

Architect of the Capitol

Society of American Military Engineers

December 1, 2016



AOC Mission: Serve, Preserve, Inspire



AOC employees work every day to **serve** Congress and the Supreme Court, **preserve** America's Capitol, and **inspire** memorable experiences for all who visit the buildings and grounds.

Who We Are



The AOC traces its beginnings to the laying of the Capitol cornerstone in 1793.



Our work is rooted in a tradition of unique craftsmanship and ingenuity.



2,000+ employees work behind the scenes to oversee the infrastructure and facilities of the Capitol campus and support congressional operations.

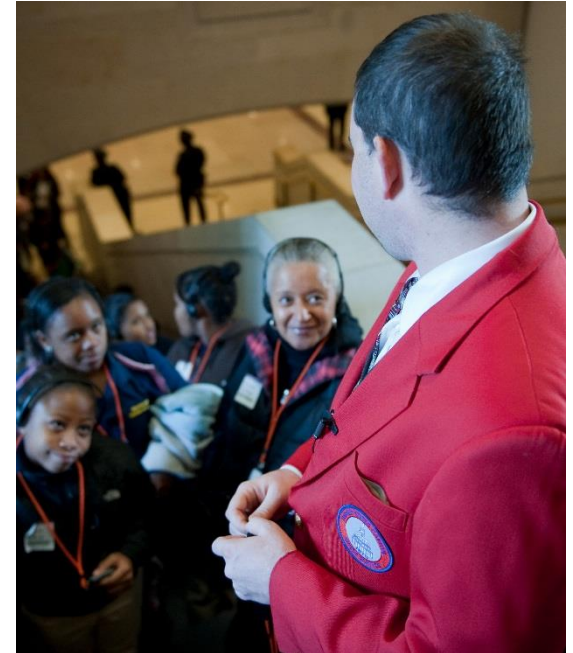
What We Do



Care for 17.4 million+ square feet of facilities; 580+ acres of grounds and thousands of works of art



Oversee annual budget of approximately \$600 million per year and manage \$1 billion+ in active construction projects

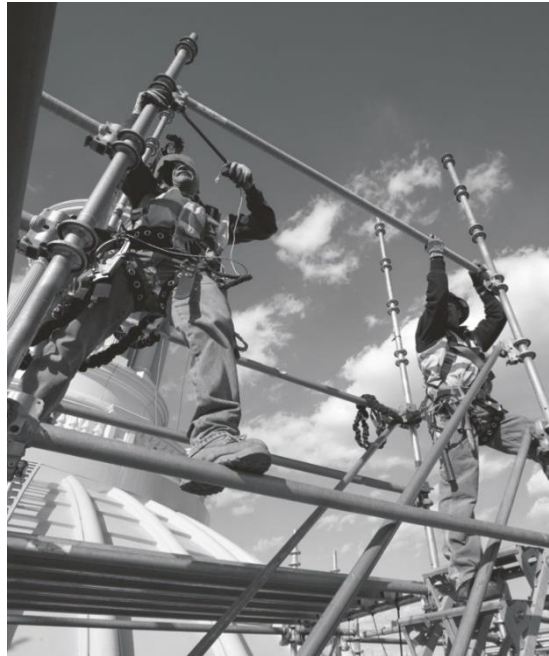


Host 3 million+ visitors annually while serving 30,000 daily occupants around the clock to maintain the Capitol campus

