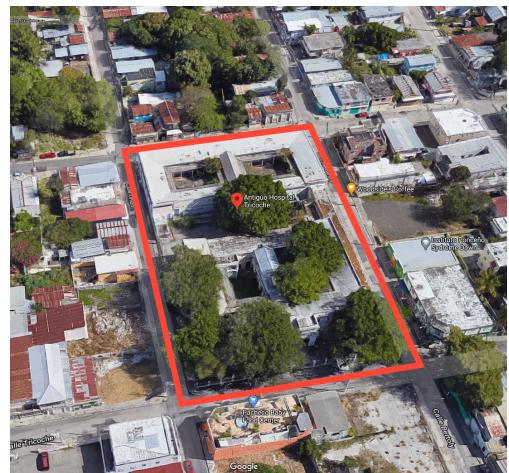
# Programming and Conceptual Design Tricoche Community Center, Ponce FEMA Safe Community Room Mitigation Grant



### **Tricoche Community Center**

This project is a collaboration between resilientSEE-PR and Voluntariado de Ingenieros to assist Once Stop Center in developing a conceptual program and design with cost estimation feedback to transform a historic registry building into a community center. The center transforms into a shelter in time of emergency.

The scope includes gathering technical information and design conceptualization needed to secure a \$8.5M FEMA Mitigation Grant for Community Safe Room.



Old Tricoche Hospital, Ponce, Puerto Rico

#### Team



FAIA, Principal, Perkins and Will / Co-fundadora resilientSEE-PR



Diseñadora, RISD and University of Illinois Design Critic in Architecture / resilientSEE-PR

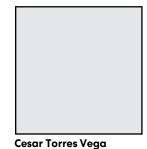


P.E., Life Safety, Code Red Consultants

Christopher Lizewski



Architect & Planner, Puerto Rico



Executive Director, One Stop Career Center of Puerto Rico, Inc.

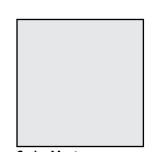


Executive Director, One Stop Career Center of Puerto Rico, Inc.



Jesabel Rivera

MPH, CHES, Community Impact & Engagement Solutions, Co-fundadora Voluntariado de Ingenieros



Carlos Montenegro

PE, Ingeniero Estructural, Voluntariado de Ingenieros



**Luiber Lugo** 

Contratista / Voluntariado de Ingenieros

## **Tricoche Community Center**

Location: Ponce, Puerto Rico

**Client:** One Stop Center

Former Tricoche Hospital is part of the Department of Interior Historic Monuments Registry. Of Neoclassical style and built by the Spanish Corp of Engineers in built in 1873 and 1928, the building has 4 courtyards. Mr. Tricoche's Testament leaves the structure to the Municipality to be used as a community asset.





Old postcard likely from the 1873 original construction before the collapse in the 1918 earthquake which prompted the 1928 reconstruction.







Existing Conditions: plans and photos provided by SHPO and the Ponce Municipality

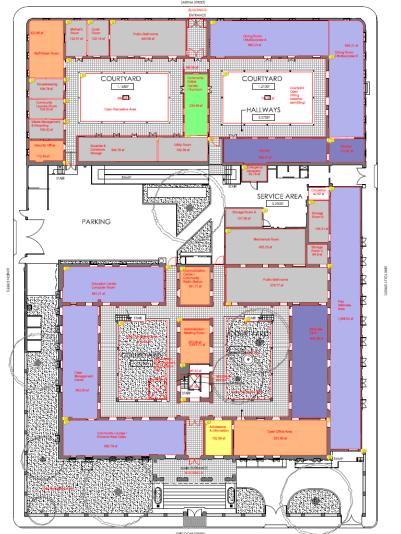
A flexible and adaptable program supports a yearround community center to strengthen emergency preparedness.

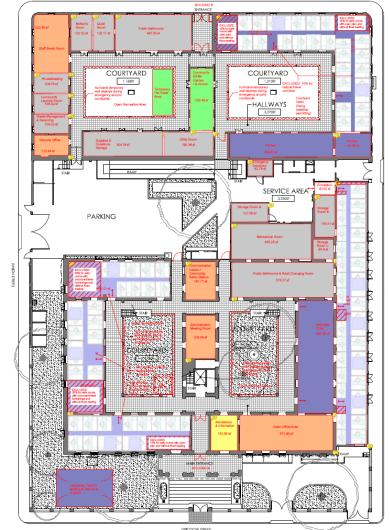
Former Tricoche Hospital - Community

Conceptual Program includes "Blue Sky" days and Shelter transformation.

