

THE D, E, F, AND G'S OF EOC'S

Lessons Learned in Building an EOC – A Case Study on the Terrebonne Parish EOC and Safe Room

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WARDE STREET, INC. Former EOC Facility

CASE STUDY: TERREBONNE PARISH EOC FACILITY



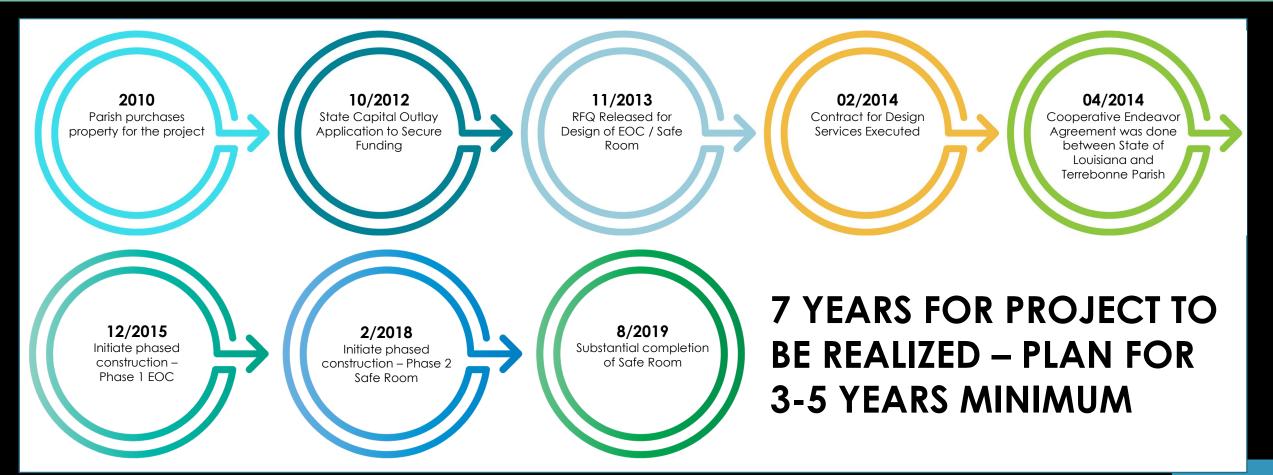
Existing EOC Deficiencies

- Building not hardened
- Located in a flood plain
- Inadequate space Operating out of approximately 3,000 SF
- Inadequate technology

- Unprotected systems infrastructure
- Insufficient restroom facilities
- Not enough parking

EVOLUTION OF PROJECT: TERREBONNE PARISH EOC FACILITY AND SAFE ROOM

PROJECT TIMELINE



EVOLUTION OF PROJECT

Phase 1 Construction – EOC

- 12/2015 Notice to Proceed given to your selected contractor for the EOC
- 02/2016 Ground Breaking for the EOC
- 03/2017 Substantial Completion of the EOC
- 04/07/2017 MOVE IN DAY for the EOC!



Phase 2 Construction – Safe Room

- 02/20/2018 Notice to Proceed given for the Safe Room
- 08/08/2019 Substantial Completion for the Safe Room
- 10/01/2019 MOVE IN DAY for the Safe Room!