How We Do It



Provide excellent customer service



Prioritize safety



Promote sustainability

Capitol Campus



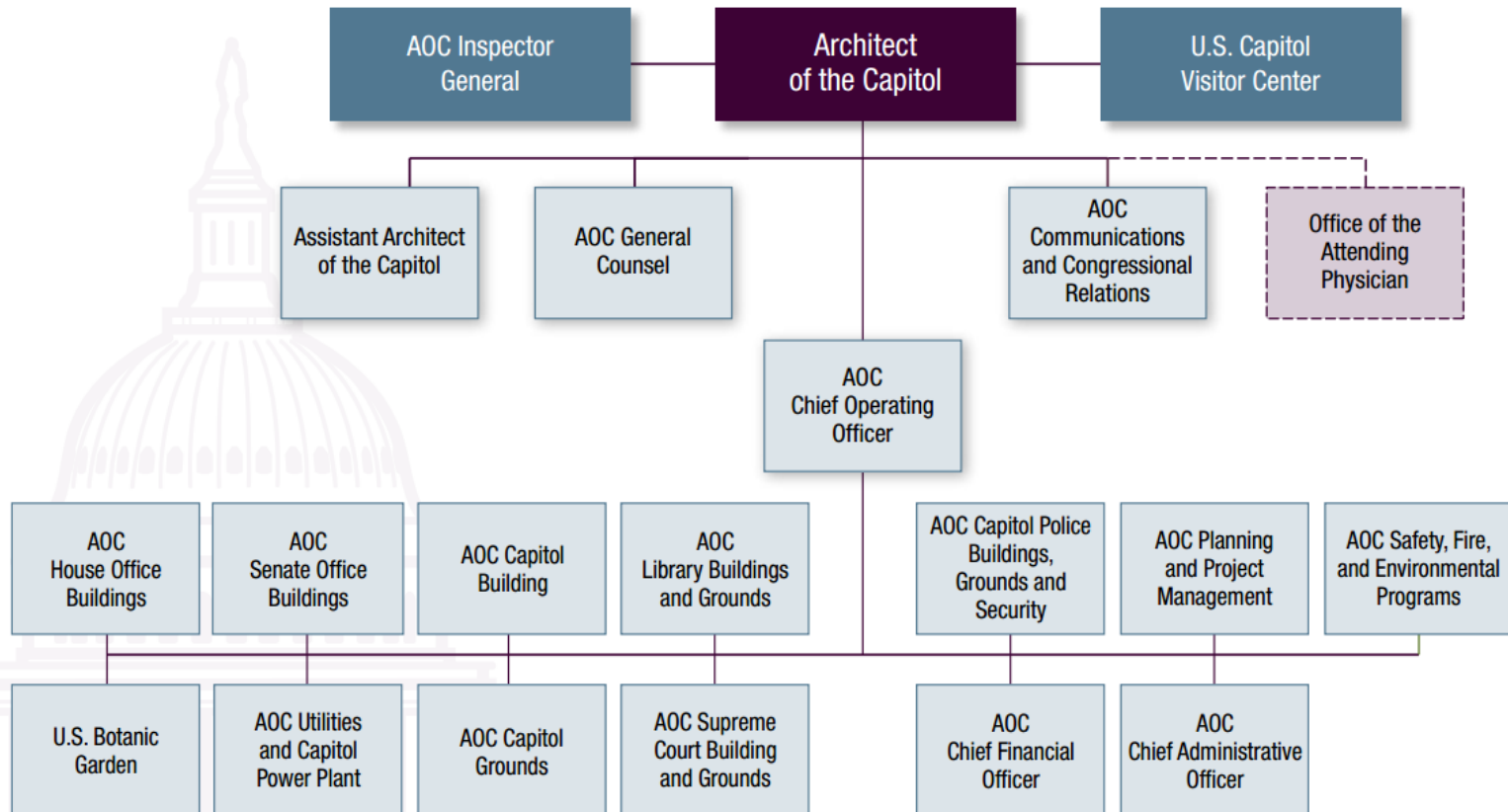
National Mall



AOC Organization



AOC Organization Chart

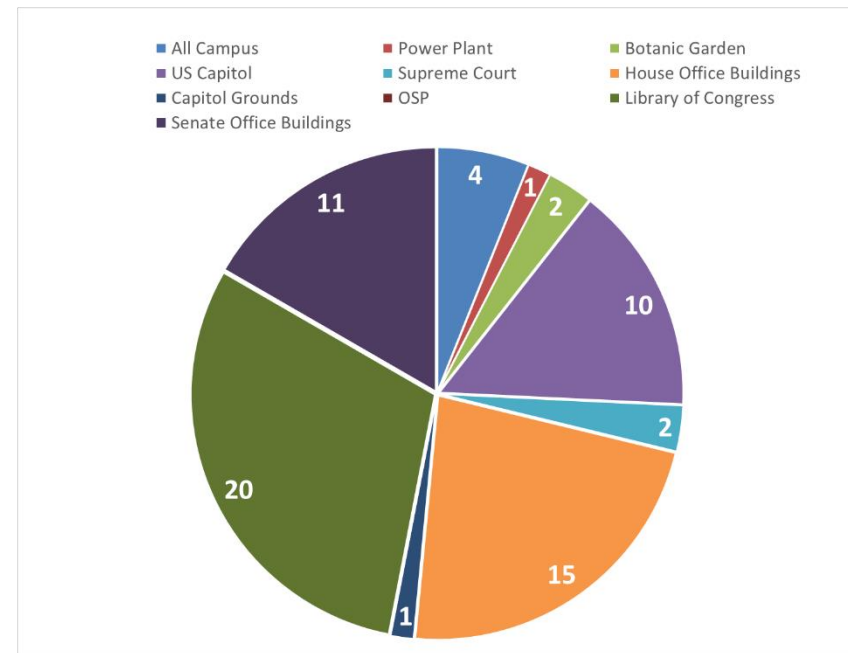


Designs, Studies and Active Projects



- 73 Active Projects across 9 Jurisdictions
 - Capitol Building
 - Capitol Grounds
 - Capitol Power Plant
 - House Office Buildings
 - Library of Congress
 - Office of Security Programs
 - Senate Office Buildings
 - Supreme Court
 - U.S. Botanic Garden

