

DEPARTMENT OF BUDGET & MANAGEMENT

Capital Budget Information System (C.B.I.S.)

DBM Worksheet For Recommended Capital Projects

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Department of Planning Agency:

*FOR EXAMPLE PURPOSES ONLY - DATES DO Sub-Agency: Jefferson Patterson Park and Museum **NOT REFLECT ACTUAL PROJECT***

Institution:

Project Title: Maryland Archaeological Conservation Laboratory Expansion and Renovation

Project Description:

Description starts with a verb

4,260 NSF/4,692 GSF addition and renovate 13,262 NSF/14,566 GSF Archaeological Conservation (MAC) Laboratory, creating a 17,522 NSF/19,258 GSF facility. The MAC Lab, at the Jefferson Patterson Park and Museum in Calvert County, provides collections care and storage for the State's archaeological collections and records. This project will expand the storage capacity by adding more compactable shelving and increasing the footprint of the collections storage area. This project also includes improvements related to health and safety, disaster preparedness, and improved movement and treatment of artifacts. For example, the project will create a new space for the Isolation Room, install new equipment, and construct a loading dock. Due to the normal growth of the collection and the deposit of several unanticipated large collections, the facility is nearing its storage capacity. Without the needed expansion, important collections will have to be turned away, resulting in the real possibility of the loss of valuable Maryland artifacts. This project will ensure that the Lab can continue to accept new collections and to serve as the designated repository for the State's archaeological collections. The FY 2023 budget includes funding to complete the design of this project.

Estimated Project Cost and Recommended Funding: **Prior**

Estimated Totals match totals on CEW Estimated **Future**

Amount

Uses	Appropriations	Request	Recommended	Estimated	Totals
Planning	668,000	173,000	215,000	0	883,000
Construction	0	4,399,000	/ 7 0 \	9,285,000	9,285,000
Equipment	0	25,000	0	57,000	57,000
TOTAL	668,000	4,597,000	215,000	9,342,000	10,225,000
Sources GO Bonds	668,000	4,597,000	215,000	9,342,000	10,225,000
TOTAL:	668,000	4,597,000	21 <mark>5,000</mark>	9,342,000	10,225,000

Current

Current

Source(s) of Non-Budgeted Funds

TOTAL

Once a project has an A/E estimate, the requested construction funding should match the cash flow. Here, no construction funds are needed.

Totals match

Last sentence tells reader what the current year funds will be used for

Funding aligns with project schedule in CEW design will complete in FY 2023, so remaining design funds are provided. Construction will begin in FY 2024, so no construction or equipment funds are needed.

Department of Planning Agency:

Sub-Agency: Jefferson Patterson Park and Museum

Institution:

Project Title: Maryland Archaeological Conservation Laboratory Expansion and Renovation

DGS Cost Center Source of Estimate:

Project Detail:

91.0 % 17.522 19.258 Net Sq. Foot: Gross Sa. Foot: Percent Efficiency:

Capacity: 0 Unit Cost: 0

Status: Under Review

12/10/2018 Program Approval Part 1:

03/2022 Design Start Date:

Construction Start Date: 07/2023

07/2024 Completion Date:

Cost and Schedule in last CIP:

Program Approval Part 2:

Design Time:

Construction Time:

Schedule matches CEW

FY2023 Planned: \$4,699,000 (PCE) GO. The DBM recommended amount of \$215,000 (P) GO is \$4,484,000 less than the amount planned in the CIP, and will complete the design of this project. Planned FY 2023 funding originally included funds to begin construction and equipping of the project, however schedule changes due to the delay associated with facilities renewal work and scope changes has forced the deferral of construction to FY 2024.

