



**AMELIA EARHART**

**= HANGAR MUSEUM =**

# About the Hangar Museum

- The Hangar Museum project began in 2016, when the Foundation purchased *Muriel*, the last-remaining Lockheed Electra 10-E aircraft in the world – the exact same model Amelia flew on her final, fateful flight around the globe. Looking to create a space worthy of Amelia’s and *Muriel*’s respective histories, the Foundation embarked on creating a museum like no other, where visitors of all ages will be inspired and will learn more about recreational and professional aviation through topics in engineering, history, math, science, and technology.
- The Foundation constructed a 1920s barrel-top hangar on the grounds at the Amelia Earhart Memorial Airport (K59) to act as home to the Hangar Museum, as well as a terminal space for pilots and a Fixed Base Operator. The 17,000 square foot facility was completed in 2019.



# Mission and Vision

- To inspire the next generation of leaders and aviation professionals through the story of Amelia Earhart's tenacity and determination to overcome obstacles on her journey as one the first female pilots
- To encourage visitors to learn about and consider careers in aviation, technology engineering, math and other innovative disciplines while distinctively transcending a typical museum experience



# Learning Through Play

- Each exhibit and activation inside the Museum is outfitted to National Curriculum Standards.
- We aim to welcome 75,000 guests to the Museum annually, with a large cohort of those visitors being students.
- We have created Teacher Education Guides that include materials making it easy for educators to plug our content into their yearly plan, making the Museum an obvious destination for a field trip.
- Our desire is to welcome all students to learn about aviation, education, and exploration, no matter their socioeconomic background or ability to pay. The Foundation aspires to create an endowment fund that directly benefits Title I schools through a field trip grant program.



# Exhibit 1: Meet Amelia

- A life-size, computer-generated Amelia Earhart welcomes guests to the Hangar Museum.
- Amelia, full of zest and excitement, tells of her adventure and briefs visitors on what they are about to experience.
- The Meet Amelia Exhibit is made possible by Lockheed Martin



**MEET  
AMELIA**

Aviation • Education



# Meet *Muriel*

- *Muriel*, the world's last remaining Lockheed Electra 10-E, is the centerpiece of the Museum.
- She is identical to the plane Amelia Earhart flew and disappeared in during her famous flight around the world in 1937.
- One of 14 Lockheed Electra 10-Es made



