft of EMT conduit and 60ft of existing gauge electrical copper wire (minimum allowable: THWN #12 stranded copper wire). If the corresponding circuit wiring is not accessible, consider conduit and corresponding wiring to the nearest lighting panel board.</p>		

<p><b>System: HVAC</b></p> <p>1. Disaster Related Damage Component:                  {01-004} First Floor Room BNF1 (21 FT x 35 FT): Building Interior, 2 each of A/C unit, 24k BTU, window mount, with electrical components failure due to power fluctuations and outages, 0% work completed.</p> <p>2. BBA Details:                  Industry Standard: Per 2016 ASHRAE, 90.1 – 2010 Appendix G Baseline Building HVAC System                  Education Sector, Damaged HVAC components: Replacement of multiple HVAC systems in a single building</p> <p>a. Disaster Damage Work Required: Remove and replace air conditioner systems units for each classroom noted above.</p> <p>b. Pre-disaster condition: The existing air conditioner units above mentioned served the purpose of conditioning the classrooms. The cooling capacity is analyzed below for the area, however given the type of units, the fresh air requirements were not met. All units are connected to the same electrical branch circuit and the panelboard has spaces for additional branching.</p> <p>c. HVAC BBA Work required: For estimating purposes, install outside air compliant direct expansion (DX) A/C units as detailed below, in place of all items described                  in disaster related damages components of HVAC system described above for capacity to meet air exchange standard. For enclosing of Air Handling Unit (AHU),                  construct a mechanical closet made of insulated gypsum board walls (3 sides) and a minimum 1hr fire rated hollow metal door to install necessary AHU with DX compatible coil and corresponding appurtenances such as: support base,                  Louver for fresh air w/ damper, supply register w/ opposed blade damper, galvanized ductwork, return air side louver, drainage piping, thermostat, ½" EMT conduit for thermostat control, insulated DX piping and communication cable to connect to condensing unit (CU).</p> <p>d. Electric Power BBA Work required: In addition to the interior work, exterior rooftop installation (where possible) of the condensing unit will be necessary to complete the refrigeration system needing: connection of DX piping from interior (approx. 30 Ft. run) Air Handling Unit (AHU), 3#18 control cable from AHU, 5/16" clear coated galvanized two-way tie down wires. For the electrical scope both units need dedicated circuits directly from the panelboard, consider the following: 1) AHU - route new branch circuit from panelboard with 3#10 THWN copper wire in ¾" EMT including disconnecting means (equal or similar to a 30amp Safety switch) with flexible conduit to power the unit and 2) CU – route new branch circuit from panelboard w/ 3#8 THWN copper wire in ¾" EMT for interior and RGC when exposed to exterior and/or to impact, including disconnecting means (equal or similar to a 30amp Safety Switch) with flexible conduit to power the unit. Please account for the demolition for penetrations as well as the necessary masonry.</p>		
<p><b>HMP 406</b></p>		

1. Install an additional 5,039 SF ply of BUR membrane roof coating system. To prevent water infiltration and protect interior finishes and contents.	5039	SF
2. Pryor to install 5,039 SF of SBS modified bituminous membrane apply of 3 IN thick light weight concrete insulation layer tempered for slope correction to direct water to drainage system using a tapered lightweight concrete layer.	5039	SF
3. Install 320 LF of corrosion resistance metal Cap flashing over 6 IN wide over parapet wall after installing the new waterproofing membrane at the roof to protect against membrane uplift and water intrusion	320	LF
4. Apply 355 SF of waterproof coating for walls, 2 coats, to prevent building surface from wind driven rain related damages	355	SF

10. DI 155542 - Edificio 020 P Garaje

a. Original Scope

<b>PA 428</b>		
<b>Building Damage:</b>		
{00-001} Building Envelope:		
A. Remove and replace in-kind wall, wood studs, 2 IN x 4 IN, 16 IN OC, 4 FT high (75 FT), 75 LF long	75	LF
B. Remove and replace in-kind 300 SF of wall, plywood (near roof), 3/4 IN, painted, 4 FT x 75 FT long	300	SF
C. Remove and replace in-kind 1 each of light fixture, two bulbs 100 W each, incandescent, ceiling mounted, 10 IN long x 8 IN wide	1	EA
{00-002} Roofing System:		
A. Remove and replace in-kind 3,000 SF of corrugated, metal, 24 GA, "C" profile, 7/8 IN rib height	3000	SF
B. Remove and replace in-kind roof, wood purlins, 2 IN x 8 IN, 4 FT spacing, 900 LF long	900	LF
C. Remove and replace in-kind gutter, galvanized sheet metal, 3 IN x 3 IN, 75 LF long	75	LF
D. Remove and replace in-kind 4 each of downspout, aluminum, 3 IN x 3 IN, 12 FT long	1	EA
{00-003} General:		
A. Prepare and paint in-kind 2,000 SF of building interior surfaces (Rooms 1A, 1B & 2)	2000	SF
{01-004} First Floor Room 00 (15 FT x 60 FT):		
A. Remove and replace in-kind 1 each of light, 1 FT x 4 FT, LED, 2 tube	1	EA
{01-005} First Floor Room 01A Storage (15 FT x 15 FT):		
A. Remove and replace in-kind 2 each of light, 2 FT x 4 FT, fluorescent, 4 tube	2	EA
B. Remove and replace in-kind wall, 2 IN x 4 IN wood studs, 16 IN OC, 10 FT high, 15 LF long	15	LF



