

# FORT MILES HISTORIC AREA

## CAPE HENLOPEN STATE PARK

### PROPOSED DRAFT MASTER PLAN



DELAWARE STATE PARKS

DNREC

October 22, 2015

# FORT MILES HISTORIC AREA

## CAPE HENLOPEN STATE PARK, LEWES, DELAWARE



**SCHEMATIC DESIGN SITE PLAN**  
10.19.13

**ConsultEcon, Inc.**

**PRD**  
The PRD Group

**BECKER MORGAN GROUP**  
ARCHITECTURE ENGINEERING



# FORT MILES HISTORIC AREA

## CAPE HENLOPEN STATE PARK, LEWES, DELAWARE

**(B)**

**North Casemate**

- Battery 519 Orientation:*
- Diorama of Ft. Miles and of Delaware Bay Defenses
  - WWII-era Views and Maps of the Bay
  - WWII-era Views of Batteries
  - View of Towers at Ft. Miles

*Interpretive Graphics and Interactives:*

- What can you see from here?
- What could the soldiers in Battery 519 see?
- How far can the guns shoot?
- How do you shoot at what you can't see?

**(C)**

**North Hallway**

- Soldier Stories*
- Profiles of numerous individual Ft. Miles soldiers
  - Interpretive Graphics
  - Photographs of individuals and groups
  - Artifacts; uniforms, memorabilia, ephemera
  - Oral History recordings
  - Interactive "Conversation Stations"

**(D)**

- World War II Context*
- High-level Timeline of World Events and US Involvement
  - High-level Maps
  - World Context
  - Battle of the Atlantic and German Naval Activity
  - Eastern Seaboard Defenses
  - Delaware River Defenses

**(H1)**

**Collection Point**

- "Recruits" (visitors) organized into "gun teams" by "Gunnery Sergeants"

**(H2)**

**South Hallway**

- Warning signage
- Room signage

**(H7)**

**Stand-alone instructional units to assist visitors with self-guided tours.**

**(H7)**

**South Casemate**

- Recreated space for firing of 12-inch gun
- Walkthrough and observation pathway
- Group activity to load and fire 12-inch gun on command

**(A)**

**Entry Corridor**  
*Welcome Signage:*  
**261st Coast Artillery Battery 519**

*Graphics, Signage:*  
Explosives Warnings

*Audio:*  
Conversations, telephones, shouted commands, alerts;  
"This is not a drill!"

**(E)**

**Temporary Exhibits**

**(F)**

**Themed Introductory Theater**  
*Military Training Room*

- World War II-era military classroom environment
- Folding chairs
  - Film projector on cart
  - Easels with schedules / "class" titles
  - Wall graphics with ship silhouettes / 12-inch gun firing diagrams
  - Costumed Museum Docent to "instruct" visitors
  - Interpretive film about the functioning of Fort Miles
  - Styled as an introduction to Fort Miles and the functioning of the 12-inch guns in Battery 519 for new recruits into the 261st Coast Artillery.

**(G1)**

**Pre-WWII History of Fort Miles**

**Construction of the WWII Batteries and Post**

- Logistics and design (STEM focused)

**Operations at Fort Miles**

- Training & technology (STEM Focused)
- How things worked (communications, sighting, plotting, firing, teamwork – All STEM focused)
- Units at Fort Miles

**(G2)**

**Soldier Life at Fort Miles**

- USO Canteen*
- Initial tent camp
  - Barracks life
  - Recreation

**(G3)**

**Cold War at Fort Miles**

- Bumblebee ramjet
- *Murmansk* reception
- SOSUS
- How it worked (STEM Focused)
- Missile Master site
- "Doomsday ships"

**The Restoration of Fort Miles**

**(G)**

**Main Exhibit Gallery**  
*The History of Fort Miles*  
Mix of Interpretive Graphics / Artifacts  
Tactile and Electronic Interactives

**(H1)**

**Collection Point**

- "Recruits" (visitors) organized into "gun teams" by "Gunnery Sergeants"

**Areas H2, H3, H4, H5 and H7 all have stand-alone instructional units to assist visitors with self-guided tours.**

**(H3)**

**Fire Control Tower Room**

- Re-created space
- Spotting team relays position info to plotting team

**Plotting Room**

- Re-created space from separate bunker
- Plotting team takes position info and calculates firing angle

**(H4)**

**Powder Room**

- Re-created Space with stacked powder bags
- Walkthrough pathway
- Group activity to select and move powder bags to artillery piece on command.

**(H5)**

**Shell Room**

- Re-created space with stacked 12-inch artillery shells and overhead trolley system
- Walkthrough pathway
- Group activity to select and move 12-inch artillery shell to artillery piece on command

**(H6)**

**Fire Control Tower-Room**

- Recreated space to simulate view from Fire Control Tower
- Group activity to verify shell accuracy and results and communicate with Plotting Room

**(H)**

**South Hallway, Galleries and South Casemate**  
*The Battery 519 12-inch Gun Experience*  
Highly themed and guided participatory experience (STEM Focused)



**EX01.2 BATTERY 519 EXHIBIT PLAN**

10.04.13

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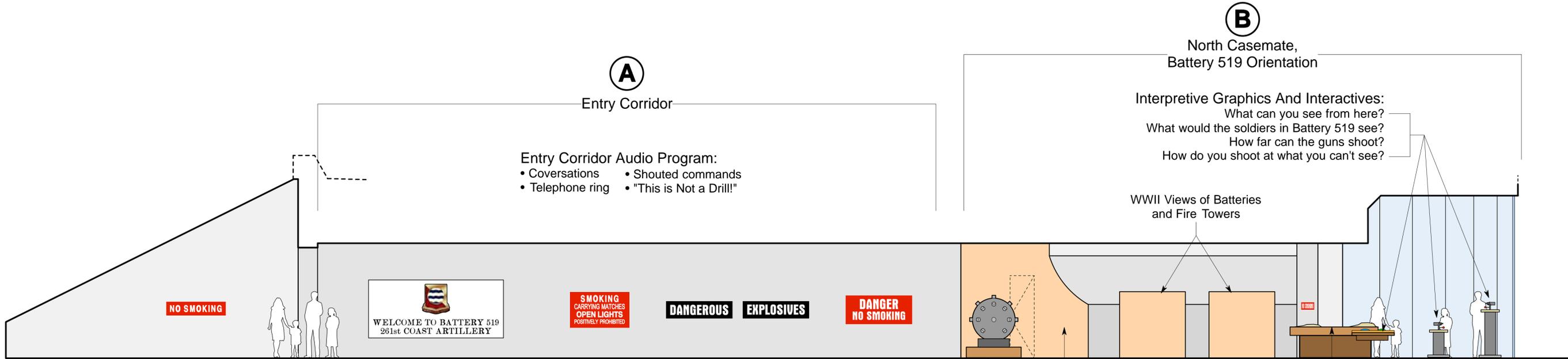