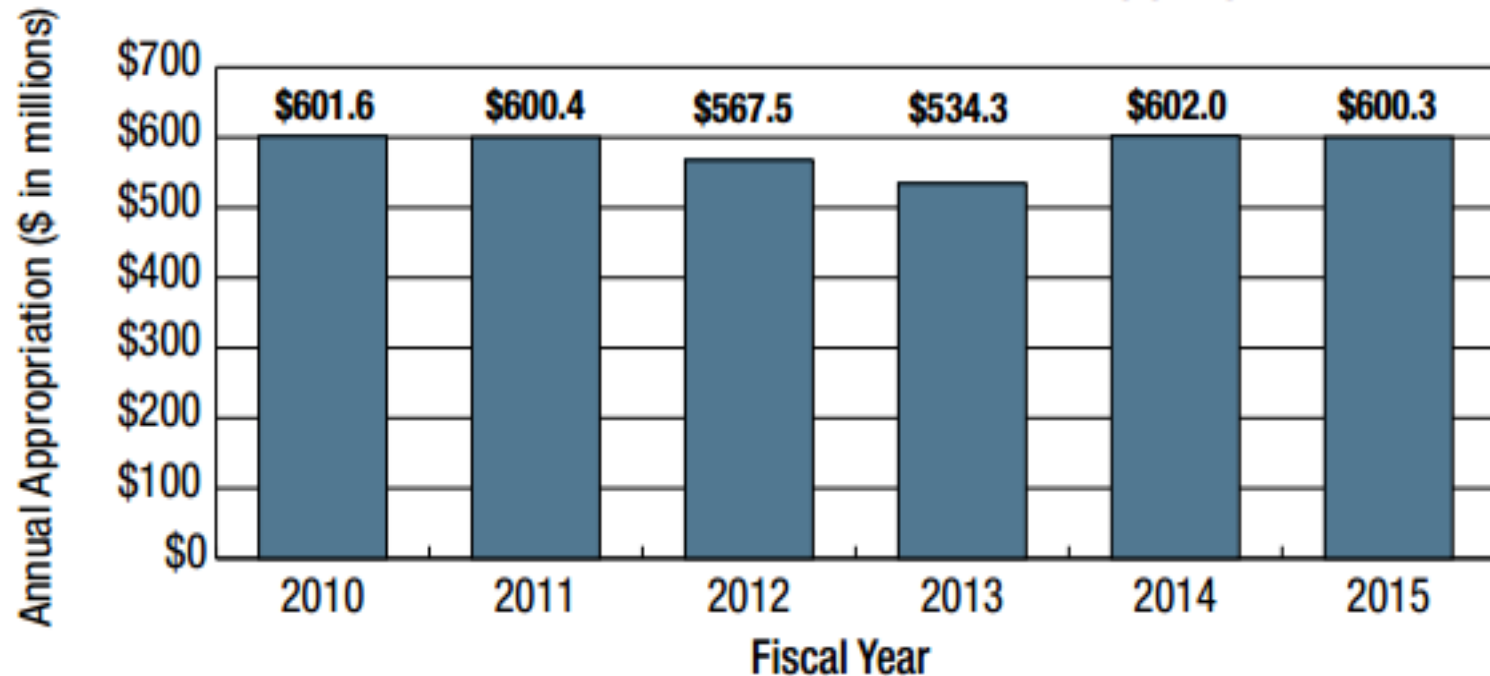
- 66 Active Designs and Studies



AOC Appropriations



Trend in Total Enacted Appropriations