C. Remove and replace in-kind 150 SF of wall, 3/4 IN plywood	150	SF
D. Remove and replace in-kind 1 each of electrical distribution (load) panel, 125 Amp, 120/240 V load center, 22 provisions	1	EA
E. Remove and replace in-kind 3 each of breaker, 240V, 30A 2 pole breaker	3	EA
F. Remove and replace in-kind 4 each of breaker, 120V, 20A, 1 pole breaker	4	EA
G. Remove and replace in-kind 3 each of electrical, duplex outlet, 20 A	3	EA
{01-006} First Floor Room 01B Storage (12 FT x 15 FT):		
A. Remove and replace in-kind ceiling, 2 IN x 8 IN wood framing, 96 LF long	96	LF
B. Remove and replace in-kind 180 SF of ceiling, 3/4 IN thick plywood	180	SF
C. Remove and replace in-kind 2 each of light, 2 FT x 4 FT, fluorescent, 4 tube	2	EA
D. Remove and replace in-kind wall, 2 IN x 4 IN wood studs, 16 IN OC, 10 FT high, 15 LF long	15	LF
E. Remove and replace in-kind 300 SF of wall, 3/4 IN thick plywood	300	SF
F. Remove and replace in-kind 2 each of electrical, duplex outlet, 20 A	2	EA
G. Remove and replace in-kind 1 each of electronic timer recorder	1	EA
{01-007} First Floor Room 02 Kitchen (15 FT x 18 FT):		
A. Remove and replace in-kind 270 SF of ceiling, 2 FT x 2 FT acoustic tile	270	SF
B. Remove and replace in-kind 270 SF of ceiling, suspended metal grid	270	SF
C. Remove and replace in-kind 4 each of light, 2 FT x 4 FT, fluorescent, 4 tube.	4	EA
D. Remove and replace in-kind wall, 2 IN x 4 IN wood studs, 16 IN OC, 10 FT high, 15 LF long	15	LF
E. Remove and replace in-kind 300 SF of wall, 3/4 IN thick plywood	300	SF
F. Remove and replace in-kind cabinet, upper, wood, 18 IN x 30 IN, 12 IN deep, 18 LF long.	18	LF
G. Remove and replace in-kind cabinet, base, wood, 30 IN high, 24 IN deep, 18 LF long	18	LF
H. Remove and replace in-kind 4 each of electrical, duplex outlet, 20 A	4	EA
I. Remove and replace in-kind 1 each of AC, 3 TON package split unit	1	EA
J. Remove and replace in-kind base, 4 IN rubber, 66 LF long	66	LF
K. Remove and replace in-kind 270 SF of floor, VCT, 12 IN x 12 IN	270	SF
L. Remove and replace in-kind 5 each of wood rafters, treated pine, 2 IN x 8 IN, 18 FT long	5	EA
M. Remove and replace in-kind 1 each of light aluminum screen door, 36 IN wide x 80 IN high	1	EA
N. Remove and replace in-kind 1 each of screen door, light aluminum, 36 IN wide x 80 IN high	1	EA
{01-008} First Floor Room 03 Janitors Closet (7 FT x 9 FT):		