# History of *Muriel*

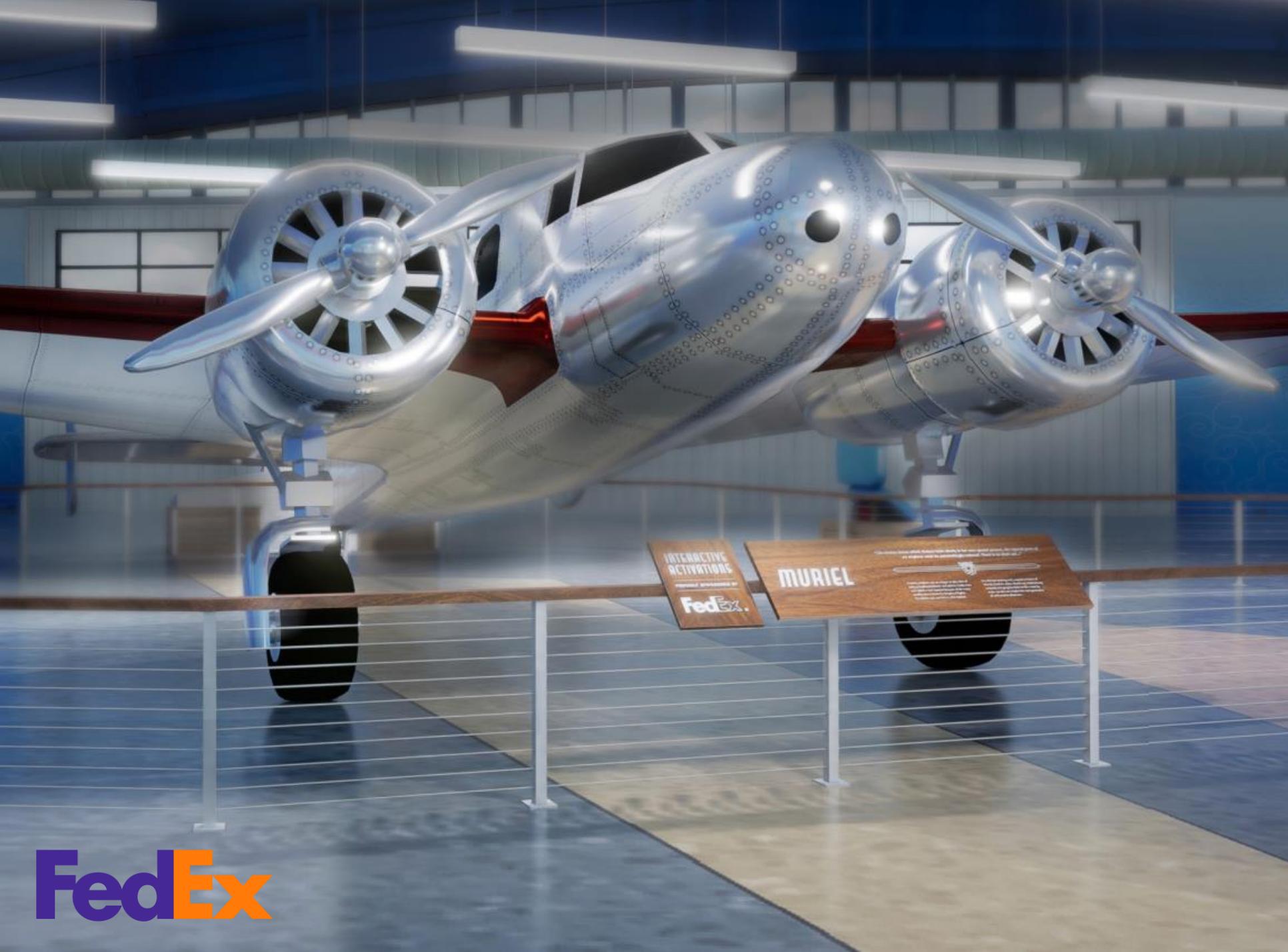
- Flew commercially for Pan Am Airways between Brazil and Argentina for 20 years during WWII
- Flew Cape Cod/Boston/New York Routes for Providence Boston Airways in 1956
- Used for skydiving operations in 1970s
- Sold and stored at Wings and Wheels Museum, where was almost sold for scrap metal
- Purchased by private individual and restored over the course of 30 years



# History of *Muriel*

- Named *Muriel* in honor of Amelia's younger sister, Grace Muriel Earhart Morrissey
- Purchased by the Foundation in 2016
- Moved into final resting spot within the Museum in 2019
- The *Muriel* Exhibit is made possible by FedEx





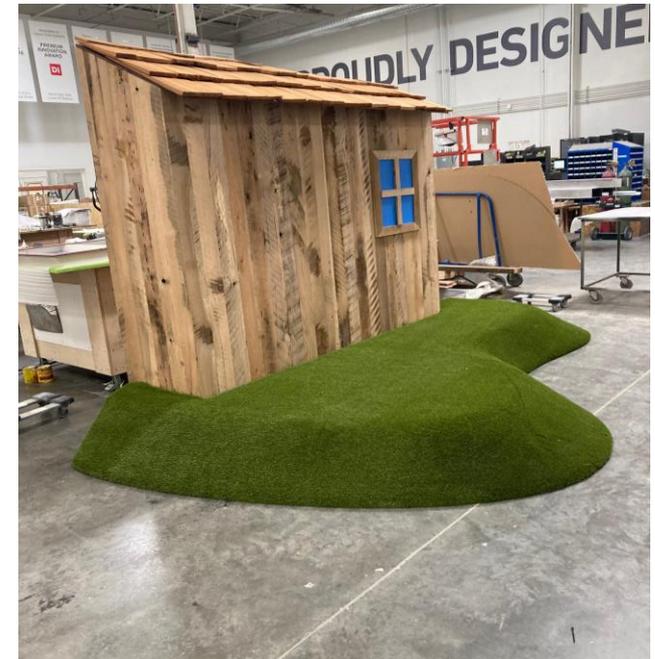
INTERACTIVE  
ACTIVATIONS  
powered exclusively by  
**FedEx.**