### **Ground Level**

"Blue Sky" & Emergency Shelter Plans

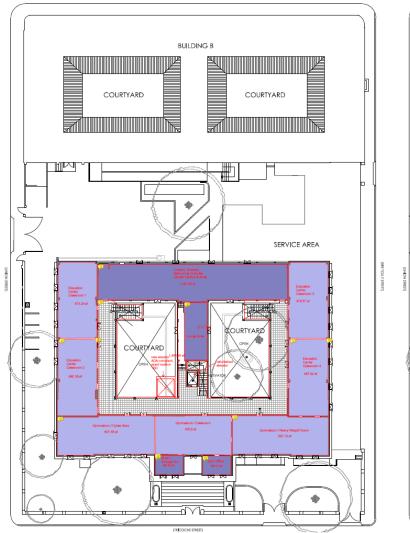


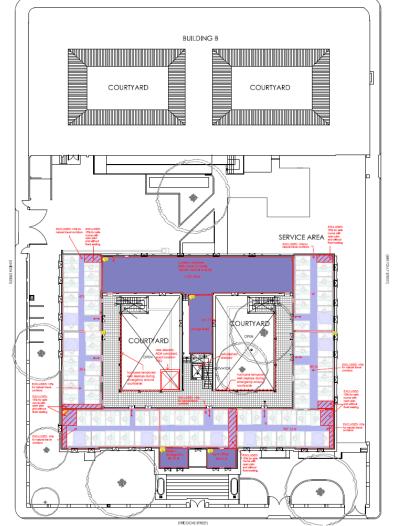


(ARENA STREET)

### **Second Level**

"Blue Sky" & Emergency Shelter Plans





### **Structural and Cost Estimate Recommendations**



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Structural recommendations include creating an independent structure from the historic building envelope and stabilizing the non-reinforced masonry walls.

Cost estimate recommendations include structural stabilization, contingency for unknown problems and focus on life safety issues for the FEMA grant.

Preliminary Estimate Cost - Community Safe Room Hospital Tricoche - Ponce, PR					
Administrative costs. In house architect for contract document review, contract award and supervision, permit coordination with agencies for 3 years Estimate on Colegio de Arquitecto y Agrimensores	Administrative and legal expenses	Contract for its service.	1	\$180,000.00	\$180,000.00
Prepare Operation and Maintenance plan and training	Administrative and legal expenses	Contract Services	1	\$25,000.00	\$25,000.00
RFP for Hiring of Draftperson, Civil Engineer, Structural, electrical, Mechanical, FireProof and Specialties. Cost per construction .	Architectural and engineering fees	monthly	6	\$77,350.00	\$464,100.00
Preparation of final construction cost by independent estimator, Review of plans by Independent code compliance Firm. Supervision by Engineers during construction phases	Other architectural and engineering fees	yearly estimate	3	\$90,000.00	\$270,000.00
Hiring of Geotechnical Engineer for soil report.	Other architectural and engineering fees	Service Contrac	1	\$50,000.00	\$50,000.00
Inspection of project by full time Licensed Engineer or Architect - Regular Fee in Puerto Rico	Project inspection fees	yearly	3	\$36,000.00	\$108,000.00
Repair of pavements, construction of dumpster walls, repair of water meters, sanitary boxes, drainage boxes, connectors to electrical system, repair of fences and gates, stairs and ramps. clearing and disnosal	Site work	months	3	\$90,000.00	\$270,000.00
Demolition and removal of partitions, debris, metal roof, wood planks, and deteriorated doors and stalls	Demolition and removal	lump sum	1	\$65,000.00	\$65,000.00
Construction and retrofiting of Building A and B. Reinforcement of foundations, walls and root, Retrofitting of systems, electrical, Plumbing, Mechanical, AC, Fire System, Emergency Generator, Solar System, Water Cisterns, Elevators, Hurricare shutters, and finishes such as floors, windows, doors, partitions, repair stairs, floors, signage, kitchen and bathroom equipment and paint, in 44,000 s.q. in 44,000 s.q. in 44,000 s.q. in	Construction	sq ft	44000	\$142.50	\$6,270,000.00
Chairs, mobile divisions, plexiglass dividers	Equipment	lump sum	1	\$148,900.00	\$148,900.00
Handicap signage, traffic paint, wall protection, shelves, blackboards, bulletin boards, alarms and sensors.	Miscellaneous	lump sum	1	\$149,000.00	\$149,000.00
Hidden conditions in Existing building or unforeseen conditions for being a historic	Contingencies	lump sum	1	\$500,000.00	\$500,000.00

This preliminary Cost Estimate identifies the task to be performed. Because of limited design information available, preliminary estimates are based on construction rules of thumb, gross square footage for buildings similar in type, and recommendations by professional Architects, Engineers, and Contractors.