A. Remove and replace in-kind 63 SF of ceiling, wood	63	SF
B. Remove and replace in-kind 1 each of light, 1 FT x 4 FT, fluorescent, 2 tube	1	EA
C. Remove and replace in-kind wall, 2 IN x 4 IN wood studs, 16 IN OC, 10 FT high, 16 LF long	16	LF
D. Remove and replace in-kind 160 SF of wall, 1/2 IN thick plywood	160	SF
E. Remove and replace in-kind 2 each of electrical, duplex outlet, 20 A	2	EA
{01-009} First Floor Room 04 Administrative Office (7 FT x 10 FT) + (8 FT x 19 FT):		
A. Remove and replace in-kind 222 SF of ceiling, wood	222	SF
B. Remove and replace in-kind 1 each of light, 6 IN x 96 IN, fluorescent, 2 tube	1	EA
C. Remove and replace in-kind 1 each of light, 2 FT x 4 FT, fluorescent, 2 tube	1	EA
D. Remove and replace in-kind wall, 2 IN x 4 IN wood studs, 16 IN OC, 10 FT high, 15 LF long	15	LF
E. Remove and replace in-kind 460 SF of wall, 1/2 IN thick plywood	460	SF
F. Remove and replace in-kind 4 each of electrical, duplex outlet, 20 A	4	EA
G. Remove and replace in-kind 1 each of AC, thru-wall, 12,000 BTU	1	EA
{01-010} First Floor Room 05 Welding Workshop (15 FT x 20 FT) + (3 FT x 5 FT):		
A. Remove and replace in-kind 1 each of light, 1 FT x 4 FT, fluorescent, 2 tube	1	EA
B. Remove and replace in-kind 200 SF of wall, 3/4 IN thick plywood	200	SF
{01-011} First Floor Room 05A Material Storage (5 FT x 8 FT):		
A. Remove and replace in-kind 40 SF of ceiling, 3/4 IN thick plywood	40	SF
B. Remove and replace in-kind 1 each of light, 1 FT x 4 FT, fluorescent, 2 tube	1	EA
C. Remove and replace in-kind 1 each of electrical, duplex outlet, 20 A	1	EA
{01-012} First Floor Room 05B Private Restroom (6 FT x 11 FT):		
A. Remove and replace in-kind 66 SF of ceiling, 2 FT x 2 FT acoustic tile	66	SF
B. Remove and replace in-kind 1 each of door, HC wood, 36 IN wide x 80 IN high	1	EA
{01-013} First Floor Room 06 Men's Restroom (5 FT x 5 FT):		
. Remove and replace in-kind 25 SF of ceiling, 3/4 IN plywood	25	SF
{01-014} First Floor Room 07 Women's Restroom (5 FT x 6 FT):		
A. Remove and replace in-kind 30 SF of ceiling, 3/4 IN plywood	30	SF
B. Remove and replace in-kind 1 each of ceiling, exhaust fan	1	EA
<b>BBA Details: Education Sector Industry Standard:</b>		
Lighting Controls - 2018 IECC / Section C405.2 Lighting Controls (Mandatory) C405.2.1 Occupant Sensor Controls.		

<p>a. Disaster Damage Work Required: Remove and replace damaged number as noted above per classroom lighting fixtures.</p> <p>b. BBA Pre-disaster condition: The lighting system in this classroom were operable prior to the event. Lighting fixtures are powered through an electrical circuit with a commercial type 1 pole lever switch.</p> <p>c. BBA Work required: Install (10) ceiling mounted occupancy sensors one (1) per 600 SF of room area – damaged lighting is functional dependent on sensor to meet code requirement. Depending on the room sizes, several occupancy sensors will be necessary to operate lighting fixture system. The sensor shall be positioned in the ceiling, room area centered to allow for best functionality. New conduit and corresponding wiring will be necessary for sensor installation. Consider conduit installation to nearest lighting system junction box and wiring of sensor to existing circuit. Considering a minimum of 20ft of EMT conduit and 60ft of existing gauge electrical copper wire (minimum allowable: THWN #12 stranded copper wire). If the corresponding circuit wiring is not accessible, consider conduit and corresponding wiring to the nearest lighting panel board.</p> <p><b>System: HVAC</b>                  Industry Standard: Per 2016 ASHRAE, 90.1 – 2010 Appendix G Baseline Building                  HVAC System                  Education Sector, Damaged HVAC components: Replacement of multiple HVAC systems in a single building</p> <p>a. Disaster Damage Work Required: Remove and replace air conditioner systems units for each classroom noted above.</p> <p>b. Pre-disaster condition: The existing air conditioner units above mentioned served the purpose of conditioning the classrooms. The cooling capacity is analyzed below for the area, however given the type of units, the fresh air requirements were not met. All units are connected to the same electrical branch circuit and the panelboard has spaces for additional branching.</p> <p>c. HVAC BBA Work required: For estimating purposes, install outside air compliant direct expansion (DX) A/C units as detailed below, in place of all items described in disaster related damages components of HVAC system described above for capacity to meet air exchange standard. For enclosing of Air Handling Unit (AHU), construct a mechanical closet made of insulated gypsum board walls (3 sides) and a minimum 1hr fire rated hollow metal door to install necessary AHU with DX compatible coil and corresponding appurtenances such as: support base, Louver for fresh air w/ damper, supply register w/ opposed blade damper, galvanized ductwork, return air side louver, drainage piping, thermostat, ½" EMT conduit for thermostat control, insulated DX piping and communication cable to connect to condensing unit (CU).</p> <p>d. Electric Power BBA Work required: In addition to the interior work, exterior rooftop installation (where possible) of the condensing unit will be necessary to complete the refrigeration system needing</p>		
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connection of DX piping from interior (approx. 30 Ft. run) Air Handling Unit (AHU), 3#18 control cable from AHU, 5/16" clear coated galvanized two-way tie down wires. For the electrical scope both units need dedicated circuits directly from the panelboard, consider the following: 1) AHU - route new branch circuit from panelboard with 3#10 THWN copper wire in ¾" EMT including disconnecting means (equal or similar to a 30amp Safety switch) with flexible conduit to power the unit and 2) CU – route new branch circuit from panelboard w/ 3#8 THWN copper wire in ¾" EMT for interior and RGC when exposed to exterior and/or to impact, including disconnecting means (equal or similar to a 30amp Safety Switch) with flexible conduit to power the unit. Please account for the demolition for penetrations as well as the necessary masonry. See BBA Report.		
<b>HMP 406</b>		
<u>Roof</u>		
1. Install additional 1,070 fasteners (22 C) for 3,000 SF of metal roof panels. Increase fastener pattern to include on average 36 additional fasteners per 1 Square to provide greater wind uplift resistance	1070	EA
<u>Drain</u>		
2. Install Additional aluminum hangers to 75 LF to galvanized sheet metal Gutter to increase the average of hanger distance from 6 FT to 3 FT to prevent unit detachment from wind resistance	75	LF
3. Install Additional aluminum Downspout Band (supports) to 48 LF to Aluminum downspouts, enameled, 3" x 4", .024" thick to increase the average of band distance from 6 FT to 3 FT to better anchor them to the building.	48	LF
4. Prepare and install 4 EA 1 FT x 1 FT concrete base (Splash block) per downspout for water discharge at ground level.	4	EA
<u>Door</u>		
5. Remove and Replace (1) EA, Doors, commercial, steel, flush, full panel, hollow core, hollow metal, 18 ga. 4'-0" x 7'-0" x 1-3/4" thick door frames, hinges, and hardware with wind-resistant units.	1	EA
6. Install 1EA aluminum, threshold, ADA, 4" IN wide x 36" IN long to 22 EA new door to prevent water from entering facility	1	EA
7. Install 1 EA 4"wide x 36" long weather stripping for threshold door sweep, flush mounted to prevent water infiltration and content damages	1	EA
8. Apply additional 34 LF of caulking and sealant to one of two sides of 1 each of 3'-0" x 7'-0" x 1-3/4" thick to hollow core metal door to prevent water to enter the facility.	34	LF
<u>Roof Top Equipment</u>		
9. Secure (1) EA 3 Ton roof mounted equipment Air conditioner Unit to roof slab prior to installation of new roof water proofing membrane to sustain 171 mph wind forces by adding strap down cables with galvanized turn buckles and accessories	1	EA

