#### **DRAFT**

# PROGRAMMATIC ENVIRONMENTAL ASSESSMENT

Historic Anacostia District

# Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling, Washington, DC

Prepared for:

Sentinels of

**Department of the Air Force** 



February 2025

PEAX-007-57-UAF-1727349364

Letters or other written comments provided may be published in the Final Programmatic Environmental Assessment (EA). As required by law, substantive comments will be addressed in the Final EA and made available to the public. Any personal information provided will be kept confidential. Private addresses will be compiled to develop a mailing list for those requesting copies of the Final EA. However, only the names of the individuals making comments and their specific comments will be disclosed. Personal home addresses and phone numbers will not be published in the Final EA.



### **Draft Programmatic Environmental Assessment**

# Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling, Washington, DC

Responsible Agency: Department of the Air Force (DAF)

Cooperating Agency: None

Designation: Draft Programmatic Environmental Assessment

UNIQUE ID: PEAX-007-57-UAF-1727349364

Proposed Action: Implement the five-year physical development plans as outlined in the

Installation Development Plan.

Abstract: The DAF 11th Wing has prepared this Draft Programmatic

Environmental Assessment pursuant to the National Environmental Policy Act of 1969 and the DAF Environmental Impact Assessment Process Regulations. This Programmatic Environmental Assessment analyzes the potential environmental effects of implementing the projects identified in the updated and approved Installation Development Plan at the Joint Base Anacostia-Bolling (JBAB), Washington, DC, over a five-year period to support various missions. The Proposed Action includes ten separate projects located throughout JBAB, which include the construction of new facilities, infrastructure improvements (such as roads and utility lines), and demolition of obsolete facilities. The Proposed Action is needed to provide the facilities and infrastructure to meet the mission requirements of the 11th Wing and its tenant units. The Proposed Action would address deficiencies in existing facilities and infrastructure and provide the

space to accommodate future missions planned on JBAB.

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The DAF is aware of the November 12, 2024, decision in Marin Audubon Society v. Federal Aviation Administration, No. 23-1067 (D.C. Cir. Nov. 12, 2024). To the extent that a court may conclude that the Council on Environmental Quality regulations implementing National Environmental Policy Act (NEPA) are not judicially enforceable or binding on this agency action, the DAF has nonetheless elected to follow those regulations at 40 Code of Federal Regulations (C.F.R) Parts 1500–1508, in addition to the DAF's procedures/regulations implementing NEPA at 32 C.F.R. 989, to meet the agency's obligations under NEPA, 42 United States Code §§ 4321 et seq.

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#### **EXECUTIVE SUMMARY**

- 2 The Department of the Air Force (DAF) 11th Wing has prepared this Programmatic Environmental
- 3 Assessment (EA) to evaluate the potential environmental effects of implementing the projects identified
- 4 in the updated and approved Installation Development Plan (IDP) at the Joint Base Anacostia-Bolling
- 5 (JBAB), Washington, DC, over a five-year period (Fiscal Year (FY) 2025–FY2029).

#### 6 ES.1 Purpose of and Need for the Proposed Action

- 7 The purpose of the Proposed Action is to support JBAB's future mission requirements as outlined in the
- 8 updated and approved IDP. The overall purpose of the JBAB IDP is to ensure that management and
- 9 development of the real property assets of the installation support the planning vision, mission readiness,
- and quality of life for installation residents and employees.
- 11 The Proposed Action is needed to provide the facilities and infrastructure to meet the mission
- requirements of the 11th Wing and its tenant units. Overall, the construction of new facilities, demolition
- 13 of obsolete facilities, and infrastructure improvements (such as roads and utility lines) would address
- deficiencies in existing facilities and infrastructure and provide the space to accommodate future missions
- 15 planned on JBAB. The construction of new facilities would assist in accommodating an expanding
- service mission and growing workforce at JBAB in support of the IDP's goal to, "Promote and Strengthen
- 17 JBAB's Identity as an Urban Waterfront Military Community," and to support the consolidation of
- 18 similar facilities and land uses. The demolition of aging infrastructure would provide space for new
- 19 construction, compatible with the guidance and goals set forth by the National Capital Planning
- 20 Commission (NCPC). The infrastructure improvements would modernize JBAB's aging electrical
- 21 infrastructure and improve electrical reliability. The Proposed Action is also needed to increase vehicle
- and pedestrian capacity; to address increasing demand on mobility networks; and to create recreational
- trails to support JBAB's need for accessible, walkable development within the Housing and Community
- 24 Support District.

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#### 25 ES.2 Proposed Action

- The DAF 11th Wing proposes to implement projects identified in the updated and approved IDP at JBAB
- over a five-year period (FY2025–FY2029) to support various missions. The Proposed Action includes
- 28 10 separate projects located throughout JBAB. The 10 projects include the construction of new facilities,
- infrastructure improvements (such as roads and utility lines), and demolition of facilities. These 10
- 30 projects and their respective estimated construction timeframes are described below:
  - 1. Blanchard Barracks Demolition (FY2025): Demolish the vacant Blanchard Barracks and three adjacent buildings due to environmental concerns, lack of accessibility, and lack of habitability.
  - 2. Defense Information System Agency (DISA) Facility (FY2028–FY2029): Construct a facility to support DISA, including a main building, utility plant, gatehouse, and parking deck. This would accommodate an expanding service mission and growing workforce already at JBAB.
  - **3.** National Capital Region (NCR) Center of Excellence (FY2028–FY2029): Build a facility, and an associated parking garage, to consolidate 11th Wing and other DAF NCR-based missions. This would accommodate existing personnel and an anticipated 2,128 new employees.
    - **4.** Electric Switch Station Reliability Improvements (FY2026–FY2027): Modernize aging electrical infrastructure on JBAB to improve electrical reliability.
- 5. Reversible Travel Lane on Defense Blvd. (FY2026–FY2027): Reconfigure and widen Defense
   Boulevard on JBAB to add a third lane that would be reversible, bicycle lanes, and sidewalks.
   This would increase vehicle/pedestrian capacity during peak commuting times.

- 6. Connection of Waterfront Trail to Bellevue Housing (FY2026–FY2027): Create a
   recreational/multipurpose trail on JBAB, which would support JBAB's goal of accessible,
   walkable development.
  - 7. CSX Trail (FY2026–2027): Repurpose the CSX right-of-way and easement land into a pedestrian and bicycle trail to promote accessible, walkable development and provide a connection between Bellevue Housing and the Charter School.
  - **8.** Replacement Child Development Center (CDC) (FY2028–FY2029): Construct a new CDC facility to replace the existing facility slated for demolition and support additional children and staff.
  - **9. Medical Squadron (MDS) Clinic** (FY2028–FY2029): Build a new medical facility for the 316th MDS to consolidate MDS medical, dental, administrative, and operations support functions in one location. This project would not increase personnel.
  - 10. South Gate & Visitor Center (FY2028–FY2029): Replace the existing South Gate access control point facility, which is a dedicated entry point for visitors, and demolish seven existing installation houses to meet space and safety requirements. This project would better accommodate visitors, including drop-offs and pick-ups for the Charter School. This project would not increase personnel.

#### ES.3 Alternatives Considered

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- Alternatives were developed for analysis based on several baseline requirements. The DAF requires that they align with the military mission at JBAB and applicable Department of Defense (DoD) plans and criteria. DAF also used the following reasonable screening factors:
  - The projects must be included within the JBAB five-year IDP.
    - The projects must be compatible with the IDP District Plans regulating plans.
- The project sites should consolidate similar functions and organizations to maximize efficiencies.
- The project sites must meet DoD safety and antiterrorism requirements, including setbacks.
  - The projects must take environmental constraints and requirements into consideration.
  - The project sites should have existing access roadways and infrastructure to maximize efficiencies.
- 29 The DAF 11th Wing is considering a No Action Alternative and two action alternatives:
  - No Action Alternative: Under the No Action Alternative, the proposed construction of the five-year IDP projects would not occur. Activities that occur in existing facilities on JBAB would continue to operate in unconsolidated, geographically separated facilities; security requirements necessary for compliance with DoD and DAF guidelines would not be met; aging facilities and infrastructure would continue to deteriorate and require extensive and costly upkeep; and inefficient workarounds to meet mission requirements would continue. New mission partners programmed for JBAB would not be accommodated by the existing installation facilities.
  - Alternative 1 Implement IDP Five-Year Projects (Preferred Alternative): Under Alternative 1, the Proposed Action would be implemented. The locations of the 10 projects under Alternative 1 are described below:

Blanchard Barracks Demolition: The Blanchard Barracks and three other buildings that would be demolished under this project are located on approximately 20 acres within the Historic Bolling District.

- **2. DISA Facility**: The facilities would be redeveloped within the same area as Project 1, following demolition. The proposed site is within the Historic Bolling District.
- **3.** NCR Center of Excellence: The facilities would be constructed on a portion of Giesboro Park west of Chappie James Blvd. The proposed site is within the Sentinels of the Capital District.
- **4. Electric Switch Station Reliability Improvements**: The proposed corridor for this project is within the Historic Anacostia District, Sentinels of the Capital District, and Historic Bolling District.
- 5. Reversible Travel Lane on Defense Blvd.: This project would occur on Defense Blvd. from Boundary Road to the Firth Sterling Gate. The portion of Defense Blvd. is within the Historic Anacostia District.
- **6.** Connection of Waterfront Trail to Bellevue Housing: The new multi-use trail would connect the south end of the Waterfront Trail adjacent to the Slip Inn to the Bellevue housing area traveling through the Doolittle Park housing area. This project is located within the Housing and Community Support District.
- 7. CSX Trail: The repurposed CSX multi-use trail would connect the Air Force Honor Guard campus to the Bellevue housing area paralleling Duncan Avenue. The CSX right-of-way and easement is within the Historic Bolling District and Housing and Community Support District.
- **8. Replacement CDC**: The replacement CDC would be constructed adjacent to the JBAB Charter School, on a green field site adjacent to Hickam Village. This site is within the Historic Bolling District.
- **9. MDS Clinic**: The new 316th MDS Clinic facility would be constructed on McChord Street between Castle Avenue SW and Luke Avenue SW. This project is within the Historic Bolling District.
- **10. South Gate & Visitor Center**: This project would replace the existing South Gate and up to seven existing houses in Westover Estates would be demolished to provide space to fit all the gate components. The project is within the Housing and Community Support District.
- Several of the proposed projects are located within the 100-year or 500-year floodplain; therefore, a Finding of No Practicable Alternative (FONPA) and mitigation measures must be adopted under Alternative 1. Built facilities and any flood-susceptible utilities would comply with the standards and requirements set forth under Executive Order (EO) 11988 under United Facilities Criteria (UFC) 3-201-01 (2018).
  - Alternative 2 Alternative Siting for IDP Five-Year Projects: Under Alternative 2, the Proposed Action would be implemented; however, some of the projects would occur in different locations than Alternative 1, as described below:
    - 1. Blanchard Barracks Demolition: Same location as Alternative 1.
    - **2. DISA Facility**: The new DISA facilities would be constructed on a portion of Giesboro Park west of Chappie James Blvd. The proposed site is within the Sentinels of the Capital District.

- NCR Center of Excellence: The proposed site is within the Historic Bolling District, within the same area as Project 1. Four additional buildings on JBAB would be demolished to accommodate the redevelopment at this location.
  - **4. Electric Switch Station Reliability Improvements**: The proposed corridor for this project is similar to the Alternative 1 location but would be along a different route.
  - **5.** Reversible Travel Lane on Defense Blvd.: Same location as Alternative 1.
  - **6.** Connection of Waterfront Trail to Bellevue Housing: Same location as Alternative 1.
  - 7. CSX Trail: Same location as Alternative 1.
  - **8. Replacement CDC**: The replacement CDC would be built on vacant land north of McChord Street, east of Duncan Avenue, and west of Westover Avenue. The JBAB Historic Chapel, which is located within the same parcel, would remain in place and would be avoided. This site is in the Historic Bolling District.
  - 9. MDS Clinic: The 316th MDS Clinic functions would mostly remain in their existing locations. A one-story addition would be constructed on Building 17 and Building 1300 would be renovated. Building 3 would be vacated and its staff and operations would move to a new and renovated space, partially consolidating the MDS functions. This project is within the Historic Bolling District.
  - 10. South Gate & Visitor Center: Same location as Alternative 1.
- 19 Similar to Alternative 1, several of the projects are located within the 100-year or 500-year floodplain;
- 20 therefore, a FONPA and mitigation would be required under Alternative 2. Built facilities and any flood-
- 21 susceptible utilities would comply with the standards and requirements set forth under EO 11988 and
- 22 UFC 3-201-01 (2018).

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#### ES.4 Summary of Environmental Resources Evaluated in the Environmental Assessment

- 24 The Council on Environmental Quality (CEQ) National Environmental Policy Act (NEPA) Implementing
- 25 Regulations directs agencies to identify at an early stage the important environmental issues deserving
- analysis and to deemphasize issues with negligible, minimal, or nonexistent adverse effects, in order to
- 27 narrow the scope of the environmental review, enhance efficiency, and produce concise environmental
- documents. For this EA, the following resource areas are evaluated in detail for potential significant
- 29 effects: air quality, water resources, biological resources, cultural resources, infrastructure, noise,
- 30 hazardous materials and waste, and transportation. Installation resiliency-related effects were analyzed
- 31 and are briefly discussed in the air quality and water resources sections. The EA initially analyzed the
- 32 potential environmental effects on geological resources, land use, public health and safety, and
- 33 socioeconomics, and determined there would be minimal adverse effects to these resources. Therefore,
- 34 they are only briefly addressed in the EA.

#### 35 ES.5 Summary of Potential Environmental Consequences of the Alternatives

- 36 Table ES-1 summarizes the potential effects on the resource areas associated with the No Action
- 37 Alternative and the two action alternatives analyzed in this EA.

#### 38 ES.6 Public and Agency Engagement

- 39 JBAB land proposed for the five-year IDP projects includes areas within a floodplain; therefore, the
- 40 Proposed Action is subject to the requirements and objectives of EO 11988, Floodplain Management (42
- 41 Federal Register 26951, 1977). The DAF contacted federal and state regulatory agencies with special
- 42 expertise and published an early notice in *The Washington Times* that the Proposed Action would occur in

- 1 a floodplain. The notice solicited public comment on the Proposed Action and practicable alternatives.
- 2 Comments received during the 30-day comment period, included in Appendix B, were considered for the
- 3 Draft EA.
- 4 A Notice of Availability will be published in *The Washington Times* announcing the availability of the
- 5 Draft EA for a 30-day public review and comment. As necessary, the DAF will coordinate or consult with
- 6 agencies regarding the Proposed Action. Agency and public comments received will be considered in
- 7 preparing the Final EA.

**Table ES-1: Summary of Potential Effects on Resource Areas** 

Resource Area	No Action Alternative	Alternative 1: Implement IDP Five- Year Projects (Preferred Alternative)	Alternative 2: Alternative Siting for IDP Five-Year Projects
Air Quality	No change to existing air quality conditions. No significant effects.	Short-term, minor effects on air quality from demolition and construction activities. Long-term, minor effects from operations and vehicular travel from increased personnel. No significant effects.	Effects would be similar to Alternative 1, but slightly less, since slightly less criteria pollutant emissions would occur during construction. Intensity would still be the same (minor). No significant effects.
Water Resources	No change to existing water resources conditions. No significant effects.	Short-term, minor effects on groundwater, surface water, and floodplains from construction activities. Long-term, minor effects on groundwater, surface water, and floodplains from increased impervious surfaces. No effects on wetlands. No significant effects.	Effects would be similar to Alternative 1, but slightly less, since proposed ground disturbance and impervious surfaces would be slightly less. Intensity would still be the same (minor). No significant effects.
Biological Resources	No change to existing biological resources conditions. No significant effects.	Direct, minor effects on vegetation. Short-term, negligible wildlife effects. No long-term effects to wildlife habitat. No significant effects on threatened or endangered species, but monarch butterfly host plant milkweed could be affected under Project 6 and Project 8; coordination with USFWS is ongoing. No significant effects.	Effects would be similar to Alternative 1, but slightly less effects on monarch butterfly host plant milkweed; milkweed could be affected under Project 6. No significant effects.
Cultural Resources	No change to existing cultural resources conditions. No significant effects.	The DAF will consult with the DC SHPO on each individual project as sufficient information to inform consultation becomes available. DAF would first avoid, then minimize effects to historic resources. If adverse effects cannot be avoided, they would be mitigated through an agreement with the DC SHPO and other consulting parties as appropriate. If appropriate mitigation is identified and implemented, all projects would result in no significant effects.	The DAF will consult with the DC SHPO on each individual project as sufficient information to inform consultation becomes available. DAF would first avoid, then minimize effects to historic resources. If adverse effects cannot be avoided, they would be mitigated through an agreement with the DC SHPO and other consulting parties as appropriate. If appropriate mitigation is identified and implemented, all projects would result in no significant effects.

Resource Area	No Action Alternative	Alternative 1: Implement IDP Five- Year Projects (Preferred Alternative)	Alternative 2: Alternative Siting for IDP Five-Year Projects
Infrastructure	No change to existing infrastructure conditions. No significant effects.	Short-term, minor effects to utility infrastructure and services at JBAB during construction. Long-term, minor, adverse effects due to increased demand on infrastructure. Long-term, beneficial effects on electrical reliability at JBAB. No significant effects.	Effects would be similar to Alternative 1. No significant effects.
Noise	No change to existing noise levels. No significant effects.	Short-term, minor effects from construction activities. Long-term, minor effects from increase in traffic. Noise levels would not be uncommon within the existing environment. No significant effects.	Effects would be similar to Alternative 1. No significant effects.
Hazardous Materials and Waste	No change to existing conditions. No significant effects.	Short-term, minor, adverse effects during demolition and construction. Long-term, negligible, beneficial effects from reduced amounts of hazardous materials. No significant effects.	Effects would be similar to Alternative 1. No significant effects.
Transportation	No changes to the transportation network from the Proposed Action. Transportation effects would occur within the region due to external planned developments and background growth. Adverse long-term traffic effects would occur from five planned developments external to the JBAB installation.	Minimal effects on the pedestrian, bicycle, and transit networks. Long-term, adverse effects on traffic due to additional volume of vehicles. Three intersections would require mitigation to offset anticipated traffic effects. With mitigation, no significant effects.	Minimal effects on the pedestrian, bicycle, and transit networks. Long-term, adverse effects on traffic due to additional volume of vehicles. Three intersections would require mitigation to offset anticipated traffic effects. With mitigation, no significant effects.

Key: AFB = Air Force Base; DAF = Department of the Air Force; DC SHPO = District of Columbia State Historic Preservation Office; IDP = Installation Development Plan; JBAB = Joint Base Anacostia-Bolling; NRHP = National Register of Historical Places; USFWS = U.S. Fish and Wildlife Service.

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# Glossary of Abbreviations and Acronyms

Acronym	Definition
ACAM	Air Conformity Applicability Model
ACM	asbestos-containing materials
ADA	Americans with Disabilities Act
AFB	Air Force Base
AFFF	aqueous film-forming foam
AFI	Air Force Instruction
APE	area of potential effect
ART	Anacostia Riverwalk Trail
AT	antiterrorism
ATR	automatic traffic recorders
BGEPA	Bald and Golden Eagle Protection Act of 1940
BMPs	best management practices
CDC	Child Development Center
CEQ	Council on Environmental Quality
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CH <sub>4</sub>	methane
СО	carbon monoxide
CO <sub>2</sub>	carbon dioxide
CO <sub>2</sub> e	carbon dioxide equivalents
C.F.R.	Code of Federal Regulations
СТ	census tract
CTR	Comprehensive Transportation Review
DAF	Department of the Air Force
dB	decibel
dBA	A-weighted decibels

Acronym	Definition
DC	District of Columbia
DCA	Ronald Reagan Washington National Airport
DDOT	District Department of Transportation
DISA	Defense Information System Agency
DNL	Day-Night Average Sound Level
DoD	United States Department of Defense
DoDI	Department of Defense Instruction
DOEE	Department of Energy and Environment
DTM	Directive-type Memorandum
EA	Environmental Assessment
EB	Eastbound
EESOH-MIS	Enterprise Environmental, Safety, and Occupational Health Management Information System
EIAP	Environmental Impact Analysis Process
EIS	Environmental Impact Statement
ЕО	Executive Order
ERP	environmental restoration program
ESA	Endangered Species Act
FEMA	Federal Emergency Management Agency
FONPA	Finding of No Practicable Alternative
FONSI	Finding of No Significant Impact

Acronym	Definition
FRMS	Flood Risk Management System
FY	Fiscal Year
GHGs	greenhouse gases
HAP	hazardous air pollutant
HCM	Highway Capacity Manual
I-	Interstate
IDP	Installation Development Plan
ICRMP	Integrated Cultural Resources Management Plan
IFS	Installation Facility Standard
INRMP	Integrated Natural Resources Management Plan
IPaC	Information for Planning and Consultation
JBAB	Joint Base Anacostia-Bolling
LBP	lead-based paint
Leq	equivalent sound level
Lmax	maximum A-weighted sound level
LOS	level of service
MBTA	Migratory Bird Treaty Act of 1918
LVIS	large vehicle inspection station
MDS	Medical Squadron
MMRP	Military Munitions Response Program
MTA	Maryland Transit Administration
mton/yr	metric tons per year
N <sub>2</sub> O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAS	Naval Air Station

Acronym	Definition
NAVFAC	Naval Facilities Engineering Systems Command
NB	Northbound
NCPC	National Capital Planning Commission
NCR	National Capital Region
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NLEB	northern long-eared bat
NO <sub>2</sub>	nitrogen dioxide
NO <sub>x</sub>	nitrogen oxides
NOA	Notice of Availability
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
NRL	Naval Research Laboratory
$O_3$	ozone
PCBs	polychlorinated biphenyls
PEPCO	Potomac Electric Power Company
PFAS	per- and polyfluoroalkyl substances
PFOA	perfluorooctanoic acid
PFOS	perfluorooctane sulfonic acid
PM <sub>2.5</sub>	fine particulate matter less than or equal to 2.5 micrometers in diameter
PM <sub>10</sub>	suspended particulate matter less than or equal to 10 micrometers in diameter
POL	petroleum, oil, and lubricants
PSD	Prevention of Significant Deterioration

Acronym	Definition
RCRA	Resource Conservation and Recovery Act
SB	Southbound
SF	square feet
SGCN	species of greatest conservation need
SHPO	State Historic Preservation Office
SO <sub>2</sub>	sulfur dioxide
SOP	Standard Operating Procedure
ТНРО	Tribal Historic Preservation Office
tpy	tons per year

Acronym	Definition
UFC	United Facilities Criteria
U.S.	United States
U.S.C.	United States Code
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
v/c	volume to capacity
VOCs	volatile organic compounds
WMATA	Washington Metropolitan Area Transit Authority

# 1 Purpose of and Need for the Proposed Action

#### 1.1 Introduction

- 3 The Department of the Air Force (DAF) 11th Wing at Joint Base
- 4 Anacostia-Bolling (JBAB), Washington, DC, identified
- 5 construction, infrastructure, and demolition projects during its 2023
- 6 update of their Installation Development Plan (IDP) and proposes
- 7 to implement the updates over a five-year period (fiscal year [FY]
- 8 2025–FY 2029).

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- 9 The DAF has prepared this Programmatic Environmental
- Assessment (EA) to evaluate the potential environmental effects of
- 11 this Proposed Action in compliance with the National
- 12 Environmental Policy Act (NEPA) of 1969 (42 United States Code
- 13 [U.S.C.] 4321 et seq.), the President's Council on Environmental
- 14 Quality (CEQ) NEPA Implementing Regulations (40 Code of
- 15 Federal Regulations [C.F.R.] § 1500–1508), the DAF
- 16 Environmental Impact Analysis Process (EIAP) Regulations at 32
- 17 C.F.R. Part 989, and Air Force Instruction (AFI) 32-1015,
- 18 Integrated Installation Planning (Secretary of the Air Force, 2021).
- 19 Chapter 3 and Appendix A further detail the relevant federal and
- 20 state laws, statutes, regulations, orders, and policies applicable to
- 21 this EA.
- The information presented in this document will serve as the basis
- for deciding whether the Proposed Action would result in a
- significant effect on the human environment, requiring the
- 25 preparation of an Environmental Impact Statement (EIS), or
- 26 whether no significant effects would occur, in which case a Finding of No Significant Impact (FONSI)
- would be appropriate. If the execution of the Proposed Action would involve construction in a floodplain,
- 28 under Executive Order (EO) 11988, Floodplain Management (42 Federal Register 26951, 1977), the DAF
- would prepare a Finding of No Practicable Alternative (FONPA) in conjunction with the FONSI, if
- 30 warranted.
- 31 According to Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps, a significant
- 32 portion of JBAB, including land proposed for the five-year IDP projects, is within the 100-year floodplain
- and 500-year floodplain (FEMA, 2010a; FEMA, 2010b). EO 11988 requires federal agencies to avoid, to
- 34 the extent possible, the occupancy and modification of floodplains and to avoid floodplain development
- 35 wherever there is a practicable alternative. Per UFC 3-201-01 (2018), when mission needs require siting a
- 36 building within or partially within a flood hazard area, the project specific Basis for Flood Risk Design
- 37 should be obtained to determine the Design Flood Elevation required.
- In 1944, an earthen levee and concrete floodwall were constructed along JBAB's shoreline at a height of
- 39 12 feet above mean sea level to provide flood control (NCPC, 2008). However, sections of the floodwall
- 40 and the concrete levee wall (called the Flood Risk Management System [FRMS]) have deteriorated such
- 41 that flood control is impaired, resulting in the current floodplain status on JBAB. An EIS is underway to
- 42 study the FRMS on the installation. If the DAF selects an alternative from the EIS that would include
- repairs to the FRMS/levee to reinstate flood control to JBAB, the FRMS would likely be recertified by
- 44 the U.S. Army Corps of Engineers (USACE). However, because the FRMS/levee repairs have not been

#### Programmatic Environmental Assessment

A Programmatic Environmental Assessment is an Environmental Assessment analyzing all or some of the environmental effects of a policy, program, plan, or group of related actions. Federal agencies may use Programmatic Environmental Assessments to avoid duplicative analysis for individual actions by first considering relevant issues at a broad or programmatic level. Federal agency actions that may be appropriate for Programmatic Environmental Assessments include actions that have multiple stages or phases and are part of an overall plan or program (40 C.F.R. Parts 1501.11 and 1508.1).

- 1 completed, flooding is a concern at JBAB. Accordingly, the DAF would prepare a FONPA with a FONSI
- 2 for this Proposed Action, if found appropriate.

### 1.2 Background

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- 4 The IDP for JBAB is a critical master plan and comprehensive
- 5 document mandated by Department of Defense (DoD) policy
- 6 (Department of Defense Instruction [DoDI] 4165.70, Real
- 7 Property Management and United Facilities Criteria [UFC] 2-100-
- 8 01, Installation Master Planning) and DAF policy (AFI 32-1015).
- 9 The IDP encompasses a series of independent documents,
- including an IDP Framework, Installation Facility Standards (IFS),
- 11 District Plans for each installation district, various component
- 12 plans, and an execution plan. The IDP outlines JBAB's Planning
- 13 Vision, which establishes principles for optimal long-term
- development, defines goals and objectives guiding development in
- support of ongoing missions, identifies potential development
- opportunities, quantifies planning constraints, assesses
- development capacity, and evaluates the sustainability of the
- installation's growth.
- 19 The National Capital Planning Commission (NCPC), an
- 20 independent executive agency charged with oversight of the
- 21 development of federal property within the national capital region,
- 22 reviewed and provided input to the JBAB IDP. NCPC approved
- 23 the IDP on February 3, 2022, and the DAF finalized the IDP in
- 24 February 2022.

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#### 25 1.3 Location

- JBAB occupies 966 acres of land in southwest Washington, DC;
- 27 DAF owns 934 acres of this land (see Figure 1-1). JBAB was first established as a joint installation under
- Navy authority in 2010. The DAF became the responsible lead service under the 11th Wing in 2020. The
- 29 installation is the center of DAF and Navy ceremonial support, among other missions performed by the
- 30 more than 70 military and federal mission partners on the installation. JBAB is bounded by the Anacostia
- 31 River and the Potomac River to the west, South Capitol Street and Interstate 295 to the east, Poplar Point
- 32 and the Frederick Douglass Memorial Bridge to the north, and the Naval Research Laboratory to the
- 33 south. The Navy retained ownership of the northernmost portion of JBAB, as shown in Figure 1-1, after
- 34 the service lead transfer in 2020.

# 1.4 Purpose of and Need for the Proposed Action

- 36 The purpose of the Proposed Action is to implement the five-year physical development plans to support
- 37 JBAB's future mission requirements as outlined in the IDP. The overall purpose of the JBAB IDP is to
- 38 ensure that management and development of the real property assets of the installation support the
- 39 planning vision, mission readiness, and quality of life for installation residents and employees.
- The need for the Proposed Action is to provide the facilities and infrastructure to meet the mission
- 41 requirements of the 11th Wing and its tenant units. Overall, the construction of new facilities, demolition
- 42 of obsolete facilities, and infrastructure improvements (such as roads and utility lines) would address
- 43 deficiencies in existing facilities and infrastructure and provide the space to accommodate future missions
- planned on JBAB. More specifically, the construction of new facilities would assist in accommodating an

# **Installation Development Plan (IDP)**

The IDP serves as a comprehensive planning document, offering long-term guidance for development decisions. It plays a pivotal role in helping the installation meet its objectives related to capital facilities, land use, infrastructure support, sustainability, mission expansion, and modernization. The IDP takes shape through a collaborative process involving key stakeholders, decisionmakers, and leadership. It serves as the foundation for inputting planning data and actions into the DAF Civil Engineer Center Comprehensive Planning Platform, the primary planning tool for DAF installation planners.

- 1 expanding service mission and growing workforce at JBAB in support of the IDP's goal to "Promote and
- 2 Strengthen JBAB's Identity as an Urban Waterfront Military Community" and to support the
- 3 consolidation of similar facilities and land uses. The demolition of aging infrastructure would provide
- 4 space for new construction compatible with the guidance and goals set forth by NCPC. The infrastructure
- 5 improvements would modernize aging electrical infrastructure and improve electrical reliability. The
- 6 Proposed Action is also needed to increase vehicle and pedestrian capacity; to address increasing demand
- 7 on mobility networks; and to create recreational trails to support JBAB's need for accessible, walkable
- 8 development within the Housing and Community Support District.

### 1.5 Public, Agency, and Governmental Engagement

#### 10 1.5.1 Public and Agency Engagement

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- 11 Public engagement, including meaningful engagement with
- 12 communities is a critical part of the NEPA process. Public
- 13 engagement aids in the development of the scope of issues
- 14 addressed in an EA, identification of important and unimportant
- 15 issues related to a Proposed Action, and in making better informed
- decisions. Per the requirements of the Intergovernmental
- 17 Cooperation Act of 1968 (42 U.S.C. 4231(a)) and EO 12372,
- 18 Intergovernmental Review of Federal Programs (47 Federal
- 19 Register 30959, 1982), federal, state, and local agencies with
- 20 jurisdiction that could be affected by the Proposed Action will be
- 21 notified during the development of this EA.
- 22 As necessary, the DAF will consult with agencies regarding the
- 23 Proposed Action and EA. Such agency consultations will include,
- but is not limited to, the following: District of Columbia State
- 25 Historic Preservation Office (DC SHPO), District Department of
- 26 Energy and Environment (DOEE), NCPC, FEMA, District Department of Transportation (DDOT), U.S.
- 27 General Services Administration, and U.S. Fish and Wildlife Service (USFWS). Appendix B contains the
- 28 list of agencies consulted during this environmental review process and copies of correspondence.
- JBAB land proposed for the IDP projects includes areas within a floodplain; therefore, the Proposed
- 30 Action is subject to the requirements and objectives of EO 11988. The DAF published an early notice in
- 31 The Washington Times that the Proposed Action would occur in a floodplain. The notice solicited public
- 32 comment on the Proposed Action and practicable alternatives. Federal and state regulatory agencies with
- 33 special expertise were also contacted. Comments received during the 30-day comment period, included in
- 34 Appendix B, were considered for the Draft EA.
- 35 A Notice of Availability (NOA) of the Draft EA will be published in *The Washington Times*. The NOA
- 36 will invite the public to review and comment on the Draft EA and FONSI/FONPA, which will be
- 37 available for review online for 30 days. Comments received during this time will be included in Appendix
- 38 B of the Final EA.

#### CEQ's NEPA Implementing Regulations, as amended (40 C.F.R. Section 1501.9)

state that, "the purpose of public engagement is to inform the public of an agency's Proposed Action, allow for meaningful engagement during the NEPA process, and ensure decision makers are informed by the views of the public."

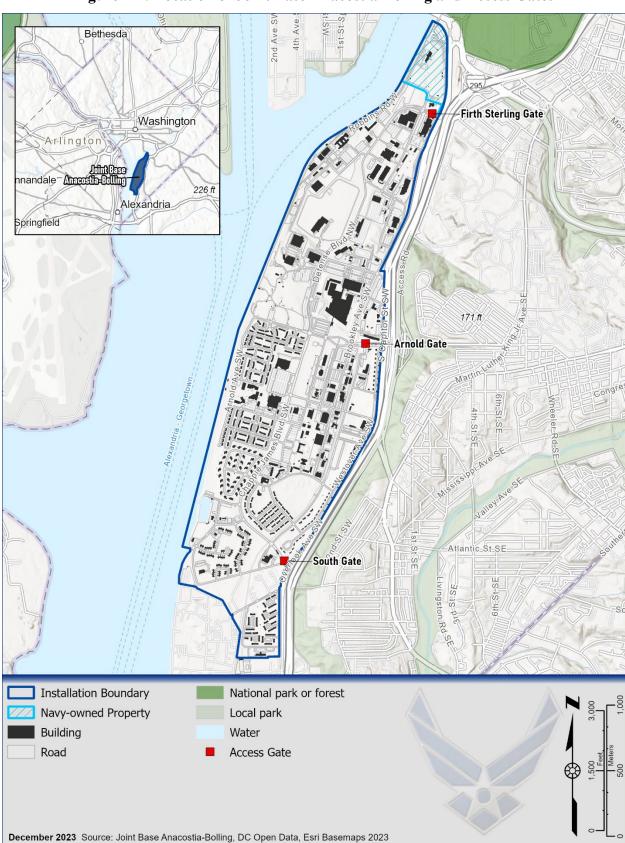


Figure 1-1: Location of Joint Base Anacostia-Bolling and Access Gates

#### 1.5.2 Governmental Engagement and Tribal Consultations

- 2 Per CEQ's NEPA Implementing Regulations, the purpose of governmental engagement is to identify the
- 3 potentially affected federal, state, tribal, and local governments and invite them to serve as cooperating
- 4 agencies, as appropriate, and ensure that participating agencies have opportunities to engage in the
- 5 environmental review process, as appropriate. EO 13175, Consultation and Coordination with Indian
- 6 Tribal Governments (65 Federal Register 67249, 2000), directs federal agencies to coordinate and consult
- 7 with Native American tribal governments whose interests might be directly and substantially affected by
- 8 activities on federally administered lands. Consistent with that EO; DoDI 4710.02, DoD Interactions with
- 9 Federally Recognized Tribes; and Department of the Air Force Instruction 90-2002, Interactions with
- 10 Federally Recognized Tribes, federally recognized tribes that are historically affiliated with the JBAB
- 11 geographic region will be invited to consult on all proposed undertakings that have a potential to affect
- properties of cultural, historical, or religious significance to the tribes. The tribal consultation process is
- distinct from NEPA consultation or the interagency coordination process, and it requires separate
- 14 notification to all relevant tribes. The timelines for tribal consultation are also distinct from those of other
- 15 consultations. The JBAB point of contact for Native American tribes is the Installation Commander. The
- 16 Installation Tribal Liaison Officer assists the Installation Commander as coordinator for tribal relations.
- 17 The Native American tribal governments, with which the DAF will consult regarding these actions, are
- 18 listed in Appendix B.

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### 19 1.6 Decision to Be Made

- 20 The EA evaluates whether the Proposed Action would result in significant effects to the human
- 21 environment. If significant effects are identified, JBAB would undertake mitigation to reduce adverse
- 22 effects to below the level of significance, undertake the preparation of an EIS addressing the Proposed
- Action, or abandon the Proposed Action.
- 24 This EA is a planning and decision-making tool that will be used to guide JBAB in implementing the
- 25 Proposed Action in a manner consistent with DAF standards for environmental stewardship.

# **2 Description of the Proposed Action and Alternatives**

## 2 2.1 Proposed Action

- 3 The DAF, 11th Wing proposes to implement projects identified in the approved installation development
- 4 and district plans over a five-year period to support various missions, which include construction of new
- 5 facilities, infrastructure improvements, and demolition of obsolete facilities. The Proposed Action
- 6 includes 10 separate projects, which are summarized in Table 2-1. The proposed locations for each
- 7 specific project are not identified below but are identified within the two action alternatives (see Sections
- 8 2.3.2 and 2.3.3).

**Table 2-1: Proposed Action Description** 

Project Number	Project Name	Estimated Construction Timeframe	Description
1	Blanchard Barracks Demolition	FY2025	This project is to demolish the Blanchard Barracks and three adjacent buildings (Buildings 3618, 3621, and 1301). In total, the demolition would be approximately 309,128 square feet (SF) over 20 acres, covering four buildings.  Blanchard Barracks, first built in the 1970s, contains environmental concerns such as asbestos-containing materials (ACM), mold, and lead-based paint that make renovation of the building prohibitive. In addition, the barracks do not meet Americans with Disabilities Act (ADA) guidelines for accessibility. The barracks are not habitable and are currently vacant. This demolition would be compatible with the guidance and goals set forth by NCPC.
2	Defense Information System Agency (DISA) Facility	FY2028– FY2029	Under this project, a facility to support a mission partner, DISA, would be constructed. The facility would be composed of a 5-story main building (with a footprint of 132,034 SF), a central utility plant/service building (8,100 SF), a gatehouse (1,400 SF), and a 3-story parking deck (with a footprint of 145,722 SF). This project would accommodate an expanding service mission and growing workforce at JBAB. The new facility would accommodate the existing approximately 1,400 DISA personnel on JBAB. This project would not result in an increase of personnel or parking for DISA; parking conditions would be consistent with a parking plan developed in coordination with NCPC.
3	National Capital Region (NCR) Center of Excellence	FY2028– FY2029	This project includes the construction of a new, 3-story facility (with a footprint of 155,077 SF) to consolidate 11th Wing headquarter missions and other DAF NCR-based missions. The building would provide space to accommodate the existing 643 personnel on JBAB and an anticipated 2,128 new employees from elsewhere in the NCR. An associated 3-story parking garage with a footprint of 134,173 SF would be constructed.
4	Electric Switch Station Reliability Improvements	FY2026– FY2027	This project would modernize aging electrical infrastructure on JBAB, which would improve electrical reliability on the installation. A new electrical substation would replace some or all components of two electrical switch stations and create a new tie line between the two switch stations.

Project Number	Project Name	Estimated Construction Timeframe	Description
5	Reversible Travel Lane on Defense Blvd.	FY2026– FY2027	This project would reconfigure and widen Defense Blvd. from Boundary Road to the Firth Sterling Gate to add a third lane that would be reversible. The project would also add bicycle lanes and sidewalks on both sides. The combination of bicycle lanes, sidewalks, and the third lane would increase vehicle/pedestrian capacity during peak commuting times and help address increasing demand on mobility networks on JBAB. Dynamic lane signs would be installed over the roadway to guide drivers with indicators when lanes are open or closed during peak traffic hours.
6	Connection of Waterfront Trail to Bellevue Housing	FY2026– FY2027	This project would create a recreational/multipurpose trail connecting Slip Inn to Deck Court and CSX rail line. This would support JBAB's goal of accessible, walkable development. The trail would help connect the housing and community support district with the existing waterfront trail and the proposed CSX trail, creating a continuous walking and bicycling route throughout JBAB.
7	CSX Trail	FY2026– FY2027	Under this project, the abandoned CSX tracks along CSX-owned right-of-way and DAF -owned right-of-way with a perpetual CSX easement would be repurposed to a pedestrian and bicycle trail. The proposed north-south multi-use trail would promote accessible, walkable development within the installation and create additional recreational opportunities. This trail would also provide a safe walking connection between the Bellevue Housing area and the Charter School.
8	Replacement Child Development Center (CDC)	FY2028– FY2029	There is an existing CDC facility in Building 413 within the Navy-owned portion of JBAB. Future uses of this property by the Navy might necessitate relocating the CDC. This project would construct a new CDC facility to replace the facility slated for demolition. The new facility would be a 1-story 30,000-SF structure designed to meet UFC space planning criteria. This facility would support approximately 320 children and 110 staff members at maximum capacity, which is an increase over the number children and staff at the CDC facility it would replace (260 children and 88 staff members).
9	Medical Squadron (MDS) Clinic	FY2028– FY2029	This project proposes a new medical facility for the 316th MDS. The existing medical facilities on JBAB are fragmented, in poor condition, and do not have adequate space to accommodate their mission. Under this proposed project, a new, 3-story facility with a 29,000-SF footprint would be built. This project would consolidate all MDS medical, dental, administrative, and operations support functions of the squadron in one location with adequate space to meet their mission and comply with DoD Defense Health Agency criteria. The space currently occupied by the MDS would be vacated (Building 3) or demolished (Building 1300 and Building 17). There would not be an increase in personnel at JBAB anticipated with this project.