Proposed NSF:

Area **Net Square Footage** Collections Shed Addition 3,670 Isolation Room and Loading Dock 590 Archival Storage/Materials Storage 510 Field Processing Rooms 320 Collections Storage Room 7,648 4,784 Pretreatment/Lab Area TOTAL: 17,522

Difference section explains why request differs from the prior year

Schedule indicates that funds will be

used in requested

fiscal year

"Proposed NSF" total matches NSF total under "Project Detail" above, in Project Description and Justification, and in CEW

Cost Per Square Foot:

Structural Cost: 391 /GSF (excludes sitework/utilities)

Total Contract Cost: 482 /GSF (includes sitework/utilities)

Supporting Comments for Recommendation:

If this project was funded in the prior fiscal year, delete first line of last year's recommended Supporting Comments. Then update for the FY 2023 request. These comments have already been approved by DBM, so no need to start from scratch!

FUND: DBM recommends \$215,000 (P) in GO bonds to complete the design of the Maryland Archaeological Conservation (MAC) Laboratory Expansion and Renovation. The MAC Lab at Jefferson Patterson Park and Museum provides collections care and storage for the State's archaeological collections and records. State and federal historic preservation laws require governmental entities to consider the effects of their projects on historic and archaeological resources through a consultation process known as "Section 106" review. These laws obligate the State to permanently curate and care for archaeological artifacts and field records retrieved by State action. The MAC Lab serves as the designated repository for the State's archaeological collections.

Agency: Department of Planning

Sub-Agency: Jefferson Patterson Park and Museum

Institution:

Project Title: Maryland Archaeological Conservation Laboratory Expansion and Renovation

The original requested amount for this project included funds for construction and equipping the facility, however this did not accurately reflect the project schedule according to DGS Cost Estimates, and has not been included. The Part I program for this project was approved December 10, 2018. Planned FY 2023 funding originally included funds to begin construction and equipping of the project, however schedule changes due to the delay associated scope changes has forced the deferral of construction to FY 2024.

Project Justification

Provide updates, such as changes to schedule or scope

When the MAC Lab was completed in 1998, its sterage capacity was projected to accommodate 15 years of collections intake. Today, 23 years later, the storage space of the lab is more than 86% full due to the normal growth of the collections from excavations (averaging 190 boxes per year) and the deposit of several large, unanticipated collections. Current storage space for 10,352 boxes will be full within the next two years based on average annual accessions and the likelihood that several large collections will be turned ever to the lab within that time frame. (The MAC Lab staff periodically becomes aware of collections that are in the process of being prepared for eventual transmittal.)

Quantitative data to justify project!

This request is meant to alleviate the problem of insufficient space at the MAC Lab through the construction and renovation of six existing spaces and construction of 4,260 NSF of additional space, including a loading

and renovation of six existing spaces and construction of 4,260 NSF of additional space, including a loading dock. The project will expand the storage capacity by adding more compactable shelving and increasing the footprint of the collections storage area. Other alterations to the facility include health, safety and disaster preparedness improvements such as additional fume extractors in the Range and Collections Workroom, a lift for moving collections to the second floor of Collections Storage, a loading dock off Shipping and Receiving, relocation of the artifact Isolation Room, and changes to the Field Processing and Material Science rooms. A stand-alone chiller will be added to the freeze dryer system, as well. Insulation of ceiling and walls will be upgraded and additional weatherization added. Mechanical systems, as well as sprinkler systems and the building enclosure, will be modified in some areas to accommodate the expansion, for health and safety reasons, and for energy savings.

Several critical findings from a building condition assessment performed by MS Engineers, Inc. in June 2016 resulted in funding in FY 2019 for four projects including a mechanical system upgrade, metal roof replacement, foundation replacement and waterproofing, and siding replacement through the Facility Renewal program. Due to budget constraints, not all of the recommended maintenance and renovations could be funded in FY 2019. Therefore, this request is amended to include additional critical maintenance including installation of another chiller and sprinkler head repair/replacement projects.