11. DI 155544 - Edificio 020 R Edificio Programa Doctoral

a. Original Scope

PA 428		
<b>Building Damage:</b>		
{00-001} General:		
A. Prepare and paint in-kind 2,715 SF of building exterior surfaces	2715	SF
B. Remove and replace in-kind 1 each of AC, inverter split system, 24,000 BTU	1	EA
C. Remove and replace in-kind 1 each of exhaust fan, 2 FT x 2 FT, 1.3HP motor	1	EA
D. Prepare and paint in-kind 600 SF of ceiling	600	SF
{00-001} General Interior:		
A. Remove and replace in-kind 2,292 SF of floor, VCT, 12 IN x 12 IN	2292	SF
{00-002} Roofing System:		
A. Remove and replace in-kind 3,000 SF of Danosa bitumen membrane, single ply	3000	SF
B. Remove and replace in-kind 2,000 SF of galvanized metal deck, 1-1/2 IN deep, 18 GA	2000	SF
{01-004} First Floor Room PD-01 (15 FT x 17 FT):		
A. Remove and replace in-kind 128 SF of ceiling, 2 FT x 4 FT acoustic tile	128	SF
B. Remove and replace in-kind 1 each of AC, wall mounted, window unit, 18,000 BTU	1	EA
{01-004} First Floor Room PD-01A (15 FT x 22 FT):		
A. Repair in-kind 32 SF of wall, cement plaster, 1/2 IN	32	SF
{01-005} First Floor Room PD-02 (15 FT x 17 FT):		
A. Remove and replace in-kind 72 SF of ceiling, 2 FT x 4 FT acoustic tile	72	SF
B. Remove and replace in-kind 1 each of light, 2 FT x 4 FT fluorescent, 4 tube	1	EA
C. Prepare and paint in-kind 25 SF of wall	25	SF
{01-006} First Floor Room PD-03 (15 FT x 22 FT):		
A. Remove and replace in-kind 20 SF of ceiling, 2 FT x 2 FT acoustic tile	20	SF
{01-009} First Floor Room PD-06 (22 FT x 28 FT):		
A. Remove and replace in-kind 12 SF of ceiling, 2 FT x 2 FT acoustic tile	12	SF
{01-010} First Floor Entrance Lobby (6 FT x 36 FT):		
A. Repair in-kind 216 SF of ceiling, 5/8 IN thick drywall	216	SF
{01-011} First Floor Room E1 Hallway to Stairs (7 FT x 25 FT):		
A. Remove and replace in-kind 175 SF of ceiling, 2 FT x 4 FT acoustic tile	175	SF
{02-012} Ground Floor Room PO Lobby (6 FT x 27 FT):		
A. Remove and replace in-kind 72 SF of ceiling, 2 FT x 2 FT acoustic tile	72	SF