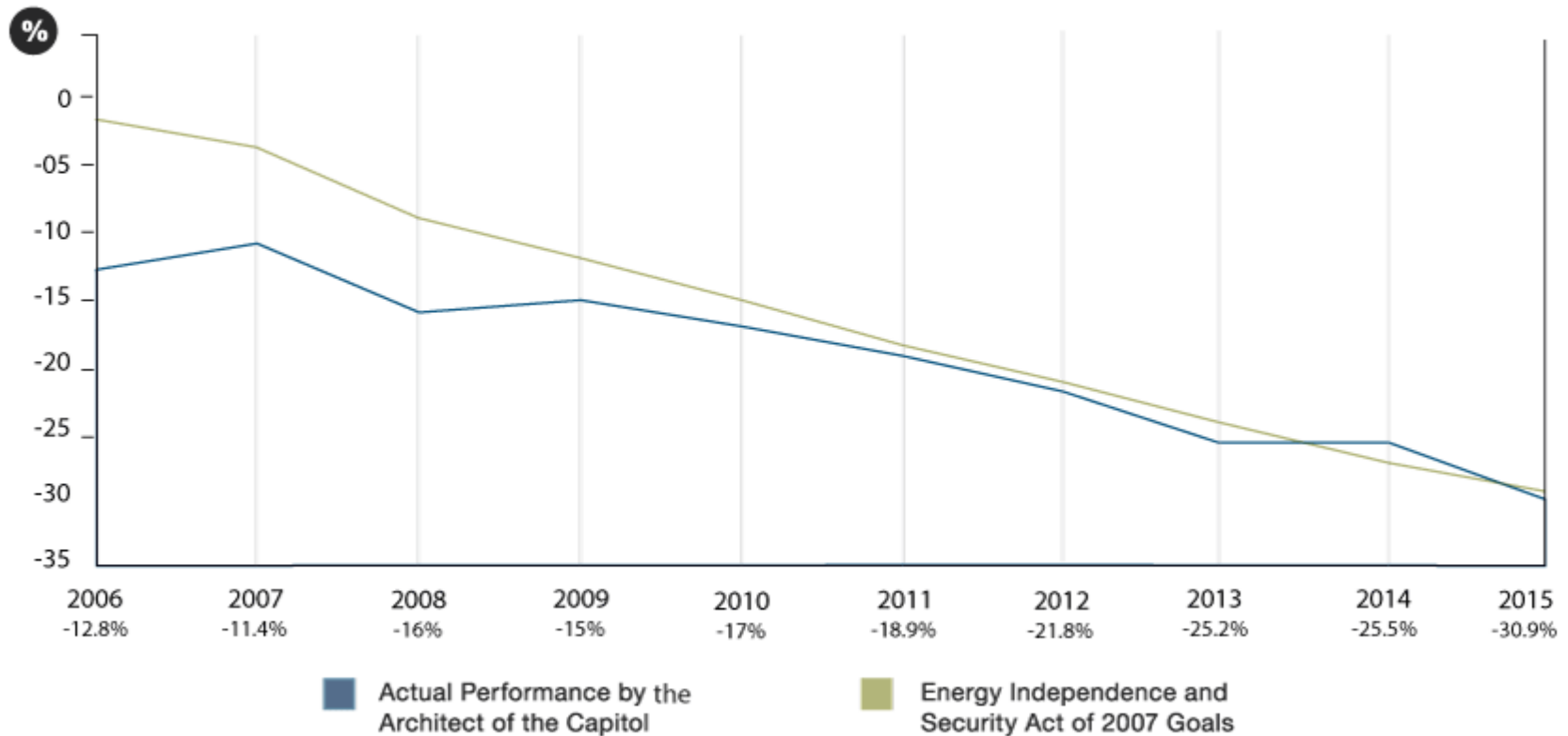


Note: Excludes Supreme Court Building and Grounds (included in the Judiciary Branch appropriation).