The PRD Group

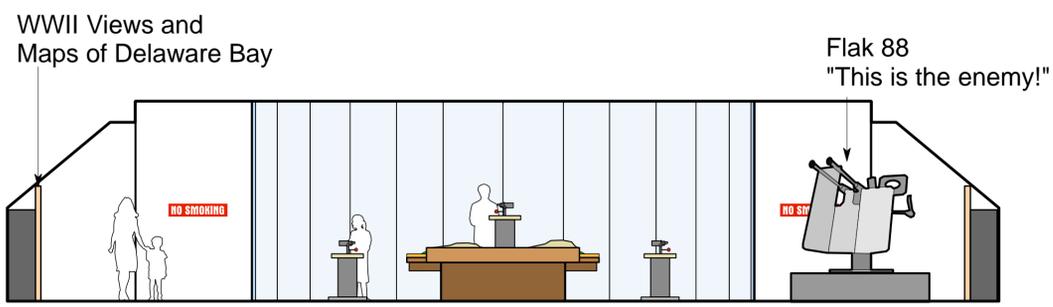
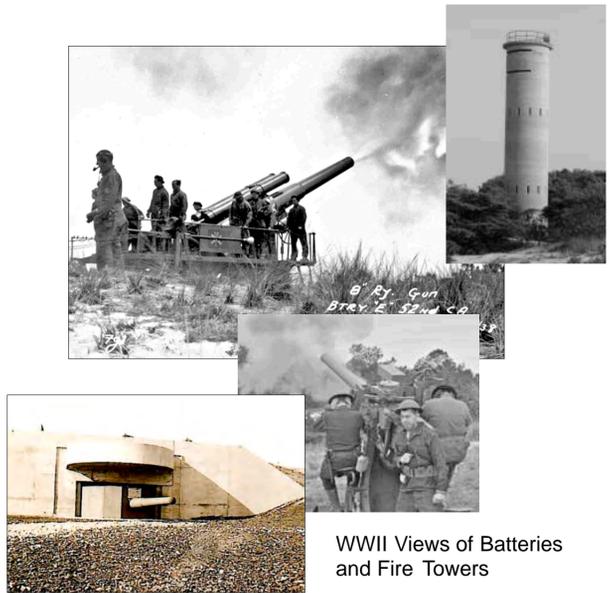
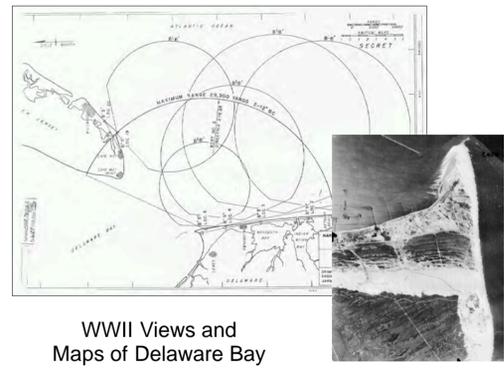
ARCHITECTURE ENGINEERING

# FORT MILES HISTORIC AREA

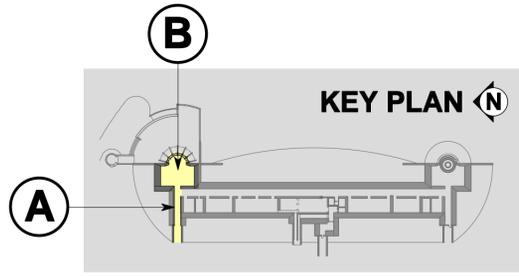
## CAPE HENLOPEN STATE PARK, LEWES, DELAWARE