Project Number	Project Name	Estimated Construction Timeframe	Description
10	South Gate & Visitor Center	FY2028– FY2029	This project would replace the current South Gate access control point facility, which is aging and does not meet current UFC 04-022-01 (Entry Control Facilities Access Control Points) requirements for safety and antiterrorism (AT) protection. The South Gate is the dedicated entry point for visitors, and currently provides two inbound lanes with an adjacent two-bay vehicle inspection station facility, and a turnaround for vehicles directed to the adjacent Visitor Center. The current Visitor Center is too small to handle the existing demand at the installation.  The South Gate would be reconfigured to better accommodate visitor access, including drop-offs and pick-ups serving the Charter School, and a modern Visitor Center would be constructed to better accommodate the mission.  The proposed new gate and roadway reconfiguration would bring the South Gate into compliance with UFC requirements, better facilitate visitor access, and create a school drop-off/pick-up area.  The proposed South Gate and Visitor Center project would require the demolition of seven existing installation houses located on Westover Avenue.  The South Gate and Visitor Center upgrade would not result in an increase in personnel.

The Proposed Action projects would occur over the five-year period FY2025–2029. The construction schedule for each project would vary within this timeframe, depending on the timing of the design schedule, funding, and other coordination requirements. Estimated staging of the projects over the five-year period are shown in Table 2-1. The Proposed Action would result in an increase of 2,150 personnel across the five new facilities at JBAB. This includes 2,128 new employees at the NCR Center of Excellence facility and 22 staff members at the proposed CDC. There would be no increases in personnel at the MDS Clinic or the South Gate & Visitor Center. The majority of the employees would reside off the installation and would commute to JBAB. Up to 60 additional children would be supported by Project 8 (Replacement CDC). These 60 additional spots could be filled by JBAB or federal employees that reside either on or off the installation.

#### 2.2 Selection Standards and Criteria

- 12 NEPA and CEQ's NEPA Implementing Regulations mandate the consideration of reasonable alternatives.
- 13 "Reasonable alternatives" could also be used to meet the purpose of and need for a Proposed Action. Per
- 14 the DAF EIAP Regulations at 32 C.F.R. Part 989, selection standards are used to identify reasonable
- 15 alternatives.

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- In addition to supporting the purpose of and need for the action, a reasonable alternative must meet the following baseline requirements:
  - Be compatible with the existing, ongoing military mission and activities at JBAB.
  - Meet anticipated future military mission and activities at JBAB.
- Be compatible with existing infrastructure and development at JBAB and its vicinity.

- Meet applicable DoD installation master planning criteria, consistent with UFC 2-100-01,
   Installation Master Planning (revision 08 April 2022).
  - Align with the DAF *Construction Growth Offset Policy* (20 May 2022), including requirements that all new construction growth on an DAF installation be offset by an equivalent building square footage demolished or placed into closed operational status.
  - Align with the 2011 DAF Civil Engineering Strategic Plan.
  - Meet current DoD facility design requirements in accordance with UFC 1-200-01, *DoD Building Code* (01 September 2022), and DAF requirements for functional space, consistent with DAF Manual 32-1084, *Standard Facility Requirements* (04 November 2023).
- Meet applicable DoD antiterrorism (AT) criteria, consistent with UFC 4-010-01, *DoD Minimum Antiterrorism Standards for Buildings*, and the DAF Installation Force Protection Guide.
  - Conform to the JBAB Installation Facilities Standards and JBAB Installation Design Guidelines, which ensure consistent and coherent architectural character throughout JBAB.
  - In selecting possible site alternative locations for the construction of the proposed five-year IDP projects at JBAB, the DAF evaluated sites that met the following selection standards:
    - Selection Standard A: The projects must be included within the JBAB five-year IDP.
    - Selection Standard B: The projects must be compatible with the IDP District Plans regulating plans.
    - Selection Standard C: The project sites should consolidate similar functions and organizations to maximize efficiencies.
    - Selection Standard D: The project sites must meet DoD safety and AT requirements, including setbacks.
      - Selection Standard E: The projects must take environmental constraints and requirements into consideration.
      - Selection Standard F: The project sites should have existing access roadways and infrastructure to maximize efficiencies.
- Installation planners review functional and spatial relationship concepts, current and planned facility locations, environmental conditions, and the existing installation setting to determine site availability and viability.
- 30 JBAB has been divided into four planning districts (Figure 2-1). The Historic Anacostia District, named
- 31 because it occupies the area of the former Naval Support Facility Anacostia, is at the northernmost end of
- 32 the installation and is composed of largely industrial and administrative land uses, although there are
- 33 fragmented uses throughout. The Sentinels of the Capital District have a mix of mission-focused and open
- 34 space land uses. The Historic Bolling District, named in reference to its location at the heart of the former
- Bolling Air Force Base (AFB), serves as the town center of JBAB with a mix of mission and community
- 36 support functions. The Housing and Community Support District in the southernmost area of JBAB is
- 37 predominantly family housing, and includes the commissary, base exchange, and other community
- 38 support facilities.

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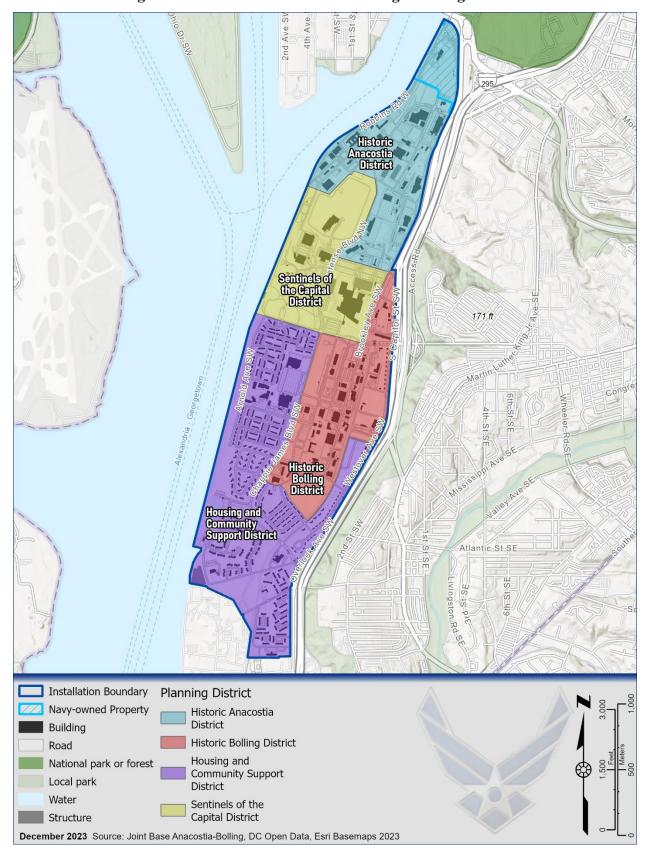


Figure 2-1: Joint Base Anacostia-Bolling Planning Districts

#### 1 2.2.1 Screening of the Action Alternatives

- 2 The DAF initially considered if the following potential alternatives achieved the purpose of and need for
- 3 the Proposed Action:

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- Alternative 1: Implement IDP Five-Year Projects (Preferred Alternative)
- Alternative 2: Alternative Siting for IDP Five-Year Projects
  - Alternative 3: Reconfigure Arnold Gate to Exit Only
  - Alternative 4: Implement IDP Five-Year Projects Without Transportation Improvements
- 8 The selection standards described in Section 2.2 were applied to these four alternatives to determine
- 9 which alternative(s) could serve the purpose of and need for the Proposed Action (Table 2-2). Those
- standards that were not met by a particular alternative state "No" highlighted in red. Additional
- information about the alternatives carried forward for analysis in provided in Section 2.3.

**Table 2-2: Screening of the Action Alternatives** 

Alternative Names	Selection Standard A: Within Five- year IDP	Selection Standard B: Compatible with IDP District Plans	Selection Standard C: Consolidate Functions to Maximize Efficiencies	Selection Standard D: Meet DoD Safety and AT Requirements	Selection Standard E: Considers Environmental Constraints	Selection Standard F: Existing Infrastructure
Alternative 1: Implement IDP Five-Year Projects	Yes	Yes	Yes	Yes	Yes	Yes
Alternative 2: Alternative Siting for IDP Five- Year Projects	Yes	Yes	Yes	Yes	Yes	Yes
Alternative 3: Reconfigure Arnold Gate to Exit Only	No	Yes	No	Yes	No	Yes
Alternative 4: Implement IDP District Five- Year Projects Without Transportation Improvements	Yes	No	Yes	No	Yes	Yes

## 12 2.3 Alternatives Carried Forward for Analysis

- 13 The NEPA process is intended to help agencies make informed decisions. CEQ's NEPA Implementing
- 14 Regulations require that agencies, "rigorously explore and objectively evaluate reasonable alternatives to
- 15 the Proposed Action, and for alternatives that the agency eliminated from detailed study, briefly discuss
- 16 the reasons for their elimination." Every conceivable alternative does not need to be considered; however,
- 17 agencies must consider a reasonable range of alternatives that will foster informed decision making.
- 18 As shown in Table 2-2, Alternatives 3 and 4 did not meet all of the selection criteria. Alternative 3 would
- involve reconfiguring Arnold Gate at JBAB to make it an exit only; however, this alternative site would

- 1 not consolidate similar functions and organizations to maximize efficiencies and has environmental
- 2 constraints. Alternative 4 would involve implementing the proposed IDP projects without the
- 3 transportation improvements; however, this alternative would not be compatible with IDP District Plans
- 4 and would not meet DoD safety and AT requirements.
- 5 Among the reasonable range of alternatives evaluated in this EA is a No Action Alternative, which is
- 6 required per the DAF EIAP Regulations at 32 C.F.R. 989.8(d). The No Action Alternative will analyze
- 7 effects of not undertaking the Proposed Action and will serve to establish a comparative baseline for
- 8 analysis.
- 9 Two action alternatives—Alternative 1: Implement IDP Five-Year Projects (project locations shown in
- 10 Figure 2-2) and Alternative 2: Alternative Siting for IDP Five-Year Projects (project locations shown in
- 11 Figure 2-3)—were found to meet the purpose of and need for the Proposed Action and to satisfy the
- selection standards. These two action alternatives, and a No Action Alternative, are carried forward for
- detailed analysis in this EA. As shown in Table 2-2, Alternatives 3 and 4 did not meet all of the selection
- 14 criteria. These alternatives considered, but eliminated from further consideration, are discussed in Section
- 15 2.4.

16

#### 2.3.1 No Action Alternative

- 17 Under the No Action Alternative, the proposed construction of the five-year IDP projects would not
- 18 occur. Activities that occur in existing facilities on JBAB would continue to operate in unconsolidated,
- 19 geographically separated facilities; security requirements necessary for compliance with DoD and DAF
- 20 guidelines would not be met; aging facilities and infrastructure would continue to deteriorate and require
- 21 extensive and costly upkeep; and inefficient workarounds to meet mission requirements would continue.
- New mission partners programmed for JBAB would not be accommodated by the existing installation
- facilities. The No Action Alternative would not meet the purpose of and need for the Proposed Action.
- However, it is carried forward for further analysis, consistent with DAF regulations, to provide a baseline
- against which the effects of the Proposed Action and alternatives can be assessed.

#### 26 2.3.2 Alternative 1: Implement IDP Five-Year Projects (Preferred Alternative)

- 27 Under Alternative 1 (the Preferred Alternative), JBAB would implement the 10 projects listed and
- described in the Proposed Action (Section 2.1).
- The locations of the 10 proposed projects are described in Table 2-3 below. These project locations are
- depicted in Figure 2-2 and Figure 2-3.

Table 2-3: Alternative 1 Project Locations

Project Number	Project Name	Alternative 1 Project Locations
1	Blanchard Barracks Demolition	The Blanchard Barracks and three other buildings that would be demolished under this project are located on approximately 20 acres within the Historic Bolling District.
2	DISA Facility	Following the demolition associated with Project 1, the site would be redeveloped with a new DISA facility. The redevelopment would include a 5-story main building, a central utility plant/service building, a gatehouse, and a new multi-level parking deck. The proposed site is within the Historic Bolling District.

Project Number	Project Name	Alternative 1 Project Locations
3	NCR Center of Excellence	The NCR Center of Excellence and an associated parking garage would be constructed on a portion of Giesboro Park west of Chappie James Blvd. Three of the five softball fields in Giesboro Park would be retained for recreation. The remaining two softball fields in Giesboro Park not adjacent to MacDill Blvd. would be redeveloped. The proposed site is within the Sentinels of the Capital District.
4	Electric Switch Station Reliability Improvements	The proposed corridor for this project is within the Historic Anacostia District, Sentinels of the Capital District, and Historic Bolling District.
5	Reversible Travel Lane on Defense Blvd.	This project would occur on Defense Blvd. from Boundary Road to the Firth Sterling Gate and would include bicycle lanes and new sidewalks. The portion of Defense Blvd. is within the Historic Anacostia District.
6	Connection of Waterfront Trail to Bellevue Housing	The proposed new multi-use trail would connect the south end of the Waterfront Trail adjacent to the Slip Inn to the Bellevue housing area traveling through the Doolittle Park housing area. This project is located within the Housing and Community Support District.
7	CSX Trail	The abandoned CSX tracks along CSX-owned right-of-way and DAF -owned right-of-way with a perpetual CSX easement would be repurposed to a multi-use trail. The trail would connect the Air Force Honor Guard campus to the Bellevue housing area paralleling Duncan Avenue. The CSX right-of-way is within the Historic Bolling District and Housing and Community Support District.
8	Replacement CDC	The replacement CDC would be constructed adjacent to the JBAB Charter School, on a green field site adjacent to Hickam Village, which would consolidate educational and youth support facilities in one area on the installation. This location is within the 500-year floodplain; mitigation measures would be incorporated into the project in accordance with applicable EO's, DoD building codes, and UFC standards. This site is within the Historic Bolling District.
9	MDS Clinic	The new 3-story 316th MDS Clinic facility would be constructed on McChord Street between Castle Avenue SW and Luke Avenue SW. This location would consolidate JBAB's medical facilities within the core town center in proximity to other community facilities. This project is within the Historic Bolling District.
10	South Gate & Visitor Center	This project would replace the existing South Gate with a new AT-compliant facility with more capacity, a modern visitor center, and drop-off/pick-up area serving the Charter School. Up to seven existing houses in Westover Estates would be demolished to provide space to fit all the gate components. The project is within the Housing and Community Support District.

Several of the proposed projects are located within the 100-year or 500-year floodplain; therefore, a FONPA and mitigation measures must be adopted for implementation to occur. Mitigation measures could include, for example, elevating buildings, implementing floodproofing measures, or other mitigation, and would be determined in the design phase of each applicable project. Built facilities and

5 any flood-susceptible utilities would comply with the standards and requirements set forth under

6 EO 11988 and UFC 3-201-01 (2018). The floodplains and affected projects are shown in Figure 2-2 and

Figure 2-3, and effects associated with the floodplains are further discussed in Section 3.2.

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2

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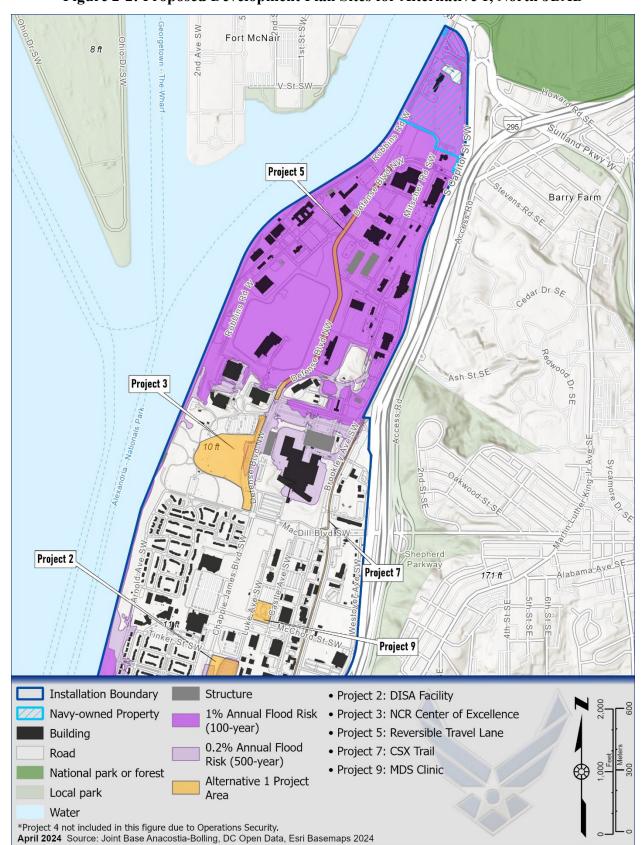


Figure 2-2: Proposed Development Plan Sites for Alternative 1, North JBAB

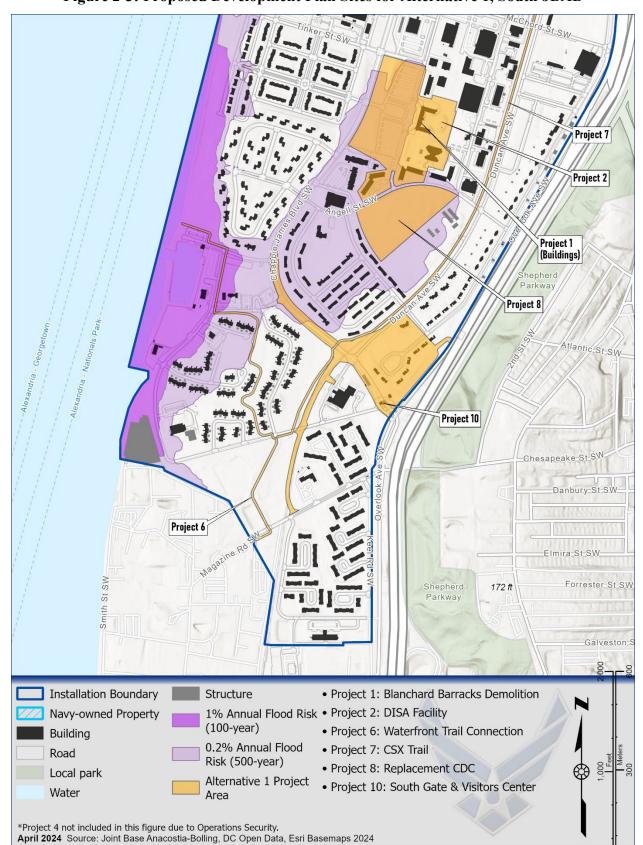


Figure 2-3: Proposed Development Plan Sites for Alternative 1, South JBAB

### 1 2.3.3 Alternative 2: Alternative Siting for IDP Five-Year Projects

- 2 Under Alternative 2, JBAB would construct the 10 projects as listed and described in the Proposed Action
- 3 (Section 2.1); however, some of these projects would occur in different locations than Alternative 1. For
- 4 Alternative 2, the locations of the 10 projects are described in Table 2-4 below. These project locations
- 5 are depicted in Figure 2-4 and Figure 2-5.

**Table 2-4: Alternative 2 Project Locations** 

Project Number	Project Name	Alternative 2 Project Locations
1	Blanchard Barracks Demolition	Same location as under Alternative 1.
2	DISA Facility	The new DISA facilities (5-story main building, central utility plant/service building, gatehouse, and 3-level parking deck) would be constructed on a portion of Giesboro Park west of Chappie James Blvd. Three of the five softball fields in Giesboro Park would be retained for recreation. The remaining two softball fields in Giesboro Park not adjacent to MacDill Blvd. would be redeveloped.
3	NCR Center of Excellence	Following the demolition associated with Project 1, the site would be redeveloped with the NCR Center of Excellence. Four additional buildings on JBAB would be demolished to accommodate the redevelopment at this location, including Building 1303, Building 1304, Building 1305, and Building 1306. This project would include a new 3-story facility and a new multi-level parking deck.
4	Electric Switch Station Reliability Improvements	The proposed corridor for this project is similar to the Alternative 1 location but would be along a different route.
5	Reversible Travel Lane on Defense Blvd.	Same location as under Alternative 1.
6	Connection of Waterfront Trail to Bellevue Housing	Same location as under Alternative 1.
7	CSX Trail	Same location as under Alternative 1.
8	Replacement CDC	The replacement CDC would be built on vacant land north of McChord Street, east of Duncan Avenue, and west of Westover Avenue. The JBAB Historic Chapel, which is located within the same parcel, would remain in place and would be avoided. This site is in the Historic Bolling District.
9	MDS Clinic	The 316th MDS Clinic functions would mostly remain in their existing locations. A 10,000-SF one-story addition would be constructed on Building 17 and Building 1300 would be renovated. Building 3 would be vacated and its staff and operations would move to the new and renovated space, partially consolidating the MDS functions. This project is within the Historic Bolling District.
10	South Gate & Visitors Center	Same location as under Alternative 1.

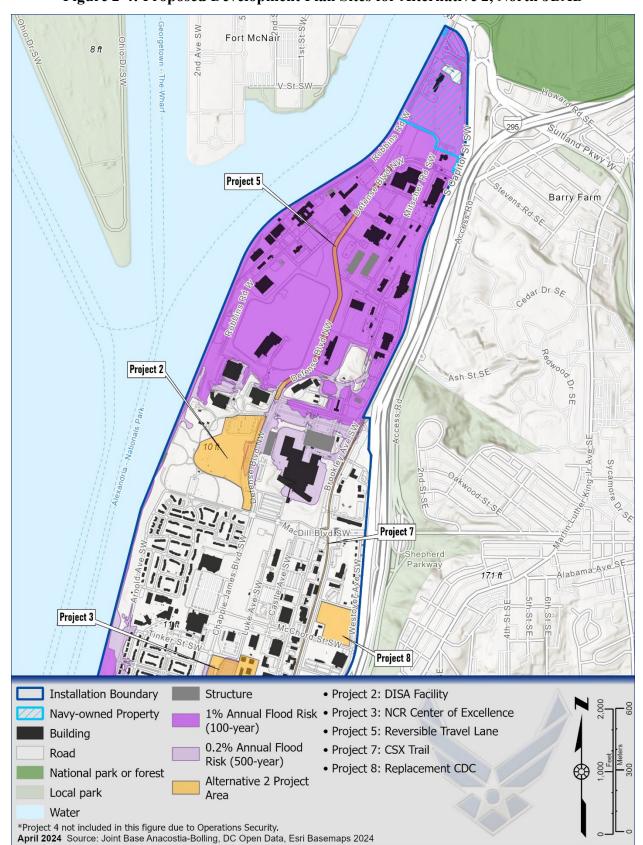


Figure 2-4: Proposed Development Plan Sites for Alternative 2, North JBAB

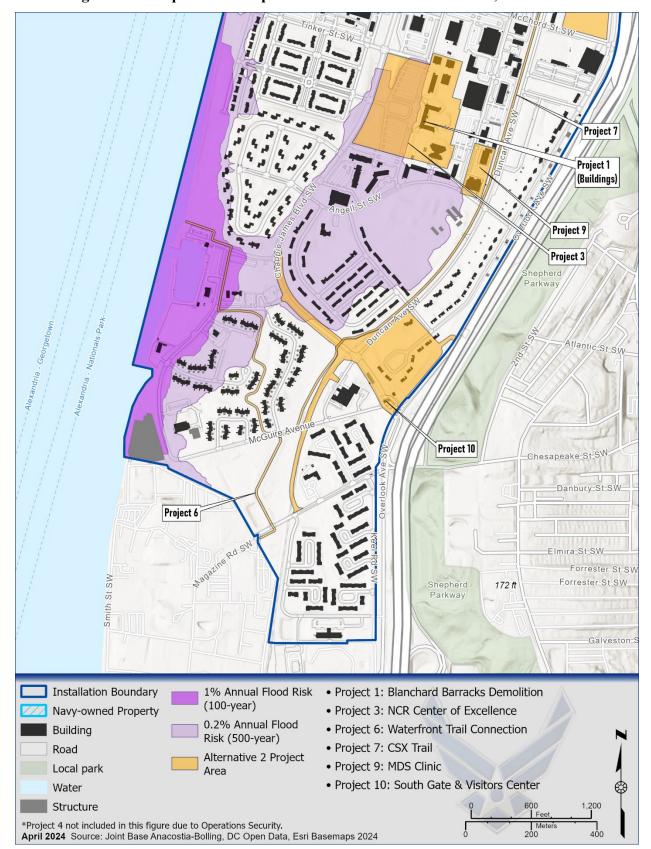


Figure 2-5: Proposed Development Plan Sites for Alternative 2, South JBAB

- 1 Similar to Alternative 1, several of the proposed projects are located within the 100-year or 500-year
- 2 floodplain; therefore, a FONPA and mitigation would be required for project implementation. Mitigation
- 3 measures could include, for example, elevating buildings, implementing floodproofing measures, or other
- 4 mitigation, and would be determined in the design phase of each applicable project. Built facilities and
- 5 any flood-susceptible utilities would comply with the standards and requirements set forth under
- 6 EO 11988 and UFC 3-201-01 (2018). The floodplains and affected projects are shown in Figure 2-4 and
- 7 Figure 2-5, and effects associated with the floodplain are further discussed in Section 3.2, Water
- 8 Resources.

9

# 2.4 Alternatives Considered but not Carried Forward for Detailed

### 10 Analysis

- 11 Per the DAF EIAP Regulations at 32 C.F.R. 989.8(c), the DAF may expressly eliminate alternatives from
- detailed analysis. Reasonable selection standards were applied to determine whether action alternatives
- 13 considered meet the project's purpose and need and satisfy the selection criteria. Accordingly, the
- 14 following alternatives have been eliminated from further consideration based on the screening results
- presented in Section 2.2.

### 16 2.4.1 Reconfigure Arnold Gate to Exit Only

- 17 The DAF considered an alternative that would implement the 10 proposed projects described in Section
- 18 2.1 and cease using the Arnold Gate as an entry point for vehicles, converting it to an exit-only gate. The
- Arnold Gate has documented capacity issues as an entry point, and the proposed reconfiguration of the
- 20 South Gate (Project 10) and the new Large Vehicle Inspection Station (LVIS) and entry point at the Firth
- 21 Sterling Gate (planned for construction beginning in 2025) would accommodate vehicles entering the
- 22 installation. While this alternative would address UFC compliance requirements at the gate and alleviate
- 23 the capacity concerns, additional planning considerations would be required. Given the complexity of the
- 24 desired gate modifications, the JBAB Transportation Management Plan lists the target date as 2031
- 25 (AFCEC, 2022). As a result, this project is not best suited for analysis and implementation during this
- five-year period. Therefore, it is not carried forward for further analysis in this EA.

### 27 2.4.2 Implement IDP Five-Year Projects Without Transportation Improvements

- 28 The DAF considered implementation of the five-year projects without the transportation improvements
- 29 (Project 5, Reversible Travel Lane on Defense Blvd. and Project 10 South Gate reconfiguration). This
- would not meet all criteria listed in Section 2.2, specifically it would not meet anticipated future military
- 31 mission and activities at JBAB and would not meet DoD safety and AT requirements, including setbacks,
- 32 consistent with UFC 4-010-01. Therefore, this alternative is not carried forward for further analysis in this
- 33 EA.

# 3 Affected Environment and Environmental Consequences

The affected environment sections within this chapter describe the existing environmental conditions for those relevant resource areas affected by the alternatives, including reasonably foreseeable environmental trends and planned actions in the area. The affected environment discussion informs the environmental consequences analysis and mitigation measures. The environmental consequences sections within this chapter include a discussion of the reasonably foreseeable direct and indirect environmental effects of implementing the alternatives on the relevant resource areas. The No Action Alternative serves as the baseline against which the Proposed Action and other alternatives are compared. Due to the proposed projects having varying locations throughout the installation, the study area for this analysis generally includes all of the JBAB property; however, the specific study area may vary among resource areas depending on the extent to which that resource may be affected.

CEQ's NEPA Implementing Regulations directs agencies to identify at an early stage the important environmental issues deserving analysis and to deemphasize issues with negligible, minimal, or nonexistent adverse effects, in order to narrow the scope of the environmental review, enhance efficiency, and produce concise environmental documents. Issues deemed negligible or not relevant to the Proposed Action must be only briefly discussed. For this EA, the following resource areas were evaluated in detail for potential significant effects: air quality, water resources, biological resources, cultural resources, infrastructure, noise, hazardous materials and waste, and transportation. Anticipated installation resiliency-related effects on the affected environment were analyzed and are briefly discussed in the air quality, water resources, and biological resources sections. The potential environmental effects on several resource areas were initially analyzed and determined to be insignificant issues due to their minimal adverse effects. The following summarizes those resource areas not analyzed in detail and the basis for this conclusion:

Geological Resources: Geological resources include topography, geology, and soils. Past development activities, including shoreline stabilization and floodplain modifications, have dramatically altered the topography and soils at JBAB. Most soil types at JBAB (86.4 percent) are soil complexes that have been highly disturbed or have an urban component due to human activities. The remaining 13.6 percent of soils are Melvin silt loam (5.8 percent), Dunning soils (5.0 percent), Keyport soils (1.6 percent), and Muirkirk soils (1.2 percent). None of the soils at the project sites are classified as highly erodible (DAF, 2021).

Ground disturbance would be similar under either action alternative. Prior to construction of the proposed projects, a geotechnical report would be prepared that identifies and addresses site-specific limitations. Per EO 11988 and UFC 3-201-01 (2018), mitigation measures would be adopted to ensure the built facilities and any flood-susceptible utilities would be outside of the 100-year flood elevation; these measures would be determined in the design phase of each applicable project. One potential measure would be to use fill material to elevate such facilities to a minimum of three feet above the floodplain, which would alter the topography of the project sites. Pursuant to the Energy Independence and Security Act (Section 438), post-development hydrology of the site would meet or improve the pre-development hydrology, which includes the slopes that facilitate stormwater drainage. All ground-disturbing activities, including importing fill material, soil removal, grading, excavating, and recontouring, would incorporate site-specific best management practices (BMPs) to reduce the potential for erosion and sedimentation. Incorporation of site-specific engineering measures in the geotechnical reports during site design and use of BMPs would limit erosion and sedimentation during construction. Under the Proposed Action, no significant effects on geological resources would be expected. Therefore, geological resources are not analyzed in further detail.

- 1 Land Use: Land use includes current and planned uses and the regulations, policies, and zoning that
- 2 pertain to land use management and restrictions. The affected environment for land use is characterized
- 3 within future development plans, land use studies, site management plans, and other planning documents.
- 4 The IDP at JBAB is the primary long-term document to support the planning vision of the installation;
- 5 therefore, implementation of the proposed projects would occur in a manner that fully considers the
- 6 installation's planning districts, land use categories, and planning constraints. The 10 projects under the
- 7 Proposed Action are generally consistent with the established IDP framework plans and would not
- 8 represent significant changes in existing land uses or land use intensities, nor would they have potential to
- 9 significantly impact land use outside of the installation. There would be no changes in land use
- 10 compatibility on JBAB under either action alternative. Therefore, land use is not analyzed in further
- 11 detail.
- 12 Public Health and Safety: Public health and safety includes activities, occurrences, or operations that
- have the potential to affect the safety, well-being, or health of installation personnel or members of the
- 14 public pertaining to construction activities, operations, community emergency services, and
- 15 environmental health and safety risks. Construction and demolition activities increase short-term safety
- risks. Contractors performing construction activities would be required to prepare and follow safety
- 17 protocols appropriate for specific construction and demolition tasks, and to comply with applicable
- worker safety laws. Under Alternatives 1 and 2, the demolition of several vacant structures that contain
- 19 hazardous materials like lead and asbestos would reduce the long-term risk posed by these substances
- once they have been removed from the installation. Neither alternative would conflict with operational
- 21 safety constraints during construction or once the proposed facilities are operational. The new
- infrastructure would be secure and located within installation boundaries where public access is restricted.
- 23 In addition, JBAB has on-base emergency and security services that would provide fire and police support
- for either Alternatives 1 or 2.
- No adverse effects on the health and safety of the public would be expected, as construction and
- demolition activities would occur within the boundaries of JBAB, which is not open to the public. Both
- 27 alternatives could result in long-term, beneficial effects on public health and safety, as the updated South
- 28 Gate and associated visitor center would allow for additional capacity, reducing traffic backups on
- roadways. The construction of additional bike lanes, sidewalks, and trails would enhance the safety of
- residents and visitors to the installation.
- 31 For these reasons, public health and safety is not analyzed in further detail.
- 32 Socioeconomics: Construction and demolition would have negligible, beneficial effects on the local and
- regional economy from employment and the purchase of goods and services. In the short-term,
- 34 construction personnel would be required and could be filled by the Washington, DC area population.
- 35 Indirect employment opportunities could result from an increase in local expenditures on or outside of
- 36 JBAB (e.g., gas stations, convenience stores, restaurants). These effects would be negligible given the
- 37 size of the Washington, DC metropolitan area.
- 38 In the long-term, an increase of 2,150 JBAB employees is anticipated under the Proposed Action.
- 39 Approximately 22 new staff would be needed at the replacement CDC, which would be filled by the
- 40 general public. Approximately 2,128 new personnel associated with the NCR Center of Excellence would
- be federal employees. It is anticipated all new staff already reside within the NCR and employee
- 42 relocation is not expected. The Proposed Action is not expected to affect the population, employment
- 43 characteristics, schools, local services (such as law enforcement, fire protection, or medical services) or
- 44 housing occupancy status in the region. Therefore, socioeconomic resources are not analyzed in detail.

### 1 3.1 Air Quality

- 2 This discussion of air quality includes criteria pollutants, standards, sources, permitting, and greenhouse
- 3 gases (GHGs). Air quality in a given location is defined by the concentration of various pollutants in the
- 4 atmosphere. A region's air quality is influenced by many factors, including the type and amount of
- 5 pollutants emitted into the atmosphere, the size and topography of the air basin, and the prevailing
- 6 meteorological conditions.

7

### 3.1.1 Regulatory Setting

- 8 Under the Clean Air Act, the U.S. Environmental Protection Agency (USEPA) established National
- 9 Ambient Air Quality Standards (NAAQS; 40 C.F.R. Part 50) for principal pollutants. These pollutants—
- 10 called criteria pollutants—include carbon monoxide (CO), sulfur dioxide (SO<sub>2</sub>), nitrogen dioxide (NO<sub>2</sub>),
- ozone (O<sub>3</sub>), Volatile Organic Compounds (VOCs), suspended particulate matter less than or equal to 10
- micrometers in diameter ( $PM_{10}$ ), fine particulate matter less than or equal to 2.5 micrometers in diameter
- 13 (PM<sub>2.5</sub>), and hazardous air pollutants (HAPs) (including lead). Areas where the measured concentrations
- of these criteria pollutants meet or are cleaner than the NAAQS are called attainment areas. Areas that
- 15 violate a federal air quality standard are designated as nonattainment areas. State Implementation Plans
- are then prepared to identify the measures by which that area will achieve attainment. Areas that have
- 17 transitioned from nonattainment to attainment are designated as maintenance areas and are required to
- 18 adhere to maintenance plans to ensure continued attainment. In some cases, the USEPA is not able to
- determine an area's status with available information, and those areas are designated as unclassifiable and
- 20 considered to be in attainment.

### 21 3.1.2 Affected Environment

- 22 JBAB is located in Washington, DC, within the National Capital Interstate Air Quality Control Region
- 23 (40 C.F.R 81.12). DOEE is responsible for implementing and enforcing air quality regulations within
- Washington, DC, which the USEPA has determined to be in moderate nonattainment with the 2015 8-
- 25 hour ozone NAAQS. Washington, DC was redesignated to maintenance for the 2008 8-hour ozone
- 26 NAAOS and the carbon monoxide NAAOS (USEPA, 2023b). Washington, DC is in attainment for all
- 27 other criteria pollutants, though it was previously designated as a maintenance area for PM<sub>2.5</sub> before that
- standard was subsequently revoked. Table 3-1 shows the most recent criteria pollutants inventory for
- Washington, DC and the National Capital Interstate Air Quality Control Region.

Table 3-1: District of Columbia Criteria and Hazardous Air Pollutant Air Emissions Inventory (2020)

Location	NO <sub>x</sub> (tpy)	VOC (tpy)	CO (tpy)	SO <sub>2</sub> (tpy)	PM <sub>10</sub> (tpy)	PM <sub>2.5</sub> (tpy)	Total HAP (tpy)
District of Columbia	3,030	7,748	23,459	20	4,347	1,249	1,118
National Capital Air Quality Control Region	33,670	92,014	304,641	3,681	41,492	14,903	13,100

- 30 Source: (USEPA, 2023a)
- Key:  $NO_x$  = nitrogen oxides; VOC = volatile organic compound; CO = carbon monoxide;  $SO_2$  = sulfur dioxide;
- 32  $PM_{10}$  = suspended particulate matter less than or equal to 10 micrometers in diameter;  $PM_{2.5}$  = fine particulate matter
- less than or equal to 2.5 micrometers in diameter; HAP = hazardous air pollutant (including lead); tpy = tons per year.
- 34 Note: The National Capital Intrastate Air Quality Control Region includes Montgomery County and Prince Georges
- 35 County in Maryland; and Arlington County, Fairfax County, Loudoun County, and Prince William County in
- Wirginia (as so delimited, the Virginia portion of the region will include the City of Alexandria, the City of Fairfax,
- and the City of Falls Church).

- 1 Under the Clean Air Act (section 176(c)(4)), General Conformity requires federal agencies to collaborate
- 2 with state, tribal, and local governments when proposed actions within nonattainment or maintenance
- 3 areas have the potential to affect local air quality implementation plans. Under this rule, a Conformity
- 4 Determination is required when new emissions have the potential to exceed de minimis thresholds of
- 5 criteria pollutants. De minimis emission levels are "the minimum threshold for which a conformity
- 6 determination must be performed" (USEPA, 2023c). VOCs and nitrogen oxides (NO<sub>x</sub>) emissions are used
- 7 to represent ozone generation because they are precursors of ozone.
- 8 The National Capital Interstate Air Quality Control Region is also designated as an ozone transport
- 9 region, meaning that regional urban influences from well outside the nonattainment area also contribute
- 10 substantially to local ozone pollution. The ozone transport region was established by the 1990 Clean Air
- 11 Act as amended under 40 C.F.R. 81.457 and includes Connecticut, Delaware, Maine, Maryland,
- 12 Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont,
- 13 Washington, DC, and portions of the Northern Virginia suburbs. De minimis thresholds for NAAOS
- 14 within an ozone transport region are 50 tons per year for VOCs, 100 tons per year NO<sub>x</sub>, and 100 tons per
- 15 vear for sulfur dioxide (USEPA, 2023c).
- 16 GHGs are gases that trap heat in the atmosphere. GHGs produced by fossil-fuel combustion are primarily
- 17 carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), and nitrous oxide (N<sub>2</sub>O). These three GHGs represent
- 18 approximately 97 percent of all U.S. GHG emissions. GHG emissions are typically quantified and
- 19 regulated in units of CO<sub>2</sub> equivalents (CO<sub>2</sub>e). CO<sub>2</sub>e consider the global warming potential of each GHG.
- 20 The global warming potential is the measure of a particular GHG's ability to absorb solar radiation as
- 21 well as its residence time within the atmosphere. The global warming potential allows comparison of
- 22 global warming effects between different gases; the higher the global warming potential, the more that
- 23 gas contributes to installation resiliency challenges (for example, extreme weather or increased natural
- 24 hazards that could affect mission readiness) in comparison to CO<sub>2</sub>. The DAF has adopted the Prevention
- 25 of Significant Deterioration (PSD) threshold for GHG of 75,000 tons per year of CO<sub>2</sub>e as an indicator or
- 26 "threshold of insignificance" for NEPA air quality effects in all areas. This indicator does not define a
- 27 significant impact; however, it provides a threshold to identify actions that are insignificant. Actions with
- 28 a net change in GHG (CO<sub>2</sub>e) emissions below the indicator (threshold) are considered too insignificant on
- 29 a global scale to warrant any further analysis.
- 30 The context of an action, including its surroundings and environmental background, is important for
- 31 evaluating its GHG impact. From an air quality perspective, this context refers to the local area's air
- 32 quality status, whether it meets national standards or is classified as attainment, nonattainment, or
- 33 maintenance for criteria and hazardous pollutants. GHGs are not hazardous to health at normal levels, and
- 34 on a global scale, only large cumulative emissions can potentially contribute to climate warming. Thus,
- 35 action-related GHGs usually have minimal impact on local air quality.
- 36 The most recent GHG emissions inventory for Washington, DC, and the National Capital Air Quality
- 37 Control Region are shown in Table 3-2.

Table 3-2: District of Columbia Greenhouse Gas Air Emissions Inventory (2020)

Location	CO <sub>2</sub> e from CO <sub>2</sub> (tpy)	CO <sub>2</sub> e from CH <sub>4</sub> (tpy)	CO <sub>2</sub> e from N <sub>2</sub> O (tpy)	Total CO <sub>2</sub> e (tpy)
District of Columbia	1,971,861	307	32	1,972,200
National Capital Air Quality Control Region	25,769,184	11,034	344	25,780,562

Source: (USEPA, 2023a) 39

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Key:  $CO_2e = carbon dioxide equivalents; CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; tpy = tons per$ year. Conversion factors for  $CO_2$ e are different for each greenhouse gas.  $CO_2 = 1$ ,  $CH_4 = 25$ , and  $N_2O = 298$ .