B. Remove and replace in-kind 1 each of laboratory fumes hood, exhaust fan	1	EA
{02-013} Ground Floor Room PD G1 Laboratory (15 FT x 35 FT):		
A. Remove and replace in-kind 34 SF of ceiling, 2 FT x 2 FT acoustic tile	34	SF
B. Remove and replace in-kind 1 each of laboratory fumes hood, exhaust fan	1	EA
{02-014} Ground Floor Room PD G05 (15 FT x 25 FT):		
A. Remove and replace in-kind 24 SF of ceiling, 2 FT x 2 FT acoustic tile	24	SF
{02-015} Ground Floor Room PD G6 (14.5 FT x 28 FT):		
A. Remove and replace in-kind 8 SF of ceiling, 2 FT x 2 FT acoustic tile	8	SF
B. Remove and replace in-kind 1 each of A/C unit, 48,000 BTU, split	1	EA
{02-016} Ground Floor Mezzanine (6 FT x 35 FT):		
A. Remove and replace in-kind 2 each of light, 2 FT x 4 FT fluorescent, 4 tube	2	EA
<b>BBA Details: Education Sector Industry Standard:</b>		
<p><b>Lighting Controls - 2018 IECC / Section C405.2 Lighting Controls (Mandatory) C405.2.1</b></p> <p><b>Occupant Sensor Controls.</b></p> <p>a. Disaster Damage Work Required: Remove and replace damaged number as noted above per classroom lighting fixtures.</p> <p>b. BBA Pre-disaster condition: The lighting system in this classroom were operable prior to the event. Lighting fixtures are powered through an electrical circuit with a commercial type 1 pole lever switch.</p> <p>c. BBA Work required: Install (10) ceiling mounted occupancy sensors one (1) per 600 SF of room area – damaged lighting is functional dependent on sensor to meet code requirement. Depending on the room sizes, several occupancy sensors will be necessary to operate lighting fixture system. The sensor shall be positioned in the ceiling, room area centered to allow for best functionality. New conduit and corresponding wiring will be necessary for sensor installation. Consider conduit installation to nearest lighting system junction box and wiring of sensor to existing circuit. Considering a minimum of 20ft of EMT conduit and 60ft of existing gauge electrical copper wire (minimum allowable: THWN #12 stranded copper wire). If the corresponding circuit wiring is not accessible, consider conduit and corresponding wiring to the nearest lighting panel board.</p> <p><b>System: HVAC</b></p> <p>Industry Standard: Per 2016 ASHRAE, 90.1 – 2010 Appendix G Baseline Building HVAC System</p> <p>Education Sector, Damaged HVAC components: Replacement of multiple HVAC systems in a single building</p> <p>a. Disaster Damage Work Required: Remove and replace air conditioner systems units for each classroom noted above.</p>		

<p>b. Pre-disaster condition: The existing air conditioner units above mentioned served the purpose of conditioning the classrooms. The cooling capacity is analyzed below for the area, however given the type of units, the fresh air requirements were not met. All units are connected to the same electrical branch circuit and the panelboard has spaces for additional branching.</p> <p>c. HVAC BBA Work required: For estimating purposes, install outside air compliant direct expansion (DX) A/C units as detailed below, in place of all items described in disaster related damages components of HVAC system described above for capacity to meet air exchange standard. For enclosing of Air Handling Unit (AHU), construct a mechanical closet made of insulated gypsum board walls (3 sides) and a minimum 1hr fire rated hollow metal door to install necessary AHU with DX compatible coil and corresponding appurtenances such as: support base, Louver for fresh air w/ damper, supply register w/ opposed blade damper, galvanized ductwork, return air side louver, drainage piping, thermostat, ½" EMT conduit for thermostat control, insulated DX piping and communication cable to connect to condensing unit (CU).</p> <p>d. Electric Power BBA Work required: In addition to the interior work, exterior rooftop installation (where possible) of the condensing unit will be necessary to complete the refrigeration system needing connection of DX piping from interior (approx. 30 Ft. run) Air Handling Unit (AHU), 3#18 control cable from AHU, 5/16" clear coated galvanized two-way tie down wires. For the electrical scope both units need dedicated circuits directly from the panelboard, consider the following: 1) AHU - route new branch circuit from panelboard with 3#10 THWN copper wire in ¾" EMT including disconnecting means (equal or similar to a 30amp Safety switch) with flexible conduit to power the unit and 2) CU – route new branch circuit from panelboard w/ 3#8 THWN copper wire in ¾" EMT for interior and RGC when exposed to exterior and/or to impact, including disconnecting means (equal or similar to a 30amp Safety Switch) with flexible conduit to power the unit. Please account for the demolition for penetrations as well as the necessary masonry. See BBA Report.</p>		
<b>HMP 406</b>		
<u>Roof</u>		
1. Install additional 2,134 fasteners (21.34C) to 40FT W x 80FT L of Metal Roof Panels, to better anchor and provide greater wind uplift resistance.	2134	EA
2. Pryor to install 3,000 SF of SBS modified bituminous membrane apply of 3 IN thick light weight concrete insulation layer tempered for slope correction to direct water to drainage system using a tapered lightweight concrete layer.	3000	SF
3. Install 255 LF of corrosion resistance metal Cap flashing over 6 IN wide over parapet wall after installing the new waterproofing membrane at the roof to protect against membrane uplift and water intrusion.	255	LF
4. Install 255 LF of Termination bar on roof edges to prevent uplift of flashing and roof membrane.	255	LF