With the increased development of properties in Maryland and legally mandated cultural resource management guidelines, the intake of collections at the MAC Lab has in some years exceeded past projections. Without the needed expansion, important collections will have to be turned away, resulting in the possibility that valuable Maryland artifacts will be lost. Agencies like State Highway Administration, which must comply with State law regarding the recovery of archaeological artifacts before proceeding with road and other construction projects, would have to store these artifacts at other facilities at an additional cost to the State. Moreover, without the necessary system and facility changes related to health and safety, MAC Lab staff and volunteers will not have a safe environment in which to work.

Consequences of not doing the project

The newly expanded square footage will result in the MAC Lab being able to accept important new collections for storage and analysis while providing access to professionals for research opportunities. The proposed expansion and renovation will provide for another 40 years of collection growth: shelf space for 7,350 boxes, 90 storage cabinets, and 300 square feet of oversized storage floor space. The health and safety issues currently identified will be resolved. The State will be able to operate a lower cost facility if energy saving alterations and repairs are completed and mechanical systems throughout the building are updated.

Outcomes and benefits of the project

More justification!

Agency: Department of Planning

Sub-Agency: Jefferson Patterson Park and Museum

Institution:

Project Title: Maryland Archaeological Conservation Laboratory Expansion and Renovation

Attachment(s): 0

Related Project Information:

Budget ID: DW0108 Agency Priority: 0 of 1

Subdivision: Calvert Analyst: Ted Walsh

Legislative District: 27C DLR: 01/06/2021



11. Subtotal from Sections 8, 9, and 10

Capital Budget Information System (C.B.I.S.)

DEPARTMENT OF GENERAL SERVICES COST ESTIMATE WORKSHEET (CEW)

 Project Number
 HT-009-200-001
 Escalation set at 4.00% for 2021, 4.00% for 2021, 4.00% for 2021, 4.00% for 2023, 4.00% for 2023, 4.00% for 2023, 4.00% for 2024, 4.00%

Project Title Maryland Archaeological Conservation Laboratory Expansion and Renovati_i for succeeding calendar years

Agency Department of Planning Date Estimate Completed 4-Nov-19
SubAgency Jefferson Park and Museum Estimate Reference Point Jan-21