**(A)** North Elevation / Through Entry Corridor and **(B)** North Casemate



**(B)** East Elevation / North Casemate

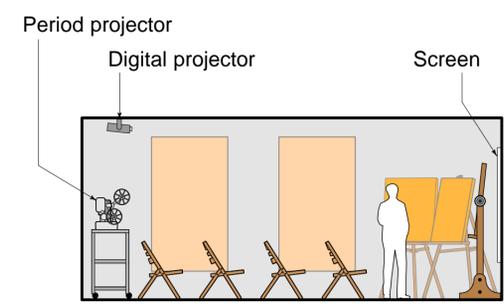
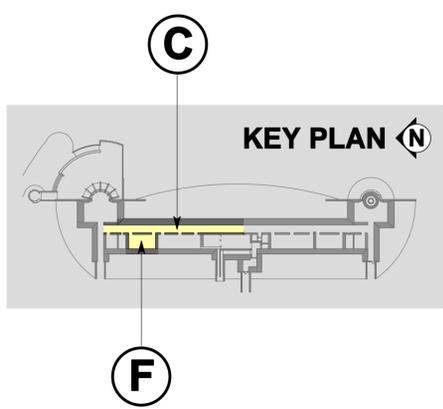
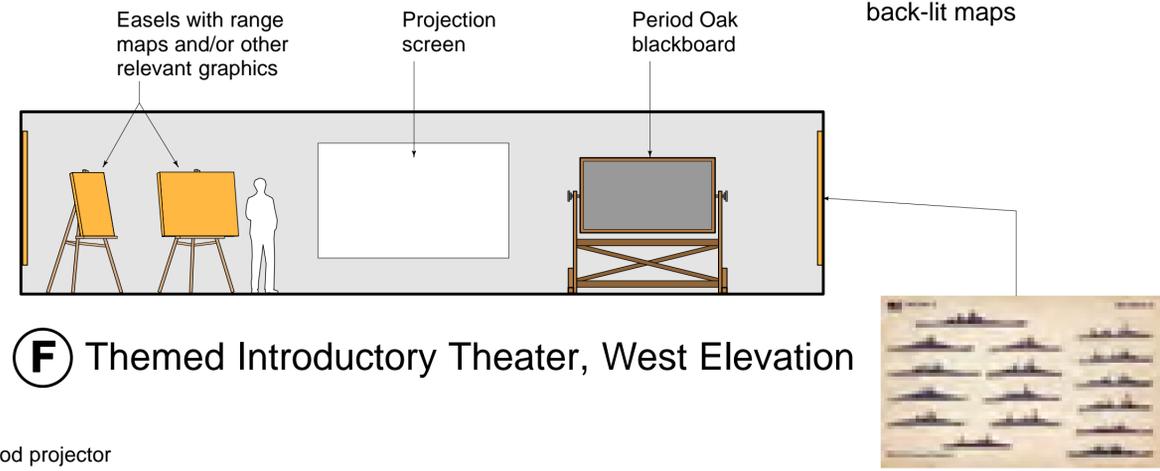
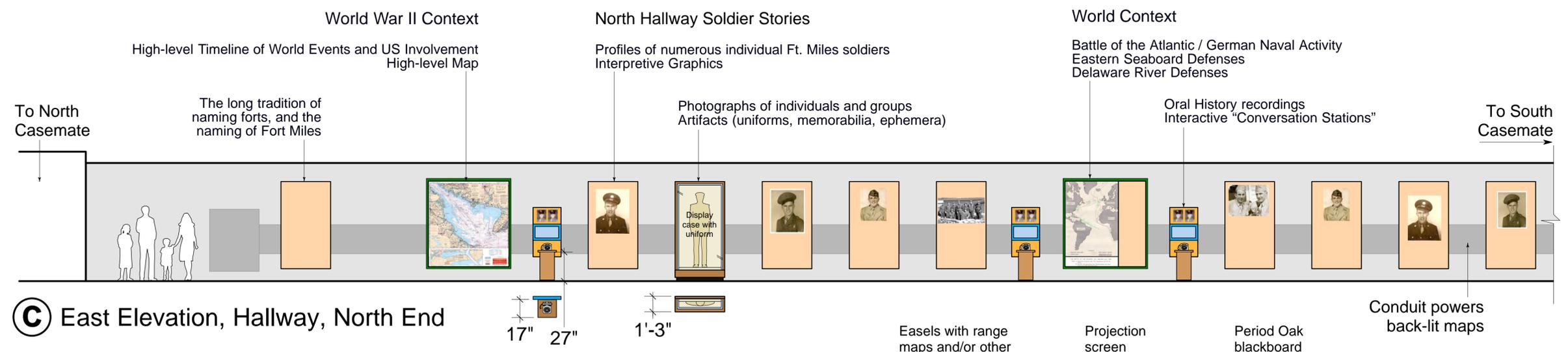


**EX02.1 BATTERY 519 ELEVATION**  
**ENTRY HALL AND NORTH CASEMATE**  
**10.19.13**



# FORT MILES HISTORIC AREA

## CAPE HENLOPEN STATE PARK, LEWES, DELAWARE



- Introductory Theater:**  
World War II-era military classroom  
Styled as an introduction to Fort Miles and the functioning of the 12-inch guns in Battery 519 for new recruits into the 52nd Coast Artillery
- Folding chairs
  - Film projector on cart
  - Easels with schedules / "class" titles
  - Wall graphics with ship silhouettes / 12-inch gun firing diagrams
  - Costumed Museum Docent to "instruct" visitors
  - Interpretive film about the functioning of Fort Miles



**EX02.2 BATTERY 519 ELEVATION**  
**HALLWAY, NORTH & THEMED THEATER**  
**10.19.13**

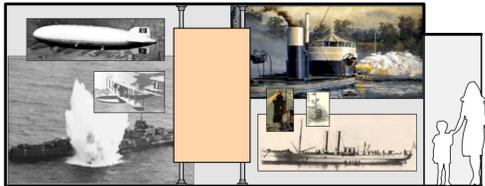
**ConsultEcon, Inc.**



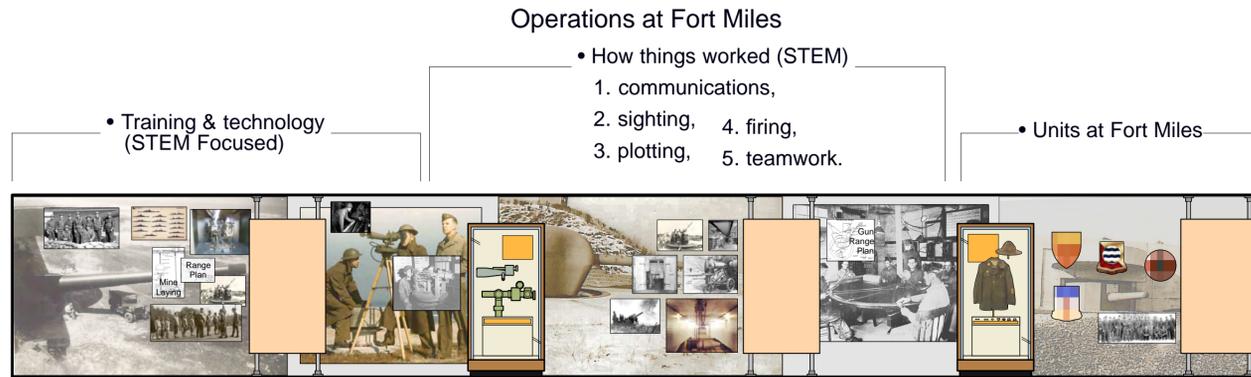
# FORT MILES HISTORIC AREA

## CAPE HENLOPEN STATE PARK, LEWES, DELAWARE

Pre-WWII history of Fort Miles



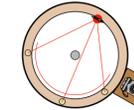
**G1** North Elevation



**G1** West Elevation, History of Fort Miles



Activity: Diorama demonstrates role of Fire Tower in spotting ships.