- 1 The USEPA oversees programs for stationary-source air operating permits—called Title V permits—for
- 2 new or modified major stationary source construction and operation. JBAB currently operates under
- 3 Permit No. 042, effective April 28, 2021, through April 27, 2026 (DOEE, 2021). The Title V permit
- 4 covers operations from diesel generators, boilers, fuel storage, degreasers, refrigerants, paint operations,
- 5 printing operations, dust collectors, water heaters, air conditioning refrigerant recovery systems,
- 6 metalwork, and woodwork. Consistent with the requirements of the Title V permit, the DAF must
- 7 annually certify to DOEE regarding permit compliance, including semiannual reporting on actual
- 8 stationary source equipment usage and associated air emissions estimates. Air sources and actual
- 9 emissions vary somewhat year to year as equipment is added or removed and based on actual operations
- and materials consumption (AFCEC, 2023); however, actual criteria pollutant emissions are consistently
- below the total potential to emit at JBAB. In addition to criteria pollutants, JBAB also quantifies and
- 12 reports facility-wide GHG emissions annually under Title V permit requirements. The most recent criteria
- 13 pollutants air emissions inventory for JBAB are shown in Table 3-3, and GHG emission for the
- installation are shown in Table 3-4.

Table 3-3: JBAB Criteria Pollutants Air Emissions Inventory

Year	NOx	VOC	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	Total HAP
	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)
2020	16.092	8.192	13.964	0.227	1.345	1.318	0.469
2021	13.500	5.586	8.168	0.046	0.828	0.818	0.225
2022	9.989	11.940	5.508	0.026	0.596	0.589	0.480

- 15 Source: (AFCEC, 2023)
- Key:  $NO_x$  = nitrogen oxides; VOC = volatile organic compound; CO = carbon monoxide;  $SO_2$  = sulfur dioxide;
- 17  $PM_{10}$  = suspended particulate matter less than or equal to 10 micrometers in diameter;  $PM_{2.5}$  = fine particulate matter
- less than or equal to 2.5 micrometers in diameter; HAP = hazardous air pollutant (including lead); tpy = tons per
- 19 year.

Table 3-4: JBAB Greenhouse Gas Air Emissions Inventory

Year	CO <sub>2</sub> e from CO <sub>2</sub> (tpy)	CO <sub>2</sub> e from CH <sub>4</sub> (tpy)	CO <sub>2</sub> e from N <sub>2</sub> O (tpy)	Total CO2e (tpy)
2022	5,517.416	0.148	0.021	5,517.774

- 20 Source: (AFCEC, 2023)
- Key: CO<sub>2</sub>e = carbon dioxide equivalents; CO<sub>2</sub> = carbon dioxide; CH<sub>4</sub> = methane; N<sub>2</sub>O = nitrous oxide; tpy = tons per year. Conversion factors for CO<sub>2</sub>e are different for each greenhouse gas. CO<sub>2</sub> = 1, CH<sub>4</sub> = 25, and N<sub>2</sub>O = 298.

### 3.1.3 Environmental Consequences

- 24 This section identifies and discloses potential air quality effects from criteria pollutant emissions
- 25 associated with the Proposed Action. This air quality impact analysis follows the DAF EIAP Regulations
- for Air Quality. Adverse effects to air quality would be considered significant if the Proposed Action
- 27 were to cause pollutant concentrations to exceed one or more of the NAAQS for any of the time periods
- analyzed or were to increase the frequency or severity of any such existing violations.
- 29 The DAF's Air Conformity Applicability Model (ACAM) was used to analyze the potential air quality
- 30 effects associated with the Proposed Action, as described above, in accordance with the Air Force Manual
- 31 32-7002, the DAF EIAP Regulations, and the General Conformity Rule (40 C.F.R. 93 Subpart B).
- 32 Emissions of NO<sub>x</sub> and VOCs from the Proposed Action would be below their respective *de minimis*
- thresholds and would not be regionally significant. Therefore, the Proposed Action is exempt from further
- 34 analysis under the General Conformity Rule, and a Record of Conformity Analysis is included in
- 35 Appendix C.

### 1 3.1.3.1 No Action Alternative

- 2 Under the No Action Alternative, construction activities and emissions associated with the Proposed
- 3 Action would not occur. There would be no impacts to air quality as air emissions at JBAB would remain
- 4 the same and consistent with the operational requirements of the current Title V Permit. Therefore, there
- 5 would be no significant effects, under the No Action Alternative.

### 6 3.1.3.2 Alternative 1: Implement IDP Five-Year Projects

- 7 Under Alternative 1, construction and demolition effects to air quality would be temporary in nature,
- 8 limited to the duration of construction activities, and would be caused by equipment and vehicle
- 9 operation, asphalt paving, and dust generated from disturbance on unpaved areas. Construction activities
- would include renovation or demolition of existing buildings; site clearing and grading; road/trail
- 11 construction; trenching and excavation; paving; constructing new buildings and associated utilities; and
- 12 application of architectural coatings. Construction period emissions depend on expected material
- 13 quantities and equipment/vehicle utilization requirements for each project component. Contractors may be
- required to obtain appropriate permits and comply with the permit provisions for certain types of
- equipment and temporary facilities (e.g., portable crushers and batch plants). HAPs associated with
- demolition of existing buildings including asbestos and lead-based paint (LBP) and appropriate protocols
- are discussed in detail within Section 3.6.
- Air quality effects primarily arise from dust and fugitive emissions generated during earthmoving,
- material handling, and the operation of heavy machinery. Construction activities, especially during site
- preparation and demolition, are likely to increase particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>) concentrations in
- 21 the air. These particulates can affect local air quality and may cause temporary visibility issues and
- potential health concerns. Additionally, the movement of vehicles and equipment on unpaved surfaces
- 23 contributes to fugitive dust emissions. Measures such as water spraying, covering of transported
- 24 materials, and adherence to local dust control regulations would be implemented to minimize these effects
- during the project's active phases.
- 26 Operational emissions associated with Alternative 1 would result from fuel combustion by newly installed
- 27 emergency generators, space heating equipment, and increased vehicular travel resulting from the 2,128
- 28 additional employees for the NCR Center of Excellence facility and 22 additional employees for the
- 29 CDC. To estimate operational emissions associated with the increase in base personnel, the ACAM
- 30 modeling inputs assumed employee commutes to be an average of 20 miles round trip, 5 days per week,
- 31 per new employee. This represents a worst-case, or highest emissions, scenario. Actual emissions would
- 32 be less due to limited parking availability on JBAB and the use of alternative transportation (such as
- carpool or public transit). Table 3-5 shows estimated criteria pollutant emissions as a result of Alternative
- 1. The table shows that the worst-cast scenario under Alternative 1 would result in air emissions well
- 35 below the established thresholds each year, and thus would have minor effects on air quality.
- 36 From an air quality perspective, context of an action is the local area's ambient air quality relative to
- 37 meeting the NAAQSs, expressed as attainment, nonattainment, or maintenance areas (this designation is
- 38 considered the attainment status). GHGs are non-hazardous to health at normal ambient concentrations
- and, at a cumulative global scale, action related GHG emissions can only potentially cause warming of
- 40 the climatic system. Therefore, the action-related GHGs generally have an insignificant impact to local air
- 41 quality.

Table 3-5: Alternative 1 Criteria Pollutant Emissions

Year	Project	CO	NH <sub>3</sub>	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>x</sub>	VOC
	1 — Blanchard Barracks Demolition	0.233	0.006	0.312	1.955	0.007	0	0.021
2025	2025 Total	0.233	0.006	0.312	1.955	0.007	0	0.021
2023	Threshold <sup>1</sup> (tons/year)	250	250	100	250	250	250	50
	Exceedance (Yes or No)	No	No	No	No	No	No	No
	4 — Electric Improvements	0.546	0.003	0.424	0.204	0.012	0.001	0.345
	5 — Reversible Travel Lane	0.765	0.003	0.588	4.025	0.017	0.001	0.07
	6 — Connection of Waterfront Trail	0.134	0.001	0.1	0.787	0.003	0	0.013
2027	7 — CSX Trail	0.13	0.001	0.097	0.744	0.003	0	0.012
	2027 Total	1.575	0.008	1.209	5.76	0.035	0.002	0.44
	Threshold <sup>1</sup> (tons/year)	250	250	100	250	250	250	50
	Exceedance (Yes or No)	No	No	No	No	No	No	No
	2 — DISA Facility	1.975	0.025	1.689	4.789	0.036	0.004	13.013
	3 — NCR Center of Excellence	1.916	0.022	1.612	4.821	0.036	0.004	10.234
	8 — Replacement CDC	0.587	0.002	0.419	0.263	0.01	0.001	0.397
2029	9 — MDS Clinic	0.821	0.004	0.594	0.568	0.015	0.001	1.077
2029	10 — South Gate and Visitor Center	1.222	0.007	0.896	1.131	0.021	0.002	1.026
	2029 Total	6.521	0.06	5.27	11.572	0.118	0.012	25.747
	Threshold <sup>1</sup> (tons/year)	250	250	100	250	250	250	50
	Exceedance (Yes or No)	No	No	No	No	No	No	No
	3 — NCR Center of Excellence	36.091	0.526	2.981	0.211	0.204	0.041	2.812
	8 — Replacement CDC	1.399	0.02	0.155	0.014	0.014	0.006	0.113
	9 — MDS Clinic	0.274	0	0.331	0.028	0.028	0.007	0.023
2030	10 — South Gate and Visitor Center	0.268	0	0.329	0.032	0.032	0.011	0.027
	2030 Total	39.699	0.546	5.795	0.447	0.44	0.091	3.098
	Threshold <sup>1</sup> (tons/year)	250	250	100	250	250	250	50
	Exceedance (Yes or No)	No	No	No	No	No	No	No

<sup>&</sup>lt;sup>1</sup> Thresholds correspond to O<sub>3</sub> *de minimis* levels for NO<sub>x</sub> and VOC, and DAF Insignificance Indicators for all other pollutants.

pollutants.Source: ACAM (version 5.0.23a)

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- 4 Key: NO<sub>x</sub> = nitrogen oxides; NH<sub>3</sub> = Ammonia; VOC = volatile organic compound; CO = carbon monoxide;
- $SO_x = SU$  sulfur oxides;  $PM_{10} = SU$  suspended particulate matter less than or equal to 10 micrometers in diameter;
- 6  $PM_{2.5}$  = fine particulate matter less than or equal to 2.5 micrometers in diameter; DISA = Defense Information
  - System Agency; NCR = National Capital Region; CDC = Child Development Center; MDS = Medical Squadron.
- 8 GHG emissions associated with Alternative 1 would include short-term, minor emissions during
- 9 construction and demolition activities. These temporary GHG emissions would be well below the PSD
- 10 threshold for GHG of 75,000 tons per year of CO<sub>2</sub>e (68,039 metric tons per year). Long-term, minor
- operational GHG emissions would result from heating equipment and backup generators for the new
- facilities under Alternative 1 including the NCR Center of Excellence, South Gate and Visitor Center,
- 13 DISA Facility, CDC, and Medical Squadron Clinic. Any new generators would be installed in
- 14 coordination with the 11th Civil Engineer Squadron/Civil, Environmental and Infrastructure Engineering
- 15 department and in accordance with all permitting and inspection requirements. The remaining proposed
- 16 projects would not be expected to result in any operational GHG emissions. Table 3-6 shows estimated
- 17 GHG emissions from construction and demolition activities and Table 3-7 shows estimated operational
- 18 GHG emissions. The complete GHG calculations for Alternative 1 can be found in Appendix C.

#### Summary

- Alternative 1 would result in minor effects on air quality. Based upon the results of the ACAM analysis
- 21 (Appendix C), Alternative 1 would not result in significant direct or indirect effects to air quality. Criteria
- 22 pollutant emissions would be well below *de minimis* thresholds and would not interfere with state or local

1 air quality implementation plans. GHG emissions would be negligible and insignificant in relation to 2 global yearly GHG emissions. There would be no significant air quality effects under Alternative 1.

Table 3-6: Alternative 1 Construction and Demolition GHG Emissions

Year	Project	CO <sub>2</sub> (mton/yr)	CH <sub>4</sub> (mton/yr)	N <sub>2</sub> O (mton/yr)	Total CO2e (mton/yr)
2025	Blanchard Barracks Demolition	116	0.003	0.014	120
2023	2025 Total	116	0.003	0.014	120
	Electric Improvements	106	0.004	0.004	107
	Reversible Travel Lane	145	0.005	0.006	147
2027	Connection of Waterfront Trail	26	0.001	0.001	26
	CSX Trail	25	0.001	0.001	25
	2027 Total	302	0.011	0.012	305
	DISA	594	0.020	0.052	610
	NCR Center of Excellence	555	0.019	0.047	569
2029–	Replacement CDC	110	0.004	0.004	112
2030	MDS Clinic	161	0.006	0.007	163
	South Gate & Visitor Center	251	0.009	0.012	255
	2029–2030 Total	1,670	0.058	0.122	1,709
	PSD Threshold (mton/year)				68,039
2025– 2036	State Annual GHG Emissions	2,879,913	3,206	268	2,883,387
2025– 2036	U.S. Annual GHG Emissions	5,136,454,179	25,626,912	1,500,708	5,163,581,798

Source: ACAM (version 5.0.23a), (NOAA, 2022)

Key:  $CO_2e = carbon dioxide equivalents$ ;  $CO_2 = carbon dioxide$ ;  $CH_4 = methane$ ;  $N_2O = nitrous oxide$ ;

mton/yr = metric tons per year; NCR = National Capital Region; CDC = Child Development Center; MDS =

Medical Squadron; PSD = Prevention of Significant Deterioration; GHG = greenhouse gas. Conversion factors for

 $CO_2e$  are different for each greenhouse gas.  $CO_2 = 1$ ,  $CH_4 = 25$ , and  $N_2O = 298$ .

**Table 3-7: Alternative 1 Operational GHG Emissions** 

Project	CO <sub>2</sub> (mton/yr)	CH <sub>4</sub> (mton/yr)	N <sub>2</sub> O (mton/yr)	CO2e (mton/yr)
NCR Center of Excellence	6,284	0.192	0.103	6,309
South Gate and Visitor Center	311	0.006	0.006	312
DISA Facility	4,437	0.084	0.084	4,442
CDC	262	0.008	0.004	263
MDS Clinic	337	0.006	0.006	338
Total Yearly Operational GHG Emissions	11,631	0.286	0.203	11,664
PSD Threshold (mton/year)	68,039			

Source: ACAM (version 5.0.23a), (NOAA, 2022)

Key:  $CO_2e = carbon dioxide equivalents$ ;  $CO_2 = carbon dioxide$ ;  $CH_4 = methane$ ;  $N_2O = nitrous oxide$ ;

8 9 10 mton/yr = metric tons per year; NCR = National Capital Region; DISA = Defense Information System Agency;

CDC = Child Development Center; MDS = Medical Squadron; GHG = greenhouse gas; PSD = Prevention of

Significant Deterioration. Conversion factors for  $CO_2$ e are different for each greenhouse gas.  $CO_2 = 1$ ,  $CH_4 = 25$ ,

and  $N_2O = 298$ .

### 1 3.1.3.3 Alternative 2: Alternative Siting for IDP Five-Year Projects

- 2 Table 3-8 shows estimated criteria pollutant emissions that would be expected as a result of Alternative 2.
- 3 Based upon the results of the ACAM analysis (Appendix C), air quality effects under Alternative 2 would
- 4 be very similar to those for Alternative 1, with slight variations between the two as a result of different
- 5 locations for some of the projects. As compared to Alternative 1, Alternative 2 would result in slightly
- 6 less criteria pollutant emissions during construction and demolition (see the MDS Clinic results in Table
- 7 3-5 and the MDS Clinic results in Table 3-8). However, this short-term effect on air quality for
- 8 Alternative 2 would still have the same intensity as Alternative 1 (minor). Operational emissions
- 9 associated with facility heating, backup generators, and additional employee commutes would also be
- 10 long-term and minor, similar to Alternative 1.

**Table 3-8: Alternative 2 Criteria Pollutant Emissions** 

Year	Project	CO	NH <sub>3</sub>	NOx	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>x</sub>	VOC
	1 — Blanchard Barracks Demolition	0.233	0.006	0.312	1.955	0.007	0	0.021
2025	2025 Total	0.233	0.006	0.312	1.955	0.007	0	0.021
2023	Threshold <sup>1</sup> (tons/year)	250	250	100	250	250	250	50
	Exceedance (Yes or No)	No	No	No	No	No	No	No
	4 — Electric Improvements	0.546	0.003	0.424	0.204	0.012	0.001	0.345
	5 — Reversible Travel Lane	0.765	0.003	0.588	4.025	0.017	0.001	0.07
	6 — Connection of Waterfront Trail	0.134	0.001	0.1	0.787	0.003	0	0.013
2027	7 — CSX Trail	0.13	0.001	0.097	0.744	0.003	0	0.012
	2027 Total	1.575	0.008	1.209	5.76	0.035	0.002	0.44
	Threshold <sup>1</sup> (tons/year)	250	250	100	250	250	250	50
	Exceedance (Yes or No)	No	No	No	No	No	No	No
	2 — DISA Facility	1.975	0.024	1.689	4.79	0.035	0.004	13.013
	3 — NCR Center of Excellence	1.916	0.022	1.612	4.821	0.026	0.004	10.234
	8 — Replacement CDC	0.587	0.002	0.419	0.263	0.01	0.001	0.397
2029	9 — MDS Clinic	0.439	0.001	0.266	0.067	0.008	0.001	0.148
2029	10 — South Gate and Visitor Center	1.222	0.007	0.896	1.131	0.021	0.002	1.026
	2029 Total	6.139	0.056	4.882	11.072	0.1	0.012	24.818
	Threshold <sup>1</sup> (tons/year)	250	250	100	250	250	250	50
	Exceedance (Yes or No)	No	No	No	No	No	No	No
	3 — NCR Center of Excellence	36.091	0.526	2.981	0.211	0.204	0.041	2.812
	8 — Replacement CDC	1.399	0.02	0.155	0.014	0.014	0.006	0.113
	9 — MDS Clinic	0.043	0	0.056	0.008	0.008	0.005	0.007
2030	10 — South Gate and Visitor Center	0.268	0	0.329	0.032	0.032	0.011	0.027
	2030 Total	37.801	0.546	3.521	0.265	0.258	0.037	2.959
	Threshold <sup>1</sup> (tons/year)	250	250	100	250	250	250	50
	Exceedance (Yes or No)	No	No	No	No	No	No	No

<sup>&</sup>lt;sup>1</sup> Thresholds correspond to O<sub>3</sub> *de minimis* levels for NO<sub>x</sub> and VOC, and DAF Insignificance Indicators for all other pollutants.

Source: ACAM (version 5.0.23a)

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Key: NO<sub>x</sub> = nitrogen oxides; NH<sub>3</sub> = Ammonia; VOC = volatile organic compound; CO = carbon monoxide;

SO<sub>x</sub> = sulfur oxides;  $PM_{10}$  = suspended particulate matter less than or equal to 10 micrometers in diameter;

 $PM_{2.5}$  = fine particulate matter less than or equal to 2.5 micrometers in diameter; DISA = Defense Information

System Agency; NCR = National Capital Region; CDC = Child Development Center; MDS = Medical Squadron.

- Alternative 2 GHG emissions would be well below the PSD threshold for GHG of 75,000 tons per year of CO<sub>2</sub>e (68,039 metric ton/year) and would be negligible in comparison to global yearly GHG emissions.
- 20 Table 3-9 and Table 3-10 show estimated GHG emissions from Alternative 2 along with estimated GHG
- 21 emissions at the state and federal level for relative comparisons. The complete GHG calculations for
- 22 Alternative 2 can be found in Appendix C.

Table 3-9: Alternative 2 Construction and Demolition GHG Emissions

Year	Project	CO <sub>2</sub> (mton/yr)	CH <sub>4</sub> (mton/yr)	N <sub>2</sub> O (mton/yr)	Total CO2e (mton/yr)
2025	Blanchard Barracks Demolition	116	0.003	0.014	120
2023	2025 Total	116	0.003	0.014	120
	Electric Improvements	106	0.004	0.004	107
	Reversible Travel Lane	145	0.005	0.006	147
2027	Connection of Waterfront Trail	26	0.001	0.001	26
	CSX Trail	25	0.001	0.001	25
	2027 Total	302	0.011	0.012	305
	DISA Facility	594	0.022	0.059	610
	NCR Center of Excellence	552	0.019	0.047	566
2029-	Replacement CDC	110	0.004	0.004	112
2030	MDS Clinic	71	0.003	0.001	72
	South Gate & Visitor Center	251	0.009	0.012	255
	2029–2030 Total	1,578	0.057	0.123	1,615
	PSD Threshold (mton/year)				68,039
2025– 2036	State Annual GHG Emissions	2,879,913	3,206	268	2,883,387
2025– 2036	U.S. Annual GHG Emissions	5,136,454,179	25,626,912	1,500,708	5,163,581,798

Source: ACAM (version 5.0.23a), (NOAA, 2022)

Key:  $CO_2e = carbon dioxide equivalents$ ;  $CO_2 = carbon dioxide$ ;  $CH_4 = methane$ ;  $N_2O = nitrous oxide$ ;

mton/yr = metric tons per year; GHG = greenhouse gas; DISA = Defense Information System Agency;

NCR = National Capital Region; CDC = Child Development Center; MDS = Medical Squadron. Conversion factors

for CO<sub>2</sub>e are different for each greenhouse gas.  $CO_2 = 1$ ,  $CH_4 = 25$ , and  $N_2O = 298$ .

**Table 3-10: Alternative 2 Operational GHG Emissions** 

Project	CO <sub>2</sub> (mton/yr)	CH <sub>4</sub> (mton/yr)	N <sub>2</sub> O (mton/yr)	CO2e (mton/yr)
NCR Center of Excellence	6,284	0.192	0.103	6,309
South Gate and Visitor Center	311	0.006	0.006	312
DISA Facility	4,437	0.084	0.084	4,442
Replacement CDC	262	0.008	0.004	263
MDS Clinic	38	0.001	0.001	39
Total Yearly Operational GHG Emissions	11,631	0.286	0.203	11,664
	68,039			

Source: ACAM (version 5.0.23a), (NOAA, 2022)

Key:  $CO_2e$  = carbon dioxide equivalents;  $CO_2$  = carbon dioxide;  $CH_4$  = methane;  $N_2O$  = nitrous oxide;

mton/yr = metric tons per year; GHG = greenhouse gas; NCR = National Capital Region; DISA = Defense

Information System Agency; CDC = Child Development Center; MDS = Medical Squadron. Conversion factors for  $CO_2e$  are different for each greenhouse gas.  $CO_2 = 1$ ,  $CH_4 = 25$ , and  $N_2O = 298$ .

### 11 Summary

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- 12 Criteria pollutant emissions for Alternative 2 are estimated to be well below *de minimis* thresholds and
- 13 would not interfere with state implementation plans for NAAQS attainment. GHG emissions would be
- 14 negligible and insignificant in relation to global yearly GHG emissions. There would be no significant air
- 15 quality effects under Alternative 2.

### 1 3.2 Water Resources

- 2 The discussion of water resources includes groundwater, surface water, and floodplains. Groundwater is
- 3 subsurface water that occurs in the saturated zone below the water table and is stored in aquifers. Surface
- 4 water is any body of water at land's surface and includes natural features such as wetlands, streams,
- 5 ponds, bays, and oceans. Man-made surface waters include drainage ditches, impoundments, and
- 6 stormwater catchments. Floodplains are lowland areas adjacent to surface waters that are subject to
- 7 flooding during periods of high-water discharge. The 100-year floodplain is the area that has a 1 percent
- 8 chance of inundation by a flood in any given year. The 500-year floodplain is the area that has a 0.2
- 9 percent chance of inundation by a flood in any given year.
- Wetlands delineations were conducted for JBAB in 2016. The USACE determined there are no
- 11 jurisdictional wetlands on the installation, and all "wetland" features on JBAB were part of the
- stormwater system (i.e., engineered BMPs) rather than part of a natural system (DAF, 2021). An updated
- 13 jurisdictional wetland delineation by USACE is planned for JBAB but has not yet been completed. JBAB
- officials have confirmed that there has been no change in wetland presence since the 2016 delineation,
- and the jurisdictional determination is expected to remain the same. Therefore, wetlands are not discussed
- in further detail in this EA.

### 17 3.2.1 Regulatory Setting

- Washington, DC does not have a coastal zone management program pursuant to the Coastal Zone
- 19 Management Act. Therefore, coastal zone management is not analyzed in this EA.
- The Clean Water Act establishes federal limits, through the National Pollutant Discharge Elimination
- 21 System (NPDES) program, on the amounts of specific pollutants that can be discharged into surface
- waters to restore and maintain the chemical, physical, and biological integrity of the water. The NPDES
- program regulates the discharge of point (i.e., end of pipe) and nonpoint (i.e., stormwater) sources of
- water pollution. Construction clearing, grading, and excavating activities that disturb one acre or more
- 25 require a NPDES Construction General Permit for stormwater discharges. Construction or demolition that
- 26 necessitates an individual permit under NPDES requires preparation of a Stormwater Pollution Prevention
- 27 Plan that is implemented during construction. EO 11988, Floodplain Management, requires federal
- agencies to avoid to the extent possible the short- and long-term adverse effects associated with the
- 29 occupancy and modification of floodplains and to avoid direct and indirect support of floodplain
- development unless it is the only practicable alternative. Flood potential of a site is usually determined by
- 31 the 100-year floodplain, which is defined as the area that has a one percent chance of inundation by a
- 32 flood event in a given year. The Energy Independence and Security Act (Section 438) establishes
- 33 stormwater design requirements for Federal development and redevelopment projects. Under this act,
- federal facility development projects with a footprint greater than 5,000 SF must, "maintain or restore, to
- 35 the maximum extent technically feasible, the predevelopment hydrology of the property with regard to the
- 36 temperature, rate, volume, and duration of flow." Further information on the regulatory setting for water
- resources can be found in Appendix A.

### 38 3.2.2 Affected Environment

39 The following discussion provides a description of the existing water resources at JBAB.

#### 40 **3.2.2.1 Groundwater**

- JBAB is within the Northern Atlantic Coastal Plain aquifer system, which extends from North Carolina to
- 42 New York. Groundwater in this system is present in surficial, unconfined aguifers found at an
- 43 approximate depth of 20 to 30 feet below ground surface. The unconfined aquifer is underlain by a series

- 1 of silt and clay confining units. Within Washington, DC, no groundwater resources supply potable
- 2 industrial or agricultural uses (Masterson, Pope, Nardi, Finkelstein, & McCoy, 2015). Drinking water on
- 3 JBAB is provided by the DC Water and Sewer Authority, which captures its water supply from the
- 4 Potomac River several miles upstream of the city.
- 5 Groundwater at JBAB is relatively shallow, with the average depth to the water table varying from 5 feet
- 6 in the northern portion of the installation to 15 feet across the installation. The groundwater flow follows
- 7 the topography of the installation in an east to west direction toward the Anacostia and Potomac Rivers
- 8 (JBAB, 2022d). Tidal fluctuations in the Potomac River can affect JBAB groundwater levels in the
- 9 unconfined aquifer, particularly near the shoreline.
- 10 As part of a Navy-wide installation assessment of potential historical releases and use of per- and
- 11 polyfluoroalkyl substances (PFAS), a Preliminary Assessment of JBAB was conducted, which included
- 12 an evaluation to determine whether drinking water at JBAB or within one mile of the installation has been
- impacted by any potential PFAS release areas on the installation. Groundwater is not used as a potable
- 14 water source in Washington, DC or any of the municipalities within one mile of JBAB and testing of
- drinking water at these locations did not detect PFAS. Therefore, no complete exposure pathway has been
- identified for drinking water at JBAB or within one mile of the installation.

#### **17 3.2.2.2 Surface Water**

- 18 JBAB is situated at the confluence of the Anacostia River into the Potomac River. Opposite of JBAB, the
- Washington Ship Channel parallels the Potomac River, emptying into the Anacostia River immediately
- before its Potomac River confluence. The Potomac River eventually empties into the Chesapeake Bay.
- 21 All of these water body segments surrounding JBAB have been designated as impaired waters under
- Section 303(d) of the Clean Water Act, meaning they do not fully support their designated uses.
- 23 Impairments include biochemical oxygen demand, bacteria, organics, metals, total suspended solids, and
- oil and grease. Sources of these contaminants include combined sewer overflows, discharges from
- 25 municipal separate storm sewer systems, unspecified urban pollution, and upstream sources. Washington,
- 26 DC has collaborated with regional partners to develop watershed-scale Total Maximum Daily Loads for
- 27 polychlorinated biphenyls (PCBs), total suspended solids, nutrients/biochemical oxygen demand, trash,
- and various other pollutants in the Anacostia and Potomac Rivers (DOEE, 2023). Combined sewer
- 29 overflows discharge into both the Anacostia and Potomac Rivers, contributing to poor water quality when
- heavy rainfall overflows sanitary sewer systems, resulting in untreated sewage entering surface water
- 31 bodies. Numerous combined sewer overflows discharge into the Anacostia River upstream of the South
- 32 Capitol Street Bridge (DC Water, 2023).
- 33 Other than stormwater management basins, no surface water bodies are present on JBAB. Stormwater on
- 34 the installation flows generally west toward the rivers. JBAB is covered by four Multi-Sector General
- 35 Permits for Stormwater Discharges Associated with Industrial Activity—one for each of JBAB's four
- 36 industrial sectors and associated stormwater outfalls. JBAB maintains and follows a Stormwater Pollution
- 37 Prevention Plan that identifies stormwater management controls for nonpoint sources of water pollution
- 38 (DAF, 2021).

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#### 3.2.2.3 Floodplains

- 40 According to FEMA Flood Insurance Rate Maps, much of JBAB is within special flood hazard areas
- 41 (FEMA, 2010a; FEMA, 2010b). Sea level rise is predicted along the entire existing earthen embankment
- 42 and sea wall system that forms the western perimeter of the installation (JBAB, 2023a). The northern
- portion of JBAB and areas adjacent to the Anacostia and Potomac Rivers are particularly vulnerable to
- predicted sea level rise and flooding. A small increase in sea level, even one foot, would place parts of the
- region under water (NOAA, 2024). A few of the proposed project sites would be located within the 100-

- 1 year floodplain (also referred to as an area with a 1 percent annual risk of flooding). Most project sites
- 2 would be located partially or entirely within the 500-year floodplain (also referred to as an area with a 0.2
- 3 percent annual risk of flooding). Flooding at JBAB is caused by the Anacostia and Potomac Rivers,
- 4 which are both subject to freshwater flows coming downstream, as well as tidal influences coming
- 5 upstream from the estuarine Potomac River. Flooding storm surges at the installation are primarily caused
- 6 by hurricanes and major storm tidal flooding.
- 7 Approximately 3.3 miles of JBAB's shoreline along the Anacostia and Potomac Rivers are controlled by
- 8 a FRMS/levee, and embankments along the southern shoreline of JBAB are lined with riprap (DAF,
- 9 2021). Sections of the FRMS/levee wall have deteriorated over time such that flood control is impaired
- and the USACE decertified the FRMS/levee in 2007, resulting in the current floodplain status on the
- installation. An EIS is underway to reconstruct the FRMS/levee to increase flood protection on JBAB.
- 12 Once the FRMS/levee is repaired and recertified, FEMA would update the floodplain designations on the
- installation. However, current FEMA designations of the 100- and 500-year floodplain, shown on Figure
- 3-1 and Figure 3-2, are used as the basis for planning for the Proposed Action and for the analysis in this
- 15 EA.

16

### 3.2.3 Environmental Consequences

- 17 This section analyzes the potential effects on groundwater, surface water, and floodplains. Since there are
- 18 no jurisdictional wetlands present on JBAB, wetlands are not included in the analysis of environmental
- 19 consequences. Effects were evaluated in terms of degree, duration, and proximity to water resources,
- analyzing potential sediment, contaminant, and hydrogeologic effects, and identifying any effects that
- 21 could result in regulatory violations. Groundwater analysis focuses on the potential effects on the quality,
- 22 quantity, and accessibility of the water. Surface water quality considers the potential effects that may
- change the water quality, including both improvements and degradation to current water quality. The
- 24 analysis of floodplains considers whether new construction is proposed within a floodplain (and design
- considerations for structures that are in the floodplain) or may impede the functions of floodplains in
- 26 conveying floodwaters.
- 27 A significant, adverse impact on water resources would alter water quality, hydrology, or aquatic habitat
- to the degree that the long-term natural functions and values of the resource would be diminished.
- 29 Significant adverse effects would also exist if the action exceeded federal, state, or local water quality
- 30 standards; contaminated drinking water supplies; or resulted in noncompliance with EOs related to
- 31 wetlands or floodplains.

#### 32 3.2.3.1 No Action Alternative

- 33 Under the No Action Alternative, the Proposed Action would not occur and there would be no change to
- 34 existing water resources. Therefore, no significant effects on water resources would occur with
- 35 implementation of the No Action Alternative.

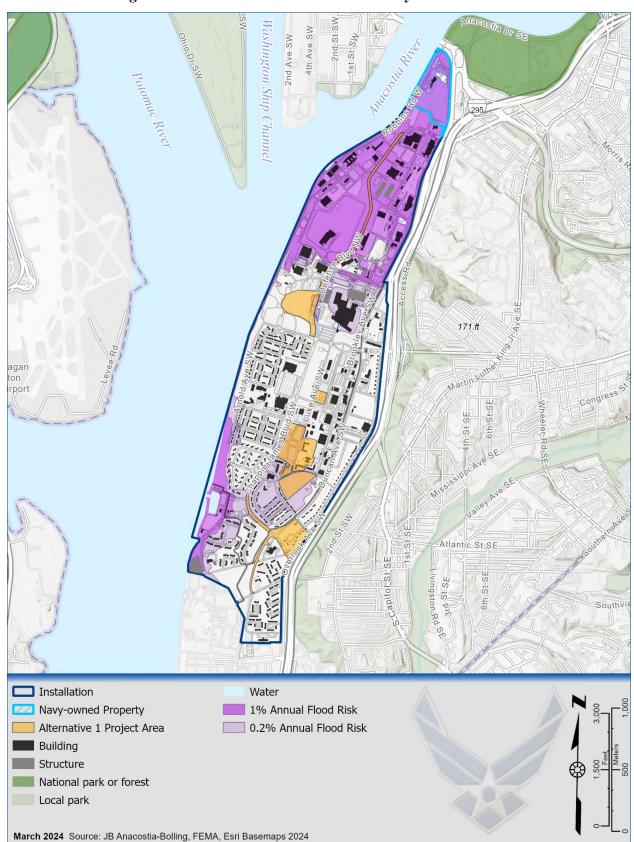


Figure 3-1: Water Resources in the Vicinity of Alternative 1

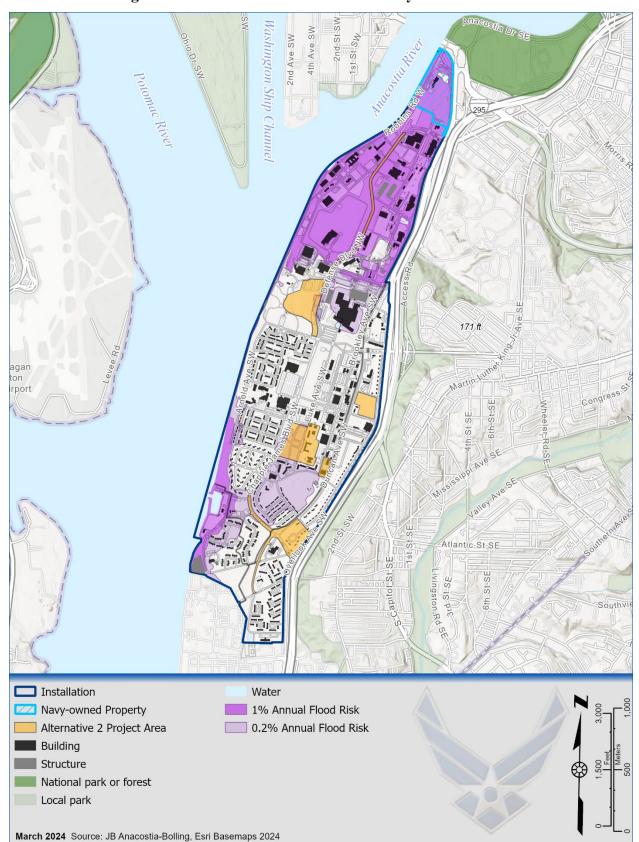


Figure 3-2: Water Resources in the Vicinity of Alternative 2

### 1 3.2.3.2 Alternative 1: Implement IDP Five-Year Projects

#### Groundwater

2

- 3 Construction of the proposed projects would not involve withdrawals from or discharges to surface water
- 4 bodies or groundwater. Groundwater is potentially present at shallow depths at a few of the Alternative 1
- 5 sites, and construction would likely require dewatering for below-grade construction components.
- 6 Dewatering involves pumping groundwater from the construction site, lasting only during below-grade
- 7 construction activities. If required, dewatering would temporarily drawdown groundwater levels at or
- 8 immediately surrounding the construction site. Groundwater would be expected to resume to normal
- 9 levels once dewatering ceases. Since the surficial aquifer is not used for potable consumption, there
- would be no adverse effect on groundwater as a water source. A geotechnical report would be prepared
- 11 for each project site that would identify and address site-specific limitations associated with the
- 12 underlying groundwater and soil properties, including site-specific depth to water. Detailed plans for
- dewatering and discharge would be developed as necessary during the project design and permitting
- phase, and effects on groundwater resources would be minor.
- 15 The Project 5 (Reversible Travel Lane on Defense Blvd.) site is located near a suspected PFAS release
- area on JBAB, and the groundwater is potentially contaminated with PFAS (NAVFAC Washington,
- 17 2022). Dewatering for this project, if required, would be handled according to applicable environmental
- 18 compliance regulations. More information on PFAS is included in Section 3.6, Hazardous Materials and
- 19 Waste.
- 20 The use of construction equipment also presents a short-term risk for equipment to leak, introducing
- 21 petroleum, oil, and lubricants (POL) into groundwater or to adjacent surface waters via stormwater
- 22 runoff. Construction contractors would be required to employ good housekeeping measures to ensure that
- 23 all equipment is in appropriate working order and that POL are used, stored, and transferred in accordance
- 24 with JBAB's spill prevention, control, and countermeasures protocols, which would minimize possible
- adverse effects.
- 26 Land would be cleared and graded for construction and stormwater drainage, with an overall increase of
- 27 impervious surface area. The square footage of impervious surface is not known for all of the proposed
- 28 projects, but several Alternative 1 projects have estimated footprints from preliminary designs. Project 1
- 29 would demolish approximately 309,128 SF of impervious surface. New impervious surface would be
- added with the implementation of Project 2 (overall construction footprint of approximately 287,256 SF),
- Project 3 (approximately 289,250 SF), Project 8 (approximately 30,000 SF), and Project 9 (approximately
- 32 29,000 SF). The other five projects would also increase pavements, structures, and/or infrastructure on
- 33 JBAB, increasing the total amount of impervious surface on the installation. Impervious surfaces decrease
- 34 the area available for precipitation to infiltrate and replenish aguifers. Under Alternative 1, stormwater
- 35 management and controls would be designed for each project site to ensure that post-development
- 36 hydrology meets or improves pre-development hydrology, pursuant to the Energy Independence and
- 37 Security Act (Section 438), through low-impact development and the use of green infrastructure. The
- 38 Alternative 1 designs would include a mix of structural and nonstructural stormwater BMPs designed in
- 39 accordance with the DOEE's Stormwater Management Guidebook. This Guidebook requires each site to
- 40 achieve a stormwater retention volume equivalent to 50 percent of the site drainage area. The proposed
- 41 projects would tie into the existing JBAB storm sewer system to manage stormwater that exceeds the
- 42 DOEE stormwater retention volume requirements. Existing and proposed storm drainage would connect
- 43 to pump houses managed by JBAB before being discharged.

### 44 Surface Water

- There is no surface water present at the Alternative 1 project sites. Construction activities have the
- 46 potential to indirectly affect surface water quality on nearby surface waters. JBAB stormwater is

- 1 conveyed via stormwater infrastructure through permitted outfalls into the Potomac and Anacostia Rivers.
- 2 Both rivers are listed under Section 303(d) of the Clean Water Act as impaired. If sediment from
- 3 construction were to leave the construction sites, the topography of the land and proximity to the
- 4 Anacostia River could exacerbate already poor water quality conditions in the area. Individual projects
- 5 under Alternative 1 that disturb more than one acre require a General Construction Permit under NPDES.
- 6 An erosion and sediment control plan and stormwater management plan would be required as part of the
- 7 NPDES and building permit process, minimizing adverse effects on the Anacostia River and Potomac
- 8 River. Adverse effects on the local surface waters would be temporary and minor.