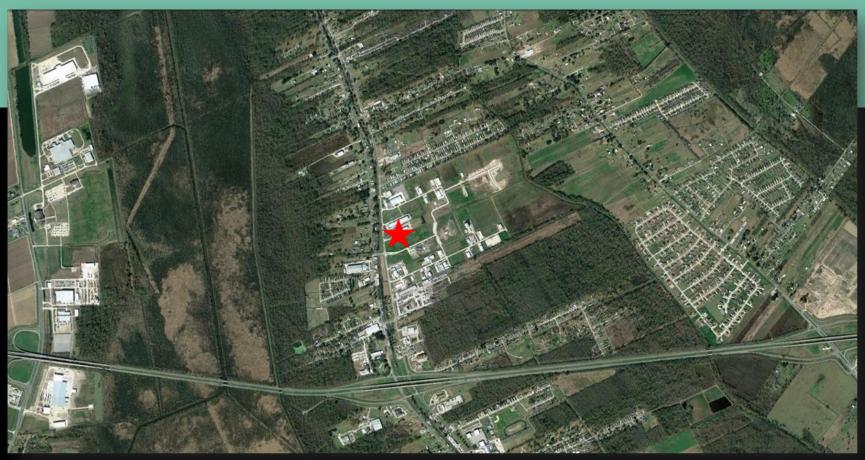




PHASE 3: OPERATION & ACTIVATION

Activations

- Pandemic Activation Activities
- Hurricane Ida (2021)
- Hurricane Marco (2020)
- Hurricane Laura (2020)
- Hurricane Delta (2020)
- Hurricane Zeta (2020)
- Hurricane Barry (2019)



2010 – Parish purchases property on Highway 24 North for new Emergency Operations Center as part of Government Center



PROJECT FUNDING FOR THE EOC

- \$3.06 Million from Parish General Fund
- \$4.34 Million from Capital Outlay Funding Request



PROJECT COSTS FOR THE EOC

- \$ 551,774 Architectural/Engineering
- \$ 6,012,684 Construction
- \$ 510,639 Audio/Visual
- \$ 96,755 Furniture
- \$ 299,199 Temporary EOC
- \$ 7,374,299 TOTAL COST

Cost in today's dollars: \$10M Cost of property: \$5M



PROJECT COSTS FOR THE SAFE ROOM

- \$ (See EOC) Architectural/Engineering
- \$ 2,352,460 Construction
- \$ (Included) Audio/Visual
- \$ (Included) Furniture
- \$ 2,432,460 TOTAL COST

Cost in today's dollars: \$3.2M Cost of property: Included in EOC

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- Precast walls / conc. roof deck, single-story
- EOC: 11,864 SF
- Safe Room: 3,893 SF
- EOC: IBC Risk Cat. V. Wind Speed of 180 mph, Level E impact resistance level
- Safe Room: FEMA Grant Wind Speed 190 mph, 100 mph impact speed
- Separated Functions, co-located redundant utility sources
- Connectivity for normal & activation uses



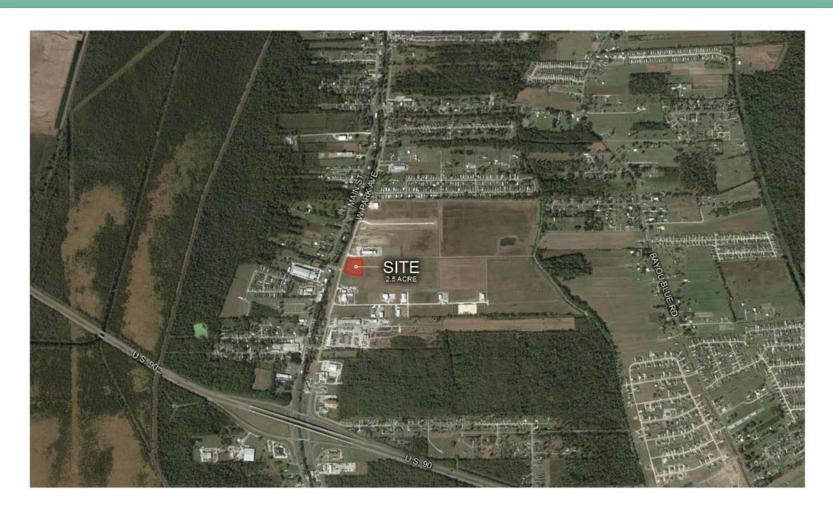
Space Needs Assessment Plan for current need Plan for future expansion: • Population growth

- Expanded responsibilities
- Accommodating other governmental functions

Program / Design Space Comparison Executive Summary Terrebone Parish Emergency Operations Center Terrebone Parish, Louisiana ADG Project Number: 892-12