<u>Roof Top Equipment</u>		
5. Install 1 EA each 3-Phase A/C Surge Protector to 1 EA of 4 Ton (48,000 BTU) A/C unit to prevent power fluctuation and outages damages from similar events.	1	EA
6. Secure (1) EA 4 Ton roof mounted equipment Air conditioner Unit to roof slab prior to installation of new roof water proofing membrane to sustain 171 mph wind forces by adding strap down cables with galvanized turn buckles and accessories.	1	EA
7. Secure (2) EA 2 Ton roof mounted equipment Air conditioner Unit to roof slab prior to installation of new roof water proofing membrane to sustain 171 mph wind forces by adding strap down cables with galvanized turn buckles and accessories.	2	EA
<u>Exterior Paint</u>		
8. Apply 2,715 SF of waterproof coating for walls, 2 coats, to prevent building surface from wind driven rain related damages.	2715	SF

12. DI 155546 - Edificio 020 T Invernadero CIFT

a. Original Scope

<b>PA 428</b>		
Building Damage:		
{00-001} General:		
A. Prepare and paint 384 SF of building exterior surfaces	384	LF
{00-002} Roofing System:		
A. Remove and replace 2,820 SF of polyethylene membrane, 10 mil	2820	SF
B. Remove and replace galvanized steel tube, 1-1/2 IN, 565 LF long	565	LF
C. Remove and replace galvanized steel tube, 1-1/2 IN, 565 LF long	565	LF
{01-004} First Floor Room 100 Invernadero (30 FT x 60 FT):		
A. Remove and replace 240 SF of black shade cloth nylon mesh for chain link fence	240	SF
<b>HMP 406</b>		
NO HMP		

13. DI 155549 - Edificio 020 V Edificio CEMA

a. Original Scope

<b>PA 428</b>		
Building Damage:		
{00-001} General		
A. Prepare and paint in-kind 385 SF of building exterior surfaces	385	SF
<b>HMP 406</b>		
NO HMP		



14. DI 155550 - Edificio 020 W Invernadero 6 Ingeniería Agrícola

a. Original Scope

<b>PA 428</b>		
Building Damage:		
{00-001} Roofing System (24 FT x 46 FT):	Demolition	
A. Remove and replace in-kind 1,104 SF of roof panels, corrugated translucent polycarbonate		
B. Remove and replace in-kind ridge cap, 24 gage aluminum, 24 IN wide, 46 LF long		
{01-002} Interior (20 FT x 42 FT):		
A. Remove and replace in-kind 840 SF of ceiling, polyethylene, 6 mil		
B. Remove and replace in-kind 4 each of light, 2 FT x 4 FT fluorescent, 4 tube		
C. Remove and replace in-kind 496 SF of wall, polyethylene, 6 mil		
<b>BBA Details: Education Sector Industry Standard:</b>		
<b>Lighting Controls - 2018 IECC / Section C405.2 Lighting Controls (Mandatory) C405.2.1</b> <b>Occupant Sensor Controls.</b> a. Disaster Damage Work Required: Remove and replace damaged number as noted above per classroom lighting fixtures. b. BBA Pre-disaster condition: The lighting system in this classroom were operable prior to the event. Lighting fixtures are powered through an electrical circuit with a commercial type 1 pole lever switch. c. BBA Work required: Install (2) ceiling mounted occupancy sensors one (1) per 600 SF of room area – damaged lighting is functional dependent on sensor to meet code requirement. Depending on the room sizes, several occupancy sensors will be necessary to operate lighting fixture system. The sensor shall be positioned in the ceiling, room area centered to allow for best functionality. New conduit and corresponding wiring will be necessary for sensor installation. Consider conduit installation to nearest lighting system junction box and wiring of sensor to existing circuit. Considering a minimum of 20ft of EMT conduit and 60ft of existing gauge electrical copper wire (minimum allowable: THWN #12 stranded copper wire). If the corresponding circuit wiring is not accessible, consider conduit and corresponding wiring to the nearest lighting panel board. See BBA Report.		
<b>HMP 406</b>		
<u>Roof Mitigation (supplementary):</u>	Demolition	
1. Install additional fastener for 1,104 SF of corrugated polycarbonate panels to provide greater wind uplift resistance.		
* Add #14 x 2" fastener every 6 IN in perimeter and ridge cap Perimeter: 140 LF + 92 LF (Ridge cap)= 232 LF / .5 = 464 fasteners		
* Add #14 x 1" fastener every 6 IN in 46 FT by 2'2" panels width 46 FT long / 2'2" * 24 FT width =502 LF 502 LF / .5 = 1,004 fasteners		