### **Floodplains**

- 10 EO 11988 requires federal agencies to avoid to the extent possible the long- and short-term adverse
- effects associated with the occupancy and modification of floodplains and to avoid direct and indirect
- support of floodplain development wherever there is a practicable alternative. New construction within
- 13 the floodplain must meet regulatory criteria to offset the effects of minor and major flooding. Much of the
- 14 land proposed for development under Alternative 1 is currently within the 100-year or 500-year
- 15 floodplain. Specifically, Project 5 and a portion of Projects 4 and 6 would occur within the 100-year
- 16 floodplain. Projects 1, 2, 3, 6, 7, 8, and 10 are all located partially within the 500-year floodplain. As
- mentioned in Section 3.2.2.3, the installation's urban setting, low-lying elevation, relatively flat
- 18 topography, and situation at the confluence of the Anacostia River and Washington Ship Channel into the
- 19 Potomac River present high potential for flash flooding as well as storm surge and tidal inundation during
- extreme weather events. Also, as discussed in Section 3.2.2.3, a FRMS/levee is currently in place along
- 21 the Anacostia River, but sections of the system have deteriorated such that flood control is impaired, and
- 22 the FRMS/levee has not been recertified by USACE. While the DAF is planning to develop designs and
- 23 conduct an EIS to reconstruct the FRMS/levee to a level that would provide increased flood control; the
- level of flood control provided cannot be assumed until these structures are recertified by USACE.
- EO 11988 states that, if the floodplain cannot be avoided, "accepted floodproofing and other flood
- protection measures shall be applied to new construction or rehabilitation. To achieve flood protection,
- agencies shall, whenever practicable, elevate structures above base flood level rather than filling in land"
- 28 (Section 3(b)). If the DAF selects Alternative 1, designs for the projects could mitigate flood risks by
- constructing the facilities and any flood-susceptible utilities a minimum of three feet above the 100-year
- 30 flood level. Alternatively, the DAF could consider seeking an exemption to comply with the floodplain
- 31 EO's, Directive-type Memorandum (DTM) 22-003, and UFC 3-201-01 (2018), justified by the future
- 32 FRMS/levee project which, when implemented, would mitigate the Alternative 1 sites out of the
- 33 floodplain.
- 34 In the long term, the proposed additional pavement and facilities would encroach into the floodplain and
- 35 convert some of the existing pervious area that is available for flood storage into impervious surface.
- 36 Impervious surfaces can reduce flood-carrying capacity, increase flood height and velocity, and increase
- 37 flood hazards in surrounding areas (FEMA, 2010c). Thus, the overall vulnerability to flooding at JBAB
- 38 could increase as a result of Alternative 1, which could be exacerbated by future extreme weather events
- and sea level rise. However, implementing stormwater BMPs would ensure the post-development
- 40 hydrology meets or improves pre-development hydrology. This would reduce localized flooding during
- 41 heavy rains associated with new impervious surfaces. In the event of a major flood, facilities, roadways,
- 42 and other infrastructure are vulnerable to damage, ranging from minor to extensive. Mitigation measures
- would be determined in the design phase of each flood-susceptible project and could include elevating
- buildings, implementing floodproofing measures, or other measures. Proposed project designs would
- 45 include stormwater management infrastructure to current code, improving flood water retention during
- storm events as compared to existing conditions. Most of the project sites are located within the 100-year

- 1 or 500-year floodplain; however, construction would not result in changes to these existing floodplain
- 2 categorizations as adverse effects to the floodplain would be minor.

### 3 Summary

- 4 Effects on water resources under Alternative 1 would be minor. Short-term, minor effects on
- 5 groundwater, surface water, and floodplains from construction activities would occur. Long-term, minor
- 6 effects on groundwater, surface water, and floodplains from increased impervious surfaces would occur.
- 7 There would be no effects on wetlands. Under Alternative 1, no significant effects on water resources
- 8 would occur.

### 9 3.2.3.3 Alternative 2: Alternative Siting for IDP Five-Year Projects

- 10 The area of disturbance and increase in impervious surface area would be similar to those under
- 11 Alternative 1, but slightly less. Under Alternative 2, a new MDS Clinic with a 29,000 SF building
- 12 footprint would not be constructed. Instead, a 10,000 SF one-story addition would be constructed at
- Building 17 and Building 1300 would be renovated. The proposed project designs for Alternative 2
- include the same stormwater management techniques as Alternative 1, with a few placed in varying
- 15 locations in slightly different configurations.
- 16 Under Alternative 2, the proposed projects would largely be located within the installation floodplains,
- 17 the same as described under Alternative 1. Project 9 (the replacement CDC) would not be within the 500-
- 18 year floodplain. Similar to Alternative 1, designs for the facilities could mitigate flood risks by
- 19 constructing above the floodplain or seeking an exemption to the requirements of the EOs, DTM-22-003
- 20 (Flood Hazard Area Management for DoD Installations), and DoD UFC 3-201-01 (2018).

### 21 Summary

- Overall, under Alternative 2, short- and long-term effects on water resources would be similar to what is
- 23 expected under Alternative 1. However, since ground disturbance during construction and the addition of
- 24 impervious surfaces would be slightly less, the effect to groundwater, surface water, and floodplains
- would also be slightly less. The intensity would still be considered the same (minor). Under Alternative 2,
- 26 no significant effects on water resources would occur.

### 27 3.3 Biological Resources

- 28 For purposes of this discussion, the study area includes the entirety of JBAB. As discussed below,
- biological resources are divided into three main categories: (1) vegetation, (2) wildlife, and (3) threatened,
- 30 endangered, and special-status species. The Proposed Action does not include activities within the
- 31 Potomac River or other waterways and would not affect aquatic vegetation or wildlife; therefore, they are
- 32 not analyzed further in this EA.

### 3.3.1 Regulatory Setting

- 34 Special-status species, for the purposes of this assessment, are those species listed as threatened or
- 35 endangered under the Endangered Species Act of 1973 (ESA) and species afforded federal protection
- 36 under the Migratory Bird Treaty Act (MBTA) of 1918 or the Bald and Golden Eagle Protection Act of
- 37 1940 (BGEPA).

- 38 The Comprehensive Plan for the National Capital's Federal Environment Element's Tree Replacement
- 39 Policy and Submission Guidelines (called Federal Comprehensive Plan hereinafter) directs the federal
- 40 government to preserve and protect existing trees, especially healthy native (non-invasive) trees and to
- 41 account for existing trees early in the planning process to maximize preservation. In addition, trees 100
- 42 inches or greater in circumference (called Heritage Trees) may not be removed unless specific criteria are

- 1 met. All possible considerations should be given to protect trees in critical areas for the health of the
- 2 Chesapeake Bay or Potomac River watersheds. The Federal Comprehensive Plan states that when tree
- 3 transplanting is not feasible and tree removal is necessary, trees should be replaced following specific
- 4 procedures using an arborist's consultation. Guidelines require that a Tree Preservation and Replacement
- 5 Plan be submitted with master plans and individual projects (NCPC, 2020a; NCPC, 2020b; DC
- 6 Government, 2016; NCPC, 2024a; NCPC, 2016).
- 7 Migratory birds exist at JBAB, which are protected under the MBTA amended in 2004 (USFWS, 2024a;
- 8 DAF, 2021). The MBTA's intention is to ensure the sustainability of populations of protected native—to
- 9 the U.S. or U.S. territories—migratory bird species (USFWS, 2024a). JBAB is located within the Atlantic
- 10 Flyway, one of four major flight routes used by migratory birds in North America (DAF, 2021).
- 11 Further regulatory setting details for biological resources can be found in Appendix A of this EA.

### 12 3.3.2 Affected Environment

13 The following discussions describe the existing biological resources within the study area.

### 14 **3.3.2.1** Vegetation

- According to the Integrated Natural Resources Management Plan (INRMP) at JBAB, more than 373 acres
- of JBAB contain disturbed unvegetated land, which is developed with buildings, roadways, parking areas,
- 17 sidewalks, and other impermeable surfaces. The other 593 acres of JBAB are human-dominated type
- vegetation consisting of primarily turf grasses, open grassy fields, recreational fields, trees, and shrubs.
- 19 There are no forested areas within JBAB; however, there are some scattered individual trees and small
- stands of trees planted for landscaping purposes. At JBAB, trees often exist along streets and scattered
- 21 within parking lots and lawns. Landscaping plants include both native and introduced species. At JBAB,
- 22 18 invasive plant species have been observed (DAF, 2021).
- 23 In September of 2023, the Center for the Environmental Management of Military Lands at Colorado State
- 24 University completed a Vegetation Classification and Mapping for JBAB (CEMML, 2023). This plan
- 25 mapped natural communities on the installation and differentiated between the natural, relatively
- 26 unmanaged vegetation communities and the predominantly managed vegetation areas that are present.
- 27 The effort mapped 17.4 acres of natural communities on JBAB consisting of ruderal forest alliance (0.9
- acres; characterized as small, previously disturbed areas that have become naturalized), tidal shrub swamp
- association (2.5 acres; located along the Potomac River near the marina), ruderal grassland association
- 30 (13.5 acres; four locations on JBAB characterized as tall grasslands not maintained as frequently as other
- 31 lawn areas), and deep marsh alliance (0.5 acres; found on low-lying depressions that hold water for longer
- 32 periods of time).
- 33 In December of 2015, Naval Facilities Engineering Systems Command (NAVFAC) completed an Urban
- 34 Forest Inventory and Management Plan for JBAB. This plan inventoried 1,997 individual trees, of which
- 35 37 species were native species and 18 were introduced species. Some Heritage Trees, which are trees 100
- 36 inches or greater in circumference or 31.85 inches in diameter, are present at JBAB (NAVFAC
- 37 Washington, 2015; NCPC, 2020b).
- 38 In floodplains, vegetation can serve an important role by increasing flood storage capacity. Vegetation
- 39 removal or impervious surfaces can reduce flood-carrying capacity, increase flood height and velocity,
- 40 and increase flood hazards in surrounding areas (FEMA, 2010c). As discussed in detail in Section 3.2.2.3,
- 41 Floodplains, much of JBAB is within special flood hazard areas. Flooding at JBAB could be exacerbated
- by future extreme weather events or sea level rise.

#### **3.3.2.2** Wildlife

1

- 2 Past development activities at JBAB have dramatically altered native wildlife and their habitat. JBAB
- 3 does not contain forested or other high-quality wildlife habitat. Wildlife at JBAB is limited to species that
- 4 are common and adapted to living in an urban environment, such as small rodents, groundhogs, raccoons,
- 5 squirrels, rabbits, opossums, red foxes, bats, crows, doves, seagulls, sparrows, starlings, and other bird
- 6 species. JBAB likely contains frogs, toads, snakes, and turtles that are generally adapted to upland urban
- 7 landscapes. A complete list of wildlife species likely to exist at JBAB can be found in Appendix E of the
- 8 INRMP (DAF, 2021).
- 9 Obtained from the USFWS' Information for Planning and Consultation (IPaC) tool, the USFWS
- identified 19 migratory bird species with potential to occur within the study area (Table 3-11). As shown
- 11 in Table 3-11, many of the birds are considered Birds of Conservation Concern. Other birds listed warrant
- 12 attention for potential susceptibilities in offshore areas from certain types of development or activities.
- Note that the IPaC does not list every migratory bird that may be present in the study area, nor is it a
- 14 guarantee that every listed bird will be found in the study area (USFWS, 2024e).

Table 3-11: USFWS-Identified Migratory Birds with Potential to Occur in the Study Area

Common Name	Scientific Name	Bird of Conservation Concern?	Potential Breeding in the Study Areas?
American oystercatcher	Haematopus palliates	Yes	Breeds Apr 15 to Aug 31
Bald eagle	Haliaeetus leucocephalus	No	Breeds Oct 15 to Aug 31
Black-billed cuckoo	Coccyzus erythropthalmus	Yes	Breeds May 15 to Oct 10
Bobolink	Dolichonyx oryzivorus	Yes	Breeds May 20 to Jul 31
Canada warbler	Cardellina canadensis	Yes	Breeds May 20 to Aug 10
Chimney swift	Chaetura pelagica	Yes	Breeds Mar 15 to Aug 25
Eastern whip-poor-will	Antrostomus vociferus	Yes	Breeds May 1 to Aug 20
Golden eagle	Aquila chrysaetos	No	Breeds elsewhere
Hudsonian godwit	Limosa haemastica	Yes	Breeds elsewhere
King rail	Rallus elegans	Yes	Breeds May 1 to Sep 5
Lesser yellowlegs	Tringa flavipes	Yes	Breeds elsewhere
Pectoral sandpiper	Calidris melanotos	Yes	Breeds elsewhere
Prothonotary warbler	Protonotaria citrea	Yes	Breeds Apr 1 to Jul 31
Red-headed woodpecker	Melanerpes erythrocephalus	Yes	Breeds May 10 to Sep 10
Ruddy turnstone	Arenaria interpres morinella	Yes	Breeds elsewhere
Rusty blackbird	Euphagus carolinus	Yes	Breeds elsewhere
Short-billed dowitcher	Limnodromus griseus	Yes	Breeds elsewhere
Willet	Tringa semipalmata	Yes	Breeds Apr 20 to Aug 5
Wood thrush	Hylocichla mustelina	Yes	Breeds May 10 to Aug 31

<sup>15</sup> Source: (USFWS, 2024e)

20

- Bald eagles (Haliaeetus leucocephalus) and golden eagles (Aquila chrysaetos) are protected under the
- 17 MBTA and the BGEPA. Bald eagles are frequently observed at JBAB, but there are no known bald eagle
- 18 nests on the installation (DAF, 2021). Golden eagles have not been documented at JBAB, and they breed
- 19 elsewhere (DAF, 2021; USFWS, 2024e).

### 3.3.2.3 Threatened, Endangered, and Special-Status Species

- 21 Since JBAB is a highly developed urban area, there is very limited suitable habitat for threatened,
- 22 endangered, or special-status species (DAF, 2021). According to the USFWS IPaC database (retrieved

- 1 December 20, 2024, and included in Appendix B), there are three potentially occurring species, listed
- 2 under the ESA within the study area (see Table 3-12). These species include the northern long-eared bat,
- 3 tricolored bat, and monarch butterfly.
- 4 In addition to the USFWS, DAF consulted with the Wildlife Management Branch within the DOEE
- 5 Fisheries and Wildlife Division to obtain more information on species of greatest conservation need
- 6 (SGCN) that may potentially exist within the study area. The DOEE responded (dated July 9, 2024 and
- 7 included in Appendix B) that the SGCN shown in Table 3-13 may be present within or around the study
- 8 area.

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Table 3-12: Threatened, Endangered, and Special-Status Species Identified by the USFWS with Potential to Occur in the Study Area

Species Name	Federal Listing Status	Documented at JBAB?	Critical Habitat Present at JBAB?
Northern Long-eared Bat (Myotis septentrionalis)	Endangered	No	No
Tricolored Bat (Perimyotis subflavus)	Proposed Endangered	Yes	No
Monarch Butterfly (Danaus plexippus)	Proposed Threatened	Yes	N/A

Source: (USFWS, 2024e; DAF, 2021)

Table 3-13: SGCN Identified by the DOEE with Potential to Occur in the Study Area

SGCN Species Name	Scientific Name
Northern Red-bellied Cooter	(Pseudemys rubriventris)
Alewife Floater	(Utterbakiana implicata)
Painted Turtle	(Chrysemys picta)
Eastern Box Turtle	(Terrapene carolina carolina)
Eastern Cottontail	(Sylvilagus floridanus)
Dekay's Brownsnake	(Storeria dekayi)
Wood Duck	(Aix sponsa)
Brown Thrasher	(Toxostoma rufum)
Black-and-white Warbler	(Mniotilta varia)
Virginia Opossum	(Didelphis virginiana)
Eastern Chipmunk	(Tamias striatus)
Gray Treefrog	(Hyla versicolor)
Marsh Wren	(Cistothorus palustris)

10 Sources: (DOEE, 2024a) 11 Note: The DOEE also no

Note: The DOEE also noted the potential presence of the monarch butterfly, tricolored bat, and the northern long-eared bat, which are not listed in this table since they are listed in Table 3-11.

At JBAB, passive acoustical monitoring bat surveys were conducted in 2016 and 2019. The federally

endangered northern long-eared bat (NLEB) was not observed at JBAB during these bat surveys

(NAVFAC Washington, 2017; NAVFAC Washington, 2020b). The NLEB roosts alone or in colonies

preferably underneath bark, in tree cavities, or in crevices of both live and dead trees. Sometimes they

- 1 roost in manmade structures. The NLEB often forages in forests or over water surfaces immediately
- 2 surrounding roost sites (U.S. Air Force, 2021; USFWS, 2024b). NLEBs prefer intact mixed-type forests
- 3 containing only small gaps, such as forest trails, small roads, or creeks. Small gaps are used by NLEBs
- 4 for foraging and commuting. Suitable individual trees for the NLEB may exist on JBAB in those areas
- 5 1,000 feet from the Shepherd Parkway forested habitat (USFWS, 2024e). DOEE also noted this area
- 6 "within the adjoining area of Shepherd Parkway" as having the potential for "threatened or endangered
- 7 bats" (DOEE, 2024a). Section 4(d) of the ESA, a final USFWS rule, provides time of year restrictions
- 8 during the NLEB active breeding season (from June 1–July 31), which is necessary for NLEB
- 9 conservation (DAF, 2021; USFWS, 2016).
- 10 The proposed federally endangered tricolored bat has been identified at JBAB. However, there was only
- one call file collected from the tricolored bat during the survey, which suggests limited usage of JBAB by
- 12 tricolored bats (NAVFAC Washington, 2020b). Tricolored bats would likely only utilize JBAB during the
- summer, as they would likely hibernate during the winter in caves or abandoned mines. Tricolored bats
- 14 often feed over forests, wetlands, and open water. During the summer, tricolored bats are found in
- 15 forested habitats where they prefer roosting in tree foliage. Occasionally, tricolored bats may be found in
- manmade structures (USFWS, 2024b; USFWS, 2024c). Although the study area does not contain suitable
- 17 forested habitat or wetlands for the tricolored bat, it does contain sparsely scattered trees near the
- 18 Potomac River. Although unlikely, the tricolored bat could be found within trees existing along the
- 19 Potomac River at JBAB. Similar to the NLEB, suitable individual trees for the tricolored bat may exist on
- JBAB in those areas 1,000 feet from the Shepherd Parkway forested habitat.
- 21 DOEE only mentioned the tricolored bat and NLEB in their response letter. However, the DOEE did
- 22 acknowledge that "additional SGCN species may be present" and acknowledged the "potential presence
- of threatened or endangered bats within the adjoining area of Shepherd Parkway" (DOEE, 2024c). Other
- DC-listed SGCN bat species have been observed at JBAB, which include the silver-haired bat, eastern red
- bat, evening bat, big brown bat, and hoary bat (NAVFAC Washington, 2017; DOEE, 2024b). Silver-
- 26 haired bats prefer to roost in forests under tree bark near bodies of water. Eastern red bats roost solitarily
- 27 on low tree branches and forage on insects around forest edges, in clearings, or around streetlights.
- 28 Eastern red bats migrate in the fall. Evening bats roost in tree hollows, under peeling bark, and inside
- buildings. Evening bats migrate south in the fall. Big brown bats typically roost under loose bark and
- 30 within small tree cavities. Big brown bats are highly adaptable within urban environments and have been
- 31 known to roost in manmade structures. Hoary bats are rarely seen, because they are not attracted to
- 32 manmade structures and remain well-hidden in tree foliage during the day (DOEE, 2024b). Although the
- 33 study area does not contain suitable forested habitat for these DC-listed SGCN bat species, it does contain
- 34 sparsely scattered trees and manmade structures near the Potomac River. SGCN bat species could be
- 35 found within trees or manmade structures existing along the Potomac River, the probable primary
- 36 foraging location. In addition, trees near clearings/fields at JBAB may be suitable for eastern red bats.
- 37 The monarch butterfly and the American bumble bee have been observed at JBAB. The monarch butterfly
- 38 is currently proposed for listing as threatened under the ESA, and the American bumble bee is currently
- 39 under review for federal listing. The 2019 pollinator survey documented three milkweed patches on the
- 40 installation. One location includes a dense patch of milkweed observed in a small field, previously a
- 41 baseball field, located north of the study area on Navy-owned property. The second patch of milkweed is
- 42 located near the intersection of Angell Street SW and Tyndall Street SW. The third milkweed patch is
- 43 located immediately south of Magazine Road SW (NAVFAC Washington, 2020a; USFWS, 2021).
- 44 Historical range records indicate that the federally listed endangered rusty patched bumble bee included
- DC. However, the rusty patched bumble bee was not observed during the 2019 pollinator survey at JBAB,
- and it was not identified by the USFWS IPaC. No population is known to exist nearby (DAF, 2021;

- 1 USFWS, 2024e). None of the other butterfly species observed during the 2019 JBAB pollinator survey
- 2 are listed as SGCN (DOEE, 2024c).
- 3 Two species that are currently under review for federal ESA listing, the wood turtle and the northern red-
- 4 bellied cooter, would not likely occur at JBAB due to the lack of habitat (water) for these species.

### 5 3.3.3 Environmental Consequences

### 6 3.3.3.1 No Action Alternative

- 7 Under the No Action Alternative, the Proposed Action would not occur, and there would be no change to
- 8 existing biological resources. Therefore, no significant effects on biological resources would occur.

### 9 3.3.3.2 Alternative 1: Implement IDP Five-Year Projects

### 10 Vegetation

- 11 Past development at JBAB has dramatically altered native vegetation. Under Alternative 1, some
- individual trees and grassed areas would be removed. However, trees would be preserved to the extent
- practicable for carbon sequestration and to retain their flood storage capabilities. Temporary fencing
- would be placed around, or beyond, the canopy drip line of those trees that would be protected. This
- measure would protect the trees' roots from soil compaction during construction. Any trees removed
- would be replaced using the NCPC Tree Preservation and Replacement Resource Guide for tree
- 17 replacement procedures, JBAB's IDP, and IFS. Site design planning would avoid the removal of Heritage
- 18 Trees, where feasible. Should the DAF determine that removal of Heritage Trees is necessary, the DAF
- will coordinate with NCPC on site design and a Tree Preservation and Replacement Plan. The DAF
- 20 would also complete NEPA documentation if determined necessary.
- 21 Proposed landscaped areas would be planted with native grasses, sedges, or seed mix that includes
- 22 wildflowers for pollinator species. Landscaping with lower maintenance native plants can reduce the use
- 23 of fertilizer and irrigation, reduce mowing, and benefit pollinator species. Invasive species would be
- 24 managed, and an Integrated Pest Management Program would be implemented to control the use of
- 25 fertilizers and herbicides. For the reasons discussed above, direct effects to vegetation would be minor
- 26 under Alternative 1. It is anticipated that tree removal would result in a minor reduction in local carbon
- 27 sequestration abilities and flood storage capacity.
- 28 The addition of impervious surfaces would increase stormwater runoff, which could indirectly affect
- adjacent vegetation. BMPs would be implemented during and after construction to manage additional
- 30 stormwater runoff. Considering the existing urbanized nature of JBAB and the implementation of BMPs,
- 31 this indirect effect on vegetation would be negligible.

#### 32 Wildlife

- 33 Although not abundant, most of the more mobile wildlife on JBAB (i.e., raccoons, red foxes, adult birds)
- would be able to flee from construction disturbance. Smaller and less mobile wildlife (i.e., rodents,
- reptiles, young birds) may not be able to flee. Under Alternative 1, there would be direct, short-term
- 36 effects to wildlife from construction noise, displacement, and mortality; however, since wildlife at JBAB
- 37 is extremely limited in abundance and species diversity, this effect would be negligible.
- 38 There would be no long-term effect on wildlife habitat due to habitat loss, since the human-dominated
- 39 land use of JBAB does not contain forested or other high-quality habitat. Adverse effects to those
- 40 migratory birds potentially breeding in the study area (see Table 3-11) would likely not occur since only
- 41 some individual trees would be removed. In addition, potentially breeding migratory birds could be
- 42 monitored during DOEE-recommended biological monitoring, when practicable (see the last paragraph

- 1 under "Threatened, Endangered, and Special-Status Species" of this EA). Trees would be replaced with
- 2 similar species where feasible.
- 3 There are no bald eagle nests on JBAB. Golden eagles have not been documented at JBAB, nor do they
- 4 nest in this region. Thus, no adverse effects would occur to bald or golden eagles.

### 5 Threatened, Endangered, and Special-Status Species

- 6 As part of the proposed IDP projects, tree removal is not anticipated along the Potomac River, which is a
- 7 potential foraging location for other JBAB-identified SGCN bat species. Individual trees near
- 8 clearings/fields at JBAB may be suitable for the eastern red bat and possibly other opportunistic JBAB-
- 9 identified bats. Tree removal in these locations could affect these bat species. By implementing the time-
- of-year restrictions for the NLEB and tricolored bat, other bat species would likely benefit. Therefore,
- there would likely be no adverse effects on any bat species.
- 12 The IPaC Determination Key tool resulted in a "may affect" determination for NLEB and the tricolored
- bat. Appendix B contains this official USFWS concurrence letter generated from the IPaC Determination
- 14 Key. A "may affect" determination requires further consultation with the local Ecological Services Field
- Office (USFWS, 2024d). Under Alternative 1, tree clearing would be avoided during the NLEB pup
- season, June 1–July 31. DAF expects that the tricolored bat will be listed under the ESA during the 5-year
- implementation period. At that time, additional time of year restrictions may be required during the
- 18 tricolored bat active season (April 1–September 30); DAF would adhere to future USFWS requirements if
- 19 applicable. The NLEB has not been detected at JBAB during surveys, and the tricolored bat has very low
- 20 occurrence at JBAB. Preferred NLEB and tricolored bat forested habitat does not exist at the highly-
- 21 developed JBAB. Individual and scattered trees on JBAB located approximately 1,000 feet from the
- potentially suitable Shepherd Parkway forested habitat are separated by a large and impeding gap (I-295).
- 23 For these reasons, DAF believes that a "may affect, not likely to adversely affect" is more accurate. DAF
- 24 will seek concurrence from the USFWS Field Office on this determination for the NLEB and the
- 25 tricolored bat. If the USFWS agrees with this determination, then no further action is required (USFWS,
- 26 2024d).
- 27 Existing pollinator habitat is limited due to the urban disturbed nature of JBAB. Within the Alternative 1
- 28 study area, there is a patch of milkweed within the Project 8 site near the intersection of Angell Street SW
- and Tyndall Street SW, which could be affected. Additionally, the milkweed patch just south of Magazine
- Road SW could be affected from Project 6. To minimize impacts associated with the removal of these
- 31 milkweed patches, the DAF could avoid clearing milkweed from May 15–Sept 30, when monarch
- 32 caterpillars may be present. Mowing ahead of the growing season would avoid disruption, while coupling
- 33 milkweed planting on other locations on-base where construction is not planned. No effect is anticipated
- 34 to the northernmost milkweed patch on the Navy-owned property. With minimization measures,
- 35 Alternative 1 would likely have no adverse effect on the monarch butterfly.
- 36 As listed in Table 3-13, DOEE identified additional potentially occurring SGCN species. The DOEE
- 37 recommends that the DAF consult with DOEE biologists, if available, to plan for biological monitoring
- 38 for SGCN species and potentially breeding migratory birds. Since JBAB does not contain wetland or
- 39 stream habitat, biological monitoring would not be needed for those SGCN species typically found in
- 40 wetland habitats such as the northern red-bellied cooter and wood duck. Biological monitoring would
- 41 occur as feasible. DOEE also recommended but time-of-year restrictions for some of the IDP projects, in
- 42 particular Project 8 for Alternative 2 (North JBAB) and Project 10 for Alternatives 1 and 2 (South JBAB)
- 43 (DOEE, 2024a). As previously discussed, time-of-year restrictions for the NLEB (June 1–July 31), the
- 44 tricolored bat (April 1–September 30), and for the monarch butterfly's milkweed (May 15–Sept 30) may
- 45 apply, depending on the project requirements (such as tree removal) and determined during individual

- 1 project design and schedule processes. With these measures, Alternative 1 would likely have no adverse
- 2 effect on the potentially occurring SGCN species and migratory birds.

### 3 Summary

- 4 Under Alternative 1, direct effects on vegetation would be minor and indirect effects on adjacent
- 5 vegetation would be negligible. Tree removal would result in a minor reduction in local carbon
- 6 sequestration abilities and flood storage capacity. There would be direct, short-term, negligible effects to
- 7 wildlife from construction noise, displacement, and mortality. There would be no long-term effects to
- 8 wildlife habitat. There would be no effects to bald eagles. There would be no significant effects on
- 9 threatened or endangered species. DAF will coordinate with USFWS on these conclusions. Because
- 10 consultation would occur with DOEE biologists when practicable and time-of-year restrictions would be
- 11 followed, Alternative 1 would likely have no adverse effects on the potentially occurring SGCN species
- 12 (including bats) or migratory birds. Under Alternative 1, no significant effects on biological resources
- 13 would occur.

### 14 3.3.3.3 Alternative 2: Alternative Siting for IDP Five-Year Projects

- 15 Under Alternative 2, effects to biological resources would be similar to those under Alternative 1.
- However, under Alternative 2, only one milkweed patch, just south of Magazine Road SW, could be
- 17 affected from Project 6. Avoidance and minimization measures described under Alternative 1 would also
- 18 occur under Alternative 2. There would be no impact to the northern most milkweed patch or the
- milkweed located near the intersection of Angell St SW and Tyndall St SW.

### 20 Summary

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- 21 Under Alternative 2, effects would be similar to those under Alternative 1, but less effects to milkweed on
- JBAB. No significant effects on biological resources would occur.

### 23 3.4 Cultural Resources

- 24 This discussion of cultural resources includes precontact and historic archaeological sites; historic
- buildings, structures, and districts; and physical entities and human-made or natural features important to
- a culture, a subculture, or a community for traditional, religious, or other reasons. Cultural resources can
- be divided into three major categories:
  - **Archaeological resources** (precontact and historic) are locations where human activity measurably altered the earth or left deposits of physical remains.
  - **Architectural resources** include standing buildings, structures, landscapes, and other builtenvironment resources of historic or aesthetic significance.
  - Traditional cultural places may include archaeological resources, structures, neighborhoods, prominent topographic features, habitat, plants, animals, and minerals that Native Americans or other groups consider essential for the preservation of traditional culture.

### 3.4.1 Regulatory Setting

- 36 Cultural resources listed in the National Register of Historic Places (NRHP) or eligible for listing in the
- 37 NRHP are "historic properties" as defined by the National Historic Preservation Act (NHPA). The list
- 38 was established under the NHPA and is administered by the National Park Service on behalf of the
- 39 Secretary of the Interior. The NRHP includes properties on public and private land. Properties can be
- 40 determined eligible for listing in the NRHP by the Secretary of the Interior or by a federal agency official
- 41 with concurrence from the applicable SHPO. An NRHP-eligible property has the same protections as a

- 1 property listed in the NRHP. Historic properties include archaeological and architectural resources.
- 2 Additional regulatory setting details for cultural resources are provided in Appendix A of this EA.

### 3 3.4.2 Affected Environment

- 4 The area of potential effect (APE) for cultural resources is the geographic area or areas within which an
- 5 undertaking (i.e., project, activity, program, or practice) may cause changes in the character or use of any
- 6 historic properties present. The APE is influenced by the scale and nature of the undertaking and may be
- 7 different for various kinds of effects caused by the undertaking. For this EA, the proposed projects are
- 8 spread throughout the installation. The APE for the built environment is defined for each individual
- 9 project as the project site with a buffer to include areas where construction and future uses would be
- 10 visible. The buffer to analyze visual effects would be relative to the size and scale of the undertaking. The
- APE for archaeological resources varies for each individual project and generally consists of the project's
- 12 construction footprint (area of ground disturbance) and staging areas.
- 13 The Naval Air Station (NAS) Anacostia Historic District and the Bolling AFB Historic District, along
- with their contributing resources and several individually NRHP-eligible resources are within the APE
- 15 (Figure 3-3 through Figure 3-6). The NAS Anacostia Historic District contains 17 resources: 16
- 16 contributing resources and 1 non-contributing object. The Bolling AFB Historic District contains 76
- 17 buildings: 65 contributing resources, 7 non-contributing resources, and 4 not evaluated. Nine individually
- eligible resources are located on JBAB including Buildings 1, 2, 20, 21, 72, 92, 93, 168, and 169. The
- 19 evaluation of other buildings for NRHP-eligibility is ongoing; unevaluated buildings would be surveyed
- and evaluated as part of individual NHPA Section 106 compliance for the individual projects.
- 21 According to the 2020 Integrated Cultural Resources Management Plan (ICRMP), there are 13
- archaeological sites at JBAB, four of which are determined either eligible or potentially eligible (Table
- 3-14). The remaining 9 sites have not been evaluated for the NRHP and are all concentrated in the
- 24 southern two thirds of JBAB. If any of these sites have the potential to be impacted by a federal action, a
- 25 Phase II investigation would be undertaken to evaluate its NRHP eligibility. According to an
- archaeological sites and surveys map in the 2020 ICRMP, all but one of the proposed projects are wholly
- 27 or partially within archaeological sensitive areas that are recommended for either Phase I or Phase II
- 28 testing. Project 5 (construction of a reversible travel lane on Defense Boulevard) is the only project that is
- entirely within an area that has been previously surveyed (JBAB, 2020).
- In addition to the buildings within the historic districts, a 2020 historic landscape survey (Baynard, 2020)
- 31 identified a variety of NRHP-eligible cultural landscape features associated with each historic district
- 32 (Table 3-15). Several contributing landscape features would be affected by one or more of the proposed
- projects. These features include the railroad and views/vistas associated with the Bolling Historic District.

### 3.4.3 Environmental Consequences

- 35 Analysis of potential effects on cultural resources considers both direct and indirect effects. Direct effects
- 36 can be the result of physically altering, damaging, or destroying all or part of a resource. Indirect effects
- 37 include altering characteristics of the surrounding environment that contribute to the importance of the
- 38 resource; introducing visual, atmospheric, or audible elements that are out of character for the period the
- resource represents (thereby altering the setting); or neglecting the resource to the extent that it
- 40 deteriorates or is destroyed.

Table 3-14: Archaeological Sites at JBAB (JBAB, 2020)

Site #/Name	Description	NRHP Eligibility
51SW2	Prehistoric site, possible village	Unevaluated
51SW3 (Giesboro Point)	Prehistoric site, possible village; Civil War cavalry camp (Camp Stoneman), and plantation	Unevaluated
51SW4	Prehistoric site, possible village	Unevaluated
51SW5	Native American ossuary site	Unevaluated
51SW6	Prehistoric camp	Unevaluated
51SW7	Prehistoric camp dating to approximately 800–300 BC; 19th Century ceramics and glass recovered	Eligible
51SW12	Prehistoric site, possible village	Unevaluated
51SW22 (JADOC)	Late Archaic and Woodland camp	Eligible
51SW25	19th and early 20th Century farmstead	Unevaluated
51SW26	19th and 20th Century industrial site	Unevaluated
51SW27	Prehistoric and colonial components, 19th and 20th Century farmsteads; World War II-era component	Potentially Eligible
51SW30	Precontact site and colonial era to 20th Century farmstead	Potentially Eligible
51SW31	Precontact camp; World War II-era housing	Not Eligible

Table 3-15: NRHP-Contributing Landscape Features at JBAB

Landscape Feature	NAS Anacostia Historic District	Bolling AFB Historic District
Natural Systems and Topography	Anacostia River and flat topography	Flat topography
Land Uses	Housing, administrative, operations, utilities	Housing, administrative, operations, base support, utilities, recreation
Spatial Organization	Northeast to southwest axis along Doherty Road	North-south axis along railroad, Duncan Avenue, and Brookley Avenue
Circulation Networks	Seaplane ramp, Robbins Road SW, Watson Road SW, Doherty Road SW, Wick Drive SW, all sidewalks	Railroad; roads, including Angell Street SW, Westover Avenue SW, Brookley Avenue SW, Duncan Avenue SW, MacDill Boulevard, Dinger Street SW, McChord Street SW, Theisen Street, and Rice Street; sidewalks, including along Brookley Avenue SW, Westover Avenue SW, McChord Street SW, Theisen Street SW, and Rice Street SW, sidewalks along Brookley Avenue, Westover Avenue, McChord Street, Theisen Street, and Rice Street
Boundary Demarcations	Concrete levee, flood wall across seaplane ramp, seawall, Anacostia River	Chain-link fence along Westover Avenue, and the railroad
Vegetation	Formal lawn in front of Building 72	Pin, willow, and live oak trees in residential area along Westover Avenue; select mature pin, willow, and live oak trees in other locations
Small and Large-scale Features	Facility 176, flagstaff in front of Building 72	Lamp posts along Westover Avenue
Building Types	Transportation, administrative/operations, residential, public works	Transportation, administrative/operations, residential, public works, civic, institution
Views and Vistas	View from Facility 108 to the Anacostia River, view of Enterprise Hall (Building 72)	View along Westover Avenue to residential areas; view of Headquarters (Building 20)

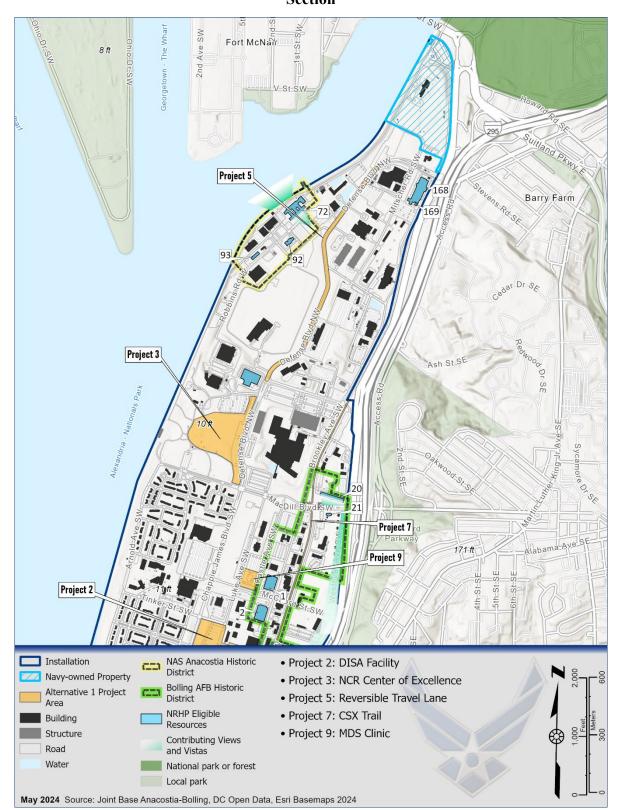


Figure 3-3: Alternative 1, NRHP-Eligible Resources and IDP Project Locations, Northern Section

Project 7 Project 2 Project 1 (Buildings) Project 8 Atlantic St SW Project 10 Chesapeake\_St-SW Danbury-St-SW Project 6 Shepherd Forrester St SW 172 ft Galveston St Installation NAS Anacostia Historic • Project 1: Blanchard Barracks Demolition District Navy-owned Property • Project 2: DISA Facility Bolling AFB Historic Alternative 2 Project • Project 6: Waterfront Trail Connection District NRHP Eligible • Project 7: CSX Trail Building Resources • Project 8: Replacement CDC Structure Contributing Views Road and Vistas • Project 10: South Gate & Visitors Center Local park Water

Figure 3-4: Alternative 1, NRHP-Eligible Resources and IDP Project Locations, Southern Section

May 2024 Source: Joint Base Anacostia-Bolling, DC Open Data, Esri Basemaps 2024

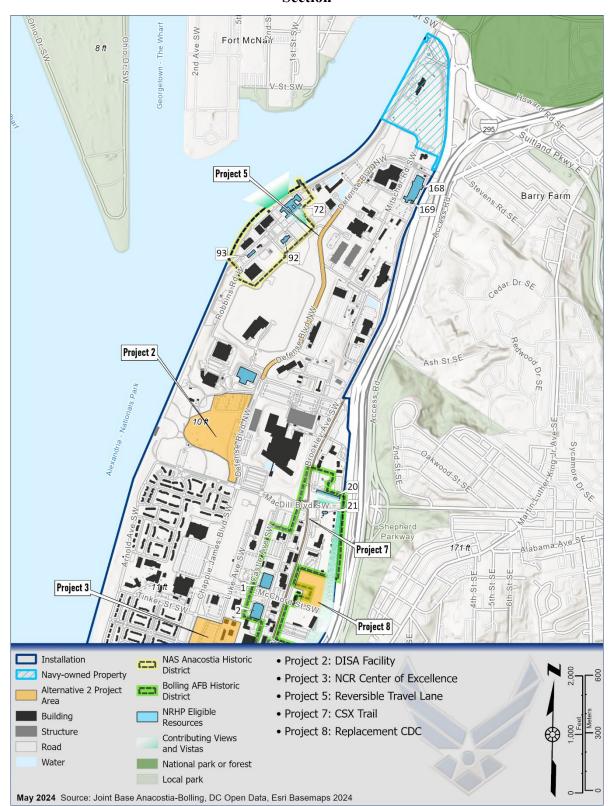


Figure 3-5: Alternative 2, NRHP-Eligible Resources and IDP Project Locations, Northern Section

Project 7 Project 9 Project 1 (Buildings) **Project 3** Project 10 Chesapeake-St-SW Danbury-St-SW Project 6 Elmira-St-SW Shepherd 172 ft Forrester St SW Parkway Galveston-St NAS Anacostia Historic Installation • Project 1: Blanchard Barracks Demolition District Navy-owned Property • Project 3: NCR Center of Excellence Bolling AFB Historic Alternative 2 Project • Project 6: Waterfront Trail Connection District Area NRHP Eligible • Project 7: CSX Trail Building Resources • Project 9: MDS Clinic Structure Contributing Views Road and Vistas • Project 10: South Gate & Visitors Center Local park Water

Figure 3-6: Alternative 2, NRHP-Eligible Resources and IDP Project Locations, Southern Section

May 2024 Source: Joint Base Anacostia-Bolling, DC Open Data, Esri Basemaps 2024

#### 1 3.4.3.1 No Action Alternative

- 2 Under the No Action Alternative, none of the proposed projects would be constructed. As a result, there
- 3 would be no effects to cultural resources.