**MURIEL**

...the world's first biplane to be used for...  
...the world's first biplane to be used for...  
...the world's first biplane to be used for...

# Growing Up and Childhood

- Amelia attended the 1904 World's Fair in St. Louis as a young girl, where she was not allowed to ride a rollercoaster due to her gender.
- Refusing to take “no” for an answer, Amelia and her sister Muriel returned home where they built a roller coaster of their very own.
- Guests will discover physics at work through the creation of their own roller coaster on a touch screen. A modern coaster moves via crank, with panels that detail energy and work as well as the neurological components that cause people to search out adventure.



# Amelia's Scrapbook

- Young Amelia kept many scrapbooks and journals, often filled with inspirational women of her time. A stand-alone digital scrapbook entices guests to flip through and view these women for themselves, with certain pages being extracted from Amelia's own journals that now reside at Purdue University.
- The Childhood and Scrapbook exhibit is made possible by the Guy I. Bromley Trust



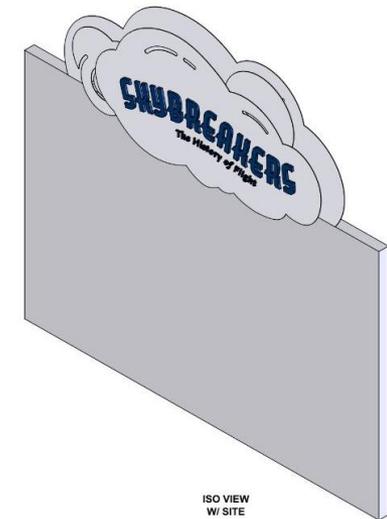
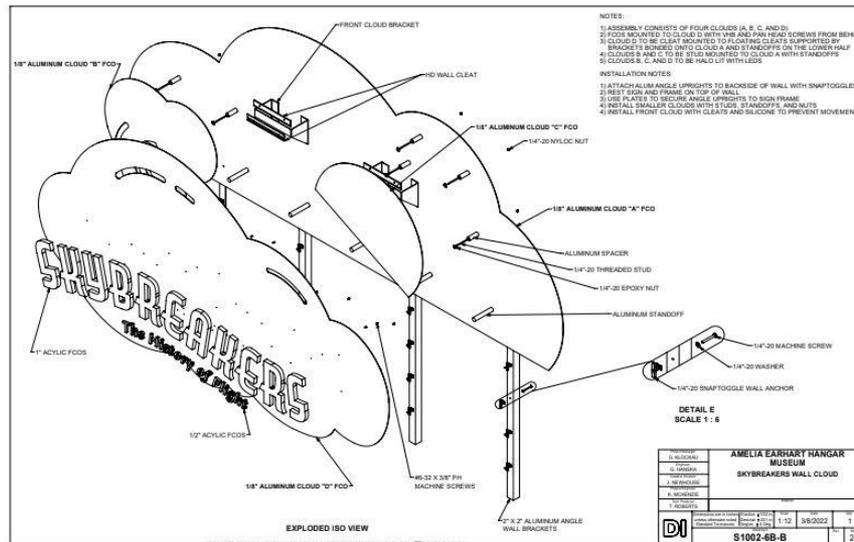
# Careers

- Learn about Amelia's winding career path through augmented reality dress up while a video of Amelia speaks on the center screen.
- An avatar of the visitor is dressed as Amelia did as a pilot, a mechanic, a nurse, and a fashion designer.
- The outfit transitions from a 1920s uniform to a modern-day version of that career to inspire visitors about their own career path.
- The Nursing Career is made possible by Amberwell Health.