2. Add 502 LF of caulking (silicone sealant)	
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15. DI 263857 - Edificio 804 Laboratorio de Nutrición y Entomología

a. Original Scope

PA 428		
Building Damage:		
{00-001} General:		
A. Prepare and paint 1,010 SF of building exterior surfaces	Work completed,  Inspection of work  to request a new  scope version  and/or alignment.  Apply BBA Scope	
B. Remove and replace 4 each of light, wall pack 150 W, LED with photocell		
C. Remove and replace 2 each of AC, window unit, 18,000 BTU		
D. Remove and replace 1 each of light fixture, wall pack, 100W		
E. Remove and replace 1 each of light fixture, wall pack, 1000W		
F. Remove and replace 1 each of electrical, main distribution (load) panel, 24 breakers		
{00-002} Roofing System:		
A. Remove and replace 700 SF of corrugated, galvanized steel sheet metal, roofing		
B. Remove and replace wood rafter, treated pine, 2 IN x 10 IN, 715 LF long		
C. Remove and replace gutter, galvanized sheet metal, 22 GA, 100 LF long		
D. Remove and replace purlins, treated pine, 2 IN x 4 IN, 175 LF long		
E. Remove and replace 1 each of mechanical exhaust, (china cap type), 12 IN dia tube		
{01-004} Main Floor Rm AZ003A (19 FT x 20 FT):		
A. Remove and replace 380 SF of ceiling, 2 FT x 4 FT acoustic tile		
B. Remove and replace 6 each of light, 2 FT x 4 FT fluorescent		
C. Remove and replace 84 SF of floor, 5/8 IN plywood (Mezzanine Deck)		
D. Remove and replace 2 each of A/C unit, 18k BTU, split		
E. Remove and replace 1 each of distribution (load) panel, 8 breakers, 14 slots		
F. Remove and replace electrical cable, three strand including MT, 50 LF long		
{01-005} Main Floor Rm AZ003B (10 FT x 15 FT):		
A. Remove and replace 8 SF of ceiling, 2 FT x 4 FT acoustic tile		
B. Remove and replace 3 each of light, 2 FT x 4 FT fluorescent		
C. Remove and replace 1 each of wood door, HC, 36 IN wide x 80 IN high		
D. Remove and replace 1 each of A/C unit, 18K BTU, window mount		
{01-006} Main Floor Rm AZ003 C (5 FT x 10 FT) BANOS:		
A. Remove and replace 16 SF of ceiling, 2 FT x 4 FT acoustic tile		

B. Remove and replace 1 each of light, 2 FT x 4 FT fluorescent		
{01-008} Main Floor Rm AZFIT LZ Office (12 FT x 20 FT):		
A. Remove and replace 24 SF of ceiling, 2 FT x 2 FT acoustic tile		
B. Remove and replace 2 each of light, 2 FT x 4 FT fluorescent		
C. Remove and replace 240 SF of floor, VCT, 12 IN x 12 IN		
D. Remove and replace 1 each of A/C unit, 18K BTU, window mount		
{01-009} Main Floor Rm Storage (10 FT x 20 FT):		
A. Remove and replace 1 each of light, 6 IN x 8 FT fluorescent		
B. Remove and replace 1 each of exhaust fan, 2 FT DIA, 1.3 HP electrical motor		
{01-010} Main Floor Rm Lab 1 (12 FT x 20 FT):		
A. Remove and replace 72 SF of ceiling, 2 FT x 2 FT acoustic tile		
B. Remove and replace 2 each of light, 1 FT x 8 FT fluorescent		
C. Remove and replace 1 each of exhaust fan, 2 FT diameter, wall mount, 1.3HP motor		
{01-011} Main Floor Rm Lab 2 (12 FT x 20 FT):		
A. Remove and replace 240 SF of ceiling, 2 FT x 4 FT acoustic tile		
B. Remove and replace 2 each of light, 1 FT x 8 FT fluorescent		
C. Remove and replace 1 each of exhaust fan, 2 FT diameter, wall mount, 1.3HP motor		
{01-012} Main Floor Exit Corridor (5 FT x 5 FT):		
A. Remove and replace 1 each of light, incandescent		
<b>BBA Details: Education Sector Industry Standard:</b>		
<b>Lighting Controls - 2018 IECC / Section C405.2 Lighting Controls (Mandatory) C405.2.1 Occupant Sensor Controls.</b>		
a. Disaster Damage Work Required: Remove and replace damaged number as noted above per classroom lighting fixtures.		
b. BBA Pre-disaster condition: The lighting system in this classroom were operable prior to the event. Lighting fixtures are powered through an electrical circuit with a commercial type 1 pole lever switch.		
c. BBA Work required: Install (7) ceiling mounted occupancy sensors one (1) per 600 SF of room area – damaged lighting is functional dependent on sensor to meet code requirement. Depending on the room sizes, several occupancy sensors will be necessary to operate lighting fixture system. The sensor shall be positioned in the ceiling, room area centered to allow for best functionality. New conduit and corresponding wiring will be necessary for sensor installation. Consider conduit installation to nearest lighting system junction box and wiring of sensor to existing circuit. Considering a minimum of 20ft of EMT conduit and 60ft of existing gauge electrical copper wire (minimum allowable: THWN #12 stranded copper wire). If the corresponding circuit wiring is not accessible, consider conduit and corresponding wiring to the nearest lighting panel board.		
<b>System: HVAC</b>		