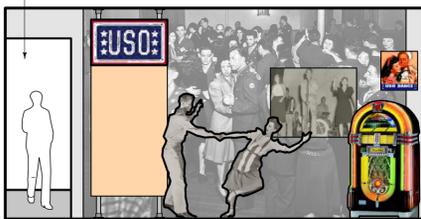
Activity: Simulated plotting table shows coordination between towers



**G1** West Elevation, Room Center

Soldier life at Fort Miles / "USO Canteen"

Entry & ramp from **G1** • USO Dance

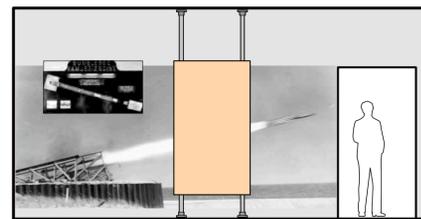


Life-size, cut-out figures  
Interactive Juke Box

**G2** North Elevation

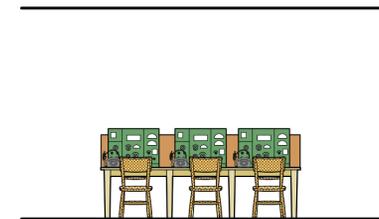
Cold War at Fort Miles

• Bumblebee ramjet

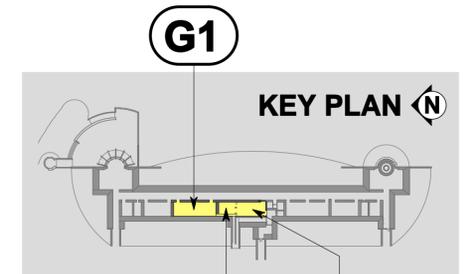


**G3** North Elevation

• SOSUS Listening Station



**G3** East Elevation Room Center



**G2** **G3**

• USO Canteen • Barracks life



Reproduction Footlocker  
SOP Wall locker  
SOP Footlocker

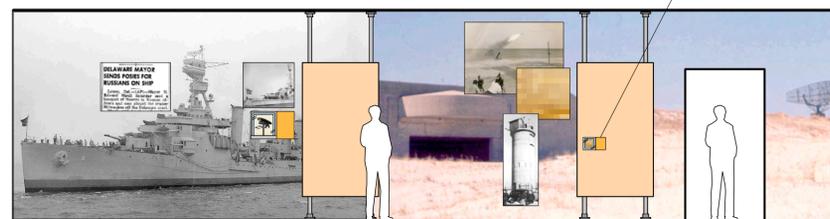
**G2** East Elevation

Cold War at Fort Miles

• *Murmansk* reception

• Missile Master site

Small document vitrine



**G3** East Elevation, History of Ft Miles

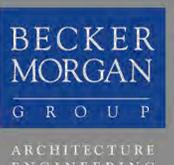
Cold War at Fort Miles

- Bumblebee ramjet
- *Murmansk* reception
- SOSUS
  - How it worked (STEM)
- Missile Master site
- "Doomsday ships"



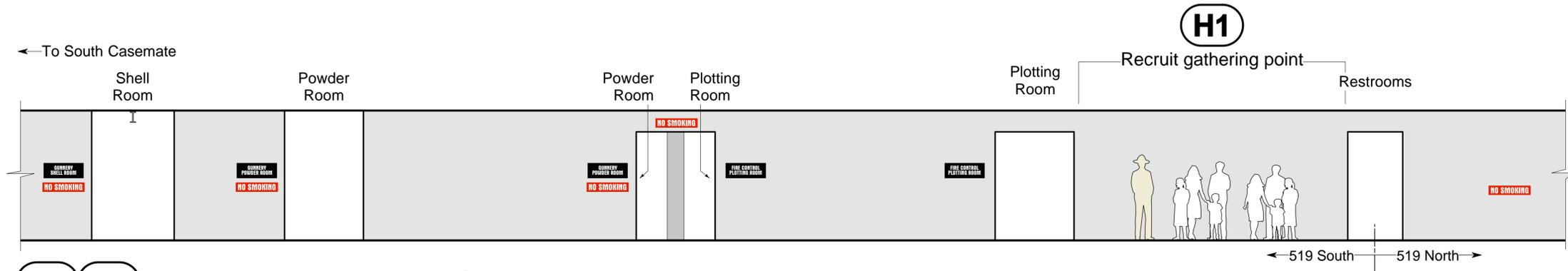
EX02.3 BATTERY 519 ELEVATION  
MAIN EXHIBIT GALLERY, AREA G  
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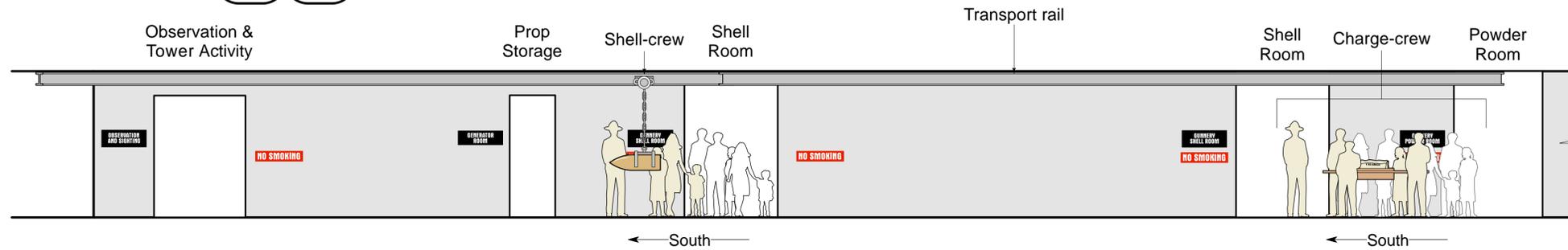


# FORT MILES HISTORIC AREA

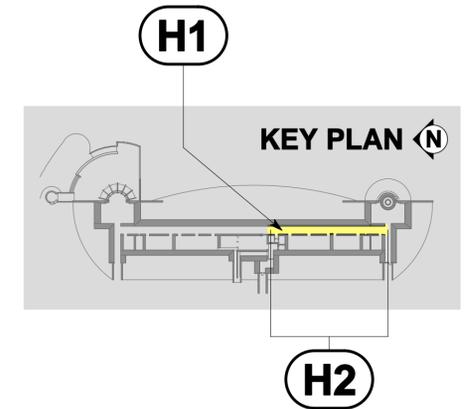
## CAPE HENLOPEN STATE PARK, LEWES, DELAWARE