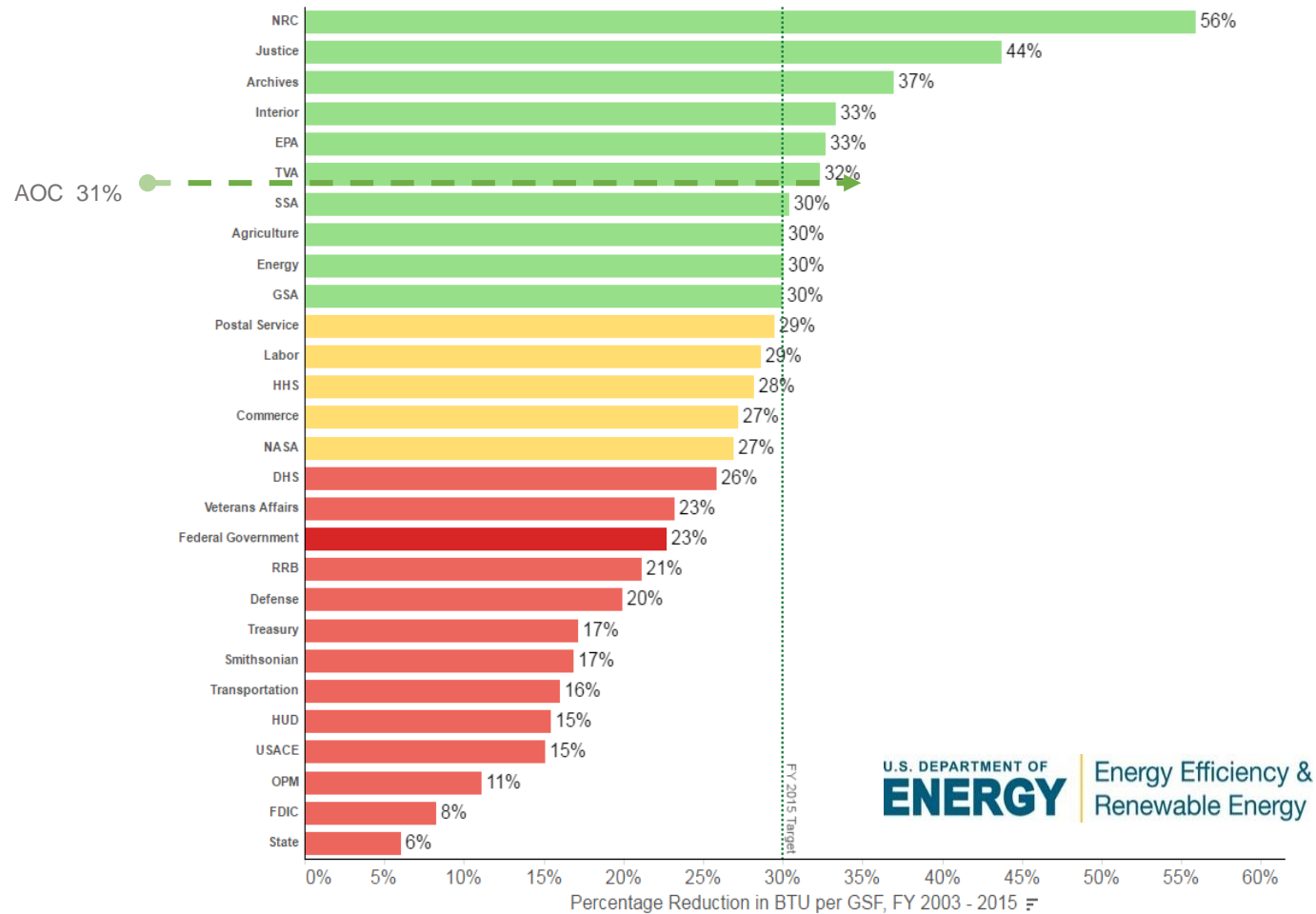
Energy Achievements



Annual Energy Reduction



Multi-Agency Progress Towards Energy Reduction Goal



Cannon Renewal Project



Cannon Renewal Project



- Completed in 1908
- 678,791 gross square feet (excluding garage)
- 490,300 occupiable square feet (excluding garage)
- 6 levels (including basement)
- 142 Member suites
- 4 Committee Hearing Rooms
- 316 underground parking spaces
- \$752.7M project to be complete by 2024



Cannon Renewal Project



- **Cannon Renewal**

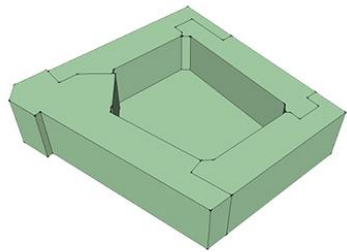
- Replace infrastructure
- Compliance with building codes and standards
- Enhance effectiveness
- Preserve historic character
- Improve security
- Meet sustainability goals