# 4 3.4.3.2 Alternative 1: Implement IDP Five-Year Projects

- 5 Alternative 1 includes 10 separate projects, several of which are located within or adjacent to the two
- 6 historic districts within JBAB. Table 3-16 discusses the potential cultural resources effects from the 10
- 7 projects. The potential effects are notional, and actual effects cannot be known until after the
- 8 studies/evaluations/determinations required by NHPA are final (with concurrence from the DC SHPO).
- 9 NHPA compliance for each project would occur once adequate designs for consultation are available.
- 10 DAF would seek to avoid adverse effects to the greatest extent practicable. Any unavoidable adverse
- 11 effects would be minimized and mitigated under the terms of an individual project Section 106
- 12 consultation with the DC SHPO and other consulting parties as appropriate. Design of any new
- 13 construction would be done in accordance with the cultural resources Standard Operating Procedures
- 14 (SOPs) included in the 2020 JBAB ICRMP (JBAB, 2020).

Table 3-16: Potential Cultural Resources Effects—Alternative 1

Project Number	Project Name	Potential Cultural Resources Effects and Mitigation	
1	Blanchard Barracks Demolition	The Blanchard Barracks (Building 1302) and other buildings that would be demolished are located adjacent to the NRHP-eligible Bolling AFB Historic District. Of the four buildings to be demolished Buildings 1301 and 1302 are not individually eligible for the NRHP Building 3618, built in 1986, does not meet the 50-year age threshold for eligibility for the NRHP. Building 3621, built in 1977, is recommended for evaluation in the 2020 ICRMP (JBAB, 2020). There would not be any adverse visual effects from this project since none of the buildings associated with this undertaking are within any NRHP-contributing viewsheds associated with the Bolling AFB Historic District. This project site is within an archaeologically sensitive area and the archaeological testing will be completed in Spring 2025. Demolition of buildings within this area could have potential adverse effects that require mitigation. Consultation with the DC SHPO would be required and would follow SOP 3 (NHPA Section 106 Consultation procedures) in the JBAB ICRMP. If appropriate mitigation is identified and implemented, this project would likely result in no significant effects.	
2	DISA Facility	The proposed construction is adjacent to the NRHP-eligible Bolling AFB Historic District. There are no contributing viewsheds between Bolling AFB Historic District and this project site. Therefore, there would be no adverse visual effects from the construction of this project. This project site is within an archaeologically sensitive area and has one archaeological site that requires a Phase II evaluation to determine NRHP eligibility. Consultation with the DC SHPO would be required for this project and would follow SOP 3 (NHPA Section 106 Consultation procedures) in the JBAB ICRMP. If appropriate mitigation is identified with the DC SHPO and implemented, this project would likely result in no significant effects.	

Project Number	Project Name	Potential Cultural Resources Effects and Mitigation	
3	NCR Center of Excellence	This project is approximately 0.30–0.40 miles from the closest NRHP-eligible resources at JBAB (Building 20). Building 20 is individually eligible and contributing to the Bolling AFB Historic District. The APE would not extend to Building 20 due to the distance between the two locations. Therefore, there would be no adverse visual effects to NRHP-eligible resources from Project 3. Much of the project site is covered with heavy fill (> 5 feet) with smaller sections of medium to minimum fill (0.0–5.0 feet). There is some potential for archaeological resources; however, by following SOP 3 (NHPA Section 106 Consultation procedures) of the JBAB ICRMP any adverse effects would be mitigated. If appropriate mitigation is identified and implemented, this project would likely result in no significant effects.	
4	Electric Switch Station Reliability Improvements	The proposed construction could have visual effects to Bolling AFB Historic District and NAS Anacostia Historic District; however, the impact should not be adverse as it would replace structures and equipment that do not contribute to the significance of either district Ground disturbance would be done within previously disturbed area or areas of medium to heavy fill. The DC SHPO would be consulted on this project and consultation would follow SOP 3 (NHPA Section 106 Consultation procedures) in the JBAB ICRMP. This project would likely result in no adverse effect.	
5	Reversible Travel Lane on Defense Blvd.	There would be no historic properties affected from the implementation of this project. Defense Boulevard is not within eith NRHP-eligible historic district and its improvements would not affe directly nor indirectly any NRHP-eligible resource at JBAB. There no potential for archaeological resources since this portion of JBAB entirely historic fill.	
6	Connection of Waterfront Trail to Bellevue Housing	There would be no effects to aboveground resources from this project. The resources in the Bellevue Housing area, dating to 1996, do not meet NRHP eligible criteria. The portion of the proposed trail south of McGuire Avenue has been previously surveyed and there are no archaeological resources in the project site. The area north of McGuire Avenue is archaeologically sensitive and there is one site, 51SW12, that is recommended for Phase II investigation if ground disturbance would occur. The proposed trail would avoid the archaeological site. Consultation with the DC SHPO would follow SOP 3 (NHPA Section 106 Consultation procedures) of the JBAB ICRMP. Additionally, SOP 6 addresses procedures for unanticipated archaeological discoveries during construction. The DAF would first avoid, then minimize effects to historic properties under this project. If adverse effects cannot be avoided, they would be mitigated through an agreement with the DC SHPO and other consulting parties as appropriate. If appropriate mitigation is identified and implemented this project would likely result in no significant effects.	

Project Number	Project Name	Potential Cultural Resources Effects and Mitigation	
7	CSX Trail	The CSX right-of-way is within the NRHP-eligible Bolling AFB Historic District. The railroad is a contributing landscape feature serving as an important north-south axis within the historic district—the design of Bolling AFB is based off this axis. Additionally, the railroad is contributing as an integral circulation feature in the district's landscape and serves as a contributing boundary demarcation within the district (Baynard, 2020). Much of the proposed project site was surveyed for archaeological resources in 1978; no sites were identified (JBAB, 2020). The ground disturbance from the railroad suggests there would be low archaeological potential. Consultation with the DC SHPO would follow SOP 3 (NHPA Section 106 Consultation procedures) in the JBAB ICRMP. The DAF would first avoid, then minimize effects to historic properties under this project. If adverse effects cannot be avoided, they would be mitigated through an agreement with the DC SHPO and other consulting parties as appropriate. If appropriate mitigation is identified and implemented, this project would likely result in no significant effects.	
8	Replacement CDC	The southernmost portion of the NRHP-eligible Bolling AFB Historic District is approximately 0.10 miles to the east of this project site. The line of trees along Duncan and Westover avenues serves as a visual buffer between the two locations. There would be no adverse visual effects to the Bolling AFB Historic District from Project 8. The area is covered with heavy to medium fill (1.5 feet to > 5 feet) and was previously disturbed with numerous multi-family housing units across the entire site. In 2021, the charter school was built adjacent to this project site, which was built on land that was also used for multi-unit family housing. An archaeological study did not find any NRHP-eligible resources for which there would be an adverse effect. A future archaeological study will survey the remaining portion of the parcel where the CDC project will be completed. Consultation with the DC SHPO would be required for this project and would follow SOP 3 (NHPA Section 106 Consultation procedures) in the JBAB ICRMP. The DAF would first avoid, then minimize effects to historic properties under this project. If adverse effects cannot be avoided, they would be mitigated through an agreement with the DC SHPO and other consulting parties as appropriate. If appropriate mitigation is identified and implemented, this project would likely result in no significant effects.	

Project Number	Project Name	Potential Cultural Resources Effects and Mitigation	
9	MDS Clinic	This site is adjacent to the NRHP-eligible Bolling AFB Historic District. There are no significant viewsheds between the project location and NRHP-eligible resources; therefore, there would be no adverse visual effects from Project 9. Buildings 1300 and 17 would demolished. These resources were determined not eligible and concurred upon by the DC SHPO in 2018 (JBAB, 2020). Therefore there would be no effects to aboveground historic properties with Project 9. The area is covered with minimal to medium fill (0 feet t feet) and has medium archaeological sensitivity according to the 20 ICRMP, which recommends this area undergo Phase I survey. The area has been previously disturbed—the entire block has been pave with asphalt and structures have stood at this location in the recent past. Consultation with the DC SHPO would be required and would follow SOP 3 (NRHP Section 106 Consultation procedures) in the JBAB ICRMP. The DAF would first avoid, then minimize effects thistoric properties under this project. If adverse effects cannot be avoided, they would be mitigated through an agreement with the DSHPO and other consulting parties as appropriate. If appropriate mitigation is identified and implemented, this project would likely result in no significant effects.	
10	South Gate & Visitor Center	The proposed construction is near to the southernmost portion of the NRHP-eligible Bolling AFB Historic District. There are seven single-family dwellings along Westover Avenue, built between 1964–1979, that stand between this project site and the historic district boundary—approximately 0.15 miles. These seven buildings have not been evaluated. Due to the size and scale of the project and the physical buffer there would be no visual adverse effects to the NRHP-eligible historic district. There would be no direct effects to the historic district and its landscape features. Historically, the northern portion of this project site appears to have been previously disturbed with earth-covered magazines. The magazines were removed between 1964–1979; however, their locations have not been disturbed since. Prior ground disturbance due to the magazines and the presence of seven houses on this site suggests there is low archaeological potential. It does not appear there would be adverse effects to cultural resources. Consultation with the DC SHPO would be required and would follow SOP 3 in the JBAB ICRMP. This project would likely result in no historic properties affected.	

#### Summary

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- 2 Under Alternative 1, NHPA compliance for each project would occur once adequate designs for
- 3 consultation are available. Design of new construction would be done in accordance with the cultural
- 4 resources SOPs included in the 2020 JBAB ICRMP (JBAB, 2020). The DAF would avoid all historic
- 5 properties where feasible and conduct archaeological investigations for each project where necessary. The
- 6 DAF would seek to avoid, minimize and mitigate any potential adverse effects to historic properties
- 7 through consultation with the DC SHPO. Identified adverse effects would be mitigated under the terms of
- 8 an individual project Section 106 consultation with the DC SHPO. If appropriate mitigation is identified
- 9 with the DC SHPO and followed, there would be no significant effects to cultural resources.

### 10 3.4.3.3 Alternative 2: Alternative Siting for IDP Five-Year Projects

11 Most effects to cultural resources under Alternative 2 would be the same as for Alternative 1, as the

proposed projects are either in the same location as Alternative 1 or if in different locations are still within the same historic districts as under Alternative 1. Table 3-17 discusses the potential cultural resources effects from the 10 projects under Alternative 2. Similar to Alternative 1, the potential effects are notional, and actual effects cannot be known until after the studies/evaluations/determinations required by NHPA are final (and accepted by DC SHPO). NHPA compliance for each project would occur once adequate designs for consultation are available. Identified adverse effects would be mitigated under the terms of an individual project Section 106 consultation with the DC SHPO. Design of new construction would be done in accordance with the cultural resources SOPs included in the 2020 JBAB ICRMP (JBAB, 2020).

Table 3-17: Potential Cultural Resources Effects—Alternative 2

Project Number	Project Name	Potential Cultural Resources Effects and Mitigation	
1	Blanchard Barracks Demolition	Effects would be the same as under Alternative 1.	
2	DISA Facility	This project is approximately 0.30–0.40 miles from the closest NRHP-eligible resources at JBAB (Building 20). Building 20 is individually eligible and contributing to the Bolling AFB Historic District. The APE would not extend to Building 20 due to the distance between the two locations. Therefore, there would be no adverse visual effects to NRHP-eligible resources from Project 2 under Alternative 2. Much of the project site is covered with heavy fill (> 5 feet) with smaller sections of medium to minimum fill (0.0–5.0 feet). There is some potential for archaeological resources; however, by following SOP 3 (NHPA Section 106 Consultation procedures) of the JBAB ICRMP there would be consultation with the DC SHPO and adverse effects would be mitigated. If appropriate mitigation is identified and implemented, this project would likely result in no significant effects.	
3	NCR Center of Excellence	The proposed construction is adjacent to the NRHP-eligible Bolling AFB Historic District. There are no contributing viewsheds between Bolling AFB Historic District and this project site. Therefore, there would be no adverse visual effects from the construction of this project. Under Alternative 2, Buildings 1303–1306 would be demolished. Building 1304 (built 1968) has been determined not eligible for the NRHP. The other three buildings were built in 1998 and have not been evaluated. These buildings do not meet criteria for NRHP eligibility. There would be no direct effects to aboveground cultural resources from Project 3 under Alternative 2. This project site is within an archaeological-sensitive area and archaeological testing will be completed in Spring 2025. Consultation with the DC SHPO would be required and would follow SOP 3 (NHPA Section 106 Consultation procedures) in the JBAB ICRMP. If the area is determined to have NRHP-eligible resources, appropriate mitigation would be identified with the DC SHPO and implemented; this project would likely result in no significant effects.	
4	Electric Switch Station Reliability Improvements	Effects would be the same as under Alternative 1.	
5	Reversible Travel Lane on Defense Blvd.	Effects would be the same as under Alternative 1.	

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Project Number	Project Name	Potential Cultural Resources Effects and Mitigation	
6	Connection of Waterfront Trail to Bellevue Housing	Effects would be the same as under Alternative 1.	
7	CSX Trail	Effects would be the same as under Alternative 1.	
8	Replacement CDC	This site is immediately adjacent to the NRHP-eligible Bolling Historic District and has the potential for visual effects to the historic district and direct effects to archaeological sites within the construction footprint. NRHP-contributing views exist along Westover Avenue in both directions of the historic district. Construction on this block may adversely affect these contributing views. The JBAB Historic Chapel, which is located within the same parcel, would remain in place and would be avoided. The chapel is a NRHP-contributing resource. This block has undergone previous ground disturbance with numerous buildings constructed across its landscape at various times. In 1949, there were 15 buildings (including the chapel) on this block, which was then reduced to nine buildings by 1980. Currently, the block holds two buildings (include in the historic district) and two tennis courts (not in the historic district). An archaeological site was identified on this site and recommended eligible for the NRHP in 2018 and the 2020 ICRMP recommends a Phase II survey of the area. Consultation with the DC SHPO would be required and would follow SOP 3 (NRHP Section 106 Consultation procedures) in the JBAB ICRMP. The DAF would first avoid, then minimize effects to historic properties under this project. If adverse effects cannot be avoided, they would be mitigated through an agreement with the DC SHPO and other consulting parties as appropriate. If appropriate mitigation is identified and implemented, this project would likely result in no significant effects	
9	MDS Clinic		
10	South Gate & Visitors Center	Effects would be the same as Alternative 1.	

### 1 Summary

10

- 2 Under Alternative 2, NHPA compliance for each project would occur once adequate designs for
- 3 consultation are available. Design of new construction would be done in accordance with the cultural
- 4 resources SOPs included in the 2020 JBAB ICRMP (JBAB, 2020). The DAF would avoid all historic
- 5 properties where feasible and conduct archaeological investigations for each project where necessary. The
- 6 DAF would seek to avoid, minimize, and mitigate any potential adverse effects to historic properties
- 7 through consultation with the DC SHPO. Identified adverse effects would be mitigated under the terms of
- 8 an individual project Section 106 consultation with the DC SHPO. If appropriate mitigation is identified
- 9 with the DC SHPO and followed, there would be no significant effects to cultural resources.

# 3.5 Infrastructure

### 11 3.5.1 Regulatory Setting

- 12 The regulatory framework for infrastructure at JBAB is governed by a series of instructions and strategies
- that ensure the development, management, and modernization of military facilities align with established
- standards and objectives. AFI 32-1015, *Integrated Installation Planning*, provides the overarching
- 15 guidance for installation planning, emphasizing resilience and adaptation to environmental challenges.

#### 16 3.5.2 Affected Environment

- 17 The following discussions provide a description of the existing conditions and capacity for infrastructure
- at JBAB. Functionality and efficiency of utility infrastructure at JBAB is a critical component for meeting
- mission needs. Overall, infrastructure conditions ratings range from fair to poor, with existing capacities
- 20 that are adequate to meet current demand but with limited reserve capacity to meet increasing demands
- 21 without future modernization.

### 22 Potable Water

- JBAB sources its water supply from DC Water, which is delivered through two separate distribution
- systems for the installation's north and south sides, with a daily average demand of 878 kilogallons per
- 25 day and a peak rate of 953 kilogallons per day. The northern system has a primary main pipeline that is
- 26 linked to several subsidiary pipe connections, and a comprehensive network of smaller pipes that extend
- 27 throughout the northern part of the installation. The southern system has a primary main line that is linked
- 28 to several metered connections and comprises an aging network of piping, service connections, fire
- 29 hydrants, and supply valves. Certain portions of the system need infrastructure upgrades to ensure
- 30 sufficient pressure for fire protection and some components of the system are subject to EPA
- 31 administrative orders due to ongoing issues relating to flooded meter vaults and inadequate backflow
- 32 prevention controls (JBAB, 2022a; USEPA, 2019). Replacement of the current water distribution system
- at JBAB is currently in the planning stages (JBAB, 2022a). Within the Sentinels of the Capital District,
- 34 land subsidence near Building 398 is currently impacting potable water infrastructure and limiting water
- availability within the mail facilities (JBAB, 2022b). Overall, the potable water system at JBAB has a
- 36 yellow "watch list" capacity rating, meaning that it is adequate for current mission requirements, but with
- 37 limited or no potential for growth (JBAB, 2022a).

### 38 Wastewater Systems

- Wastewater at JBAB is handled through a system of gravity mains, pressurized mains, and lift stations
- 40 organized into five collection basins before being treated by DC Water at the Blue Plains Advanced
- Wastewater Treatment Plant and discharged into the Potomac River. The wastewater system at JBAB
- 42 operates at approximately 70 percent capacity, with daily average demand of 790 kilogallons per day, and
- 43 peak demand as high as 858 kilogallons per day. Overall, the system is rated as fair to poor, with ongoing

- 1 issues related to insufficient pipe sizes causing backflow issues and affecting pumping capacity (JBAB,
- 2 2022a).

### 3 Storm Water

- 4 Storm water at JBAB is handled through two separate systems with the northside system draining to the
- 5 Anacostia River, and the southside system draining into the Potomac River. The northside storm water
- 6 system is comprised by a network of drainpipes, culverts, inlets, outfalls, and pump stations. Three of the
- 7 four outfalls have undergone major upgrades in order to mitigate flooding issues at the installation
- 8 (JBAB, 2022a). Flooding remains a major issue at JBAB, with degraded storm water capacity in some
- 9 areas as a contributing factor. Compliance with federal requirements for stormwater infiltration and the
- 10 need to reduce pressure on the combined sewer outflows into the Potomac and Anacostia Rivers has
- driven the need to incorporate additional stormwater treatment features at JBAB, including bioswales,
- 12 green retention areas, sand filters, trash receptors, porous pavements, and green roofs. Additional
- 13 upgrades are planned to increase storm water capacity within the system (JBAB, 2022a). Within the
- 14 Historic Anacostia and Sentinels of the Capital districts, land subsidence is a concern that compounds
- issues with aging stormwater infrastructures. These components could imperil underground pipes while
- also increasing flood risk and the overall demand on the system (JBAB, 2022b; JBAB, 2023b). Large,
- 17 mature oak trees with extensive root systems are a contributing factor to deteriorating stormwater
- 18 infrastructure in areas of historic housing within the Historic Bolling District (JBAB, 2022c). Overall, the
- storm water system at JBAB has a yellow capacity rating, meaning that it is adequate for current mission
- requirements, but with limited or no potential for growth (JBAB, 2022a).

#### 21 Electrical

- 22 Electrical service at JBAB is provided by the Potomac Electric Power Company (PEPCO) with a total
- 23 demand of approximately 89,000 megawatt hours per year. The age of electrical infrastructure and other
- concerns present challenges to ensuring adequate system capacity into the future (JBAB, 2022a). The
- 25 Historic Bolling District's ongoing 5-year plan for upgrades includes improvements to the resiliency of
- 26 the electrical infrastructure (JBAB, 2022c). Within the Sentinels of the Capital District, power outages
- due to the lack of sufficient distribution, source redundancy, and insufficient backup generators has
- 28 caused disruptive power outages (JBAB, 2022b). Overall, the electrical system at JBAB has a yellow
- rating, meaning that it is adequate for current mission requirements, but with limited or no potential for
- 30 growth (JBAB, 2022a).

### 31 Natural Gas

- 32 Natural gas infrastructure at JBAB is owned and maintained by Washington Gas. Natural gas service is
- provided though mainlines entering the installation and a separated feeder line. Daily average demand on
- 34 the system is approximately 108,000 cubic feet, with peak demand reaching approximately 118,000 cubic
- 35 feet per day. The installation's natural gas infrastructure is adequate to meet current and future mission
- 36 needs (JBAB, 2022a).

#### 37 Communications

- 38 Telephone service at JBAB is provided by Verizon. The 844th Communications Group and 794th
- 39 Communications Squadron maintain communications infrastructure and provide customer support.
- 40 Overall, communications infrastructure at JBAB is in poor condition with a red rating, meaning it does
- 41 not meet current installation requirements (JBAB, 2022a).

#### 42 3.5.3 Environmental Consequences

- This section analyzes the magnitude of anticipated increases or decreases in public works infrastructure
- demands considering current conditions and storage capacities and evaluates potential effects on public

- 1 works infrastructure associated the alternatives. Adverse effects are evaluated by whether they would
- 2 result in the use of a substantial proportion of the remaining system capacity, reach or exceed the current
- 3 capacity of the system, or require development of facilities and sources beyond those existing or currently
- 4 planned.

### 5 3.5.3.1 No Action Alternative

- 6 Under the No Action Alternative, existing infrastructure conditions and capacities would not be
- 7 improved. Current impacts to mission sustainment and readiness would persist and possibly increase
- 8 without the upgrades included with the Proposed Action, particularly associated with Project 4, Electric
- 9 Switch Station Reliability Improvements and new utility connections associated with new facilities.

## 10 3.5.3.2 Alternative 1: Implement IDP Five-Year Projects

- 11 Construction and demolition activities under Alternative 1 would result in short-term effects to utility
- 12 infrastructure and services at the installation. Brief disruptions in water, electricity, natural gas, and
- 13 communications services would be expected throughout project implementation. These disruptions would
- be planned and coordinated with potentially affected facilities to avoid major effects to mission operations
- or quality of life for residents.
- Detailed design plans for Alternative 1 projects are not yet available, including the specific utility
- 17 requirements and systems necessary for new construction projects. As necessary and based on the existing
- infrastructure at each site, upgrades for specific utility systems and infrastructure would be incorporated
- into the early construction phases if on-site systems are degraded or determined not to be adequate for the
- specific project. Given the overall condition of JBAB infrastructure, utility system upgrades would likely
- 21 be required for Alternative 1 projects that require utility connections.
- 22 Under Alternative 1, the installation workforce would increase by 2,150 individuals or approximately
- 23 13 percent. This increase would likely translate into a proportional increase in demand on potable water,
- wastewater, electrical, natural gas, and communications infrastructure at JBAB. Table 3-18 summarizes
- existing conditions for these categories of infrastructure and expected effects likely to result from both
- 26 action alternatives.

Table 3-18: Summary of Potiential Effects on Infrastructure

Utility System	Provider	Current Capacity Rating	Will Alternative Increase Demand?	Potential Effects to Infrastructure Condition and Capacity
Potable Water	DC Water	Yellow, Meets current mission(s) requirements with limited or no potential for growth.	Yes	Improved efficiencies of modern facility design and infrastructure upgrades on JBAB would likely offset a portion of increased demand, resulting in only minor adverse effects.
Wastewater	DC Water	Yellow, Meets current mission(s) requirements with limited or no potential for growth.	Yes	Existing capacity is adequate to handle increased demand.

Utility System	Provider	Current Capacity Rating	Will Alternative Increase Demand?	Potential Effects to Infrastructure Condition and Capacity
Storm Water	n/a	Yellow, Meets current mission(s) requirements with limited or no potential for growth.	Yes	Low-impact development standards associated with the new construction would improve overall stormwater capacity.
Electrical	PEPCO	Yellow, Meets current mission(s) requirements with limited or no potential for growth.	Yes	The electrical infrastructure modernization project would improve electrical service reliability at the installation and increase redundancy within the system, creating a more resilient and dependable electrical grid.
Natural Gas	Washington Gas	Green, Meets current mission(s) requirements with growth potential.	Yes	Existing infrastructure capacity is adequate for mission growth.
Communications  Verizon/ DAF  Red, Does not meet current mission(s) requirements.		Yes	Existing concerns with capacity issues, and communications infrastructure condition, including inadequately housed lines and frequently flooding manholes, would likely persist at the installation until infrastructure upgrades occur.	

#### 1 Potable water

- 2 Given the increase in the workforce, average potable water demand could increase to approximately 992
- 3 kilogallons per day. Under a worst-case scenario, a peak potable water demand of 1,077 kilogallons per
- 4 day could occur. Given the current "watch list" capacity rating of the potable water system, this additional
- 5 demand would likely result in adverse effects. However, modern facility design and efficiency standards
- 6 including low-flow fixtures, more efficient plumbing systems, and smart water management technologies
- 7 would likely be incorporated into the new infrastructure. These efficiency standards would reduce the
- 8 overall increase in demand under Alternative 1. Additionally, on-going and planned potable water
- 9 infrastructure modernization projects would likely keep pace with increased demands. For these reasons,
- 10 Alternative 1 would only result in long-term, minor adverse effects to potable water.

#### 11 Wastewater

- 12 With the additional workforce, an increase in wastewater system demand would likely occur. In the
- 13 absence of more efficient plumbing systems incorporated into new facility designs, an approximate 13
- 14 percent increase in the installation workforce would likely result in an average daily demand of 892
- 15 kilogallons, with peak daily demand of 970 kilogallons. This would equate to approximately 79 percent of
- 16 total wastewater capacity at JBAB. However, more efficient plumbing systems within the new facilities
- 17 would offset a portion of this increased demand on the wastewater system. Overall, Alternative 1 would
- 18 result in long-term, minor increases in wastewater demand.

#### Stormwater

1

- 2 Construction and demolition activities would likely result in short-term effects to storm water
- 3 infrastructure within the immediate vicinity of project sites. During these activities, disturbed and exposed
- 4 soils could lead to an increase in sedimentation during precipitation events, resulting in overwhelmed
- 5 storm drains and reduced runoff capture capacity. Additionally, heavy equipment utilized at project sites
- 6 has the potential to compact soils, reducing their ability to absorb water, increasing the volume of runoff
- 7 that must be managed by stormwater systems. These effects to stormwater infrastructure would be
- 8 minimized through the implementation of required stormwater BMPs and erosion and sediment control
- 9 plans and would be short-term.
- Alternative 1 would result in a net-increase of impervious surfaces, potentially increasing overall demand
- 11 on the stormwater infrastructure that currently has minimal additional capacity. Increases in stormwater
- demand would be minimized through stormwater management and control elements incorporated into the
- design of planned facilities. Low-impact development standards associated with the new construction
- would improve overall stormwater capacity, offsetting runoff associated with the increased impervious
- surfaces. Overall, Alternative 1 would be expected to improve the overall condition of stormwater
- infrastructure at the project-specific sites, with minor effects to overall stormwater capacity.

#### 17 Electrical

- 18 The new facilities and additional personnel would increase overall demand on existing electrical
- 19 infrastructure. The proposed facilities would incorporate design elements aimed at energy efficiency,
- 20 minimizing the overall increase in electrical demand. The electrical infrastructure modernization project
- 21 would improve electrical service reliability at the installation and increase redundancy within the system,
- creating a more resilient and dependable electrical grid. As a result, long-term, beneficial effects to
- 23 electrical infrastructure condition and capacity would be expected under Alternative 1.

## 24 Natural Gas

- 25 New facilities and additional personnel would likely increase natural gas demand at the installation. The
- 26 installation's natural gas infrastructure is currently in good condition with adequate capacity to meet
- 27 future demands. No long-term effects to natural gas infrastructure condition and capacity would be
- 28 expected under Alternative 1.

#### 29 Communications

- 30 Issues related to existing communications infrastructure at the installation, as discussed in Section 3.4.2,
- 31 could be exacerbated by the expected increase in the workforce under Alternative 1. Existing concerns
- 32 with capacity issues and communications infrastructure condition would likely persist until infrastructure
- 33 upgrades occur. Overall, the condition of the communications infrastructure would remain unchanged.
- 34 Communications needs for each proposed project would be determined during the design and
- 35 construction phase, at which time DAF would assess the infrastructure upgrades necessary to ensure the
- 36 viability of the installation communication requirements. The increase in demand under Alternative 1
- would result in long-term, minor effects to the communications infrastructure.

### 38 Summary

- 39 Overall, effects to infrastructure at JBAB under Alternative 1 would result in short-term, minor
- 40 disruptions in utility services on an intermittent basis. Alternative 1 would have long-term, beneficial
- 41 effects to electrical infrastructure reliability. Modern building designs that incorporate water and energy
- 42 efficiency standards would likely offset a portion of the anticipated increase in demand under Alternative
- 43 1. However, the increases in infrastructure demand would have long-term, minor effects on the overall
- 44 infrastructure capacities, adding additional stress to aging systems already in need of upgrades.

### 1 3.5.3.3 Alternative 2: Alternative Siting for IDP Five-Year Projects

- 2 Effects to infrastructure under Alternative 2 would be similar to those described for Alternative 1.
- 3 Localized service disruptions during construction and demolition activities would vary slightly; however,
- 4 close coordination would ensure no major effects to mission activities would occur. An equally projected
- 5 increase in the installation workforce would result in comparable long-term increases in infrastructure
- 6 demands as compared to Alternative 1, while the overall condition of existing infrastructure would largely
- 7 remain unchanged. Overall, effects to infrastructure at JBAB under Alternative 2 would result in short-
- 8 term, minor disruptions in utility services. Alternative 2 would have long-term, beneficial effects to
- 9 electrical infrastructure reliability. Modern building designs that incorporate water and energy efficiency
- standards would likely offset a portion of the anticipated increase in demand under Alternative 2.
- 11 However, the increases in infrastructure demand would have long-term, minor effects on the overall
- 12 infrastructure capacities, adding additional stress to aging systems already in need of upgrades.

# 13 Summary

- 14 Under Alternative 2, effects would be similar to those under Alternative 1. No significant effects on
- 15 infrastructure would occur.

## 16 **3.6 Noise**

23

- 17 This discussion of noise includes the types or sources of noise and the associated sensitive receptors in the
- 18 human and biological environment.
- 19 Sound is a physical phenomenon consisting of minute vibrations that travel through a medium, such as air
- or water, and are sensed by the human ear. Sound is all around us. The perception and evaluation of sound
- 21 involves three basic physical characteristics:
- Intensity—the acoustic energy, which is expressed in terms of sound pressure, in decibels (dB)
  - Frequency—the number of cycles per second the air vibrates, in Hertz
- Duration—the length of time the sound can be detected
- Noise is defined as unwanted or annoying sound that interferes with or disrupts normal human activities.
- Although continuous and extended exposure to high noise levels (e.g., through occupational exposure)
- 27 can cause hearing loss, the principal human response to noise is annoyance. The response of different
- 28 individuals to similar noise events is diverse and is influenced by the type of noise, perceived importance
- of the noise, its appropriateness in the setting, time of day, type of activity during which the noise occurs,
- and sensitivity of the individual.

#### 31 3.6.1 Regulatory Setting

- 32 The loudest sounds that can be detected comfortably by the human ear have intensities that are a trillion
- 33 times higher than those of sounds that can barely be detected. This vast range means that using a linear
- 34 scale to represent sound intensity is not feasible. The dB is a logarithmic unit used to represent the
- intensity of a sound, also referred to as the sound level. All sounds have a spectral content, which means
- 36 their magnitude or level changes with frequency, where frequency is measured in cycles per second or
- 37 Hertz. To mimic the human ear's non-linear sensitivity and perception of different frequencies of sound,
- 38 the spectral content is weighted. For example, environmental noise measurements are usually on an "A-
- 39 weighted" scale that filters out very low and very high frequencies to replicate human sensitivity. It is
- 40 common to add the "A" to the measurement unit to identify that the measurement has been made with this
- 41 filtering process (i.e., dBA). In this document, the dBA unit refers to A-weighted decibels or sound levels.
- Table 3-19 provides a comparison of how the human ear perceives changes in loudness on the logarithmic
- 43 scale.

Table 3-19: Subjective Responses to Changes in A-Weighted Decibels

Change	Change in Perceived Loudness
3 dBA	Barely perceptible
5 dBA	Quite noticeable
10 dBA	Dramatic—twice or half as loud
20 dBA	Striking—fourfold change

Key: dBA = A-weighted decibel

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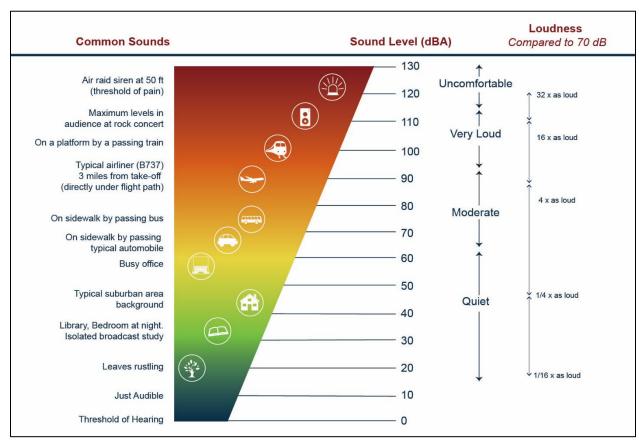
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Figure 3-7 provides a chart of A-weighted sound levels from typical noise sources. Some noise sources (e.g., air conditioner, vacuum cleaner) are continuous sounds that maintain a constant sound level for some period (Cowan, 1994). Other sources (e.g., automobile, heavy truck) are the maximum sound produced during an event like a vehicle pass-by. Other sounds (e.g., urban daytime, urban nighttime) are averages taken over extended periods of time. A variety of noise metrics have been developed to describe noise over different time periods, as discussed in the following text.

Figure 3-7: A-Weighted Sound Levels from Typical Sources



#### **Noise Metrics**

- A metric is a system for measuring or quantifying a characteristic of a subject. Since noise is a complex physical phenomenon, different noise metrics help to quantify the noise environment.
- 12 Day-Night Average Sound Level (DNL)
- DNL is defined as the average sound energy in a 24-hour period with an adjustment (in decibels) added to nighttime noise events occurring between the hours of 10:00 p.m. and 7:00 a.m. DNL provides a measure
- of the overall acoustical environment, but it does not directly represent the sound level at any given time.

- 1 It is an average quantity mathematically representing the continuous A-weighted sound level that would
- 2 be present if all the variations in sound level that occur over a 24-hour period were smoothed out to
- 3 contain the same total sound energy. DNL accounts for the maximum noise levels, the duration of the
- 4 events (operations), the number of events, and the timing of their occurrence over a 24-hour period. DNL
- 5 contours are based on the average annual day and averaged over 365 days for long-term compatible land
- 6 use planning.
- 7 Maximum Sound Level (Lmax)
- 8 The highest A-weighted sound level measured during a single event where the sound level changes value
- 9 with time is called the maximum A-weighted sound level or Lmax. This is the highest sound level within
- a stated time interval. The time interval is typically the duration of the noise event.
- 11 Equivalent Sound Level
- 12 A cumulative noise metric useful in describing noise is the equivalent sound level (Leq). Leq is the
- 13 continuous sound level that would be present if all the variations in sound level occurring over a specified
- 14 period were smoothed out to contain the same total sound energy. The calculation for a daily average time
- or a 24-hour equivalent sound level is abbreviated Leq(24). Other typical time periods for Leq are 1 hour
- and 8 hours.

#### 17 3.6.2 Affected Environment

- 18 Response to noise varies, depending on the type and characteristics of the noise, distance between the
- 19 noise source and whoever hears it (the receptor), receptor sensitivity, and time of day. A noise-sensitive
- 20 receptor is a land use where people involved in indoor or outdoor activities could be subject to stress or
- 21 considerable interference from noise. Such locations or facilities often include residential dwellings,
- 22 hospitals, nursing homes, educational facilities, and libraries. Sensitive receptors can also include noise-
- sensitive cultural practices, some domestic animals, or certain wildlife species.
- 24 The predominant sources of noise at JBAB and the surrounding area include on-base military helicopter
- operations, commercial aircraft operations at Ronald Reagan Washington National Airport (DCA) across
- the Potomac River, and vehicular traffic, particularly from South Capitol Street and I-295. Secondary
- sources of noise include installation traffic, equipment operation, installation-wide announcements,
- anthems at the start of day and end of day, boat traffic, and Honor Guard practice. There are two rotary-
- 29 wing landing facilities on JBAB where helicopter operations occur. A smaller helicopter landing zone is
- designated for personnel transport and medical evacuation flights. Both landing facilities are in the middle
- 31 of the installation. Helicopter operations from these facilities are sporadic and not a consistent source of
- 32 noise. While noise from DCA is steady, the installation and nearby neighborhoods are outside the 65 dBA
- 33 DNL contour, which is the accepted threshold for incompatibility with residential land uses.
- 34 The project sites are within the installation boundary and the land that surrounds the project sites consists
- 35 mostly of military uses. The Anacostia River is west of the military boundary; South Capitol Street
- 36 (which turns into Outlook Avenue SW to the south) and I-295 are located to the east. The project sites are
- 37 within and/or adjacent to all of the different types of the installation's land uses, including
- 38 industrial/logistics, mission/administration, airfield operations, unaccompanied housing, CSX easement,
- 39 community support, family housing, medical, open space/outdoor recreation, and transient quarters. To
- 40 the east of I-295, along the interstate, lies Shepherd Parkway, Fort Greble Park, and a buffer of trees that
- 41 extend parallel to the southernmost point of JBAB to the northern portion of JBAB, adjacent to the US
- 42 Coast Guard Headquarters. East of the parks and tree buffer are residences, businesses, religious facilities,
- 43 Leckie Elementary School, and BridgePoint Hospital National Harbor.

- 1 Table 3-20 shows typical sound levels for various types of residential land uses. Very noisy urban areas
- 2 have the highest sound levels at 66 dBA during the daytime and 58 dBA during nighttime hours. Normal
- 3 suburban areas are 50 dBA during the day and 44 dBA at night. Given the land uses around the proposed
- 4 project sites, and that the area is in Washington, DC, existing land use is considered to be noisy and
- 5 urban.

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**Table 3-20: Typical Residential Sound Levels** 

Residential Land Use	Daytime Sound Level	Nighttime Sound Level
Very Noisy Urban	66 dBA	58 dBA
Noisy Urban	61 dBA	54 dBA
Urban/Noisy Suburban	55 dBA	49 dBA
Quiet Urban/Normal Suburban	50 dBA	44 dBA
Quiet Suburban	45 dBA	39 dBA
Very Quiet Suburban/Rural	40 dBA	34 dBA

(ANSI/ASA, 2013)

Key: dBA = A-weighted decibels

#### 3.6.3 Environmental Consequences

#### 9 3.6.3.1 No Action Alternative

- 10 The Proposed Action would not occur under the No Action Alternative and noise levels would remain the
- 11 same as existing conditions. The noise environment under the No Action Alternative would continue to
- be affected by noise sources like helicopter operations, commercial aircraft operations, and vehicular
- traffic, boat traffic, operation of equipment, and other installation activities. Therefore, no significant
- 14 effects on the noise environment would occur under the No Action Alternative.

### 15 3.6.3.2 Alternative 1: Implement IDP Five-Year Projects

- 16 The study area for noise effects includes the Alternative 1 project sites and surrounding areas.
- 17 Short-term effects from Alternative 1 would include instantaneous and intermittent daytime noise from
- 18 demolition and construction activities. Noise levels from demolition and construction of the proposed
- 19 projects would diminish with distance from the project sites and would only occur during daytime hours.
- Table 3-21 lists the typical maximum noise levels (Lmax) at 50 feet from the source of heavy equipment
- 21 that could be used during the proposed demolition and construction activities.
- As shown in Table 3-21, Lmax from construction equipment and trucks can range from 74 dBA to 90
- dBA at 50 feet. Project 10 would be the closest site to a noise sensitive area located outside of the
- 24 installation, which are residences and the Living Word Church located approximately 700 feet east of the
- 25 installation (i.e., housing on 2nd St SW). Project 10 involves the replacement of a new gate; thus, paving
- would likely occur. The cumulative noise level from paying is estimated to be 92 dBA; at 700 feet that
- 27 level diminishes to 69 dBA (see Appendix D, Noise Calculations). Populations at these residences, the
- 28 Living Word Church, and other surrounding land uses could experience noise effects from increased
- 29 noise levels during the construction period; however, these effects would be intermittent, confined to
- daytime hours, and would be short-term, as they are estimated to occur from FY2028–FY2029.
- 31 Additionally, Overlook Avenue SW, I-295, and approximately 275 feet of trees lie between the eastern
- 32 edge of the project site and the nearest residence. The trees would provide a buffer from the construction
- 33 noise. In addition, these residences already experience noise from vehicular traffic on the major
- 34 roadways. Therefore, it is unlikely that off-installation residences and the Living Word Church would
- 35 experience noise levels that are uncommon in the existing ambient environment.