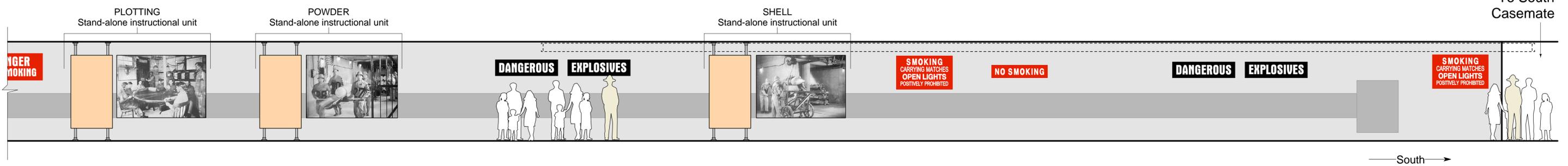
**H1 H2** West Elevation, Hallway, South End, Partial



**H2** West Elevation, Hallway, South End



From Recruit gathering point



**H2** East Elevation, Hallway, South End



EX02.4 BATTERY 519 ELEVATION  
SOUTH HALL, GUN FIRING, AREA H1  
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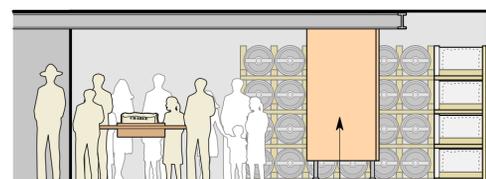
# FORT MILES HISTORIC AREA

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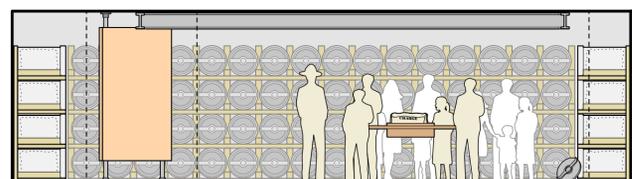
**H4**

### Elevations, Powder Room

← To Hallway and South Casemate



South Elevation



West Elevation

Typical stand alone instructional unit for self guided individual visitors.

#### Powder Room

- Re-created Space with stacked powder bags
- Walkthrough pathway
- Group activity to select and move powder bags to artillery piece on command

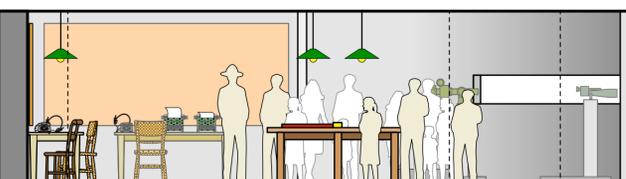


**H3**

### Elevations, Plotting Room & Fire Control Tower Room

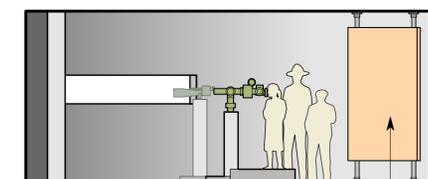
Plotting Room

Tower Room



West Elevation

Tower Room



North Elevation

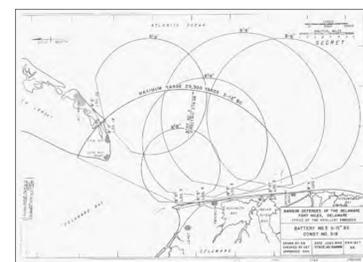
Typical stand alone instructional unit for self guided individual visitors.

#### Fire Control Tower Room

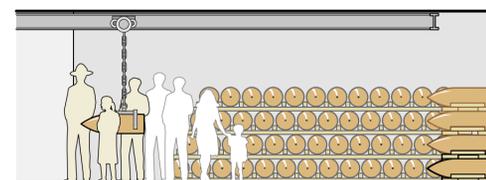
- Re-created space
- Spotting team relays position info to plotting team

#### Plotting Room

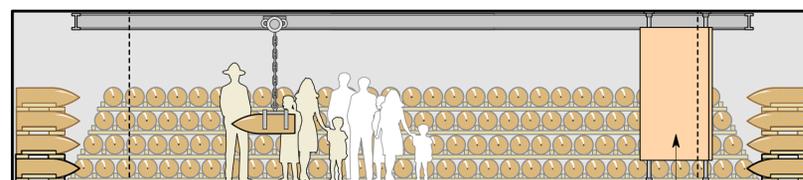
- Re-created space from separate bunker
- Plotting team takes position info and calculates firing angle



← To Hallway and South Casemate



South Elevation



West Elevation

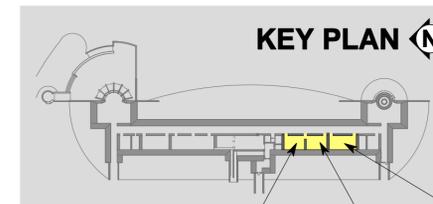
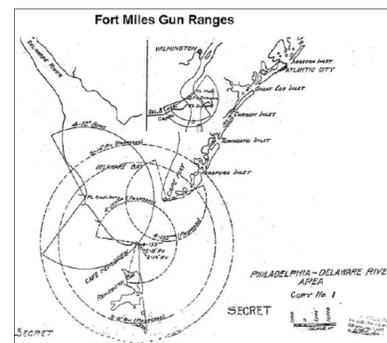
Typical stand alone instructional unit for self guided individual visitors.

#### Shell Room

- Re-created space with stacked 12-inch artillery shells and overhead trolley system
- Walkthrough pathway
- Group activity to select and move 12-inch artillery shell to artillery piece on command

**H5**

### Elevations, Shell Room



**H3 H4 H5**



EX02.5 BATTERY 519 ELEVATION  
PLOTING, POWDER & SHELL ROOMS  
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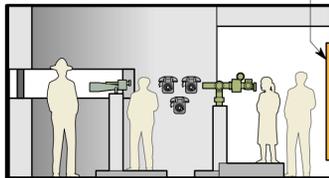


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# FORT MILES HISTORIC AREA

## CAPE HENLOPEN STATE PARK, LEWES, DELAWARE

Typical stand alone instructional unit for self guided individual visitors.

