



A Diorama Project

AMPS Central SC

"Wildcats" Chapter





Agenda

- Introduction
- Project Background, Basic Research, Basic Construction
- Example of Organizational Research Influence on the Diorama and the Models
- Example of Technical Research Influence on the Diorama and the Models
- Audience Q&A
- Conclusion





Introduction

Members of the Panel:

Mike Roof Ralph Nardone Jeff Nelson

In the audience we have a number of other club members who contributed and worked on the diorama. They will be able to assist in answering particular questions.

Our objective today is to provide you with an overview of the FSB RIPCORD diorama project with an emphasis on how we researched it and how that research guided the design and construction.





Project Background

- Initial Approach by Museum: July, 2017
- Commission Specs: FSB RIPCORD in 1/72 scale
- Scale is the ratio between the real world measurement and the same measurement made on the model. Here 1" on the model equals 72" inches in the real world.
- The feasibility of the project was assessed, and we determined if we could actually build a diorama to accurately represent FSB RIPCORD.





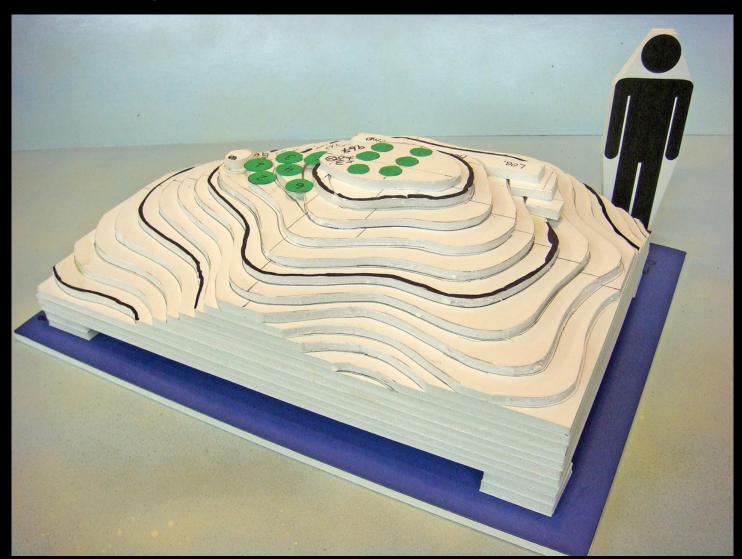
Project Timeline

- Initial contact by the museum: June-July, 2017
- Project put on indefinite hold: September, 2017
- Museum re-contacted us: August, 2018
- Club voted to reaccept the commission: September, 2018
- Construction started: October, 2018
- Diorama delivered to the museum: March, 2020.