_	ency		- D-#	_	N 4					ate Estima	•		NOV-19
	bAgency		n Patterson							stimate Re			1 <mark>-21</mark>
	cation			Park and	Museum	Calvert Cour	ity			ource of E		DGS Cost	
Pre	epared By	Joe Pitru	izzella						R	Recommen		Joe Pitruzze	
1. D	esign Phase		Budget				2.	Project Typ	е		1 1		rent year until
	esign Period		Mar-22	Mar-23	12r	nonths	4.	Est. Bid Da		Apr-22	there	is a cons	truction contr
	onstruction P	eriod	Jul-23	Jul-24		nonths	6.	Est. Mid-Po		Feb-23	37 m	onths from ref	erence point
7. A	rea				GSF	NSF/NASF	E	ff. Factor	% Effici	ency		Total GSF	19,258
a1. N	ew		s Shed Add		4,032	3,670		1.10	-	1.0%		Total NSF	17,522
a2. N	ew	Isolation re	oom & Load	ding C	660	590		1.12	89	9.4%	\\/h	on vou un	odata Estimat
			TOTAL N	EW	4,692	4,260		1.10	90	0.8%			odate Estimat
b1. F	Renovation		torage/mate		575	510		1.13		3.7%			oint, increase
b2. F	Renovation		essing Roo		330	320		1.03	97	7.0%	cos	t per squa	are foot by
b3. F	Renovation		s Storage R		8,404	7,648		1.10		1.0%	brio	or vear's e	scalation. For
b4. F	Renovation	Pretreatm	ent/treatme	nt lab	5,257	4,784		1.10		1.0%	<u> </u>	•	s will be 4.0%
			TOTAL RI	EN	14,566	13,262		1.10	9	1.0%		2020, 11113	7 WIII DC 4.070
8.	Structure			GSF	\$/SF	Amo	unt						Amount
		D-II4:	011		- /	1 -		12a. Total	Construc	ction Conti	ngency	5.0%	414,192
a1.				4,032 x	1	1				g Premium	.9007	2.0%	165,677
a2.				660 x						struction SI	nare	0.0%	0
b1.			•	575 x	1	1			c Art Pre		iaic	0.5%	41,419
b2.			Ü	330 x	1	1 .		13. Inspe				3.2%	265,083
b3.				8,404 x	\	/		14. CPM		•		3.270	50,000
b4.		Pretreatme	nt/tre	5,257 _X	10	/		15a. Existi			ction		65,000
C.	2nd Chiller					950,0		16. A/E E	-		Otion	7.5%	652,352
d.	Built-in Equip					1,500,0		17. A/E S				1.5%	130,470
e.	Sprinkler rep					185,0		II. ALC	opeciai Si	EI VICES		1.070	100,470
f.	Information 7	Technology				+ 50,0		_					
g.	Subtotal					6,402,0		_					
h.	Subtotal with			g. x 1.00		6,402,0							
i.	Escalation to			h. x 17.6	33%	+ 1,128,6		_					
j.	Structure Su	btotal				7,530,7	55						
9.	Site							18a. Bldg.	Equip. C	ommissior	ing	1.0%	75,000
a.	General Site	Work	5% of Stru	ucture Sub	ototal	320,1				ruction Fe	es	0.0%	0
b.	None					+	0		eological,				25,000
C.	Subtotal					320,1		_ 19a. Mova					32,000
d.	Subtotal with	RCF		c. x 1.00)	320,1				chnology I	Equipmer	nt	25,000
e.	Escalation to	Mid-Pt		d. x 17.6	33%	+ 56,4		_ 20. Acqu	isitions				0
f.	Site Subtotal					376,5	38						
10.	Utilities					Amo	ount	t					
a.	General Utilit	y Work	5.0% of S	Structure S	Subtotal	320,	104						
b.	None					+	0	_					
C.	Subtotal					320,		_					
d.	Subtotal with	RCF		c. x 1.00)	320,							
e.	Escalation to	Mid-Pt		d. x 17.	63%		434						
f.	Utility Subtot	al				376,	538						

8,283,830

Project Number HT-009-200-001 Escalation set at 4.00% for 2021, 4.00% for 2022, 4.00% for 2023, 4.00% for 2024, 4.00% **CEW Title** MAC Lab Expansion & Renovation FY 2023

Maryland Archaeological Conservation Laboratory Expansion and Renovati_i for succeeding calendar years **Project Title**

Department of Planning **Date Estimate Completed** 4-Nov-19 Agency **SubAgency** Jefferson Patterson Park and Museum **Estimate Reference Point** Jan-21 Jefferson Patterson Park and Museum Calvert County **DGS Cost Center** Location Source of Estimate Joe Pitruzzella Joe Pitruzzella

Total Design, Construction, Equipment, and Total Project Cost should match worksheet (pg. 1).

Prepared By

21. TOTAL PROJECT COSTS

a. Acquisitions	0
b. Total Design Funds and Related Costs	883,000
b1. Prior Design Funds	668,000
b2. New Design Funds Required	215,000
c. Total Construction and Related Costs	9,285,000
c1. Prior Construction Funds	0
c2. New Construction Funds Required	9,285,000
d. Total Equipment 19a + 19b	57,000
Total Project Cost	10,225,000

Recommended By

10,225,000

Structural Cost at Mid-Pt \$391/GSF

Building, Structure, and Utilities Cost at Mid-Pt \$430/GSF \$482/GSF **Total Cost**

CEW Notes This CEW is base on the part I & II capital facility program dated March 2018; part 1 was approved by DBM on December 10, 2018 and the part II is currently being reviewed by DGS.



Include CEW note to explain every variation from standard formulas outlined in the CBIS manual, and to provide any other useful information that may help your OCB analyst understand the basis of the cost estimate