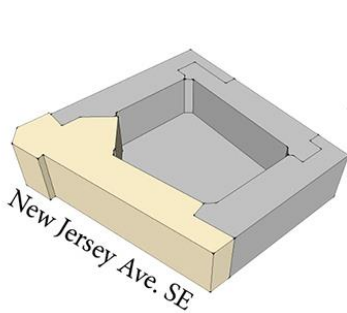
- **Approaches**

- Integrated Project Delivery – on time and on budget
- Integrate cost effective, sustainable and energy-efficient solutions
- Align phases with Congressional moves
- Uninterrupted mission and minimize campus impact

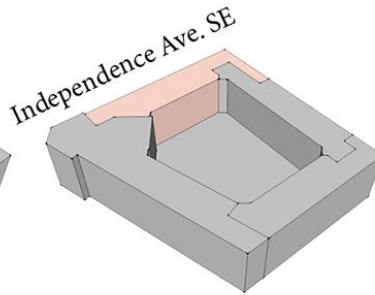
Cannon Renewal Project



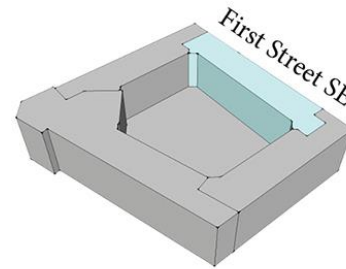
PHASE 0:
JAN 2015 - DEC 2016



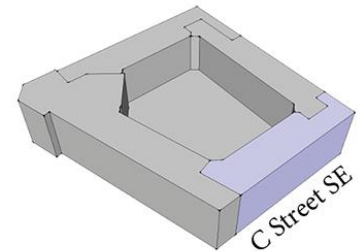
PHASE 1:
JAN 2017 - NOV 2018



PHASE 2:
JAN 2019 - NOV 2020



PHASE 3:
JAN 2021 - NOV 2022



PHASE 4:
JAN 2023 - NOV 2024

Dome Restoration Project



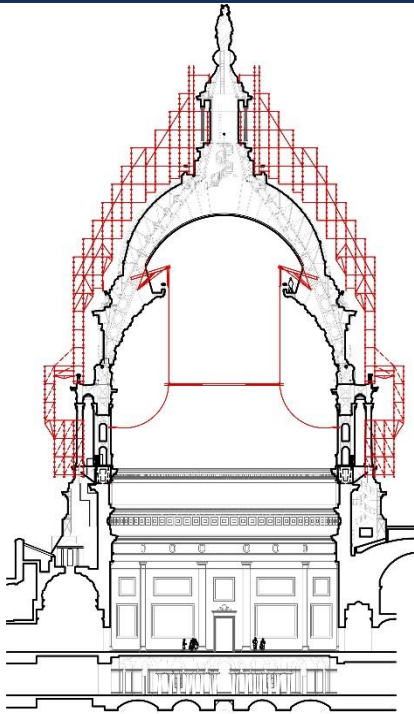
History of the Capitol Dome



Previous Restoration of the Dome

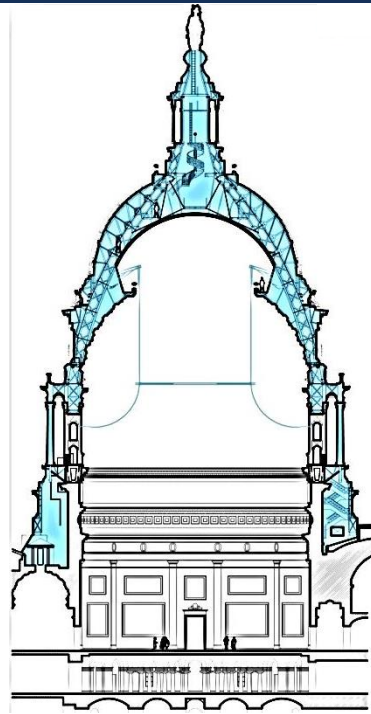


Dome Restoration Project



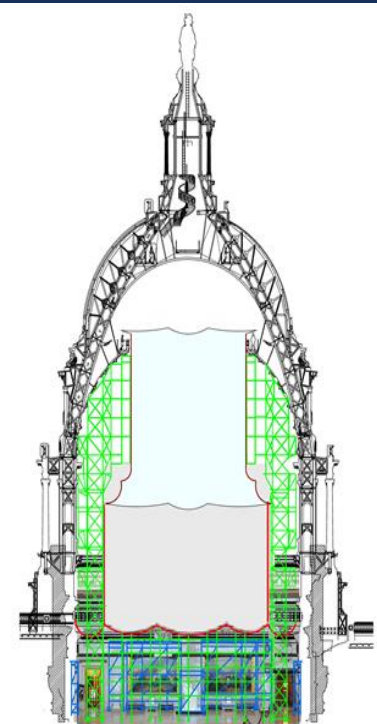
Dome Exterior

- Restored historic exterior surface and ornamentation
- Weatherproofed exterior of Dome
- Replaced broken windows
- Removed hazardous materials
- Required scaffolding covering entire Dome
- Donut-shaped Rotunda protector



Dome Interior

- Protected interior Dome
- Repaired structural elements
- Introduced life-safety and maintenance systems
- Upgraded of electrical, mechanical and security systems
- Removed hazardous materials
- Donut-shaped Rotunda protector



Dome Rotunda

- Determined historically appropriate color through paint analysis
- Removed lead-based paint
- Repaired cast iron
- Repainted
- Installed new Rotunda lighting
- Upgraded electrical systems

Dome Restoration Project - Exterior



Dome Restoration Project - Interior



Dome Restoration Project - Rotunda



Capitol Dome Facts



Dome Facts

- The U.S. Capitol's dome made of cast iron
- Designed by Thomas U. Walter
- Constructed from 1855-1866
- 8,909,200 pounds of ironwork (about the same weight as 20 Statues of Liberty)
- 288 feet height above East Front Plaza including Statue of Freedom, is the tallest cast iron dome in world

Restoration Facts

- 1.1 million lbs. weight of scaffold
 - 75,000+ pieces of equipment
 - 52 miles of scaffold pipe
 - Two miles of decking, enough to build a sidewalk 5 feet wide by 2 miles long from the U.S. Capitol to the Lincoln Memorial
-

Dome Restoration Project



Contracting



AOC and the Federal Acquisition Regulation (FAR)