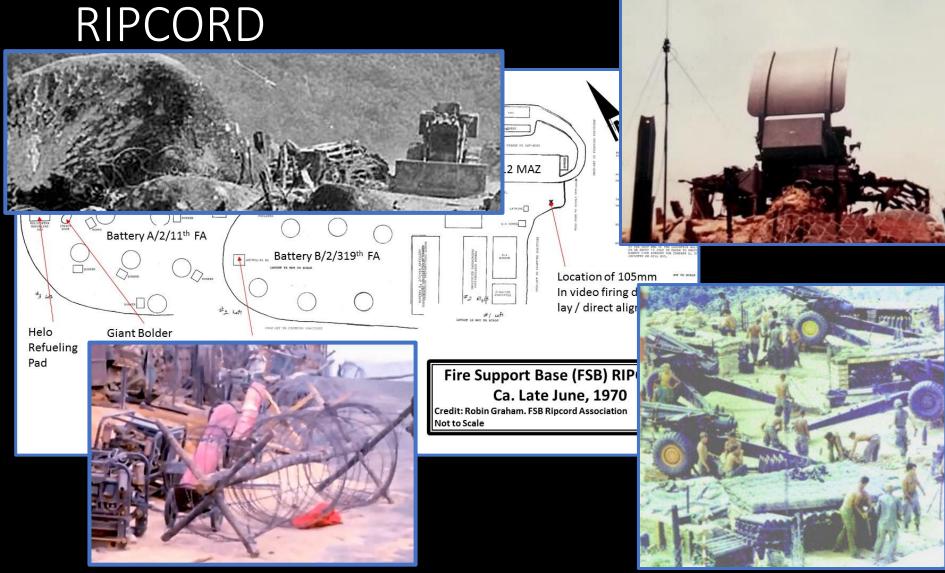
Planning Model of the Model







Signature Items and Features on







Basic Research

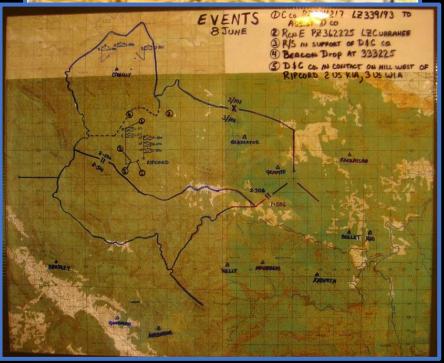
- Precisely locate FSB RIPCORD and understand the surrounding terrain.
- Estimate the scaled size of the base.
- Identify the key signature terrain and man-made features that were unique to FSB RIPCORD
- Determine what commercial scale models were available and what features we would have to make from scratch.
- Devise the method of construction.
- Commission was accepted on an "exact cost basis" with all labor donated.

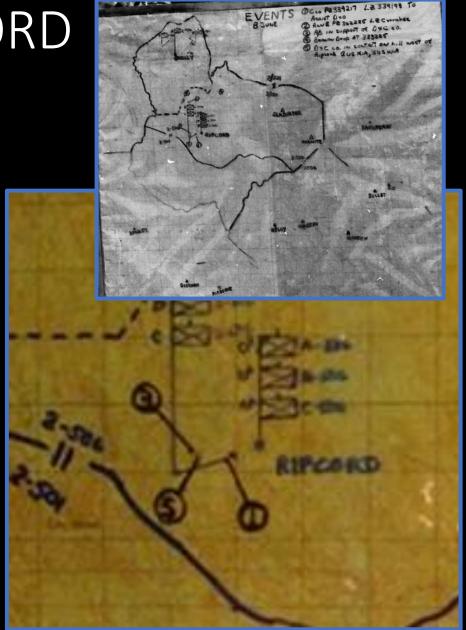




Locating FSB RIPCORD











Estimating the Size of the Base







Basic Construction

- Construction was planned from the beginning so that the diorama could be transported to the museum and then moved through the doors.
- 1" thick foam board was cut following the contours from the topo map and stacked, "layer cake" fashion to make the basic land form.
- Man-made features, like the bunkers and other positions, were made from scratch out of stock styrene plastic and epoxy putty.
- Many of these man-made features were duplicated using urethane casting resin poured into rubber molds.





Basic Construction













Nodeling the Signature Items and

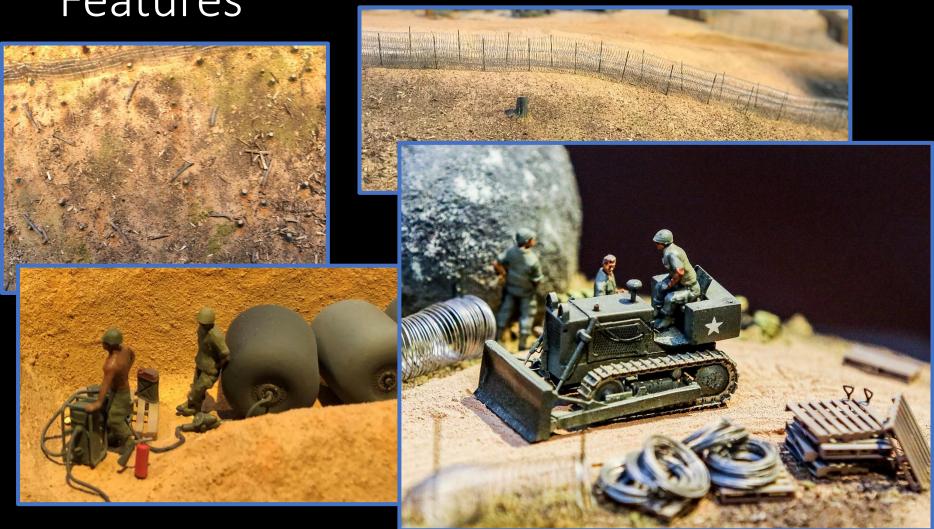






Modeling the Signature Items and

Features







Moving and Installing the Diorama







Final Installation







Examples of Unit and Technical Research on the Diorama and Models

Ralph Nardone: Research on the 101st Aviation Units that made FSB RIPCORD possible.

Jeff Nelson: Detailed research and construction of a signature item, the AN/MPQ-4A Counter-Mortar Radar.