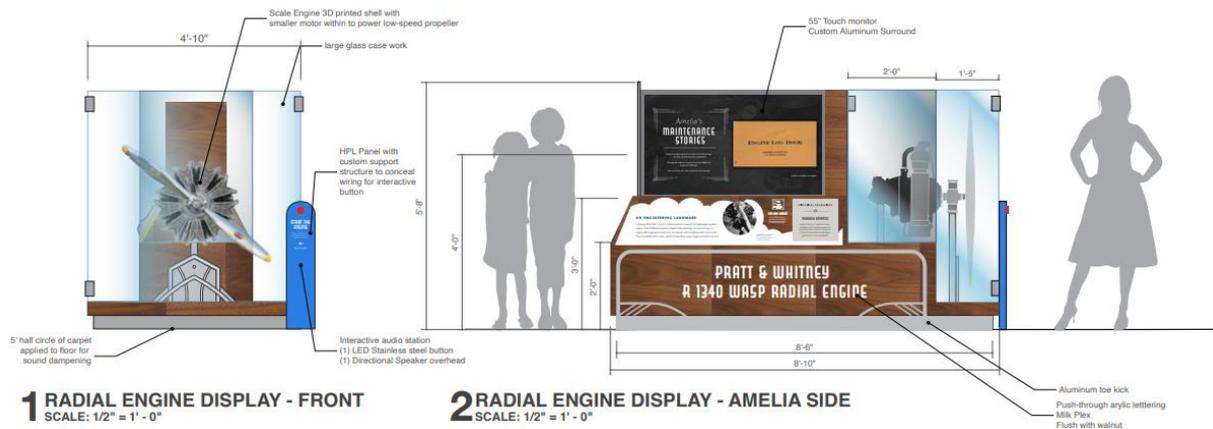
# Skybreakers: History of Flight

- Rounding the tail of the aircraft, visitors interact with an aviation and space timeline in conjunction with Amelia's timeline.
- Six holograms of different types of aircraft hover above the display, bringing history to life.



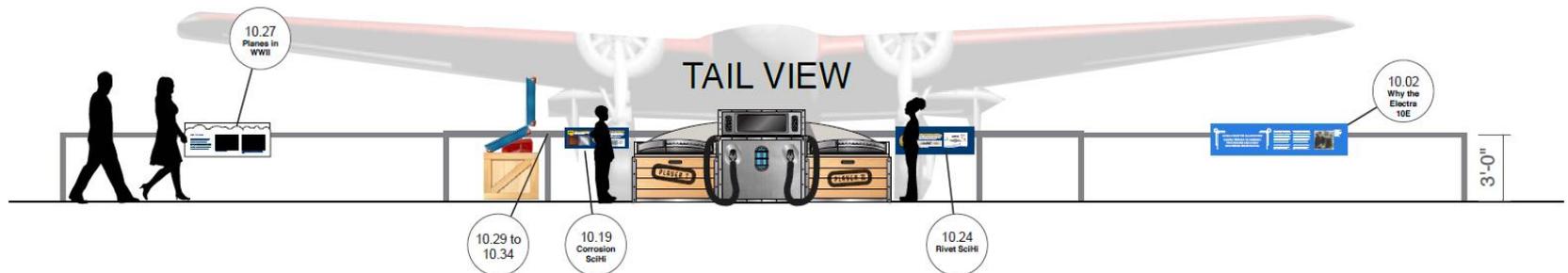
# Engine Interactive

- A Pratt & Whitney R 1340 WASP radial engine model features two touch screens, one with Amelia's stories of maintaining her own airplanes and one explaining the innovative engineering that made this engine the best in its class.
- A Pratt & Whitney Geared Turbofan engine model features one touch screen that allows visitors to disassemble and reassemble the engine components, highlighting the engineering advances since Amelia's era. On the opposite side of the engine, visitors view a cross-section of the engine's interworkings.