**Table 3-21: Construction Equipment Noise Emission Levels** 

Equipment	Typical Maximum Noise Level (Lmax dBA) 50 feet from Source
Air compressor	81
Backhoe	80
Compactor	82
Concrete mixer	85
Concrete pump	82
Crane	88
Dozer	85
Generator	81
Grader	85
Impact wrench	85
Jack hammer	88
Loader	85
Paver	89
Pump	76
Rail saw	90
Roller	74
Saw	76
Scarifier	83
Scraper	89
Shovel	82
Spike driver	77
Tie cutter	84
Tie inserter	85
Truck	88

Source: Federal Transit Administration, 2006.

Key: dBA = A-weighted decibels.

Note: Table based on a USEPA Report, which measured data from railroad construction equipment taken during the Northeast Corridor Improvement Project, and other measured data.

5 Project 8 would be constructed adjacent to the Learn DC Public Charter School. The exact locations of 6 the structures and the limits of disturbance for Projects 3 and 8 would be determined during design. Thus, 7 a conservative estimate of 50 feet from the construction site was used to determine noise levels at these 8 sensitive receptors, which generally ranges from 74 dBA to 90 dBA. Populations at the Learn DC Public 9 Charter School could experience noise effects from increased levels during the construction period;

- 10 however, these effects would be intermittent and short-term, as they are estimated to occur from FY2028-
- 11 FY2029. Additionally, buildings that are in good condition can provide a reduction in exterior noise
- 12 levels. A typical dwelling built with standard materials provides 20 to 30 dB of noise-level reduction
- 13 when the windows and doors are closed, if the structure is in good condition (U.S. Navy, 2005). The
- 14 Learn DC Public Charter School is expected to move into a permanent facility by FY2028, which would
- 15 improve soundproofing over the current trailer setup. Therefore, there would be no significant effects
- 16 from construction noise on nearby schools.
- 17 Project 6 is the closest site to the Potomac River. Boats, ferries, water taxis, and sightseeing boat tours
- 18 travel in the Potomac River. The distance between the boats and Project 6 is approximately 1,700 feet.
- 19 Project 6 includes the construction of a trail; therefore, clearing and grubbing would likely occur. The
- 20 cumulative noise level from clearing and grubbing is estimated to be 86 dBA; at 1,700 feet, that level
- 21 diminishes to 55 dBA. The proposed trail would also go through residential housing adjacent to McGuire
- 22 Avenue. There would be approximately 50 feet between Project 6 and the nearest residence. Noise from

2 3

- 1 construction would be intermittent, confined to daytime hours, and would be short-term, as they are
- 2 estimated to occur from FY2026–FY2027. Additionally, construction work for this project would be
- 3 minor and extend approximately 2,200 feet through the residential area. Therefore, residences 50 feet
- 4 away would be exposed to the associated noise levels for a short period of time, and noise would dissipate
- 5 as the project progressed further away from each residence. In addition, buildings in good condition with
- 6 closed windows and doors can reduce exterior noise levels (Federal Aviation Administration, 2022).
- 7 Therefore, effects from construction noise would not be significant.
- 8 Noise levels would increase in the short term due to increased traffic from construction trucks and
- 9 equipment. Noise levels would also increase in the long term due to increased traffic from the additional
- personnel hired to operate the proposed facilities. A noise study that evaluates the potential noise effects
- 11 from the proposed construction, demolition, and renovation projects in more detail is included in
- 12 Appendix E.
- 13 Traffic data from the Transportation Study for Five-Year Installation Development Plan Update
- 14 Programmatic Environmental Assessment at Joint Base Anacostia-Bolling, Washington, D.C. (Appendix
- 15 F) was used to assess long-term traffic noise impacts. The analysis compared Alternative 1 to the No
- 16 Action Alternative, which accounts for forecasted traffic volumes, including trips from approved planned
- developments and growth in vehicle trips from outside the study area through 2030. Leckie Elementary
- 18 School and nearby residences located off Chesapeake Street SW would experience traffic volumes similar
- 19 to those under the No Action Alternative, with a minor increase of 0.2 percent in the evening. Traffic on
- 20 Malcolm X Avenue SE could increase by approximately 5 percent in morning and evening peak hours
- 21 under Alternative 1. The predominant sources of noise in this area are from vehicular traffic on South
- 22 Capitol Street and I-295, and helicopter and aircraft operations. Given that the ambient noise environment
- 23 is typical of an urban environment, the minor increase in vehicles would not result in significant noise
- effects on the surrounding population.

#### Summary

25

- 26 The ambient noise environment adjacent to the installation is considered noisy urban and very noisy
- 27 urban. Major roadways, including I-295, and a tree buffer lie between the eastern edge of JBAB and the
- 28 adjacent neighborhoods, which would reduce the noise level that off-installation populations would
- 29 experience. Noise from construction activities would be intermittent, confined to daytime hours, and
- 30 short-term. Noise from the projected increase in traffic would be minor. Therefore, it is unlikely that
- 31 populations working or residing in residences and other noise sensitive receptors would experience noise
- 32 levels that are uncommon in the existing environment. Noise effects would not be significant.

### 33 3.6.3.3 Alternative 2: Alternative Siting for IDP Five-Year Projects

- 34 The study area for noise effects includes the Alternative 2 project sites and surrounding areas. Since many
- of the Alternative 2 project sites would be similar to Alternative 1, noise effects from construction would
- 36 be similar to Alternative 1. Noise levels from demolition and construction of the proposed projects would
- 37 diminish with distance from the sites, would only occur during daytime hours, and would be short-term.
- Noise from increased traffic over the long-term would be greater along Chesapeake Street SW under
- 39 Alternative 2 compared to Alternative 1. Under Alternative 2, there would be an approximate 2 percent
- 40 increase in vehicles traveling along Chesapeake Street SW in the morning and a 28.5 percent increase in
- 41 vehicles traveling along Chesapeake Street SW in the evening compared to the No Action Alternative.
- 42 Given this increase, the change in noise levels was estimated. The metric Leq (1 hour) was used to
- 43 estimate the noise levels from vehicles during peak traffic hours. To estimate Leq, input data included
- 44 noise levels for a typical passenger car, the time period for the measured levels, and the number of
- 45 vehicles during a specified hour. For noise levels from passenger cars, data were obtained from tests that

- 1 measured noise emissions from road vehicles. At approximately 25 feet, passenger cars traveling about 30
- 2 miles per hour emitted sound levels of approximately 73 dBA Lmax (TNO Science and Industry, 2011).
- 3 Using this input data, calculations were estimated at Chesapeake Street SW in the evening because it has
- 4 the largest percent increase in vehicles as compared to the No Action Alternative. Under the No Action
- 5 Alternative, there are 530 vehicles during the afternoon peak hour, which would increase to 681 vehicles
- 6 under Alternative 2. The estimated noise level from vehicles under the No Action Alternative is 64.7 dBA
- 7 Leq(1), which increases to 65.8 dBA Leq(1) under Alternative 2 (see Appendix D, Noise Calculations).
- 8 Therefore, the increase in noise under Alternative 2 is approximately 1.1 dBA Leg(1) as compared to the
- 9 No Action Alternative. As shown in Table 3-19, changes that are less than 3 dBA are barely perceptible to
- the human ear.
- 11 Vehicles traveling along Malcolm X Avenue SE under Alternative 2 are projected to be slightly less than
- that of Alternative 1. Given that the ambient noise environment in this area is typical of an urban
- environment, the increase in vehicles would not produce significant noise effects.

#### 14 Summary

- 15 The noise effects from implementation of Alternative 2 would be similar to those under Alternative 1. It is
- 16 unlikely that populations working or residing in residences and other noise sensitive receptors would
- 17 experience noise levels that are uncommon in the existing environment. Noise effects would not be
- 18 significant.

## 19 3.7 Hazardous Materials and Waste

20 This section discusses hazardous materials, hazardous waste, toxic substances, and contaminated sites.

# 21 3.7.1 Regulatory Setting

- 22 This section discusses the primary regulations relevant to hazardous materials and waste. Under the
- 23 Resource Conservation and Recovery Act (RCRA; 42 U.S.C. 6901 et seq.), the USEPA has the authority
- 24 to control hazardous waste from, "cradle-to-grave." This includes the generation, transportation,
- 25 treatment, storage, and disposal of hazardous waste. RCRA creates the framework for the proper
- 26 management of both hazardous and nonhazardous solid waste. The Air Force Manual 32-7002 outlines
- 27 comprehensive guidelines for the management of hazardous materials and waste. This manual establishes
- 28 the Hazardous Materials Management Process as an essential part of the DAF Environmental
- 29 Management System. The Hazardous Materials Management Process is designed to ensure compliance
- 30 with various federal laws, such as the RCRA. The Toxic Substances Control Act of 1976 (15 U.S.C. 2601
- 31 et seq.) provides the USEPA with the authority to require reporting, record-keeping and testing
- 32 requirements, and restrictions relating to chemical substances and/or mixtures. In April 2024, the USEPA
- 33 designated two PFAS—perfluorooctanoic acid (PFOA) and perfluorooctane sulfonic acid (PFOS),
- 34 including their salts and structural isomers—as hazardous substances under the Comprehensive
- 35 Environmental Response, Compensation, and Liability Act (CERCLA), also known as Superfund. This
- rulemaking requires entities to immediately report releases of PFOA and PFOS that meet or exceed the
- 37 reportable quantity to the appropriate entity. Further detail regarding the regulatory setting for hazardous
- materials and waste can be found in Appendix A of this EA.

### 3.7.2 Affected Environment

- 40 Hazardous materials used or stored on the installation include various organic solvents, chlorine, Freon,
- 41 paints, thinners, oils, lubricants, compressed gases, pesticides, herbicides, nitrates, chromates, stripping
- 42 materials, waste oils, waste paint-related materials, and other miscellaneous waste. A detailed tracking
- 43 and accounting system known as the DAF Enterprise Environmental, Safety, and Occupational Health
- 44 Management Information System (EESOH-MIS) is used to identify potentially hazardous materials and

- 1 ensure that organizations are approved to use specific materials (DAF, 2021). Contractors working on
- 2 JBAB are responsible for compliance and reporting parameters to the installation Civil and Infrastructure
- 3 Engineering department to report any hazardous materials brought to, used, stored on, or discovered at
- 4 JBAB. No hazardous materials are left on a project site once complete.
- 5 The DAF has initiated numerous programs on the installation to track, manage, and minimize the use of
- 6 hazardous materials and the generation of hazardous waste, including but not limited to the DAF EESOH-
- 7 MIS, Spill Prevention, Control, and Countermeasure guidelines, and Asbestos Management and
- 8 Operation Plan. The installation's Spill Prevention Response Plan outlines strategies and procedures to
- 9 minimize the risk of spills, including regular inspections, maintenance of equipment, and employee
- training. Any releases of hazardous material specific to any building or tenant facility on JBAB must be
- 11 addressed via a supplement to the April 2022 General Base Wide Environmental Baseline Survey for
- 12 JBAB (JBAB, 2022d). The following sections detail various types of hazardous materials and waste
- found at JBAB.

#### 14 3.7.2.1 Hazardous Materials and Petroleum Products

- Hazardous materials brought onto JBAB or taken off JBAB (as waste) must be coordinated through the
- 16 11th Civil Engineer Squadron Environmental Element. Safety data sheets and material volume are
- 17 required prior to a product being brought on base. Shipping documents must be signed by an 11th Wing-
- delegated staff member.
- 19 Several hazardous waste Initial Accumulation Points are located throughout the installation. Waste is
- 20 collected and transported to the main storage facility, which is located on the installation, by contractors
- 21 who support the 11th Civil Engineer Squadron Environmental Element staff. The Defense Logistics
- 22 Agency is responsible for the final disposition of hazardous waste.
- Numerous facilities at JBAB utilize and store petroleum products, ranging from small heating oil tanks to
- 24 large underground storage tanks used to store aviation fuel. These tank systems are managed by the 11th
- 25 Civil Engineer Squadron and are currently compliant with regulations with no known releases. Past
- 26 releases of petroleum products have occurred on JBAB and have been addressed or are being addressed
- by the environmental restoration program (ERP).
- There are 75 aboveground storage tanks and 45 drum sites (which are considered aboveground storage
- 29 tanks as per the Spill Prevention, Control, and Countermeasure guidelines) located on JBAB that require
- 30 monthly inspections. In addition, there are 18 underground storage tanks located on JBAB; all of which
- 31 are registered, regulated, and managed under the installation's underground storage tank program. The
- 32 2022 Environmental Baseline Survey indicates that there are no known leaks or compliance violations in
- relation to these systems.

#### 3.7.2.2 Toxic Substances

- 35 Asbestos. In 2007, an inspection of 255 of JBAB's 467 buildings and structures was conducted for the
- 36 presence of ACM (JBAB, 2012). These inspections and additional surveys identified ACM comprised of
- 37 floor surfacing materials in one structure, Building 1304. This information is detailed in the respective
- 38 asbestos survey reports and in the asbestos database. No asbestos inspection information is currently
- 39 available for the buildings and structures that were not inspected. Structures with construction dates
- 40 before 1989, the year USEPA regulations were promulgated to restrict the use of ACM, may contain
- 41 asbestos.

- 42 Lead-Based Paint. In 1995, the installation conducted a limited LBP survey of housing units and
- designated priority non-housing facilities. Housing was surveyed in eight phases based on complexes
- with similar floor plans, construction histories, and painting histories. Additionally, nine priority non-

- 1 housing facilities were surveyed. The survey found LBP present in three of eight housing areas and five
- 2 of nine non-housing buildings. Since the survey, most of the buildings identified as containing LBP have
- 3 been demolished and rebuilt. There are still numerous buildings on the installation that were constructed
- 4 before 1978 that likely contain LBP.
- 5 *Polychlorinated biphenyls.* Records included in the 2005 *Military Housing Privatization Initiative*
- 6 Environmental Baseline Survey indicate that all PCBs were removed from the installation. In addition, a
- 7 previous survey of existing transformers completed in 1997 indicated there were no PCBs within any
- 8 transformers on the installation. As the DoD removed PCB transformers from installations throughout the
- 9 1980s, it is presumed that the transformers on the former Naval Support Facility Anacostia portion of
- JBAB are now also PCB-free. Thus, effects due to PCBs are not further analyzed.
- 11 *Per- and Polyfluoroalkyl Substances*. The DAF drafted a Preliminary Assessment for JBAB regarding
- select PFAS compounds subject to future federal environmental regulations. Of particular concern are
- 13 PFOS, PFOA, and perfluorobutane sulfonic acid, which are components of aqueous film-forming foam
- 14 (AFFF) used by the aviation industry and military aviation for fire suppression. The Preliminary
- 15 Assessment identified a former fire training area parking lot, fire station and neighboring Base Personnel
- 16 Center (Building 5/16), and Building 398 as requiring further investigation for PFAS releases (NAVFAC
- Washington, 2022). Giesboro Park, where Proposed Project 3 would occur under Alternative 1 and
- Proposed Project 2 would occur under Alternative 2, is within a former fire training area not identified as
- 19 a potentially contaminated site. The operational timeframe of the training area predates the use of AFFF
- and the site was approved for "no further action" in 2006 (NAVFAC Washington, 2022).
- 21 Radon. USEPA rates Washington, DC as radon zone 2. Areas in radon zone 2 have a moderate potential
- with predicted average indoor radon levels between 2 and 4 picocuries/liter (USEPA, 2023d). The DAF
- and the Navy have conducted testing of representative structures throughout JBAB for the presence of
- 24 radon gas. Results for 100 percent of the structures tested were below the USEPA regulatory permissible
- 25 level of 4 picocuries/liter and no further assessment or remediation was required (JBAB, 2022d).
- Therefore, radon will not be discussed further in this EA.
- 27 Pesticides. USEPA regulates pesticides under the Federal Insecticide, Fungicide, and Rodenticide Act,
- which provides the basis for the regulation, sale, distribution, and use of pesticides in the United States.
- 29 The term pesticide encompasses all pesticides, herbicides, and algaecides used on JBAB. All JBAB pest
- 30 management personnel who apply or supervise the application of pesticides must be trained and certified
- 31 within two years of employment in accordance with the DoD Plan for the Certification of Pesticide
- 32 Applicators of Restricted Use Pesticides, and all contractor pesticide applicators must hold a Pesticide
- 33 Applicator Certificate issued by DOEE. According to the 2022 Environmental Baseline Survey, there are
- 34 no known violations associated with pesticide use or storage at the installation; therefore, effects from
- 35 pesticides are not further analyzed.
- 36 *Medical or Bio-hazardous Waste*. Medical waste is generated by the medical facilities on the installation
- 37 and managed and disposed of via an environmental compliance contract. There are no known issues or
- 38 concerns regarding the management and disposal of medical waste. As do the current facilities, the
- 39 proposed MDS Clinic would follow applicable federal, state, and local regulations. Thus, medical or bio-
- 40 hazardous waste will not be discussed further in this EA.

#### 41 3.7.2.3 Environmental Restoration Program

- 42 ERP activities, which are conducted under the authority of the Defense Environmental Restoration
- 43 Program, have been ongoing at JBAB since the late 1980s to identify, characterize, and clean up releases
- from past contaminated material handling and previously accepted disposal and demolition operations.
- 45 These past operations include motor vehicle and aircraft fueling and maintenance, chemical and material

- 1 storage, and airfield facilities construction, operation and maintenance, and demolition. Prior to the
- 2 realignment of the former facilities, investigations of Installation Restoration Program sites within the
- 3 former Bolling AFB were conducted by the DAF whereas the Navy conducted investigations of ERP sites
- 4 within the former Naval Support Facility Anacostia.
- 5 There are 31 established ERP sites on JBAB, two of which are Military Munitions Response Program
- 6 (MMRP) sites and four of which are considered active. These active sites consist of the Metro Fill Dump,
- 7 Basewide Metals Operable Unit, Potomac Operable Unit, and the Southwest Corner Landfill. Currently,
- 8 the ERP is managing the investigation of the Metro Fill Dump, Basewide Metals Operable Unit, and
- 9 Potomac Operable Unit sites under a single effort to address groundwater across the installation. The
- 10 Basewide Metals Operable Unit investigation addresses metals in groundwater, the Potomac Operable
- 11 unit addresses the migration of nonmetal contaminants into the Potomac River from groundwater, and the
- 12 Metro Fill Dump sites and North-End Landfills are being addressed as a potential source area for metals
- 13 contamination. The Southwest Corner Landfill Site 0008B is currently in long-term
- 14 management/monitoring. This landfill of dredged material from the Potomac River is covered with a
- 15 parking lot that serves as an impermeable cap. Monitoring and maintenance of the cap/parking lot is
- 16 required at this location as described in the signed decision document. The ERP site known as Building
- 17 168 is considered closed by the DoD but still open by the DOEE. There have been no recent discussions
- 18 of DoD reopening this site. A field investigation conducted in 1992 and subsequent human health risk
- 19 assessment concluded Building 168 does not pose a health hazard to those working in the area (JBAB,
- 20 2024). The remaining sites are considered closed by DoD, requiring no further remedial action. Figure 3-8
- 21 and Figure 3-9 depict the ERP site locations near the Alternative 1 and Alternative 2 project sites,
- 22 respectively. Table 3-22 lists the active ERP sites.
- 23 DoD's MMRP is an element of the ERP and was instituted to address the potential safety hazards
- 24 associated with munitions and explosives of concern. Potential munitions and explosives of concern
- 25 reported include unexploded ordnances, discarded military munitions, and munitions constituents in
- 26 concentrations high enough to pose an explosion hazard or potential environmental contamination. The
- 27 MMRP sites consist of small arms and skeet ranges, all of which were closed following investigation.
- 28 There are no ongoing long-term monitoring programs at the MMRP sites (JBAB, 2024). Construction
- 29 plans for projects located within the prior Washington Navy Yard firing fan identify the appropriate
- 30 explosives response team if ordnance is found during construction. None of the proposed projects would
- 31 be located directly within the firing fan.
- 32 In addition to the MMRP sites described above, there is a history of ordnance use dating back to the Civil
- 33 War, which pose a potential source of concern for the installation. During the Civil War, much of the
- 34 northern portion of JBAB had not been filled by dredge spoils and was below water. Testing of naval
- 35 ordnance occurred at the Washington Navy Yard across the Anacostia River, and it is believed that
- ordnance was targeted in the waters now covered by the dredged material that forms the northern portion 36
- 37 of JBAB. Therefore, it has been speculated that munitions are potentially present in the dredge spoils at a
- 38 few of the proposed project sites.

Table 3-22: Active ERP Sites at JBAB

ERP Site Number	Site Title	Approximate Distance to Closest Proposed Project Site
-	Metro Fill Dump	0 ft
SS012	Basewide Metals Op	Basewide
SS013	Potomac River Operable Unit	Basewide
LF006	Southwest Corner Landfill	946 ft

Key: ERP = Environmental Restoration Program

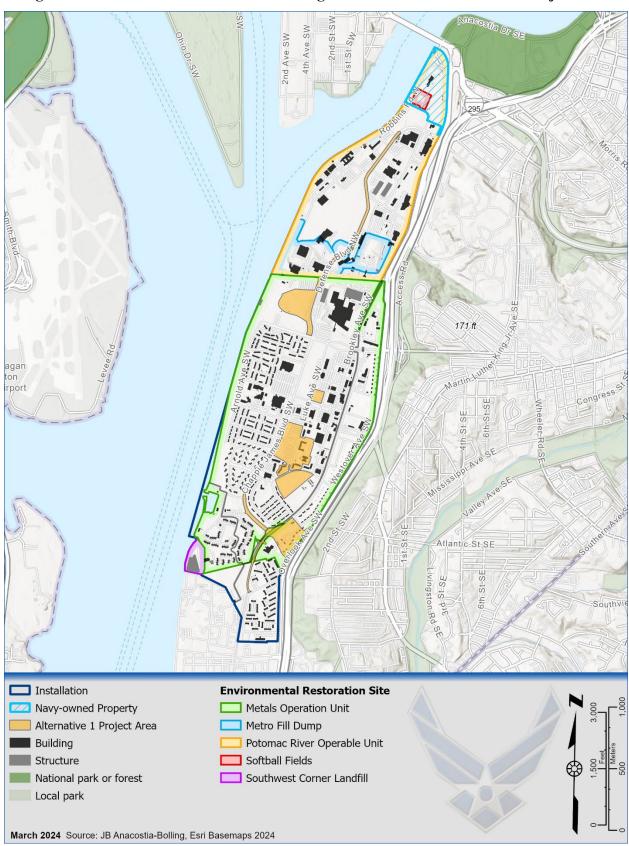


Figure 3-8: Environmental Restoration Program Sites Near Alternative 1 Project Sites

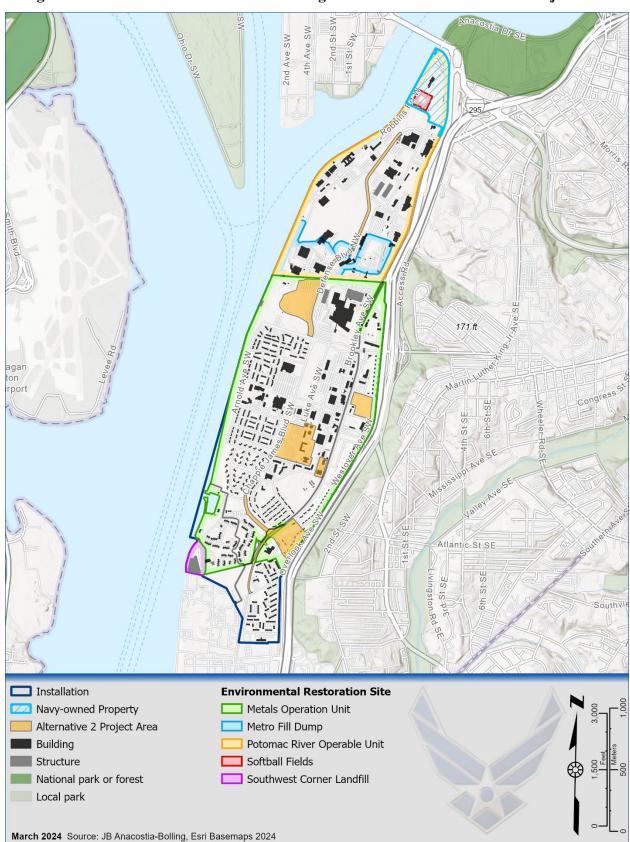


Figure 3-9: Environmental Restoration Program Sites Near Alternative 2 Project Sites

### 1 3.7.3 Environmental Consequences

#### 2 3.7.3.1 No Action Alternative

- 3 Under the No Action Alternative, the Proposed Action would not occur and there would be no change
- 4 associated with hazardous materials and waste. Therefore, no significant effects would occur under the
- 5 No Action Alternative.

### 6 3.7.3.2 Alternative 1: Implement IDP Five-Year Projects

- 7 Hazardous Materials, Petroleum Products, and Hazardous Waste. Construction contractors would
- 8 ensure the handling and storage of any hazardous materials and petroleum products are carried out in
- 9 compliance with applicable laws and regulations. Construction equipment would use small quantities of
- 10 hazardous materials and petroleum products (such as solvents, hydraulic fluid, oil, antifreeze, and other
- 11 hazardous materials) for minor equipment servicing and repair activities. Should any hazardous materials
- or petroleum products be released into the environment, applicable management plans such as the
- installation's Spill Prevention Response Plan would be adhered to. The severity of a potential impact
- from an accidental release would vary based on the extent of a release and the substance(s) involved. In
- 15 addition, implementation of BMPs and environmental protection measures would reduce the potential for
- 16 an accidental release of hazardous materials. BMPs include maintaining construction equipment
- according to the manufacturer's specifications and placing drip mats under parked equipment as needed.
- 18 The hazardous and petroleum waste generated would be handled and disposed of in accordance with
- 19 federal, state, and local regulations. Thus, construction and demolition activities would result in short-
- term, negligible to minor environmental effects from hazardous materials, petroleum products, and
- 21 hazardous waste.
- 22 Should unknown, potentially hazardous waste be discovered or unearthed during construction and
- demolition, construction contractors would immediately cease work, contact appropriate installation
- 24 personnel, and await sampling and analysis results before taking any further action. Unknown waste
- determined to be hazardous would be managed or disposed of in accordance with applicable laws and
- 26 regulations.
- Negligible amounts of hazardous materials such as paints, adhesives, solvents, and cleansers would be
- 28 used during operation and maintenance of the new infrastructure. Should any hazardous materials or
- 29 petroleum products be released into the environment during operation or maintenance of the new
- infrastructure, applicable management plans such as the installation's Spill Prevention Response Plan
- 31 would be adhered to. Operation and maintenance of the new infrastructure would result in long-term,
- 32 negligible environmental effects from hazardous materials and petroleum products.
- 33 Toxic Substances. Because of its age (first built in the 1970s), Blanchard Barracks, which is proposed for
- demolition under Project 1, is assumed to contain both ACM and LBP. Prior to demolition, surveys would
- 35 be completed, as necessary, by a certified contractor to ensure that appropriate measures are taken to
- 36 reduce the potential for exposure to, and release of, toxic substances. Contractors would wear appropriate
- 37 personal protective equipment and adhere to all federal, state, and local regulations as well as the
- 38 installation's management plans for toxic substances. Should any materials be confirmed as ACM or LBP
- during demolition activities, remediation would be required and those materials would be handled and
- 40 disposed of in accordance with applicable federal and District regulations. New construction is not likely
- 41 to include the use of toxic substances because federal policies and laws limit their use in building
- 42 construction applications. Thus, short-term, minor effects would result from the potential human exposure
- 43 to toxic substances.

- 1 Under Alternative 1, Project 5 would be constructed near the former parking lot fire training area
- 2 identified as a potential PFAS site. AFFF released within the fire training area prior to 2010 could have
- 3 been transported via surface water runoff onto adjacent, grass-covered areas or to stormwater inlets. The
- 4 groundwater flows west from the parking lot to where it discharges into the Anacostia River. Similarly,
- 5 the stormwater flow in the vicinity of the parking lot follows local topography west toward the Anacostia
- 6 River (NAVFAC Washington, 2022). Project 5 is situated southeast of the parking lot; therefore, it is not
- 7 likely that PFAS would have settled in the project site or that PFAS would be encountered during
- 8 construction; however, further site investigation is warranted. Should the site investigation reveal that
- 9 PFAS is present, construction would stop, and applicable environmental compliance regulations would be
- 10 followed.
- 11 Demolition of facilities containing toxic substances would result in long-term, negligible, beneficial
- 12 effects from the reduced potential for human exposure to and reduced amounts of ACM and LBP. PFAS
- discovery is unlikely; however, if encountered, it would be dealt with accordingly to applicable
- 14 environmental regulations. No short- or long-term environmental effects from toxic substances are
- 15 expected from operation and maintenance of the new infrastructure.
- 16 Environmental Restoration Program. Effects on or from ERP sites could result from construction and
- demolition activities. Before construction of a proposed project, JBAB would coordinate with DOEE, and
- activities would adhere to the guidelines established by the installation and DOEE. Should potentially
- hazardous waste be discovered or unearthed during demolition, the contractor would immediately cease
- work, contact appropriate installation personnel, and await sampling and analysis results before taking
- 21 further action. Waste determined to be hazardous would be managed or disposed of in accordance with
- 22 applicable laws and regulations. Monitoring wells in the surrounding area would be clearly marked and
- avoided to ensure no damage occurs during demolition activities.
- 24 Currently, the JBAB ERP office is investigating the presence of POL products (free product) in water that
- 25 has infiltrated the communications lines/vaults on the northern portion of the installation. This
- 26 investigation is being conducted as part of the investigations of Site 0015B (Site name: 00013, Potomac
- 27 River Operable Unit). Therefore, there is a potential for encountering the presence of petroleum in
- 28 groundwater at JBAB. However, as stated above, should potentially hazardous materials be discovered
- during demolition, the contractor would immediately cease work, contact appropriate installation
- personnel, and await sampling and analysis results before taking any further action.
- 31 The Project 5 site lies approximately 125 feet outside the firing fan used for prior Washington Navy Yard
- 32 testing across the Anacostia River. However, ordnance may be encountered within the dredge spoils of
- 33 the project site. The ERP office's discussions with USACE on this issue have resulted in a
- 34 recommendation that construction workers complete awareness training regarding Civil War artillery
- 35 munitions and that if encountered, work must stop until the munitions are addressed by the installation
- 36 Explosive Ordnance Disposal personnel.
- 37 The Project 5 site overlaps with two active ERP sites, Site 00002 (Site name: Metro Fill Dump) and Site
- 38 0015B. The other proposed projects overlap with another ERP site, Site 0014B (Site name: SS012, Base
- 39 Wide Metals Operable Unit. These sites remain active as the ERP continues to investigate groundwater
- 40 across the installation. For groundwater, short-term effects associated with generation of hazardous waste
- 41 is expected to occur as a result of construction activities. Stormwater BMPs would be in place, including
- 42 a DOEE-approved Sediment and Erosion Control Plan, and adherence to the Energy Independence and
- 43 Security Act (Section 438) and DOEE Stormwater Management Guidebook. Such BMPs would minimize
- and eliminate surficial migration of contaminated soil.
- The land-use restrictions on the active ERP sites are not constraining to future development, though
- 46 development of active sites would require close coordination with installation environmental personnel to

- 1 ensure that ongoing investigation and/or remediation would not be affected and that proper land use
- 2 controls are maintained (JBAB, 2022a). New infrastructure would be constructed and operated in
- 3 accordance with applicable federal, state, and local laws and regulations. Therefore, Alternative 1 would
- 4 result in short-term, minor, adverse effects from the removal of special hazards and construction within
- 5 active ERP sites, but long-term, negligible, beneficial effects from the reduced potential for future human
- 6 exposure to and reduced amounts of special hazards at JBAB.

# 7 Summary

- 8 Overall, Alternative 1 would result in short-term, minor adverse effects during demolition and
- 9 construction. Alternative 1 would result in long-term, negligible beneficial effects on hazardous materials
- and waste management from reduced amounts of ACM, LBP, and other special hazards. There would be
- 11 no significant environmental effects from hazardous materials or waste under Alternative 1.

# 12 3.7.3.3 Alternative 2: Alternative Siting for IDP Five-Year Projects

- 13 Under Alternative 2, environmental effects from hazardous materials and waste would be similar to those
- expected from Alternative 1. However, Alternative 2 would also involve the demolition of Building 1304.
- 15 ACM were identified within the building's floor tiles in 2017, which have since been abated (JBAB,
- 16 2022d). Therefore, Alternative 2 would result in no significant environmental effects from hazardous
- 17 materials or waste.

### 18 Summary

- 19 Overall, Alternative 2 would result in similar environmental effects from hazardous materials and waste
- as Alternative 1. No significant effects would occur.

# 21 3.8 Transportation

- A transportation system, which can be studied on a local or regional scale, can consist of the following:
- 23 roadways, bus routes, railways, subways, bikeways, trails, waterways, airports, and taxis. Potential
- 24 transportation-related effects associated with implementing the Proposed Action are examined in this EA
- 25 for the pedestrian network, the bicycle network, public transit, and traffic (vehicular).
- 26 Intersection performance is commonly measured with peak hour traffic volumes that are used to calculate
- delay per vehicle, queue lengths, and volume to capacity (v/c) ratios, although these measures are vehicle-
- 28 focused and do not account for the operational and safety needs of pedestrians and cyclists on roadways
- and at intersections, especially in an urban context. Delay is used to assign the intersection and its
- approach roads and individual movements with a corresponding level of service (LOS) and to determine
- 31 whether turn lane lengths and distances between adjacent signalized intersections are adequate. The LOS
- designation is a transportation industry standard often used to describe the perceived operating conditions
- of a roadway segment or intersection, based on delay per vehicle. LOS is defined on a scale of A to F to
- describe the range of operating conditions for vehicles on a particular type of roadway facility. In urban
- 35 settings, LOS A and LOS B indicate minimal delay and short queues, while LOS C indicates moderate
- delays and queuing. LOS D indicates more substantial delays and longer queues, and LOS E indicates the
- point at which the volume needing to pass through the intersection in one hour exceeds the ability of that
- 38 intersection to allow all of it to pass through in one hour. LOS F indicates long vehicle queues and high
- delays at intersections, where some vehicles must wait for more than one red-yellow-green signal cycle
- before proceeding through the intersection, and queues may exceed turn lane lengths or extend back into
- 41 adjacent intersections.
- 42 DDOT's Comprehensive Transportation Review (CTR) guidelines state that the threshold for acceptable
- intersection performance in Washington DC, may be LOS E or LOS F, determined on a case-by-case
- basis. DDOT's CTR also establishes thresholds for acceptable increases in queue lengths and v/c ratios.

- 1 Projects that result in these criteria being exceeded are considered to cause significant effects. In urban
- 2 settings, adding capacity to achieve acceptable LOS, queues, or v/c ratios is typically not feasible because
- 3 limited rights-of-way; nor is it desirable due to the number of additional travel lanes that may be required,
- 4 which would make the intersection less safe for pedestrians and cyclists. If significant effects cannot be
- 5 mitigated by implementing geometric changes (e.g., adding lanes) or by making traffic control
- 6 adjustments (e.g., converting stop sign control to a roundabout or a traffic signal, adding protected turn
- 7 phases to existing traffic signals, allocating more green signal time to movements experiencing high
- 8 delays and long queues), then Transportation Demand Management strategies should be considered.
- 9 Example Transportation Demand Management strategies include limiting the availability of free parking
- spaces (which encourages carpooling), providing transit fare subsidies, providing access to Bikeshare
- stations, or implementing telework policies, and more. After all reasonable mitigation options have been
- 12 considered, if the significant effects remain, then the developer may be given the option of contributing to
- the Transportation Mitigation Fund.

# 14 3.8.1 Regulatory Setting

- 15 Prior to initiating the transportation study for this EA, it was essential to determine what analysis tools,
- data parameters, and assumptions would provide the basis of the analysis. The DAF prepared the District
- 17 Department of Transportation (DDOT) Comprehensive Transportation Review (CTR) Scoping Form that
- 18 contained the assumptions for the transportation study covering all relevant travel modes. The DAF met
- with DDOT on May 22, 2024, to review the assumptions and begin the CTR process for both parties to
- 20 come to a final agreement.
- 21 DDOT, through the CTR Guidance (DDOT, 2022), provides the following requirements for the
- transportation study: a study area definition, analysis years, analysis methods, No Action Alternative
- assumptions (i.e., background growth, planned developments, and planning roadways), and Action
- 24 Alternative assumptions (i.e., trip generation, trip distribution, and modal split). The transportation study,
- 25 including the final DDOT CTR Scoping Form, developed for this Proposed Action is included as
- 26 Appendix F.

37

38 39

#### 27 3.8.2 Affected Environment

- 28 This section defines the transportation study area and summarizes existing conditions therein as of
- 29 December 2024. This discussion covers the following modes of transportation: pedestrian network,
- 30 bicycle network, public transit, and traffic (vehicular). Existing parking conditions are also discussed.

#### 31 3.8.2.1 Study Area Definition

- 32 The transportation study areas were delineated based on the DDOT CTR Guidance (DDOT, 2022) and
- focus on the Firth Sterling Avenue SE, South Capitol Street, Overlook Avenue SW, and Malcolm X
- Avenue SE corridors. A different study area is proposed for each transportation mode:
- The pedestrian network study area matches the traffic study area corridors directly adjacent to the gates.
  - The bicycle network study area consists of a 1-mile radius from each of JBAB's three gates to represent a typical distance that a visitor or employee might be willing to use a bicycle to reach the installation. DDOT CTR guidelines require at least a half-mile radius bicycle study area.
- The public transit study area consists of a 0.25-mile radius for Washington Metropolitan Area Transit Authority (WMATA) Metrorail stations and bus stops.

- The traffic (vehicular) study area includes 16 existing intersections to serve the installation, broken into three study areas surrounding the three gates and their respective corridors:
  - (1) Firth Sterling Gate (see Figure 3-12): the Firth Sterling Avenue SE corridor between South Capitol Street to the west and Howard Road SE to the east;
  - (2) Arnold Gate (see Figure 3-13): the Malcolm X Avenue SE corridor between the South Capitol SE and I-295 northbound ramps; and
  - (3) South Gate (see Figure 3-14): the Overlook Avenue SW corridor between Chappie James Boulevard SW to the north and Oberlin Avenue SW/I-295 northbound ramps to the south. These intersections represent locations where traffic volumes may change as a result of the Proposed Action.
- Figure 3-12, Figure 3-13, and Figure 3-14 below illustrate the traffic study areas for this analysis. Section
- 12 3.2 of the transportation study (Appendix F) describes the roadways in the traffic study area and includes
- 13 the DDOT roadway functional classification, the number of lanes in each direction, the most recent
- 14 (2022) annual average daily traffic volumes available from DDOT, and any noteworthy characteristics
- such as a roadway's role in the transportation network and the presence of bicycle lanes.

#### 3.8.2.2 Data Collection

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- 17 The vehicular traffic data for this study were originally collected to support the *Large Vehicle Inspection*
- 18 Station and Access Control Point EA and Transportation Study (DAF, 2024), and it is common
- professional practice to use available traffic data that has been collected within the past three years for a
- 20 current study. In this case, the traffic data were collected post-pandemic and after the new Frederick
- 21 Douglass Memorial Bridge project was substantially completed. Vehicular turning movement counts with
- pedestrian crossing volumes were collected on Wednesday, November 16, 2022, during weekday AM and
- PM peak hours (6:00 a.m. to 9:00 a.m. and 4:00 p.m. to 7:00 p.m., respectively), during a non-holiday
- 24 week in mid-November. These times were selected based on typical traffic data from Google Maps'
- 25 Traffic layer and institutional knowledge of traffic patterns in the study area. In addition, Congress was in
- session this week, which should present a conservative level of traffic.
- 27 In addition to the vehicular turning movements, the team placed automatic traffic recorders (ATRs) at
- 28 several key locations, including South Capitol Street north and south of Firth Sterling Avenue SE, Firth
- 29 Sterling Avenue SE between South Capitol Street and Suitland Parkway, and Overlook Drive SW north
- and south of Chappie James Boulevard (i.e., the JBAB South Gate). The ATRs captured volumes for two
- 31 consecutive days—Wednesday, November 16, through Thursday, November 17, 2022—recording the
- 32 volumes in 15-minute increments. ATR data provided a daily log of traffic, highlighting the multiple peak
- periods and changes in vehicle demand throughout a typical weekday. Appendix F, Section 3.2.1,
- 34 contains the traffic counts obtained for the study area intersections and more detail to explain the process
- 35 for developing the existing condition turning movement volumes. Appendix F, Section 3.2.2, summarizes
- 36 traffic observations made by the transportation team while driving through the traffic study area during
- 37 the turning movement and ATR counts data collection on Wednesday, November 16, 2022, and
- 38 Thursday, November 17, 2022.
- Recent crash data from Open Data DC were also obtained for a high-level safety analysis of the three
- 40 intersections located immediately adjacent to each JBAB gate (ESRI, 2024). The crash data cover six
- 41 complete years from 2018 through 2023 plus part of 2024. These data provide five full years of pre- and
- post-pandemic crash data plus data from the 2020 pandemic year for analysis.

