

**PROSPECTUS – ALTERATION
JOHN JOSEPH MOAKLEY U.S. COURTHOUSE
BOSTON, MA**

Prospectus Number: PMA-0050-B023
Congressional District: 8

FY 2023 Project Summary

The General Services Administration (GSA) proposes a repair and alterations project for the John Joseph Moakley U.S. Courthouse (Moakley Courthouse), located at One Courthouse Way in Boston, MA. The project will address the mechanical, electrical, and fire alarm systems, repair the deteriorating building envelope to mitigate impacts of the humid climate, replace the roof, and modernize conveyance systems.

FY 2023 Committee Approval and Appropriation Requested

(Design, Construction, and Management & Inspection).....\$115,354,000

Major Work Items

Heating, ventilation, and air conditioning (HVAC) and electrical upgrades; exterior construction; conveyance systems and fire alarm replacement; site work; and demolition

Project Budget

Design	\$10,345,000
Estimated Construction Cost (ECC)	99,435,000
Management and Inspection (M&I).....	5,547,000
Estimated Total Project Cost (ETPC).....	\$115,354,000

*Tenant agencies may fund an additional amount for alterations above the standard normally provided by GSA.

<u>Schedule</u>	Start	End
Design and Construction	FY2023	FY2027

Building

The Moakley Courthouse, constructed in 1998, is a 10-story brick masonry structure with a basement and mezzanine totaling 945,424 gross square feet. The building occupies a key waterfront site on Boston Harbor and contains a 32,700 square foot curved glass wall that overlooks the harbor and the 2.25-acre public Fan Pier Park, offering one of the best views of Boston's skyline. The Moakley Courthouse serves as home for the U.S. Court of Appeals for the First Circuit and the U.S. District Court for the District of Massachusetts.

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Tenant Agencies

U.S. District Court; U.S. Court of Appeals; U.S. Probation Office; Department of Justice - U.S. Marshals Service, Office of the U.S. Attorneys; and GSA

Proposed Project

The proposed project will replace outdated boilers, chillers, and air handling units, upgrade the building automation system, and improve overall energy performance. Exterior construction includes replacement of the roof with a new high-efficiency assembly to provide related ceiling and roof perimeter fire barriers and replacement of lightning protection. Building envelope repairs include replacement of sealants and metal flashing around the facility, including the glass curtainwall, windows, skylights, doors, and expansion joints, and repointing of the masonry in some areas will be undertaken. The conveyance system will be modernized to meet current technology, performance, and code standards. The project includes replacement of the voice evacuation fire alarm system. Additionally, full lighting fixture, sensors, and control upgrades will be integrated into the new building automation system.

Major Work Items

HVAC Upgrades	\$37,440,000
Exterior Construction	23,121,000
Conveyance System Upgrades	14,466,000
Fire Protection Upgrades	8,924,000
Electrical Upgrades	8,401,000
Demolition	<u>7,513,000</u>
Total ECC	\$99,435,000

Justification

The existing boilers and chillers have reached the end of their useful life, and deterioration to the domestic water system and pipe fittings cause the need for upgrades. Upgrades to the building automation system will help reduce energy consumption.

The roofing system needs replacement to prevent damage to interior finishes, tenant property, and courts operations. The building exterior continues to degrade due to severe weather exacerbated by the building's waterfront location. Creating a watertight envelope through repointing and sealing will prolong the life of the asset. The project will also provide interior and exterior waterproofing to the prisoner transport corridor in the sublevel and throughout the perimeter foundation wall to mitigate the effects of climate change. Water infiltration has periodically penetrated the fire alarm system causing false alarms. Flood mitigation on lower grade doors,

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openings, and intakes are needed to prevent continued storm related problems with the fire alarm systems.

The elevators within the conveyance systems are over 20 years old and experience recurring service calls, many of which include entrapments. Because of the specialized use (*e.g.*, prisoner transfer), removal from service would have an operational impact on court functions. Interim repairs are underway to mitigate this life-safety and accessibility issue.

The existing fire alarm manufacturer began phasing out the current model of the fire alarm system in 2018, and replacement parts are available only until 2023. The potential risk of alarm failure poses a life-safety risk and risks increased costs for emergency replacement if the manufacturer is unable to support repairs. A separate project currently is underway to replace components of the fire alarm system. The proposed project will continue this effort to replace in its entirety the remainder of this critical life safety system.

Lighting replacement will also significantly reduce the cost of operations and provide enhanced operational control.

Summary of Energy, Water, Sustainability, and Climate Risk Compliance

This project will be designed to conform to requirements of the *Facilities Standards for the Public Buildings Service*. GSA will focus on design and construction opportunities to increase energy and water efficiencies to minimize operating costs and greenhouse gas emissions, to incorporate sustainable design principles into projects, and identify and minimize climate risk liabilities above the minimum performance criteria in a manner that is life-cycle cost effective.

Prior Appropriations

None

Prior Committee Approvals

None

Prior Prospectus-Level Projects in Building (past 10 years)

None

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Alternatives Considered (30-year, present value cost analysis)

There are no feasible alternatives to this project. This is a limited scope renovation, and the cost of the proposed project is far less than the cost of leasing or constructing a new building.

Recommendation

ALTERATION


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Certification of Need

The proposed project is the best solution to meet a validated Government need.

Submitted at Washington, DC, on 4/6/2022

Recommended:  _____
Commissioner, Public Buildings Service

Approved:  _____
Administrator, General Services Administration