		Space Designation	Space Requirements (square feet)		
General Notes	No.	Space Function	Approved Program	Current Design	Surplus / (Deficit)
	1.0	Public Access Areas	582	887	305
	2.0	Emergency Management Administration	1,922	1,719	(203)
	3.0	Emergency Operations Center	4,150	4,198	48
	4.0	Facility Support	2,938	2,615	(323)
	5.0	Facility Services	750	1,591	841
	6.0	Total Gross Sq. Ft.	10,343	11,010	667
	7.0	Enclosed Parking	2,250	1,431	(819)
	7.1	Covered Parking Alternate		486	486
	8.0	Covered Break Area		875	875

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May 28, 2014

ORIGINAL SITE PLAN



CURRENT AERIAL WITH THE ANIMAL SHELTER AND JUVENILE DETENTION CENTER





SITE DEVELOPMENT DATA:

EOC: COMMUNICATIONS / SAFE ROOM:	10,418 SF 6,100 SF
TOTAL:	16,526 SF
SITE AREA 2.5 ACRES (PROPOSED	SITE AREA)
PARKING COUNT PROV SECURED: NON-SECURED:	IDED 52 7
TOTAL SPACES:	65
	28
SECURED SPACES: PUBLIC SPACES:	28 7 35
REQUESTED PARKING SECURED SPACES: PUBLIC SPACES: TOTAL SPACES:	7

EMERGENCY OPERATIONS CENTER - TERREBONNE PARISH, LA ARCHITECTS DESIGN GROUP IN ASSOCIATION WITH HOUSTON J. LIRETTE, AIA

SITE PLAN May 28, 2014



PHASE TWO – SAFE ROOM

PHASE ONE – EOC







Initial Construction – Site Work







Initial Construction – Foundations and Structure







Initial Construction – Building and Comm. Tower













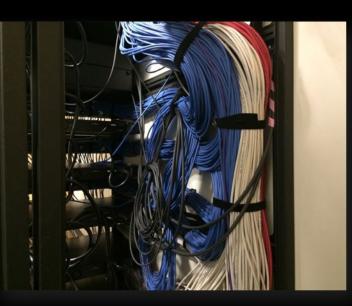
Completed Facility – Protected Redundant Systems

