- The FAR was developed for use by the Executive Branch
- AOC is not subject to the FAR, but generally aligns with the FAR
- E-Verify
- Requirements > \$100,000 are advertised and posted on FedBizOpps (FBO)
- Search under “Agencies” for “Architect of the Capitol”
- E-mail aocprocurement@aoc.gov for more information on contracting questions

Industry Days



- The AOC conducts Industry Days for many of its major projects
- Sends out Draft RFPs for industry input



Current Contract Types



- **A/E Indefinite Delivery Indefinite Quantity**
 - AECOM
 - HGA Mid-Atlantic Inc.
 - James Posey Associates, Inc.
 - Quinn Evans Architects
 - Shalom Baranes Associates
 - URS Group, Inc.

- **E/A Indefinite Delivery Indefinite Quantity**
 - Affiliated Engineers Inc. AEI Inc.
 - RMF Engineering Inc.
 - Wiley Wilson | Burns & McDonnell

Current Contract Types



- Multiple Award Construction Contract (MACC) and Job Order Contract (JOC)
 - The Christman Company
 - Consigli
 - HITT Construction
 - Kiewit
 - Turner Construction
- Construction Management
 - Jacobs Project Management Company
 - Parsons
 - Procon Consulting, LLC

Upcoming Work



Construction Services within the next Five Years:

- Emergency Power Upgrade at Rayburn House Office Building
- Garage Structural Repairs and Entry Improvements, John Adams Building
- Senate Underground Garage Renovation Design-Build
- Piping Replacements at the Capitol Power Plant
- Roof Replacement at the Capitol Power Plant
- Electric Distribution System Replacement at the Capitol
- Library of Congress Collection Storage Module Masterplan

Upcoming Work



Professional Services within the next Five Years:

- Exterior Envelope Repair and Restoration designs, House Office Buildings
- U.S. Botanic Garden Production Facility Renovation design
- Egress Improvements in the Senate Office Buildings
- Electrical System studies in the Library of Congress and Senate Office Buildings

AOC and Social Media



- Facebook - www.facebook.com/ArchitectoftheCapitol
- Twitter - @uscapitol
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- YouTube - www.youtube.com/user/AOCgov
- Instagram - www.instagram.com/uscapitol/
- Flipboard - flipboard.com/@USCapitol

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Questions?