# Riveting Interactive

- Visitors participate in a riveting game to see how efficiently and precisely they can drive rivets into the metal skin of the plane.
- A two-player experience, visitors compete to see how long it would have taken them to refurbish *Muriel*, placing each rivet individually.
- We estimate that *Muriel* has over 85,000 rivets!



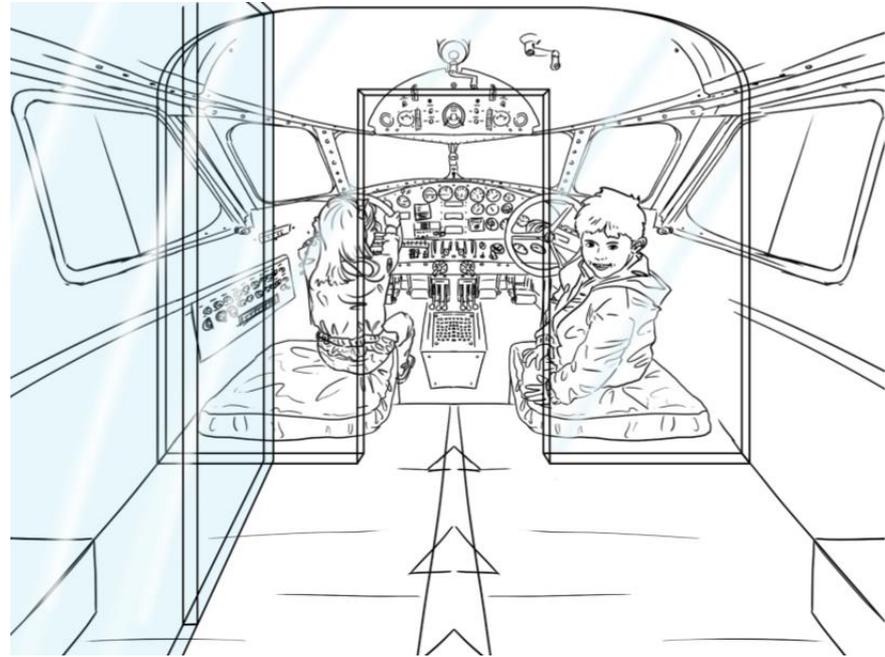
# Uplifting Influencers

- Ten-foot panels flank the hangar door featuring four people who had tremendous impact in Amelia's life: Neta Snook, her close friend and first flying instructor; George Putnam, her husband and confidant; Eleanor Roosevelt, First Lady of the United States and aspiring pilot; and Fred Noonan, navigator and companion on her fateful flight.
- Original design concept, below.



# Cockpit and Fuselage Replica

- A replica of the Electra cockpit sits on the floor for a personal, intimate experience with Amelia's "cubbyhole".
- A 1:1 scale model, the cockpit exposes visitors to the small space Amelia would have flown in for hours straight, with engines roaring on either side.



# Feminine Feats

- The “Feminine Feats” exhibit permanently honors six women with great aviation achievements: Jackie Cochran, Bessie Coleman, Beryl Markham, Ruth Nichols, Louise Thaden, and Fay Gillis Wells.



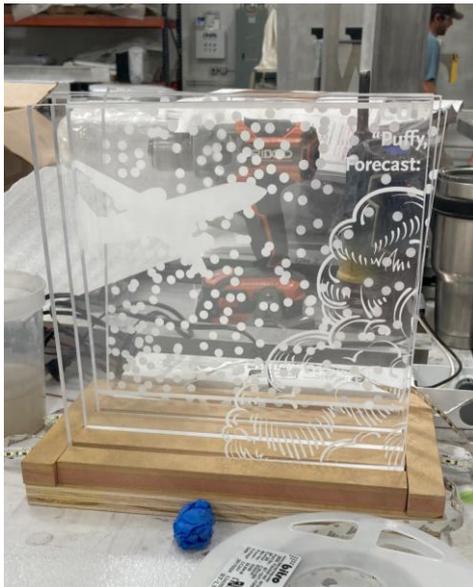
- A touch screen panel rotates through modern-day female pilots and astronauts and can be updated into the future as women continue to pursue their dreams and break the glass ceiling.