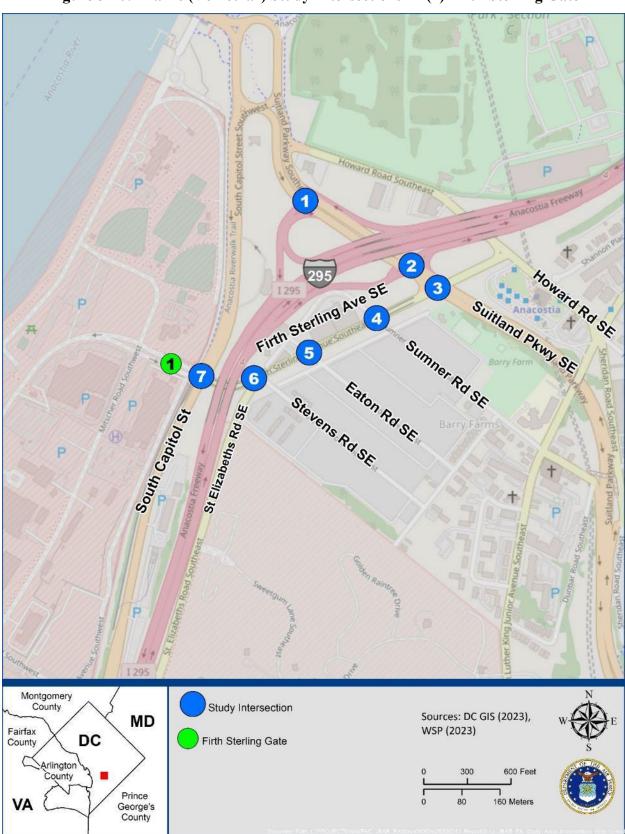


Figure 3-10: Traffic (Vehicular) Study Intersections — (1) Firth Sterling Gate

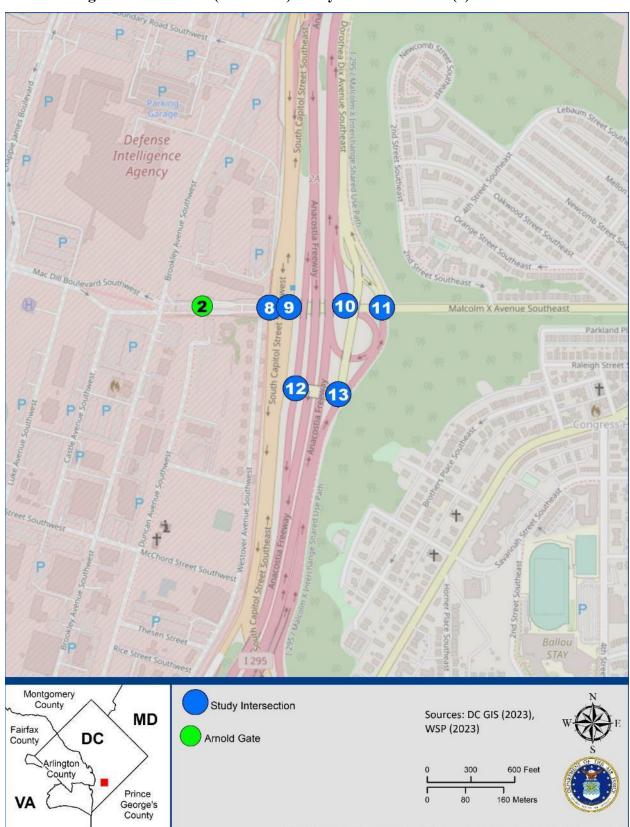


Figure 3-11: Traffic (Vehicular) Study Intersections — (2) Arnold Gate

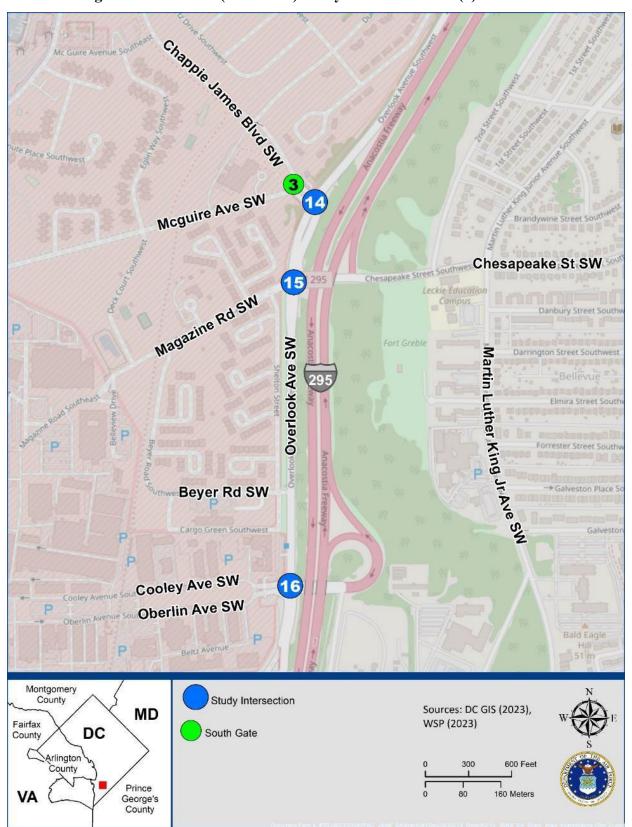


Figure 3-12: Traffic (Vehicular) Study Intersections — (3) South Gate

#### 3.8.2.3 Pedestrian Network

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- 2 The existing pedestrian network surrounding the installation was assessed for disruptions or obstacles in
- 3 the pedestrian environment. In particular, the assessment focused on (1) areas between the defined
- 4 pedestrian network study area and adjacent bus stops, (2) curb ramp compliance with the ADA, and (3)
- 5 sidewalk and crosswalk compliance with DDOT standards.
- 6 Sidewalks line both sides of most publicly accessible roads in the pedestrian network study area except
- 7 along on- or off-ramps to expressways or freeways, and recently completed shared-use paths are present
- 8 along Suitland Parkway and portions of Firth Sterling Avenue SE and South Capitol Street. Intersections
- 9 generally have reasonable accommodations for pedestrians, including traffic signals with pedestrian
- indications and crosswalks. In a few instances, however, pedestrian crossings are not accessible due to
- 11 ramps that are not compliant with ADA design requirements. The transportation team observed a general
- 12 lack of maintenance for some sidewalks and shared-use paths, with the presence of overgrown vegetation
- and miscellaneous debris or litter causing obstructions to pedestrian and bicycle movement.
- 14 Pedestrian trips near the three gates were predominately completed by commuters. As observed during
- site visits, South Capitol Street SE and the Department of Homeland Security (DHS) Access Road had the
- highest level of pedestrian activity. Firth Sterling Avenue SE also had a high level of pedestrian activity,
- 17 likely from the Anacostia Metro Station. However, moveDC's 2021 update indicates that the area around
- 18 the three traffic study areas, notably near the Anacostia Metro Station, has a low Pedestrian Friendliness
- 19 Index. The Pedestrian Friendliness Index is a metric that characterizes the walkability of an area based on
- sidewalk availability, building accessibility, and street network design (DDOT, 2021a). Detailed
- 21 information covering the pedestrian environment, including sidewalk widths and the extent of sidewalk
- 22 coverage in the pedestrian network study areas, as well as compliance with the ADA and DDOT
- requirements is provided in Appendix F, Section 3.3.

## 24 3.8.2.4 Bicycle Network

- 25 Existing bicycle facilities within a 1-mile radius from each of JBAB's three gates (referred to as the
- 26 "three bicycle network study areas" hereinafter) are described in this section. Bicycle and trail data were
- 27 collected from the DC Geographic Information System and local bicycle plans and were verified with
- aerial imagery and field visits as needed. Gaps or deficiencies in the bicycle network were also identified.
- 29 Appendix F, Section 3.4, contains a map showing the bicycle network.
- The three bicycle network study areas encompass a range of multiuse trails (also called shared-use paths).
- 31 The Anacostia Riverwalk Trail (ART), a multiuse trail that travels along both sides of the Anacostia River
- 32 in northeast and southeast Washington, DC, and along the Potomac Channel in southeast Washington,
- 33 DC, ends in front of Firth Sterling Gate. Additionally, 27 bicycle racks are located at various locations on
- 34 JBAB (Figure 3-15), and JBAB is coordinating with Capital Bikeshare to install several Bikeshare
- stations on JBAB with an anticipated completion date of spring 2025.
- 36 The Anacostia Waterfront Initiative, a collective of 19 regional and federal agency partners led by DDOT,
- 37 manages the ART. To date, the ART is approximately 20 miles long with additional planned segments to
- 38 ultimately achieve 28 miles. Planned segments aim to fill in connectivity and accessibility gaps. The
- 39 South Capitol Street Trail Project will extend the ART south along Overlook Avenue adjacent to JBAB,
- 40 which is an improvement that has already received funding (Anacostia Waterfront Initiative, 2022). Key
- 41 project elements of the ART include expanding shared-use paths and educational signage, enhancing trail
- viewsheds to bring trail users closer to the water's edge, and minimizing adverse effects on the natural
- 43 environmental from paving and other trail infrastructure (Anacostia Waterfront Initiative, 2024).



Figure 3-13: Existing Bicycle Rack Locations on JBAB

- 1 The Fredrick Douglass Memorial and 11th Street Bridges both have multiuse trails that cross the
- 2 Anacostia River and connect to the ART within the bicycle network study areas. Across all three study
- 3 areas, the JBAB Waterfront Trail runs along the waterfront of the Potomac River. The Suitland Parkway,
- 4 Oxon Run, and Dorothea Dix multiuse trails are also within the bicycle network study areas. In addition
- 5 to these multiuse trails, a limited number of bicycle lanes and signed bicycle routes connecting to various
- 6 points in Anacostia serve the bicycle network study areas and connect to some of the gates. Appendix F,
- 7 Section 3.4.1 contains maps that illustrate the bicycle facilities within each of the three bicycle study
- 8 areas, focused on a 1-mile radius from JBAB's three gates. Appendix F, Section 3.4.2, contains detailed
- 9 information regarding bicycle network gaps and barriers.
- 10 Capital Bikeshare is an automated bicycle-sharing system serving the DC metro area. As of December
- 11 2022, Capital Bikeshare was operating approximately 17 bikeshare stations within a 1-mile radius of the
- of the three gates (Capital Bikeshare, 2022). Appendix F, Section 3.4.3, contains detailed information
- 13 regarding Capital Bikeshare station locations and ridership.

#### 14 3.8.2.5 Public Transit

- Multiple modes of public transit are present in the public transit study area, including Metrorail lines,
- 16 local and commuter buses, and DoD-to-DoD shuttles. The transportation team assessed existing transit
- 17 conditions in May 2024, and this analysis reflects the data available at that time. Appendix F, Section 3.5,
- 18 contains maps showing the transit network within a 0.25-mile radius from JBAB's three gates.
- 19 The public transit study area is served by the WMATA Metrorail Green Line, which is located
- 20 approximately 0.5-miles east of the Firth Sterling Gate via the Anacostia Metro Station, with one entrance
- 21 at Howard Road SE south of Firth Sterling Avenue SE and one entrance at the Anacostia Metro Station
- parking garage. Based on information gathered from WMATA's Rail Ridership Data Viewer, the
- Anacostia Metro Station had an average of 4,370 weekday passenger boardings in 2023 (WMATA,
- 24 2023). Appendix F, Section 3.5.1, contains detailed information regarding WMATA Metrorail headways
- 25 (the time interval between trains) and hours of operation. No heavy commuter rail corridors pass through
- the transit study area, and no nearby transfer points exist for commuter rail to the study area.
- WMATA provides local bus service throughout Washington, DC, and neighboring jurisdictions,
- 28 including operating 15 WMATA bus lines within a quarter-mile radius of the study area. Most bus lines
- 29 operate with weekday AM peak period headways of between 10 and 20 minutes, although some bus lines
- 30 have headways as long as 30 minutes. Appendix F, Section 3.5.2.1, contains detailed information
- 31 regarding WMATA Metrobus headways and hours of operation, ridership, and a capacity assessment.
- 32 In Maryland, the Maryland Transit Administration (MTA) operates one commuter bus route (Route 630)
- 33 that stops in the public transit study area serving Washington, DC and stops in Prince George's and
- 34 Charles Counties in Maryland. This route serves Arnold Gate and South Gate with eight
- 35 northbound/inbound trips in the morning and six southbound/outbound trips in the evening on the regular
- 36 schedule. On special schedule days, only four northbound trips and four southbound trips are available.
- On inbound trips, the stops near Arnold and South Gates are drop-off only. On outbound trips, these stops
- 38 are pickup-only. The MTA operates eight additional commuter bus routes that use I-295 just south of
- 39 Firth Sterling Gate; however, no route has a bus stop near the gate. Appendix F, Sections 3.5.2.1 and
- 40 3.5.2.2, contain detailed information on the service areas, headways, and span of service for the DC
- 41 Circulator bus route and MTA commuter bus routes.
- 42 Several mission partner-operated shuttle bus routes serve JBAB. These shuttles connect JBAB with other
- DoD agency offices. According to DoD regulations, these shuttles are intended for official business travel
- only, and commuters are not allowed to use them. The DoD-to-DoD facility shuttle transports individuals

- 1 who need to travel between DoD facilities during the workday (DAF, 2021b). The JBAB to L'Enfant
- 2 Plaza Station shuttle and the JBAB internal shuttles are no longer in operation.

#### 3 3.8.2.6 Truck Access

- 4 DDOT has established truck routes and placed truck restrictions throughout the city to identify specific
- 5 routes for trucks to travel while inside Washington, DC. Within the study area, South Capitol Street SE
- 6 and I-295 have been established as primary truck routes. There are no truck restrictions on any of the
- 7 roads within the study area, although trucks are prohibited from using Suitland Parkway SE (under
- 8 National Park Service jurisdiction) east of Firth Sterling Avenue SE, which attracts some traffic into and
- 9 out of the study area. Appendix F, Section 3.6, provides more detail about truck access. This section also
- provides maps depicting truck access and loading facilities inside the installation.

#### 11 **3.8.2.7** Parking

- 12 On- and off-street parking, including metered and unmetered street parking, is sparse in the vicinity of the
- installation. Underground garages and outdoor surface lots are not present in the parking study area.
- 14 Information about on-street parking was gathered through site visits on November 15, 16, and 17, 2022
- 15 (WSP, 2022). Appendix F, Section 3.7, contains more details regarding the parking space inventory under
- 16 existing conditions.

#### 17 3.8.2.8 Traffic (Vehicular)

- 18 This section briefly describes the concepts and definitions for analyzing the traffic operations, the process
- used to analyze the traffic study area intersections, and the results. As previously discussed, the traffic
- 20 (vehicular) study area includes 16 existing intersections, broken into three study areas surrounding the
- 21 three JBAB gates and their respective corridors. The complete traffic analysis and results are presented in
- Appendix F, Section 3.8.

#### 23 Analysis Tools

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- 24 The 16 traffic study area intersections were analyzed using Synchro software version 11 (Build 2,
- 25 Revision 9). Synchro is sufficiently capable for analyzing traditional traffic control devices at
- 26 intersections such as traffic signals and stop signs. Intersection capacity analyses and intersection queuing
- 27 analyses were performed. The intersection capacity analyses used Synchro and various input values as
- described in the following section to determine LOS, which categorizes drivers' perception of an
- 29 intersection's operation based on the amount of delay they experience. The intersection queuing analyses
- 30 used Synchro to estimate the average and maximum distance (in feet) that a line of vehicles (i.e., the
- 31 queue) extends back from an intersection.

#### **Existing Conditions Intersection Operations Analysis**

- 33 Synchro was used to calculate the vehicle delay and LOS operation based on the Highway Capacity
- 34 Manual (HCM) method for all signalized intersections. Based on the Synchro analysis, most study
- intersections operate at LOS D or better during the morning and evening peak hours. However, the
- 36 following six signalized intersections in the study area currently operate at LOS E or LOS F using the
- 37 HCM method (i.e., average control delay exceeds 55 seconds per vehicle):
  - Suitland Parkway SE and I-295 Northbound (NB) Off-ramp/I-295 NB On-ramp (Intersection #2, see Figure 3-12) during the AM peak hour
- Suitland Parkway SE and Firth Sterling Avenue SE (Intersection #3, see Figure 3-12) during the
   AM peak hour

- Suitland Parkway SE and Firth Sterling Avenue SE (Intersection #3, see Figure 3-12) during the PM peak hour
   Overlook Avenue SW and Chappie James Boulevard (Intersection #14, see Figure 3-14) during the AM peak hour
   Overlook Avenue SW and Chappie James Boulevard (Intersection #14, see Figure 3-14) during the PM peak hour
   Overlook Avenue SW and Chesapeake Street SW (Intersection #15, see Figure 3-14) during the
  - PM peak hour
  - Based on the Synchro signalized intersection analysis results, seven signalized intersections have directional approaches that operate at LOS E or LOS F during one or more of the evaluated periods:
    - Suitland Parkway SE and I-295 Southbound (SB) Off-ramp (Intersection #1, see Figure 3-12)
      - Off-ramp from southbound I-295 to southeast-bound Suitland Parkway SE during the AM and PM peak hour (shown as the northbound approach in the summary tables)
    - Suitland Parkway SE and I-295 NB Off-ramp/I-295 NB On-ramp (Intersection #2, see Figure 3-12)
      - Northwest-bound Suitland Parkway SE during the AM peak hour
    - Suitland Parkway SE and Firth Sterling Avenue SE (Intersection #3, see Figure 3-12)
      - o Southbound Suitland Parkway SE during the PM peak hour
      - o Northbound Suitland Parkway SE during the AM peak hour
      - o Eastbound Firth Sterling Avenue SE during the AM and PM peak hours
      - Westbound Firth Sterling Avenue SE during the PM peak hour
- South Capitol Street and Firth Sterling Avenue SE/Defense Boulevard (Intersection #7, see Figure 3-12)
  - Westbound Firth Sterling Avenue SE during the PM peak hour
  - Overlook Avenue SW and Chappie James Boulevard (Intersection #14, see Figure 3-14)
    - o Northwest-bound Overlook Avenue SW during the AM peak hour
    - o Southeast-bound Chappie James Boulevard during the PM peak hour
    - o Southwest-bound Overlook Avenue SW during the PM peak hour
  - Overlook Avenue SW and Chesapeake Street SW (Intersection #15, see Figure 3-14)
    - o Northbound Overlook Avenue SW during the AM peak hour
    - o Southbound Overlook Avenue SW during the PM peak hour
  - Overlook Avenue SW and U.S. Naval Research Laboratory (NRL) Main Gate/Laboratory Road SW (Intersection #16, see Figure 3-14)
    - Westbound Laboratory Road SW during the AM peak hour
  - Appendix F, Section 3.8.3, contains the detailed results and tables related to the LOS capacity analysis and the intersection vehicle delay for existing conditions during the AM and PM peak hours, including the tables with the LOS for specific intersection approaches and movements. Table 3-25 below shows the results of the LOS capacity analysis and the intersection vehicle delay for the existing conditions during the AM and PM peak hour. Note that "Pass" is equal to LOS D or better. "Fail" is equal to LOS E or LOS F. Failing LOSs are highlighted in yellow in Table 3-25.

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Table 3-23: Existing Conditions during AM and PM Peak Hour Operations

No.	Intersection	2022 Existing Condition: AM Delay (seconds/ve hicle)	2022 Existing Condition: AM LOS	2022 Existing Condition: AM Check	2022 Existing Condition: PM Delay (seconds/ vehicle)	2022 Existing Condition: PM LOS	2022 Existing Condition: PM Check
1	I-295 SB Ramps & Suitland Pkwy SE	21.3	С	Pass	21.5	С	Pass
2	Suitland Pkwy SE & I-295 NB	69.7	Е	Fail	15.2	В	Pass
3	Firth Sterling Ave SE & Suitland Pkwy SE	68.8	Е	Fail	67.5	Е	Fail
4	Sumner Rd SE/Barry Rd SE & Firth Sterling Ave SE	2.2	A	Pass	1.1	A	Pass
5	Eaton Rd SE & Firth Sterling Ave SE	2.0	A	Pass	1.9	A	Pass
6	St. Elizabeth Rd SE & Stevens Rd SE & Firth Sterling Ave SE	14.1	В	Pass	11.6	В	Pass
7	South Capitol St & Defense Blvd/Firth Sterling Ave SE	25.1	С	Pass	28.3	С	Pass
8	S Capitol St SB Ramps & MacDill Blvd SW/Malcol m X Ave SE	11.3	В	Pass	27.9	С	Pass
9	S Capitol St NB Ramps & Malcolm X Ave SE	20.9	С	Pass	10.5	В	Pass

No.	Intersection	2022 Existing Condition: AM Delay (seconds/ve hicle)	2022 Existing Condition: AM LOS	2022 Existing Condition: AM Check	2022 Existing Condition: PM Delay (seconds/ vehicle)	2022 Existing Condition: PM LOS	2022 Existing Condition: PM Check
11	I-295 NB Ramp/ Dorothea Dix Ave SE & Malcolm X Ave SE	30.3	С	Pass	8.3	A	Pass
12	I-295 SB Ramps & Crossover	7.0	A	Pass	15.3	В	Pass
13	Dorothea Dix Ave SE & Crossover & I-295 NB Ramp	6.4	A	Pass	3.6	A	Pass
14	Overlook Ave SW & Chappie James Blvd	59.4	Е	Fail	149.7	F	Fail
15	Overlook Ave SW & Chesapeake St SW	43.4	D	Pass	61.3	Е	Fail
16	Overlook Ave SW & NRL Main Gate/Laborat ory Rd SW	51.5	D	Pass	38.9	D	Pass

- Key: LOS = Level of Service; Pass = LOS D or better; Fail = LOS E or LOS F
- 2 Notes: Synchro signalized intersection analysis; HCM criteria. Delay is measured in seconds per vehicle.
- 3 Intersection #10 is not included in this table because it is unsignalized.

### 4 Existing Conditions Intersection Queuing Analysis

- Based on the Synchro signalized intersection analysis results, seven signalized intersections experience 95th percentile queuing lengths that exceed the available storage capacity in at least one lane group. The remaining signalized intersections in the traffic study area provide enough storage for the anticipated demand, or the upstream traffic signals controlled the queue lengths. Details of queuing lengths by lane group for each intersection are provided in Appendix F, Section 3.8.5. The seven intersections that experience 95th percentile queuing lengths are:
- Suitland Parkway SE and I-295 SB Off-ramp (Intersection #1, see Figure 3-12)
- Suitland Parkway SE and I-295 NB Off-ramp/I-295 NB On-ramp (Intersection #2, see Figure 3-13)
  - Suitland Parkway SE and Firth Sterling Avenue SE (Intersection #3, see Figure 3-12)
- Malcolm X Avenue SE and S Capitol Street NB ramps (Intersection #9, see Figure 3-13)
  - Overlook Avenue SW and Chappie James Boulevard (Intersection #14, see Figure 3-14)

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- Overlook Avenue SW and Chesapeake Street SW (Intersection #15, see Figure 3-14)
  - Overlook Avenue SW and NRL Main Gate/Laboratory Road SW (Intersection #16, see Figure 3-14)

### Traffic Patterns Along South Capitol Street, Firth Sterling Avenue SE, and Overlook Avenue SW

- Appendix F, Section 3.8.8, describes how ATR data were used to analyze existing traffic patterns. The results of the data analysis include the following:
  - The dominant flow of traffic along Firth Sterling Avenue SE during the AM peak period is west, toward South Capitol Street and Firth Sterling Gate, away from Suitland Parkway SE (which provides access to and from I-295). The dominant PM traffic flow is east, away from South Capitol Street and JBAB, and toward Suitland Parkway SE.
  - The dominant flow of traffic along South Capitol Street during the AM peak period is north toward the Frederick Douglass Memorial Bridge (i.e., the Capitol Riverfront, Capitol Hill, and downtown neighborhoods of Washington, DC), while the dominant PM traffic flow is south, away from the bridge.
  - During the morning, Overlook Avenue SW has a northbound peak for traffic traveling toward South Gate.
  - During the evening, South Capitol Street and Overlook Avenue SW have a similar 3-hour peak between 3:00 p.m. and 6:00 p.m., consisting primarily of southbound traffic.
  - All three corridors have more vehicles heading in the outbound direction away from Washington, DC from 11:00 a.m. through the remainder of the day.

#### **Existing JBAB Transportation Management Program**

- 22 The JBAB Master Plan contains a Transportation Management Program that includes recommended goals
- 23 for promoting more efficient employee commuting patterns. These goals include enhancing mobility and
- 24 transportation options, mitigating future traffic adverse effects related to JBAB's growth and
- developments, and improving air quality by minimizing the effects of single-occupancy vehicles (DAF,
- 26 2022).

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- 27 An effective Transportation Management Program requires continual monitoring and evaluation to ensure
- 28 that the strategies that JBAB implements reduce single-occupancy vehicle use and reduce the number of
- 29 vehicles traveling through the installation area and along internal installation roadways. According to the
- 30 Transportation Management Program, the installation will strive to improve the existing transit and
- 31 bicycling infrastructure and communicate transportation options and benefits while pursuing new,
- 32 alternative modes of transportation. It will work toward reducing employee parking supply to achieve
- 33 compliance with NCPC parking ratios and coordinate with regional agencies, organizations, and the
- 34 Department of Homeland Security to improve transportation infrastructure in the area, especially in the
- 35 corridors that serve both JBAB and the Department of Homeland Security. Finally, the installation will
- 36 monitor progress toward targeted mode split metrics, support and incentivize sustainable transportation
- options, and improve transportation options to shorten commute times (DAF, 2022).

### **Existing Gate Operations**

- 39 A high-level method approved by the Military Surface Deployment and Distribution Command
- Transportation Engineering Agency, the military agency that specializes in gate operations, was used to
- provide a pass/no pass result for the gate queues affecting DDOT intersections. This analysis assumes a
- 42 nationwide average gate throughput of 375 vehicles per hour per lane for inspection lanes as stated in the

- 1 Military Surface Deployment and Distribution Command Transportation Engineering Agency Pamphlet
- 2 55-15, based on having one inspector per lane.
- Table 3-26 compares the existing volume of traffic entering JBAB via each of the three gates with the average throughput (or capacity) of each gate. This analysis indicates the following:
  - A greater number of vehicles enter JBAB during the AM peak hour than during the PM peak hour
  - Arnold Gate has the highest number of vehicles entering JBAB during both the AM and PM peak hours
  - Both Arnold Gate and South Gate currently operate at near-capacity conditions during the AM peak hour.
  - Firth Sterling Gate is the least used gate during both the AM and PM peak hours and, therefore, has the most surplus capacity for accommodating entering vehicles.

Table 3-24: Existing Inbound Vehicle Trips vs. Gate Capacity

Existing Inbound Vehicle Trips									
		Gates							
	South	Arnold	Firth Sterling	Total					
AM Peak Hour	710	1,112	250	2,072					
PM Peak Hour	148	243	55	446					
Existing Surplus Inbound Gate Capacity  Gates									
	South	Arnold	Firth Sterling	Total					
	2 Lanes	3 Lanes	2 Lanes						
Capacity (Total)—375 vphpl	750	1,125	750	2,625					
AM Peak Hour	40	13	500	553					
PM Peak Hour	602	882	695	2,179					

12 Key: vphpl = vehicles per hour per lane

#### 13 3.8.2.9 Safety

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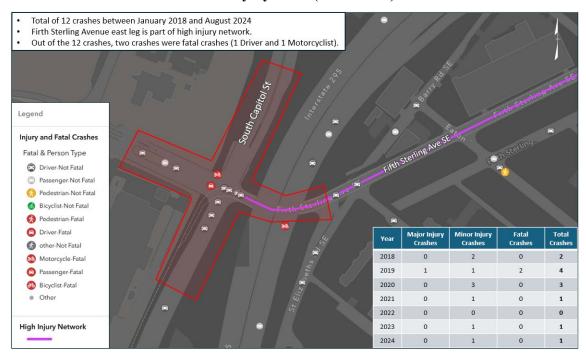
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- 14 Crash data from January 1, 2018, through August 29, 2024, was obtained and reviewed from Open Data
- DC and DC Vision Zero, focusing on the three intersections located immediately outside the three JBAB
- 16 gates. These intersections may experience some effects from increased vehicular trips generated by
- 17 proposed IDP projects. It is possible that the types of crashes occurring under existing conditions could
- 18 increase in frequency if traffic volumes at these intersections increase in the future.
- 19 According to the available crash data, the following trends were identified at each intersection:

#### 20 South Capitol Street at Firth Sterling Avenue SE and Defense Boulevard (Firth Sterling Gate)

- 21 The South Capitol Street at Firth Sterling Avenue and Defense Boulevard intersection had a combined
- 22 total of 12 injury or fatal crashes within the crash data analysis period as shown in Figure 3-16. The
- 23 highest number of crashes per year was four crashes in 2019. In addition, of the 12 crashes, 2 crashes in
- 24 2019 were fatal.

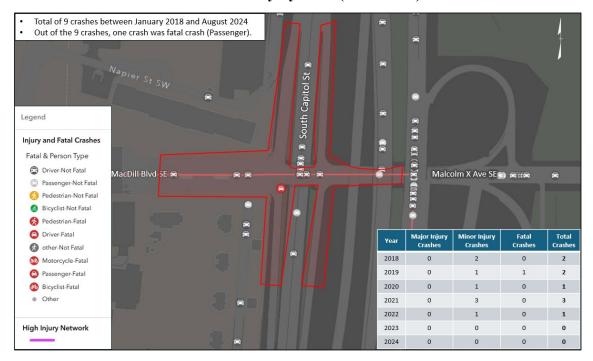
Figure 3-14: South Capitol Street and Firth Sterling Avenue/Defense Boulevard Crash Severity by Year (2018–2024)



### South Capitol Street Exit Ramps at Malcolm X Avenue SE and MacDill Boulevard (Arnold Gate)

The South Capitol Street Exit Ramps at Malcolm X Avenue SE and MacDill Boulevard had a combined total of nine injury and fatal crashes within the analysis period as shown in Figure 3-17. One of the nine crashes was fatal; this crash occurred in 2019.

Figure 3-15: South Capitol Street Exit Ramps and Malcolm X Avenue/MacDill Boulevard Crash Severity by Year (2018–2024)



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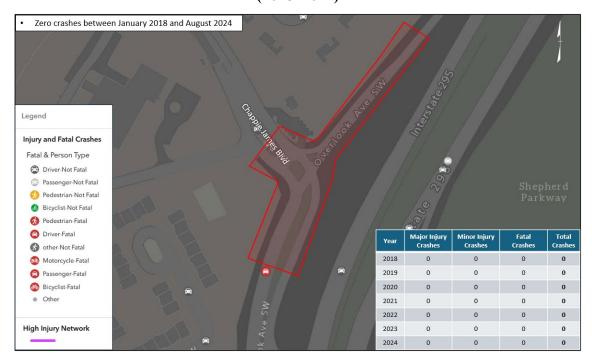
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#### 1 Overlook Avenue SW at Chappie James Boulevard (South Gate)

- 2 Overlook Avenue SW at Chappie James Boulevard had no injury and fatal crashes within the crash
- 3 analysis period as shown in Figure 3-18. However, one fatal crash occurred in 2020 on southbound
- 4 Overlook Avenue SW approaching the adjacent Chesapeake Street SW intersection (i.e., departing
- 5 JBAB), which technically is grouped with that intersection. One injury crash occurred in 2024 along
- 6 Chappie James Boulevard on the installation side of the gate, which is technically not part of this
- 7 intersection.

Figure 3-16: Overlook Avenue SW and Chappie James Boulevard Crash Severity by Year (2018–2024)



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- Based on the trends described above, each of the three signalized intersections adjacent to the JBAB gates has had at least one fatal crash occur at or near the intersection. With the exception of these fatalities, the frequency of crashes resulting in injuries is relatively low. None of the crashes involved pedestrians or
- 12 bicyclists.
- Additionally, DC's Vision Zero program identifies High Injury Network intersections and corridors
- 14 throughout the city. Under this approach to Vision Zero, DDOT prioritizes proactive safety interventions
- on the roadways with the most deaths and injuries. To identify those roadways, DDOT conducted an
- 16 analysis of all corridors in the District based on reported injury and fatality crash data from June 2016
- through July 2021. Tier 1 street segments and corridors represent the highest priority segments citywide.
- 18 There was only one Tier 1 segment and corridor located within the JBAB IDP study area: Firth Sterling
- Avenue SE between Suitland Parkway and South Capitol Street. No Tier 2 segments or corridors are
- within the study area.
- 21 DDOT implemented recent safety interventions at locations within the study area that included adding
- 22 leading pedestrian intervals at the signalized intersections of South Capitol Street Exit Ramps and
- 23 Malcolm X Avenue SE and at Overlook Avenue SW and Chesapeake Street SW.
- 24 Potential safety deficiencies at each of the three signalized intersections adjacent to the JBAB gates were
- 25 identified as part of this existing conditions assessment. These issues would be present regardless of any

- 1 traffic volume increases attributable to the IDP development; therefore, DDOT is responsible for
- 2 implementing any potential corrective actions recommended by this study. The following potential safety
- 3 deficiencies were identified:

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- Overlook Avenue SW near Chappie James Boulevard
  - Existing guardrail along the street in both directions is not justified, creating an unnecessary fixed object hazard for drivers.
  - Existing permitted right turn on red for both lanes of vehicles exiting JBAB may cause conflicts with vehicles approaching at high speeds from the left along Overlook Avenue SW, which is also an off-ramp from southbound I-295.
  - Proximity of Chesapeake Avenue SW intersection requires some traffic exiting JBAB to weave across lanes on Overlook Avenue SW, a movement that is exacerbated by the dual lane permitted right turn on red described above.
- South Capitol Street Ramps at Malcolm X Avenue
  - This intersection and the adjacent intersections to the east were modified after the last reported injury and fatal crashes occurred in 2022. No current potential safety deficiencies were identified.
- South Capitol Street at Firth Sterling Avenue
  - This intersection was modified after the last fatal crash occurred in 2019. No current potential safety deficiencies were identified.

#### 20 **Environmental Consequences**

- 21 Effects on ground traffic and transportation are analyzed by considering the possible changes to existing
- 22 traffic conditions and the capacity of area roadways from proposed changes in commuter and construction
- 23 traffic.
- 24 Under DDOT's "Significant Impact Policy", an effect is considered significant, and mitigation is
- 25 required, if a project results in substantial changes to the vehicle delays, queuing, or v/c ratios of an
- 26 intersection compared to the No Action Alternative. In terms of vehicle delays, if an alternative causes an
- 27 unfailing intersection approach to fail (LOS E or F), or the alternative causes a 5 percent or more increase
- 28 to an intersection approach that is failing under the No Action Alternative, then mitigation is required.

#### 29 3.8.3.1 **No Action Alternative**

- 30 This section lists the planned development and roadway changes and evaluates the pedestrian network,
- 31 transit, parking, and traffic under the No Action Alternative.
- 32 Based on the transportation scoping agreement between DDOT and the study team that details the
- 33 assumptions used in the Transportation Study (see Appendix F), the No Action Alternative includes five
- 34 planned developments external to JBAB that are likely to be completed by 2030. One change on the
- 35 installation is included in the No Action Alternative: the reconfiguration of Firth Sterling Gate, where a
- 36 new LVIS and Access Control Point will be constructed. The new gate will add more entry lanes for
- 37 privately owned vehicles and trucks. The new gate will also lengthen the storage to the checkpoint from
- 38 the Firth Sterling Avenue SE at South Capitol Street intersection. The five external planned developments
- 39 that are included are all multiple-phased mixed-use projects, located east of Firth Sterling Gate, south of
- 40 the Anacostia River, and east of South Capitol Street. The Douglass and the Frederick are located west of
- 41 I-295, whereas the Ana Townhomes, the Asberry and the Edmonson, and Martin's View are all east of I-
- 42 295. The Transportation Study (Appendix F, Section 4.1.1.1) contains a comprehensive list and
- description of these planned developments. 43

- 1 Under the No Action Alternative, no planned roadway improvements were identified that would be
- 2 constructed by 2030 (the anticipated Proposed Action completion year). However, several recently
- 3 completed roadway improvements are included, which are described in Section 4.1.1.2 of the
- 4 Transportation Study (Appendix F).

### 5 Pedestrian Network

- 6 Under the No Action Alternative, the five external planned development projects may include replacing
- 7 existing sidewalks damaged during construction or improving sidewalks to adhere to ADA requirements
- 8 or DDOT streetscape guidelines. A funded trail improvement starting at Firth Sterling Gate and running
- 9 south along South Capitol Street to Overlook Avenue SW will connect pedestrians to all three gates. A
- 10 future planned trail will improve the section of Firth Sterling Avenue SE between the Anacostia Metro
- 11 Station and Firth Sterling Gate. Additionally, DDOT plans to build a bridge that carries a shared-use path
- 12 across Suitland Parkway to connect Barry Farm to the Anacostia Metro Station.
- 13 Under the No Action Alternative, pedestrian improvements adjacent to South Gate are expected based on
- 14 the mitigation described in the Final Transportation Study For Real Estate Outgrant for a Charter School
- 15 at Joint Base Anacostia-Bolling, Washington, D.C., including narrowing the apron of the I-295 on-ramp
- on Chesapeake Street, upgrading the sidewalk on Overlook Avenue SW from Chesapeake Street to South
- Gate, and implementing modern ADA-compliant ramps and high-visibility crosswalks on the western leg
- 18 of the intersection of Chesapeake Street and Overlook Avenue SW. These improvements are due to be
- 19 completed with the permanent school facility prior to 2030.
- 20 Under the No Action Alternative, these planned developments and other area pedestrian growth through
- 21 2030 are expected to change the volume of pedestrian activity and existing pedestrian infrastructure near
- the gates.

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#### Bicycle Network

- 24 Under the No Action Alternative, DDOT plans to construct several new bicycle facilities throughout the
- city, including new bicycle lanes and multiuse trails. According to moveDC, the mode share of bicycle
- commutes increased from 2.2 percent in 2010 to 4.5 percent in 2018, and DDOT is actively seeking to
- 27 increase this number in the coming years. Planned improvements are underway to accommodate this
- 28 increase in bicycle mode share (DDOT, 2021a). Appendix F, Section 4.1.3, contains the planned bicycle
- 29 facilities included in the District's Bicycle Priority Network within a 1-mile radius of the three gates as
- presented in the moveDC 2021 update.
- 31 In addition to bicycle facilities within a 1-mile radius of the project area, the 2015 DC Capital Bikeshare
- 32 Development Plan recommends reviving commercial corridors in Anacostia despite access restrictions
- 33 that limit Capital Bikeshare's ability to serve major employment sites like JBAB (DDOT, 2015). The
- 34 2020 Update to the Capital Bikeshare Development Plan highlights Anacostia and Congress Heights as
- 35 areas with a high "public needs propensity" for bikeshare based on established District and Capital
- 36 Bikeshare goals, making them key areas for bikeshare station growth within the study area (DDOT,
- 37 2020).
- 38 The No Action Alternative includes development within the bicycle study area; therefore, an increase in
- 39 bicycles is anticipated. With the increase of Capital Bikeshare station docks and stations in the bicycle
- study area and the possibility for additional bicycle infrastructure improvements as planned by DDOT,
- 41 the bicycle network in the bicycle study area under the No Action Alternative is expected to improve.
- 42 Annual background growth in bicyclists through 2030 is expected, especially with the introduction of
- 43 Capital Bikeshare stations throughout Congress Heights and Bellevue.

#### 1 Public Transit

- 2 WMATA initiatives, including the Metrobus Priority Corridor Network Service Evaluation studies and
- 3 the Momentum plan for the Metro system 2013–2025, are expected to result in ongoing changes to local
- 4 bus operations. Additionally, the Momentum plan recommends offering more eight-car trains during peak
- 5 periods, which would increase the system's ability to move more passengers. These types of changes
- 6 would directly affect Metrobus and Metrorail routes that currently serve the transit study area (WMATA,
- 7 2013). Another initiative, the Bus Priority Program was established to improve bus speeds and reliability
- 8 (DDOT, 2021b). In 2022, WMATA launched the Better Bus Network Redesign project, the first
- 9 comprehensive redesign of Metrobus service in its 50-year history. Through two years of research,
- planning, and outreach, WMATA developed the 2025 Better Bus Network. Metro will begin
- implementing the network in summer 2025 (WMATA, 2024). The new bus route that will serve JBAB in
- 12 2025 is the C21 route. This new route is called the Alabama Avenue—Benning Road route; however, its
- western terminus will be the Anacostia Metro Station. Near JBAB, this route will travel along South
- 14 Capitol Street and Firth Sterling Avenue between Malcolm X Avenue and the Metro station.
- 15 Under the No Action Alternative, the five external planned developments and annual background growth
- are expected to moderately increase transit trips from the study area. For Metrorail service, the Green
- 17 Line operates between 5:00 a.m. and midnight on weekdays. Green Line train headways are 8 minutes
- across all service times (WMATA, 2023). Mixed-use developments will increase Metrorail ridership to
- and from the Anacostia Metro Station during morning peak periods, with the reverse effect during
- afternoon peak periods.
- 21 The five external planned developments and annual background growth, coupled with bus route
- 22 improvements, are expected to increase Metrobus ridership by 2030. The proposed Metrobus and
- 23 Metrorail improvements and recommendations are anticipated to have a moderate benefit on ridership by
- providing enhanced service to disperse the increased demand.
- 25 Additionally, no changes to regional commuter bus service or DoD-operated bus shuttles are anticipated
- beyond routine route and schedule adjustments under the No Action Alternative.