<p>Industry Standard: Per 2016 ASHRAE, 90.1 – 2010 Appendix G Baseline Building HVAC System                  Education Sector, Damaged HVAC components: Replacement of multiple HVAC systems in a single building                  a. Disaster Damage Work Required: Remove and replace air conditioner systems units for each classroom noted above.                  b. Pre-disaster condition: The existing air conditioner units above mentioned served the purpose of conditioning the classrooms. The cooling capacity is analyzed below for the area, however given the type of units, the fresh air requirements were not met. All units are connected to the same electrical branch circuit and the panelboard has spaces for additional branching.                  c. HVAC BBA Work required: For estimating purposes, install outside air compliant direct expansion (DX) A/C units as detailed below, in place of all items described in disaster related damages components of HVAC system described above for capacity to meet air exchange standard. For enclosing of Air Handling Unit (AHU), construct a mechanical closet made of insulated gypsum board walls (3 sides) and a minimum 1hr fire rated hollow metal door to install necessary AHU with DX compatible coil and corresponding appurtenances such as: support base, Louver for fresh air w/ damper, supply register w/ opposed blade damper, galvanized ductwork, return air side louver, drainage piping, thermostat, ½" EMT conduit for thermostat control, insulated DX piping and communication cable to connect to condensing unit (CU).                  d. Electric Power BBA Work required: In addition to the interior work, exterior rooftop installation (where possible) of the condensing unit will be necessary to complete the refrigeration system needing connection of DX piping from interior (approx. 30 Ft. run) Air Handling Unit (AHU), 3#18 control cable from AHU, 5/16" clear coated galvanized two-way tie down wires. For the electrical scope both units need dedicated circuits directly from the panelboard, consider the following: 1) AHU - route new branch circuit from panelboard with 3#10 THWN copper wire in ¾" EMT including disconnecting means (equal or similar to a 30amp Safety switch) with flexible conduit to power the unit and 2) CU – route new branch circuit from panelboard w/ 3#8 THWN copper wire in ¾" EMT for interior and RGC when exposed to exterior and/or to impact, including disconnecting means (equal or similar to a 30amp Safety Switch) with flexible conduit to power the unit. Please account for the demolition for penetrations as well as the necessary masonry. See BBA Report.</p>		
<b>HMP 406</b>		
Roof Mitigation (supplementary):		
1. Install additional fastener for 700 SF of corrugated metal roofing. Increase fastener pattern to include on average 36 additional fasteners per 1 Square (or 100 SF) 700 SF / 100 = 7.00 SQ		Work completed,
2.Add aluminum hangers to increase the average of hanger distance from 6FT to 3 FT of 100 LF of gutter.		Inspection of work
Power Surge Mitigation (supplementary):		

3. Install a panel mounted surge protector, similar to Square D Surge Protective Device, 120/240VAC, on the distribution circuit panel to protect from voltages surges every electric equipment in the facility Exterior paint Mitigation (supplementary):	to comply with  HMP and prepare  closeout report.
4. Replace 1,010 SF of PA exterior paint first and second coat with waterproof sealer paint (first and second coat). The cost estimate will appear as supplementary cost	

16. DI 263859 - Edificio 803 Pabellón de Animales Pequeños Rumiantes

a. Original Scope

<b>PA 428</b>		
<b>Building Damage:</b>		
{00-001} Roofing System:		
A. Remove and replace 144 SF of corrugated zinc metal	144	SF
B. Remove and replace 1 each of automatic rooftop turbine ventilator	1	EA
{00-002} General:		
A. Remove and replace 1 each of light fixture, wall pack, 1000W	1	EA
B. Remove and replace 1 each of light fixture, high pressure sodium, cobra head, 250W	1	EA
<b>HMP 406</b>		
NO HMP		

17. DI 264275 - 020-444 Site

a. Original Scope

<b>PA 428</b>		
<b>Facility Damage:</b>		
Bomba Pozo de Riego:		
A. Remove and replace in-kind 144 SF of Roof, corrugated galvanized metal	144	SF
<b>HMP 406</b>		
1. Install additional fastener for 144 SF of steel deck roof. Increase fastener pattern to include on average 36 additional fasteners per 1 Square (or 100 SF) $144 \text{ SF} / 100 = 1.44 \text{ SQ}$	144	SF

**END OF SECTION**

## 23. APPENDIX G

### FEMA Alternative Procedures

PLEASE [CLICK HERE](#)

## 24. **APPENDIX H**

**Existing Drawings, Photos, Method of Repair (MOR) and  
Record of Environmental Consideration (REC)**

PLEASE [CLICK HERE](#)

**END OF DOCUMENT**