# Layers of the Atmosphere

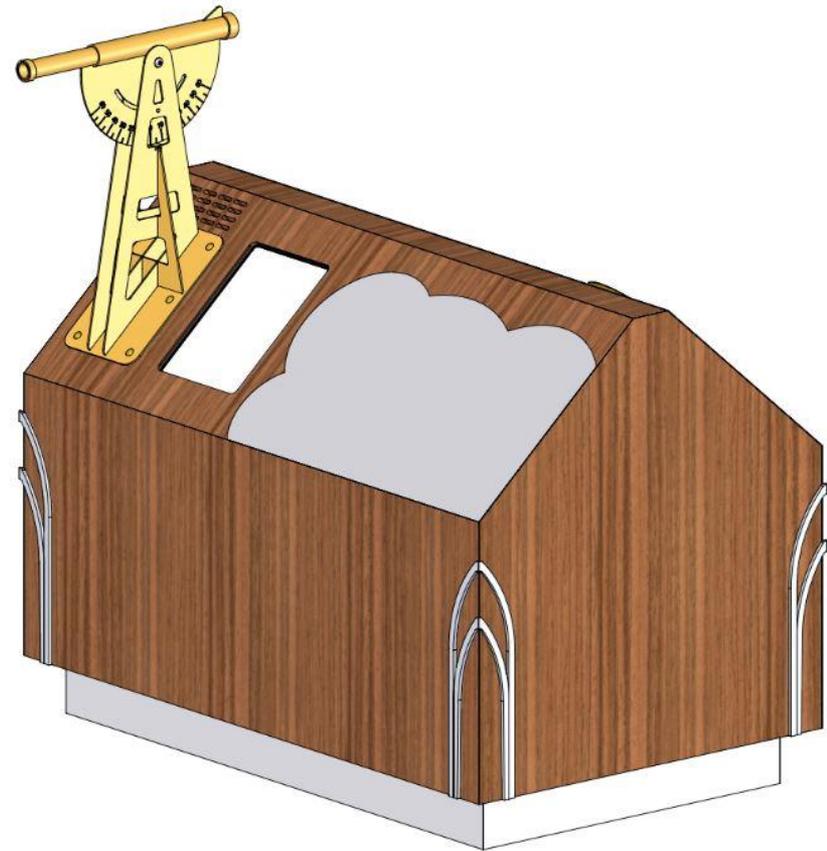
- Atmospheric pressure and other factors that influence a pilot's decision today are displayed on an interactive panel.



PERSPECTIVE VIEW

# Star Mapping

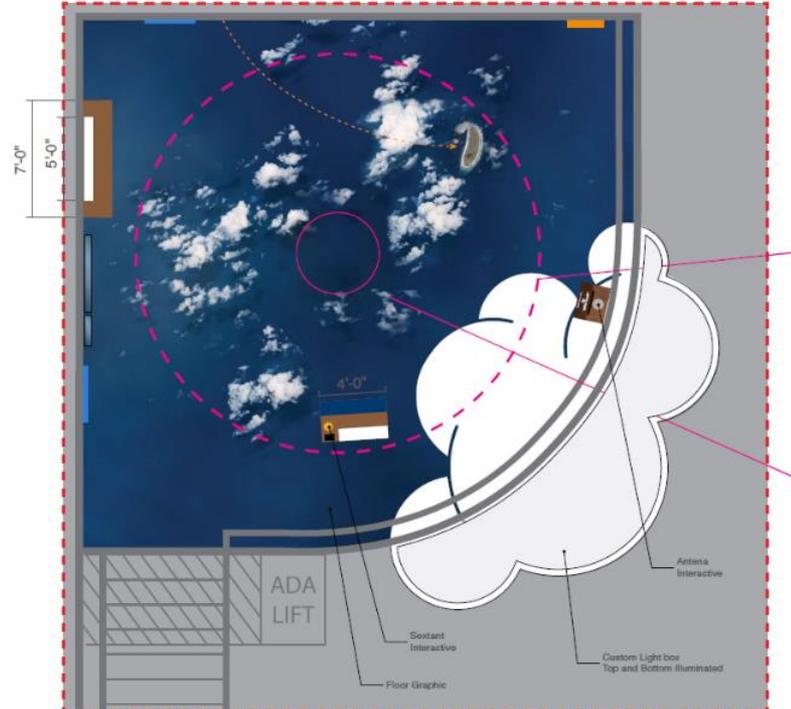
- Learn how to navigate like Fred Noonan, trying your hand at using a sextant!
- A touch screen walks you through the process Fred followed to map the stars, including quick calculations based of geometry and calculus.