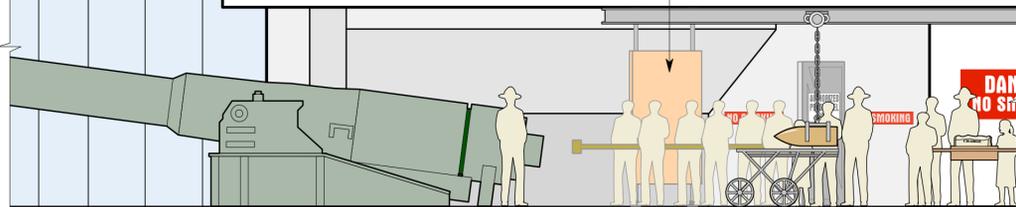


**H6**

**East Elevation, Special Gallery, Observation Tower Room**

- Observation Tower Room
- Re-created space to simulate view from Observation Tower
  - Group activity to verify shell accuracy and results and communicate with Plotting Room

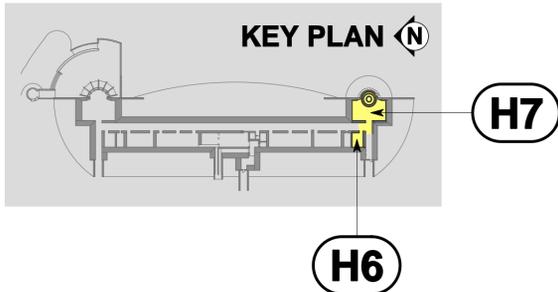
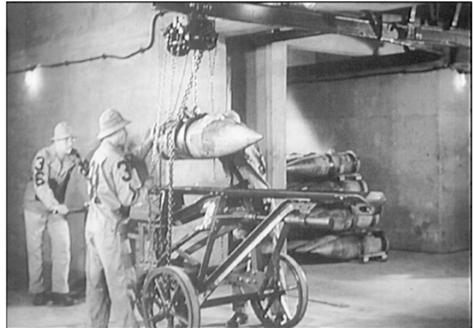
Typical stand alone instructional unit for self guided individual visitors.



**H7**

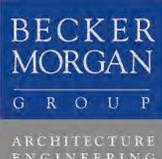
**South Elevation, South Casemate, 12" Gun Firing Experience**

- South Casemate
- Re-created space for firing of 12-inch gun
  - Walkthrough and observation pathway
  - Group activity to load and fire 12-inch gun on command



**EX02.6 BATTERY 519 ELEVATION**  
**FIRE CONTROL TOWER & SOUTH CASEMATE**  
**10.19.13**

**ConsultEcon, Inc.**



# FORT MILES HISTORIC AREA

## CAPE HENLOPEN STATE PARK, LEWES, DELAWARE



**BATTERY 519 MUSEUM ADDITION**  
RENDERING - LOOKING NORTHEAST  
10.19.13

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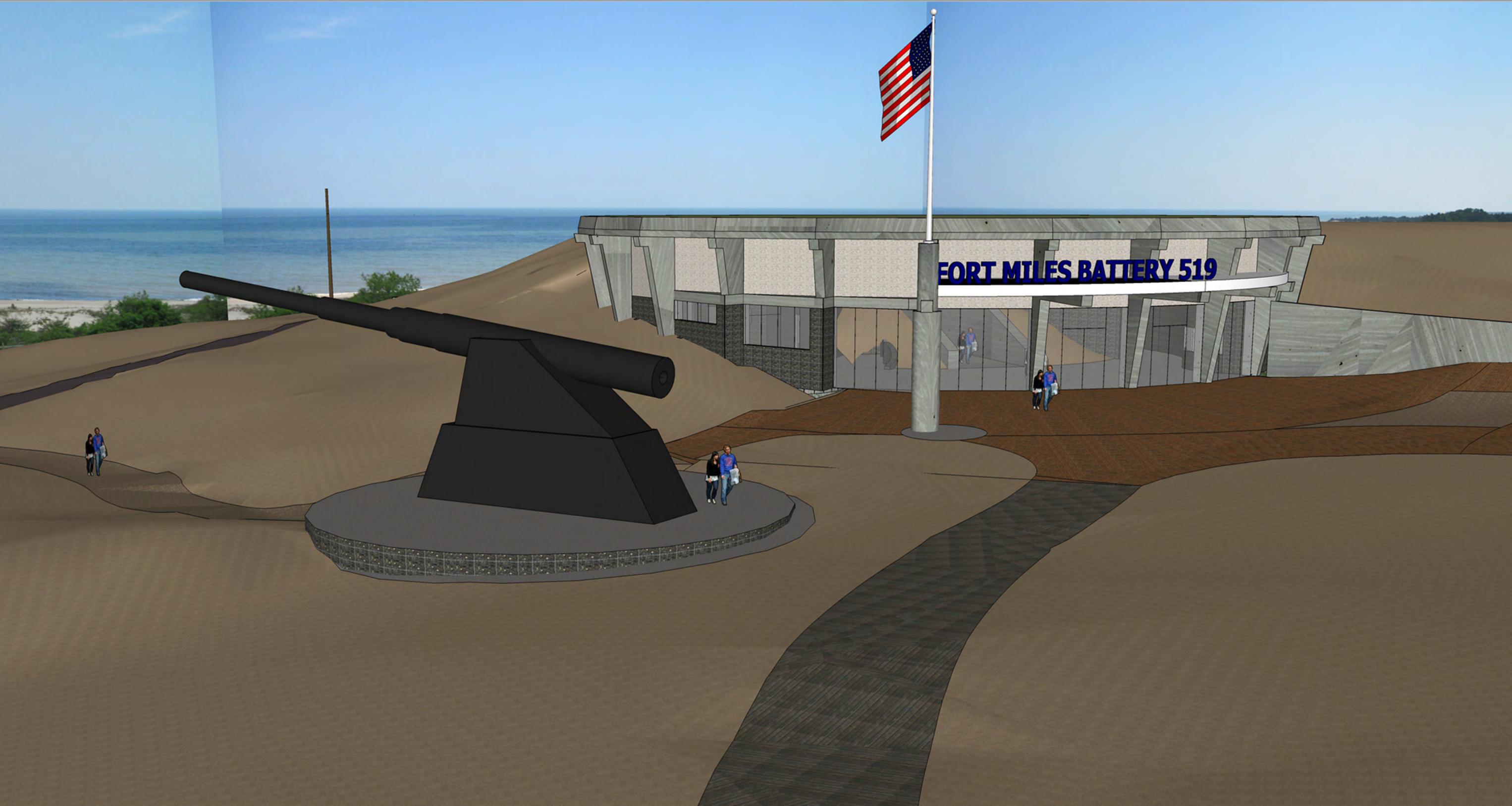
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# FORT MILES HISTORIC AREA

## CAPE HENLOPEN STATE PARK, LEWES, DELAWARE



**BATTERY 519 MUSEUM ADDITION**  
RENDERING - LOOKING EAST  
10.19.13

ConsultEcon, Inc.