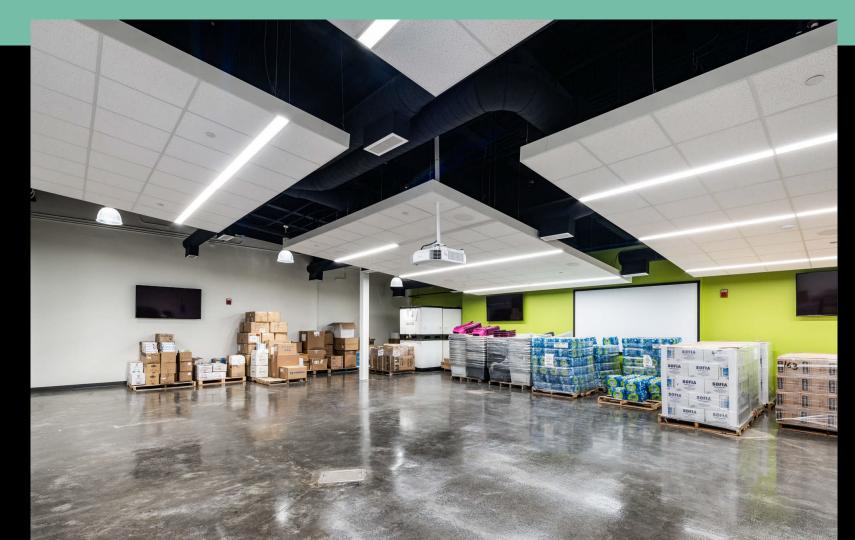


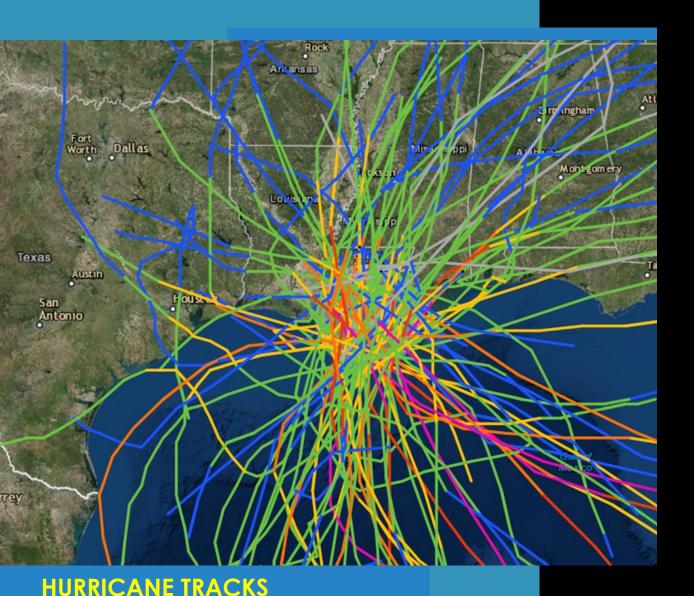








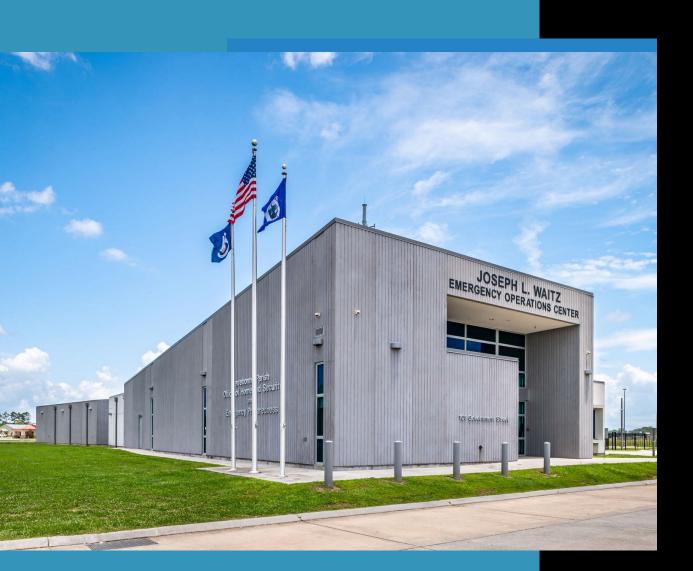




1. Officials recognized the need.



2. Buy-In from State Legislature for Funding



3. Need for a Survivable Structure



4. Designed to Function as a Multi-Use Space



LESSONS LEARNED - EOC

- Need to utilize an architectural firm that specializes in Public Safety Building design
- Utilize a commissioning agent
- Plan for 2x more storage than you think you will need
- Future maintenance and operation costs
- Plan on additional costs to update technology in the future
- Would have doubled the size of the server room due to so many outside agencies requesting to use it as well
- Additional tower capacity to provide additional revenue stream / Increased height of communication tower for additional users / capacity.



LESSONS LEARNED – SAFE ROOM

- Focus on flexibility (storage, workspace, training, and safe room bunking functions)
- Provide adequate access for palletized storage with forklift
- Isolate wet systems (plumbing and HVAC) from occupied areas
- Plan for social distancing (may require additional area)



ADDITIONAL LESSONS LEARNED -ACTIVATION

- Ensure pressurized water source
- Provide backup generator to the backup generator (N + 1 + Mobile Generator Connection)
- Parking must have strategy for substantial increase in parking needs during activation
- Accommodate protected garbage
 dumpster capacity for activation
- Additional Spaces Needed
 - Office Space for Partner Agencies
 - Quiet Room / Decompression Room
 - Full Kitchen and Additional Dining Area



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