PERSPECTIVE VIEW

# Constellation Cloud

- In the center of the mezzanine is a six-foot interactive tabletop that allows guests to interact with the constellations.
- Buttons on the table, when pushed, light up the 35-foot constellation cloud above!
- Corresponding information about the constellation is shown on the screens in the center of the table.



01 MEZZANINE PLAN VIEW  
SCALE: 3/16" = 1' - 0"

# What Happened to Amelia?

- Reaching the climax of Amelia's fateful flight, visitors discover her final radio message between her Electra 10-E and a passing ship, a plea for help as she attempted to locate Howland Island.
- Theories abound from Amelia's disappearance in 1937! We present seven theories, explaining arguments for and against each so that you may decide!
- While we may never know the truth, visitors vote for the theory that they think is most likely!
- What Happened is made possible by the Stauffer-Jambrosic Foundation



# Virtual Reality Flight

- You are invited to fly Amelia's Lockheed Vega 5B on a virtual reality recreation of her 1932 transatlantic flight.
- Choosing between easy and challenging modes, the pilot will navigate the plane through a series of events the Amelia flew herself, ultimately arriving on a runway in Paris, France (success, stayed on course!) or in a field in Londonderry, Ireland (failure to stay on course, like Amelia).
- The Virtual Reality Flight is made possible by the Donn Lux Family.

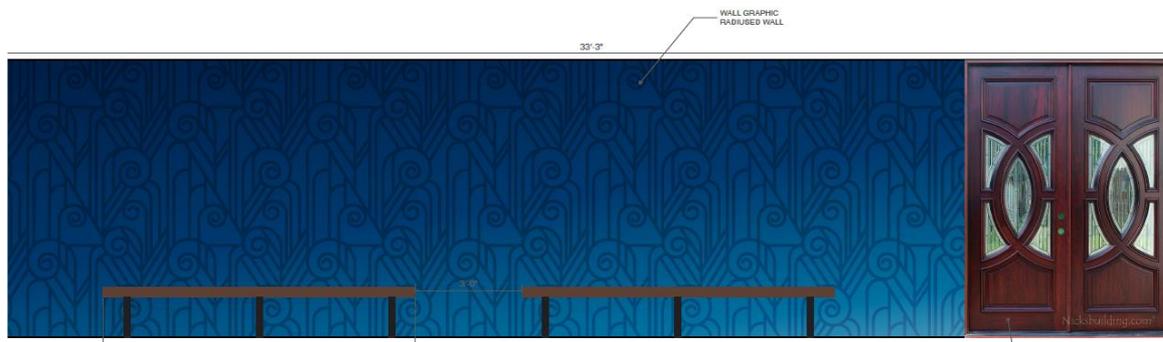


# Follow Your Dreams!

- Before exiting the Museum, guests will view a closing video, challenging them to chase their dreams like Amelia chased hers.
- The exit video is made possible by the Courtney Turner Trust.



**1** VR ENTRANCE & PROJECTION WALL  
SCALE: 3/8" = 1' - 0"





**Thank You!**