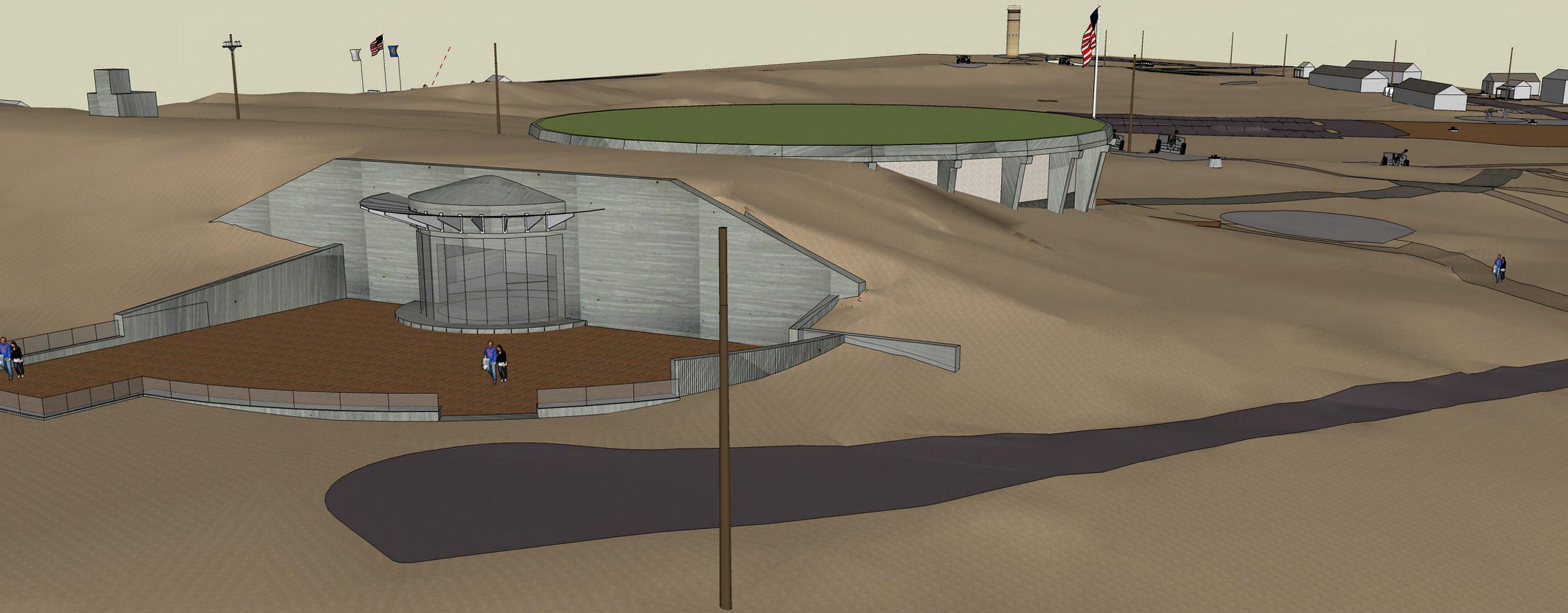
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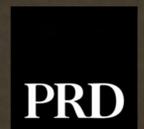
# FORT MILES HISTORIC AREA

## CAPE HENLOPEN STATE PARK, LEWES, DELAWARE



**BATTERY 519 MUSEUM ADDITION**  
**RENDERING - LOOKING SOUTHWEST**  
**10.19.13**

**ConsultEcon, Inc.**



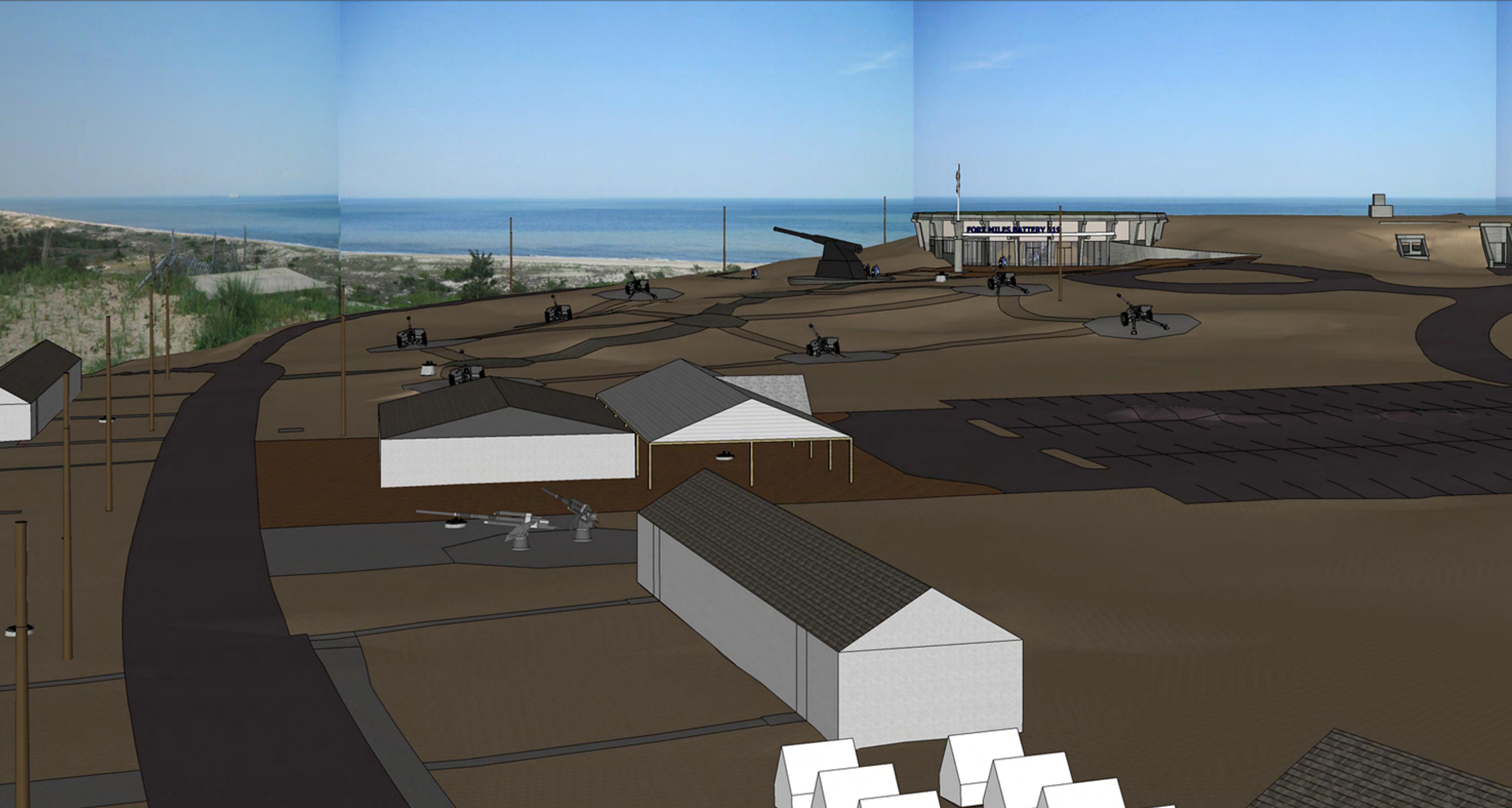
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# FORT MILES HISTORIC AREA

## CAPE HENLOPEN STATE PARK, LEWES, DELAWARE



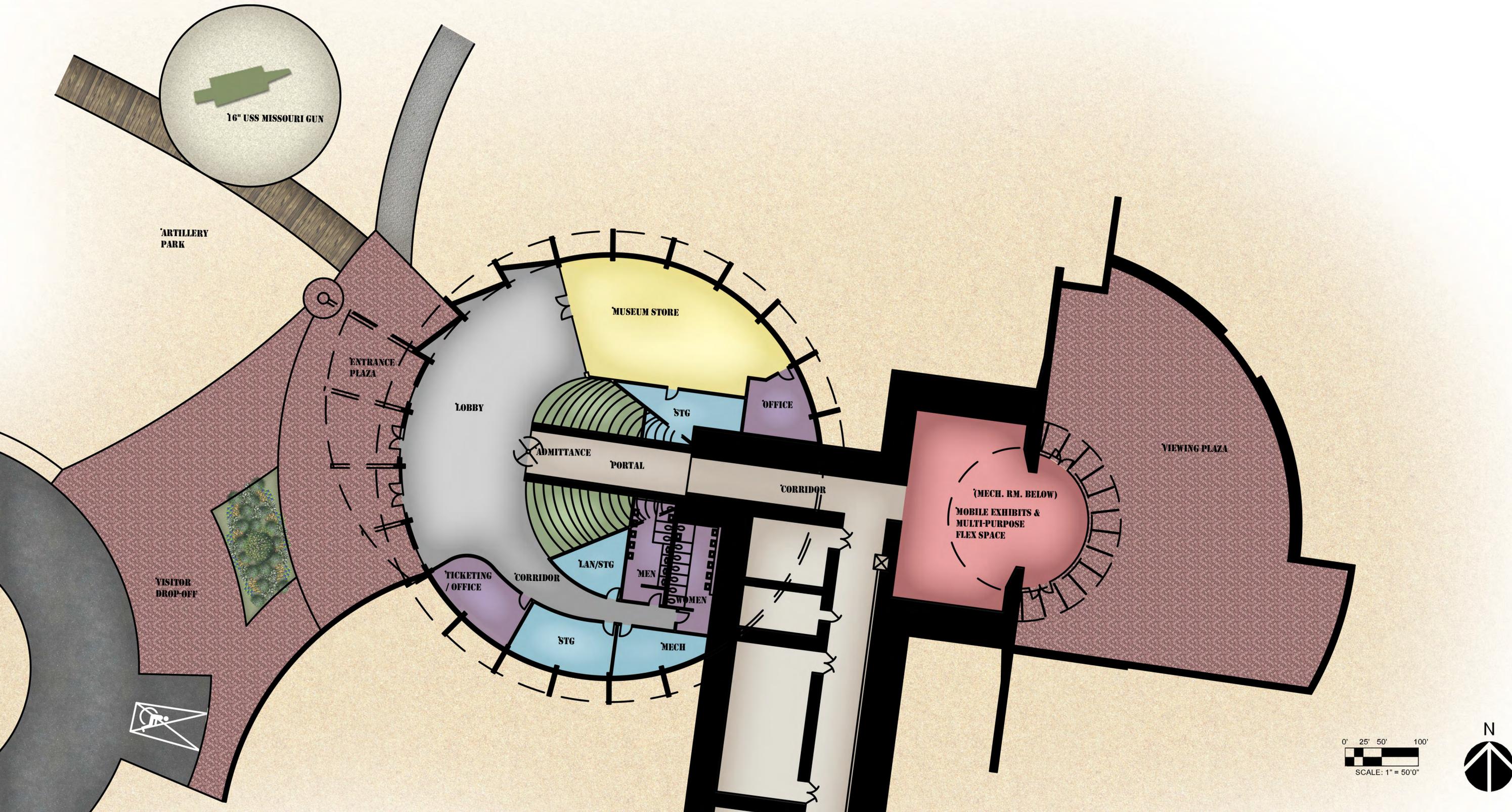
**FORT MILES**  
RENDERING - LOOKING EAST  
10.19.13

**ConsultEcon, Inc.**



# FORT MILES HISTORIC AREA

## CAPE HENLOPEN STATE PARK, LEWES, DELAWARE



**BATTERY 519 MUSEUM ADDITION**  
**FLOOR PLAN**  
 10.19.13

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PRD

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