### 27 Truck Access

- With five external developments proposed near the locations of the two action alternatives, construction-
- 29 related truck trips and regularly scheduled deliveries could increase truck traffic in the short and long
- term. The relocation of the installation's LVIS from South Gate to Firth Sterling Gate will also be
- 31 implemented under the No Action Alternative. Minimal effects on truck access in the study area are
- 32 expected. No other changes to truck circulation or loading are expected.

# 33 Parking

- 34 Under the No Action Alternative, the planned external developments will provide new parking spaces to
- 35 serve their residential units and commercial spaces.

#### 36 Traffic (Vehicular)

- 37 The No Action Alternative includes trips generated by approved planned developments (including the
- 38 five developments external to the JBAB installation), growth in vehicle trips generated from outside the
- study area, and planned roadway developments (described in Appendix F, Section 4.1.1). Traffic volumes
- were used as an input, along with delay, signal timing, and geometrics to evaluate traffic operations and
- 41 queuing at signalized and unsignalized intersections to determine the effects of traffic growth.

#### 42 No Action Alternative Intersection Operations Analysis

- 43 Based on the Synchro signalized intersection analysis results, several signalized intersections and
- intersection approaches in the traffic study area would operate at satisfactory conditions (LOS D or better

is considered a satisfactory operating level) under the No Action Alternative during the AM and PM peak hour periods. However, based on Synchro analysis results, the following signalized intersections or intersection approaches in the study area would operate under unsatisfactory conditions (LOS E or worse) during peak hours under the No Action Alternative: Suitland Parkway SE and I-295 SB Off-ramp (Intersection #1) o Off-ramp from southbound I-295 to southeast-bound Suitland Parkway SE during the AM and PM peak hour (shown as the NB approach in the summary tables) Suitland Parkway SE and I-295 NB Off-ramp/I-295 NB On-ramp (Intersection #2) Off-ramp from northbound I-295 to Suitland Parkway SE during the AM peak hour (shown as Eastbound (EB) approach in the summary tables) Northwest-bound Suitland Parkway SE during the AM and PM peak hour Suitland Parkway SE and Firth Sterling Avenue SE (Intersection #3) o Northbound Suitland Parkway SE during the AM and PM peak hour Southbound Suitland Parkway SE during the AM and PM peak Eastbound Firth Sterling Avenue SE during the AM and PM peak hour Westbound Firth Sterling Avenue SE during the AM peak hour I-295 NB On-ramps/Dorothea Dix Avenue SE and Malcolm X Avenue SE (Intersection #11) Northbound I-295 NB Off-ramp during the AM peak hour Overlook Avenue SW and Chappie James Boulevard SW (Intersection #14) Southeast-bound Chappie James during the PM peak hour Southwest-bound Overlook Avenue SW during the PM peak hour 22 Overlook Avenue SW and Chesapeake Street SW (Intersection #15) Northbound Overlook Avenue SW during the AM peak hour Southbound Overlook Avenue SW during the PM peak hour Overlook Avenue SW and NRL Main Gate/Laboratory Road SW (Intersection #16) Westbound Laboratory Road SW during the AM peak hour Southbound Overlook Avenue SW during the AM peak hour 28 Table 3-27 contains the overall intersection LOS grades for the AM and PM peak hours under the No Action Alternative with failing LOSs highlighted in yellow. The overall intersection LOS grades are depicted in Figure 3-19, Figure 3-20, and Figure 3-21 for the AM and PM peak hours under the No Action Alternative. Appendix F, Section 4.3.1, contains the detailed results and tables of the LOS 32 capacity analysis and the intersection vehicle delay for the No Action Alternative during the AM and PM 33 peak hours. **No Action Alternative Intersection Queuing Analysis** Appendix F, Section 4.3.2.2 contains the detailed results and tables of the intersection queuing analysis, comparing the No Action Alternative with the two action alternatives during AM and PM peak hours. A discussion of the intersection queue analysis comparison between the No Action Alternative and the two action alternatives is provided in Section 3.2.3.2 and Section 3.2.3.3, below.

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Table 3-25: 2030 No Action Alternative Conditions during AM and PM Peak Hour Operations

No.	Intersection	2030 No Action Alternative Condition: AM Delay (seconds/ vehicle)	2030 No Action Alternative Condition: AM LOS	2030 No Action Alternative Condition: AM Check	2030 No Action Alternative Condition: PM Delay (seconds/ vehicle)	2030 No Action Alternative Condition: PM LOS	2030 No Action Alternative Condition: PM Check
1	I-295 SB Ramps & Suitland Pkwy SE	18.7	В	Pass	20.6	С	Pass
2	Suitland Pkwy SE & I-295 NB Off-Ramp/ I-295 NB On-Ramp	153.7	F	Fail	68.0	E	Fail
3	Firth Sterling Ave SE & Suitland Pkwy SE	131.2	F	Fail	223.1	F	Fail
4	Sumner Rd SE/Barry Rd SE & Firth Sterling Ave SE	10.9	В	Pass	7.8	A	Pass
5	Eaton Rd SE & Firth Sterling Ave SE	7.1	A	Pass	4.6	A	Pass
6	St. Elizabeth Rd SE & Stevens Rd SE & Firth Sterling Ave SE	17.1	В	Pass	19.5	В	Pass
7	South Capitol St & Defense Blvd/Firth Sterling Ave SE	32.9	С	Pass	30.2	С	Pass
8	S Capitol St SB Ramps MacDill Blvd SW/ Malcolm X Ave	16.8	В	Pass	29.0	С	Pass
9	S Capitol St NB Ramps & Malcolm X Ave SE	21.3	С	Pass	11.1	В	Pass

No.	Intersection	2030 No Action Alternative Condition: AM Delay (seconds/ vehicle)	2030 No Action Alternative Condition: AM LOS	2030 No Action Alternative Condition: AM Check	2030 No Action Alternative Condition: PM Delay (seconds/ vehicle)	2030 No Action Alternative Condition: PM LOS	2030 No Action Alternative Condition: PM Check
11	I-295 NB Ramp/ Dorothea Dix Ave SE & Malcolm X Ave SE	34.4	С	Pass	12.9	В	Pass
12	I-295 SB Ramps & Crossover	8.2	A	Pass	13.2	В	Pass
13	Dorothea Dix Ave SE & Crossover & I-295 NB Ramp	7.7	A	Pass	4.5	A	Pass
14	Overlook Ave SW & Chappie James Blvd	39.3	D	Pass	287.5	F	Fail
15	Overlook Ave SW & Chesapeake St SW	50.8	D	Pass	73.7	Е	Fail
16	Overlook Ave SW & NRL Main Gate/ Laboratory Rd SW	193.7	F	Fail	26.4	С	Pass

- Key: LOS = Level of Service; Pass = LOS D or better; Fail = LOS E or LOS F
- 2 Notes: Synchro signalized intersection analysis; HCM criteria. Delay is measured in seconds per vehicle.
- 3 Intersection #10 is not included in this table because it is unsignalized.

# 4 No Action Alternative Summary

- 5 Under the No Action Alternative, the Proposed Action would not be built, and changes to transportation
- 6 would result from other factors. Effects on the pedestrian network would be long term and beneficial from
- 7 the five external planned developments and DDOT pedestrian improvement projects, although short-term,
- 8 adverse effects may occur during pedestrian facility construction. Effects on the bicycle network would
- 9 also be long term and beneficial from planned facilities, such as the DDOT plans to construct new bicycle
- 10 facilities throughout the city. There may be short-term, adverse effects during bicycle facility
- 11 construction. Under the No Action Alternative, the planned external developments will provide new
- 12 parking spaces to serve their residential units and commercial spaces.

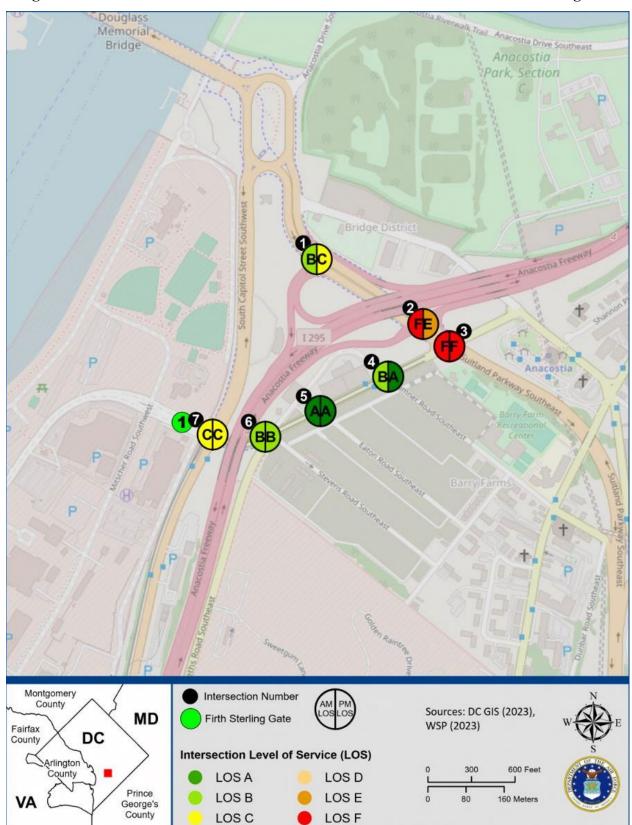


Figure 3-17: No Action Alternative—AM and PM Peak Hour LOS—Firth Sterling Gate

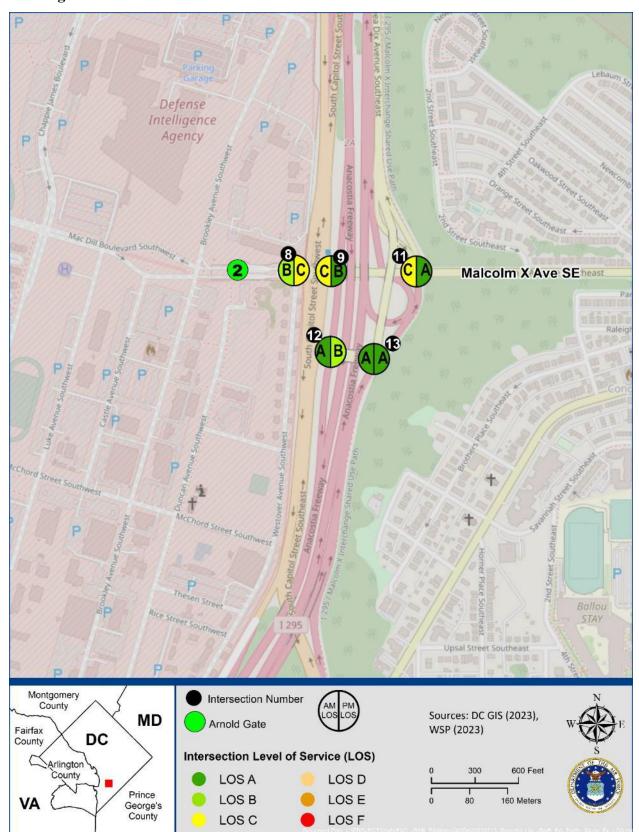


Figure 3-18: No Action Alternative—AM and PM Peak Hour LOS—Arnold Gate

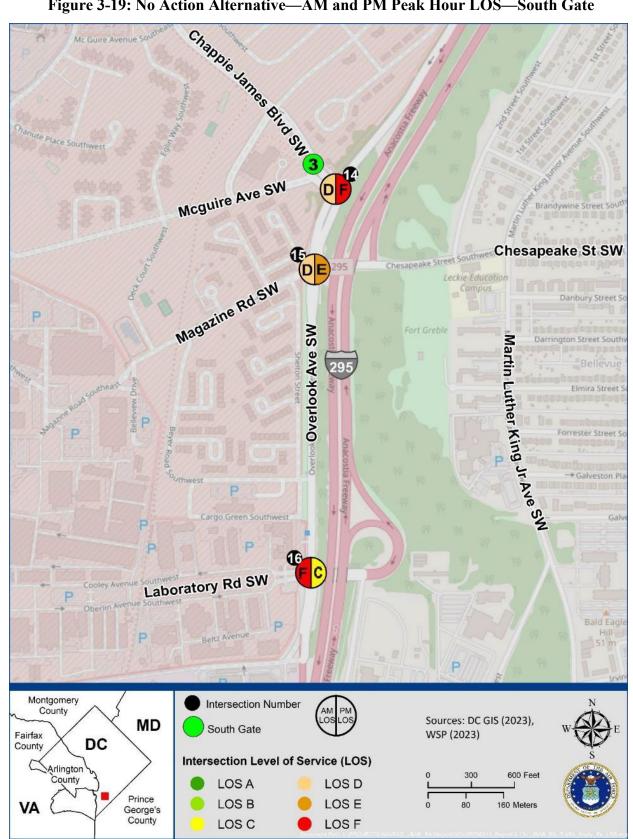


Figure 3-19: No Action Alternative—AM and PM Peak Hour LOS—South Gate

- 1 The five external developments and annual background growth are expected to moderately increase
- 2 transit trips from the study area. Proposed Metrobus and Metrorail improvements and
- 3 recommendations—such as the Momentum plan, Bus Priority Program, and 2025 Better Bus Network—
- 4 are anticipated to have a moderate benefit on ridership by providing enhanced service to disperse the
- 5 increased demand. The relocation of the installation's LVIS from South Gate to Firth Sterling Gate will
- 6 also be implemented under the No Action Alternative, although minimal effects on truck access in the
- 7 study area are expected. For traffic, effects would be long term and adverse from the forecasted,
- 8 substantial increase in vehicle volume generated from the five planned developments external to the
- 9 JBAB installation and the regional growth of trips. Reconstruction of Firth Sterling Gate will add entry
- lanes that could reduce queuing-related traffic effects by reducing the likelihood of queues spilling back
- 11 through adjacent intersections compared to existing conditions.

# 12 3.8.3.2 Alternative 1: Implement IDP Five-Year Projects

- 13 This section evaluates the pedestrian network, bicycle network, transit, parking, and traffic under
- 14 Alternative 1, which implements the 10 projects of the Proposed Action.

#### 15 Pedestrian Network

- 16 Under Alternative 1, beyond providing connections to the future multiuse trail that would serve all three
- 17 gates and the trail completed as part of the new Frederick Douglass Memorial Bridge project, pedestrian
- improvements are not proposed.

#### 19 Bicycle Network

- 20 Under Alternative 1, beyond providing connections to the planned multiuse trail south of Firth Sterling
- Gate and the trail completed as part of the new Frederick Douglass Memorial Bridge project, no bicycles
- 22 lanes or paths are proposed.

#### 23 Public Transit

- 24 Under Alternative 1, transit ridership is not expected to increase significantly; however, bus routes,
- scheduling, and stop locations are expected to be updated as conditions require (e.g., WMATA's Better
- Bus Program), and as operators periodically adjust bus routes.

#### 27 Truck Access

- 28 Under Alternative 1, truck traffic would increase slightly from the regularly scheduled deliveries to the
- 29 installation. Minimal effects on truck access in the study area are expected. During construction, there
- 30 would be a short-term increase in the number of trucks traveling on South Capitol Street and Defense
- 31 Boulevard SW to deliver construction equipment, materials, and refuse to and from construction sites
- 32 located on the installation. Recommendations for minimizing the short-term effects of increased truck
- traffic during construction are presented in Appendix F, Section 8.

## 34 Parking

- No changes to publicly available parking are expected in the study area under Alternative 1, and there
- would be no measurable, long-term effects on parking in the study area. Alternative 1 would require
- 37 temporary parking areas on the installation for construction workers and trucks. To minimize short-term
- 38 effects, the installation would limit parking for construction workers to within the construction sites and
- 39 laydown areas. Laydown areas would be located near or at construction sites. These areas may be
- 40 temporary or may be used during the entire duration of construction, depending on construction needs.
- 41 None of these temporary parking areas would be located off the installation. Recommendations for
- 42 minimizing the short-term effects on parking during construction are presented in Appendix F, Section 8.

## 1 Traffic (Vehicular)

- 2 Short-term, adverse effects on traffic may occur from an increase in truck traffic on South Capitol Street
- 3 and Defense Boulevard SW to and from construction sites located on the installation. Contractors are
- 4 expected to follow a construction management plan to reduce effects from trucking activity on the
- 5 roadway network during peak hours. Recommendations for minimizing the short-term effects on traffic
- 6 during construction are presented in Appendix F, Section 8.
- 7 The vehicle trip generation and distribution assumptions described in Section 4.2.2 of the Transportation
- 8 Study (Appendix F) are the foundation for determining the effects of Alternative 1. Appendix F, Section
- 9 4.3.2 analyzes intersection operations and queuing results under Alternative 1 and compares them to the
- 10 No Action Alternative.

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### 11 Alternative 1 Intersection Operations Analysis

- 12 Based on the Synchro signalized intersection analysis results, several signalized intersections and
- intersection approaches in the traffic study area would operate at satisfactory conditions (LOS D or better
- 14 is considered a satisfactory operating level) under Alternative 1 during the AM and PM peak hour
- periods. However, based on Synchro analysis results, the following signalized intersections and
- intersection approaches in the study area would operate under unsatisfactory conditions (LOS E or worse)
- during peak hours under Alternative 1:
  - Suitland Parkway SE and I-295 SB Off-ramp (Intersection #1)
    - Off-ramp from southbound I-295 to southeast-bound Suitland Parkway SE during the AM and PM peak hour (shown as the NB approach in the summary tables)
  - Suitland Parkway SE and I-295 NB Off-ramp/I-295 NB On-ramp (Intersection #2)
    - Off-ramp from northbound I-295 to Suitland Parkway SE during the AM peak hour (shown as EB approach in the summary tables)
    - o Northwest-bound Suitland Parkway SE during the AM and PM peak hour
  - Suitland Parkway SE and Firth Sterling Avenue SE (Intersection #3)
    - o Northbound Suitland Parkway SE during the AM and PM peak hour
    - o Southbound Suitland Parkway SE during the AM and PM peak hour
    - o Eastbound Firth Sterling Avenue SE during the AM and PM peak hour
    - Westbound Firth Sterling Avenue SE during the AM peak hour
  - I-295 NB On-ramp/Dorothea Dix Avenue SE and Malcolm X Avenue SE (Intersection #11)
    - o Northbound I-295 NB Off-ramp during the AM peak hour
  - Overlook Avenue SW and NRL Main Gate/Laboratory Road SW (Intersection #16)
    - o Southbound Overlook Avenue SW during the AM peak hour
- Table 3-28 and Table 3-29 contain the overall intersection LOS grades for the AM and PM peak hours
- 35 under Alternative 1, compared to the No Action Alternative. The tables show the study intersections that
- 36 are unsatisfactory under the No Action Alternative (LOS E or F, highlighted in yellow) would experience
- no change in LOS under Alternative 1.
- 38 The overall intersection LOS grades are depicted in Figure 3-22, Figure 3-23, and Figure 3-24 for the AM
- and PM peak hours under Alternative 1. Appendix F, Section 4.3.2.1, contains the detailed results of the
- 40 LOS capacity analysis and the intersection vehicle delay comparing the No Action Alternative with
- 41 Alternative 1 during the AM and PM peak hours.

**Table 3-26: Alternative 1 Intersection Operations (AM Peak Hour)** 

No.	Intersection	2030 No Action Alternative Condition: AM Delay (seconds/vehicle)	2030 No Action Alternative Condition: AM LOS	2030 No Action Alternative Condition: AM Check	2030 Alternative 1 Condition: AM Delay (seconds/vehicle)	2030 Alternative 1 Condition: AM LOS	2030 Alternative 1 Condition: AM Check	Net Difference of Average Delay (seconds/vehicle)	Net Change in LOS
1	I-295 SB Ramps & Suitland Pkwy SE	18.7	В	Pass	19.9	В	Pass	+1.2	No Change
2	Suitland Pkwy SE & I-295 NB Off- Ramp/I-29 5 NB On- Ramp	153.7	F	Fail	152.9	F	Fail	-0.8	No Change
3	Firth Sterling Ave SE & Suitland Pkwy SE	131.2	F	Fail	130.7	F	Fail	-0.5	No Change
4	Sumner Rd SE/Barry Rd SE & Firth Sterling Ave SE	10.9	В	Pass	10.5	В	Pass	-0.4	No Change
5	Eaton Rd SE & Firth Sterling Ave SE	7.1	A	Pass	6.8	A	Pass	-0.3	No Change
6	St. Elizabeth Rd SE & Stevens Rd SE & Firth Sterling Ave SE	17.1	В	Pass	16.0	В	Pass	-1.1	No Change
7	South Capitol St & Defense Blvd/Firth Sterling Ave SE	32.9	C	Pass	37.3	D	Pass	+4.4	Worse LOS

No.	Intersection	2030 No Action Alternative Condition: AM Delay (seconds/vehicle)	2030 No Action Alternative Condition: AM LOS	2030 No Action Alternative Condition: AM Check	2030 Alternative 1 Condition: AM Delay (seconds/vehicle)	2030 Alternative 1 Condition: AM LOS	2030 Alternative 1 Condition: AM Check	Net Difference of Average Delay (seconds/vehicle)	Net Change in LOS
8	S Capitol St SB Ramps & MacDill Blvd SW/ Malcolm X Ave	16.8	В	Pass	29.7	С	Pass	+12.9	Worse LOS
9	S Capitol St NB Ramps & Malcolm X Ave SE	21.3	С	Pass	27.7	С	Pass	+6.4	No Change
11	I-295 NB Ramp/ Dorothea Dix Ave SE & Malcolm X Ave SE	34.4	С	Pass	122.6	F	Fail	+88.2	Worse LOS
12	I-295 SB Ramps & Crossover	8.2	A	Pass	8.2	A	Pass	No Change	No Change
13	Dorothea Dix Ave SE & Crossover & I-295 NB Ramp	7.7	A	Pass	8.2	A	Pass	+0.5	No Change
14	Overlook Ave SW & Chappie James Blvd	39.3	D	Pass	11.4	В	Pass	-27.9	Better LOS
15	Overlook Ave SW & Chesapeake St SW	50.8	D	Pass	19.1	В	Pass	-31.7	Better LOS
16	Overlook Ave SW & NRL Main Gate/ Laboratory Rd SW	193.7	F	Fail	63.5	E	Fail	-130.2	Better LOS

Key: LOS = Level of Service; Pass = LOS D or better; Fail = LOS E or LOS F

<sup>1</sup> 2 3 Notes: Synchro signalized intersection analysis; HCM criteria. Delay is measured in seconds per vehicle.

Intersection #10 is not included in this table because it is unsignalized.

**Table 3-27: Alternative 1 Intersection Operations (PM Peak Hour)** 

No.	Intersection	2030 No Action Alternative Condition: PM Delay (seconds/vehicle)	2030 No Action Alternative Condition: PM LOS	2030 No Action Alternative Condition: PM Check	2030 Alternative 1 Condition: PM Delay (seconds/ vehicle)	2030 Alternative 1 Condition: PM LOS	2030 Alternative 1 Condition: PM Check	Net Difference of Average Delay (seconds/vehicle)	Net Change in LOS
1	I-295 SB Ramps & Suitland Pkwy SE	20.6	С	Pass	20.7	С	Pass	+0.1	No Change
2	Suitland Pkwy SE & I-295 NB Off- Ramp/I-29 5 NB On- Ramp	68.0	E	Fail	71.8	E	Fail	+3.8	No Change
3	Firth Sterling Ave SE & Suitland Pkwy SE	223.1	F	Fail	238.1	F	Fail	+15.0	No Change
4	Sumner Rd SE/Barry Rd SE & Firth Sterling Ave SE	7.8	A	Pass	7.3	A	Pass	-0.5	No Change
5	Eaton Rd SE & Firth Sterling Ave SE	4.6	A	Pass	4.3	A	Pass	-0.3	No Change
6	St. Elizabeth Rd SE & Stevens Rd SE & Firth Sterling Ave SE	19.5	В	Pass	17.9	В	Pass	-1.6	No Change
7	South Capitol St & Defense Blvd/ Firth Sterling Ave SE	30.2	С	Pass	35.4	D	Pass	+5.2	Worse LOS

No.	Intersection	2030 No Action Alternative Condition: PM Delay (seconds/vehicle)	2030 No Action Alternative Condition: PM LOS	2030 No Action Alternative Condition: PM Check	2030 Alternative 1 Condition: PM Delay (seconds/ vehicle)	2030 Alternative 1 Condition: PM LOS	2030 Alternative 1 Condition: PM Check	Net Difference of Average Delay (seconds/vehicle)	Net Change in LOS
8	S Capitol St SB Ramps & MacDill Blvd SW/ Malcolm X Ave	29.2	С	Pass	75.2	Е	Fail	+46.0	Worse LOS
9	S Capitol St NB Ramps & Malcolm X Ave SE	11.1	В	Pass	9.6	A	Pass	-1.5	No Change
11	I-295 NB Ramp/ Dorothea Dix Ave SE & Malcolm X Ave SE	12.9	В	Pass	11.5	В	Pass	-1.4	No Change
12	I-295 SB Ramps & Crossover	13.2	В	Pass	13.2	В	Pass	No Change	No Change
13	Dorothea Dix Ave SE & Crossover & I-295 NB Ramp	4.5	A	Pass	4.5	A	Pass	No Change	No Change
14	Overlook Ave SW & Chappie James Blvd	287.5	F	Fail	13.7	В	Pass	-273.8	Better LOS
15	Overlook Ave SW & Chesapeake St SW	73.7	Е	Fail	17.4	В	Pass	-56.3	Better LOS
16	Overlook Ave SW & NRL Main Gate/ Laboratory Rd SW	26.4	С	Pass	22.3	С	Pass	-4.1	No Change

Key: LOS = Level of Service; Pass = LOS D or better; Fail = LOS E or LOS F

Notes: Synchro signalized intersection analysis; HCM criteria. Delay is measured in seconds per vehicle. Intersection #10 is not included in this table because it is unsignalized.

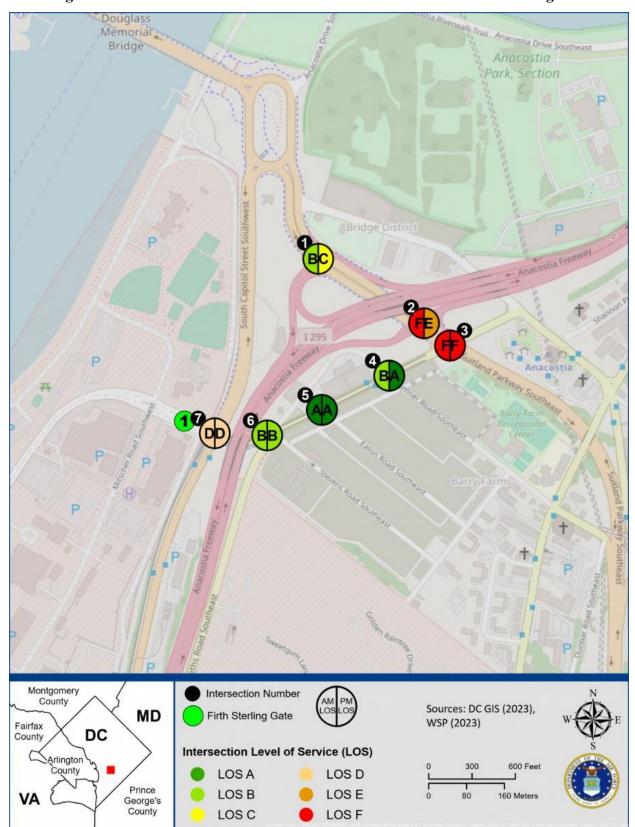


Figure 3-20: Alternative 1—AM and PM Peak Hour LOS—Firth Sterling Gate

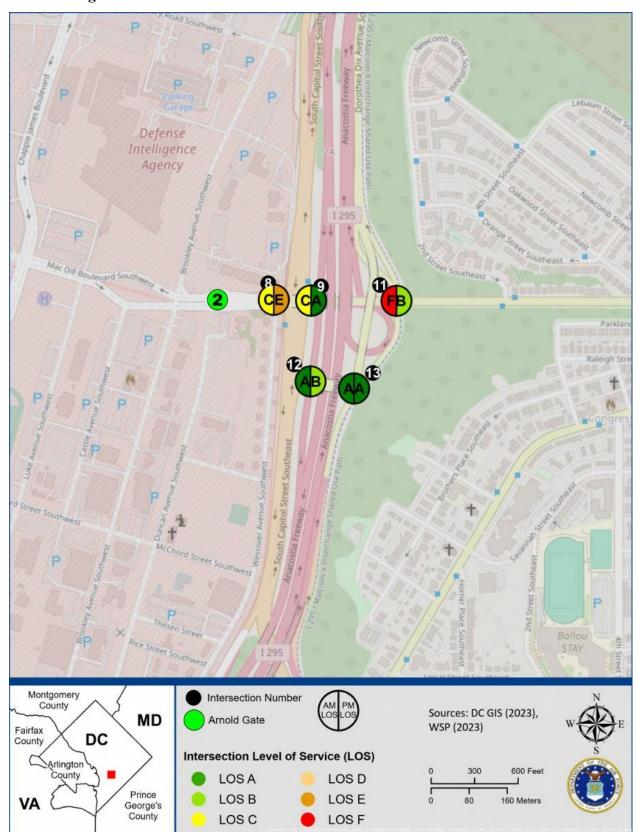


Figure 3-21: Alternative 1—AM and PM Peak Hour LOS—Arnold Gate

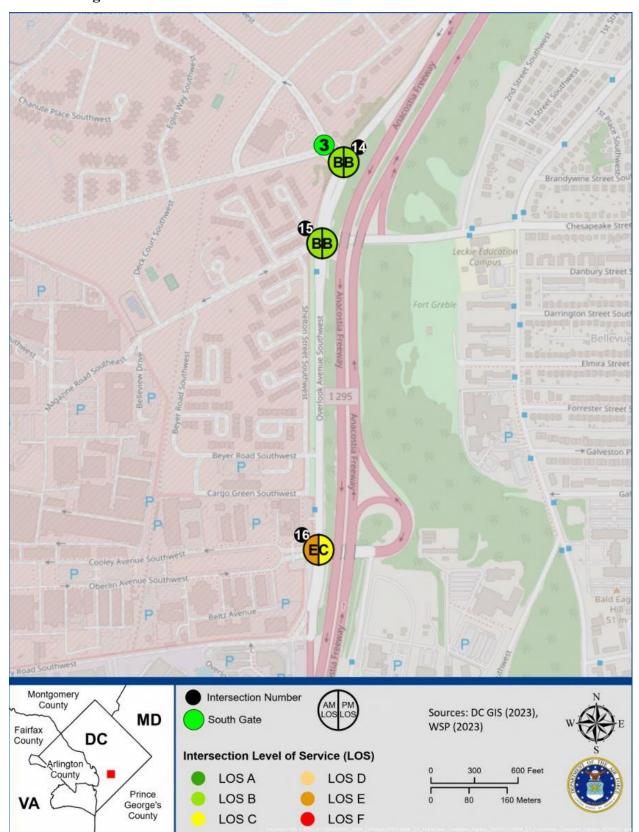


Figure 3-22: Alternative 1—AM and PM Peak Hour LOS—South Gate

- 1 The net difference in average vehicle delay for most of these unsatisfactory intersections is minimal, with
- 2 delay times either minimally changing or improving. However, the average vehicle delay of Suitland
- 3 Parkway SE and Firth Sterling Avenue SE (Intersection #3), which operates at LOS F under the No
- 4 Action Alternative during the PM peak hour, would increase by 15 seconds during the PM peak hour
- 5 under Alternative 1. For I-295 NB On-ramps/Dorothea Dix Avenue SE and Malcolm X Avenue SE
- 6 (Intersection #11), the overall intersection LOS would degrade from LOS C under the No Action
- 7 Alternative to LOS F under Alternative 1 during the AM peak hour. For S Capitol Street SB Ramps and
- 8 MacDill Boulevard/Malcolm X Avenue SE (Intersection #8), the overall intersection LOS would degrade
- 9 from LOS C under the No Action Alternative to LOS E under Alternative 1 during the PM peak hour.

## 10 Alternative 1 Intersection Queuing Analysis

- 11 Based on the Synchro queue results of all study intersections, six signalized intersections have lane
- 12 groups that would experience queuing lengths exceeding the available storage capacity. The following
- lane groups, with a comparison to the queues for the No Action Alternative, would exceed the available storage under Alternative 1:
  - Suitland Parkway SE and I-295 NB Off-ramp/I-295 NB On-ramp (Intersection #2)
    - o Southeast-bound Suitland Parkway SE during the PM peak hour
    - Northwest-bound Suitland Parkway SE (through and right turn movement) during the AM and PM peak hour
  - Suitland Parkway SE and Firth Sterling Avenue SE (Intersection #3)
    - o Southbound Suitland Parkway SE during the AM and PM peak hour
    - o Northbound Suitland Parkway SE (through movement) during the AM peak hour
    - o Eastbound Fifth Sterling Avenue SE during the AM and PM peak hour
    - Westbound Fifth Sterling Avenue SE to Suitland Parkway during the AM and PM peak hour
  - S Capitol Street SB Ramps and MacDill Boulevard (Intersection #8)
    - o Eastbound MacDill Boulevard (right turn movement) during the PM peak hour
    - Southbound S Capitol Street during the AM peak hour
  - Malcolm X Avenue SE and S Capitol Street NB ramps (Intersection #9)
    - Northbound S Capitol Street (left turn movement) during the AM peak hour
  - Overlook Avenue SW and Chesapeake Street SW (Intersection #15)
    - o Southbound Overlook Avenue SW (through movement) during the PM peak hour
- All other intersection lane groups would experience queues that are adequately stored. Queuing results comparing Alternative 1 to the No Action Alternative are depicted in Appendix F, Section 4.3.3.2.
- Based on the number of inspection lanes at each of the three JBAB gates, the projected highest hourly
- 35 volume entering each gate, and the average inspection time per vehicle (measured at the existing gates),
- the queues entering each gate are not expected to spill back into the adjacent signalized intersection at any
- 37 time.

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#### **Alternative 1 Summary**

- 39 Under Alternative 1, effects on the pedestrian network, bicycle network, and transit would be minimal
- and long term. Short-term, adverse effects to truck access and traffic may occur during construction
- 41 activity within the installation from a temporary increase in truck trips moving on and off the construction
- 42 sites. Traffic would experience long-term, adverse effects under Alternative 1. Based on the Synchro
- 43 analysis performed for this study, the additional volume of vehicles would cause overall intersection

- delays at Suitland Parkway SE and Firth Sterling Avenue SE (Intersection #3) to increase by more than 5
- 2 percent during the PM peak hour, whereas the overall intersection LOS at S Capitol Street Southbound
- 3 Ramps and MacDill Boulevard (Intersection #8) would degrade from LOS C to LOS E during the PM
- 4 peak hour, and intersection LOS at I-295 Northbound On-ramps/Dorothea Dix Avenue SE and Malcolm
- 5 X Avenue SE (Intersection #11) would degrade from LOS C to LOS F during the AM peak hour. Under
- 6 Alternative 1, several queues would increase slightly, while others would decrease slightly, but the overall
- 7 effect would be comparable to the No Action Alternative.
- 8 Therefore, based on DDOT's "Significant Impact Policy" in the DDOT CTR guidelines, the following
- 9 intersections would require mitigation under Alternative 1:
  - Suitland Parkway SE and Firth Sterling Avenue SE (Intersection #3) during the PM peak hour because the overall intersection delay would increase by more than 5 percent from the No Action Alternative in the PM peak hour
  - S Capitol Street SB Ramps and MacDill Boulevard/Malcolm X Avenue SE (Intersection #8) during the PM peak hour because the overall intersection would worsen from LOS C under the No Action Alternative to LOS E under Alternative 1 during the PM peak hour
  - I-295 NB On-ramps/Dorothea Dix Avenue SE and Malcolm X Avenue SE (Intersection #11) during the AM peak hour because the overall intersection would worsen from LOS C under the No Action Alternative to LOS F under Alternative 1 during the AM peak hour
- 19 Required measures to improve Alternative 1 relative to the No Action Alternative were developed for
- 20 each intersection that would require mitigation; these measures are elaborated in Appendix F, Section
- 21 4.3.4. The proposed mitigation option implemented to improve traffic options at the aforementioned
- 22 intersections would involve optimizing the signal timing splits. However, for Intersection #8 during the
- 23 PM peak hour, the mitigation would involve adjusting the signal timing from 100 seconds to 110 seconds
- 24 and optimizing the signal timing splits. Although the signalized intersections along Malcolm X Avenue
- 25 SE near MacDill Gate are pretimed, these signals are coordinated and require the signals on Malcolm X
- Avenue SE at S Capitol Street NB ramps and at I-295 NB On-ramps/Dorothea Dix Avenue SE to increase
- 27 their timings from 100 seconds to 110 seconds. Appendix F, Section 4.3.4, presents detailed results of the
- 28 intersection operations analysis that demonstrate the effectiveness of the mitigation to minimize the long-
- term, adverse effects on traffic.
- Therefore, if Alternative 1 were selected, mitigation would be required to offset anticipated traffic effects.

#### 31 3.8.3.3 Alternative 2: Alternative Siting for IDP Five-Year Projects

- 32 This section evaluates the pedestrian network, bicycle network, transit, parking, and traffic under
- 33 Alternative 2, which explores alternative siting for the 10 projects of the Proposed Action.

#### 34 Pedestrian Network

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- 35 Under Alternative 2, beyond providing connections to the future multiuse trail that would serve all three
- 36 gates and the trail completed as part of the new Frederick Douglass Memorial Bridge project, pedestrian
- 37 improvements are not proposed. Short-term, adverse effects may occur along the sidewalks on Overlook
- 38 Avenue SW south of Chappie James Boulevard associated with traffic effect mitigation measures at that
- 39 location. Recommendations for minimizing the short-term effects on sidewalks during construction are
- 40 presented in Appendix F, Section 8.

#### 1 Bicycle Network

- 2 Under Alternative 2, beyond providing connections to the planned multiuse trail south of Firth Sterling
- 3 Gate and the trail completed as part of the new Frederick Douglass Memorial Bridge project, bicycle
- 4 lanes or paths are not proposed.

#### 5 Public Transit

- 6 Under Alternative 2, transit ridership is not expected to increase significantly; however, bus routes,
- 7 scheduling, and stop locations are expected to be updated as conditions require (e.g., WMATA's Better
- 8 Bus Program), and as operators periodically adjust bus routes.

#### 9 Truck Access

- 10 Under Alternative 2, truck traffic would increase slightly from the regularly scheduled deliveries to the
- 11 installation. Minimal effects on truck access in the study area are expected. During construction, there
- would be a short-term increase in the number of trucks traveling on South Capitol Street and Defense
- 13 Boulevard SW to deliver construction equipment, materials, and refuse to and from construction sites
- 14 located on the installation. Recommendations for minimizing the short-term effects of increased truck
- traffic during construction are presented in Appendix F, Section 8.

# 16 Parking

- 17 No changes to publicly available parking are expected in the study area under Alternative 2, and there
- would be no measurable, long-term effects on parking in the study area. Alternative 2 would require
- 19 temporary parking areas on the installation for construction workers and trucks. To minimize short-term
- 20 effects, the installation would limit parking for construction workers to within the construction sites and
- 21 laydown areas. Laydown areas would be located near or at the construction sites. These areas may be
- 22 temporary or may be used during the entire construction duration, depending on construction needs. None
- of these temporary parking areas would be located off the installation. Recommendations for minimizing
- 24 the short-term effects on parking during construction are presented in Appendix F, Section 8.

## 25 Traffic (Vehicular)

- 26 Short-term, adverse effects on traffic may occur from increased truck traffic on South Capitol Street and
- 27 Defense Boulevard SW to and from construction sites located on the installation. Contractors are
- 28 expected to follow a construction management plan to reduce effects from trucking activity on the
- 29 roadway network during peak hours. Recommendations for minimizing the short-term effects on traffic
- during construction are presented in Appendix F, Section 8.
- 31 The vehicle trip generation and distribution assumptions described in Section 4.2.2 of the Transportation
- 32 Study (Appendix F) are the foundation for determining the effects of Alternative 2. Section 4.3.3 of
- 33 Appendix F analyzes intersection operations and queuing results under Alternative 2 and compares them
- 34 to the No Action Alternative.

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#### 35 Alternative 2 Intersection Operations Analysis

- 36 Based on the Synchro signalized intersection analysis results, several signalized intersections and
- 37 intersection approaches in the traffic study area would operate at satisfactory conditions under
- 38 Alternative 2 during the AM and PM peak hour periods. However, based on Synchro analysis results, the
- following signalized intersections and intersection approaches in the study area would operate under
- 40 unsatisfactory conditions (LOS E or worse) during peak hours under Alternative 2:
  - Suitland Parkway SE and I-295 SB Off-ramp (Intersection #1)
    - Off-ramp from southbound I-295 to southeast-bound Suitland Parkway SE during the AM and PM peak hour (shown as the NB approach in the summary tables)

1 Suitland Parkway SE and I-295 NB Off-ramp/I-295 NB On-ramp (Intersection #2) 2 Off-ramp from northbound I-295 to Suitland Parkway SE during the AM peak hour 3 (shown as EB approach in the summary tables) 4 o Northwest-bound Suitland Parkway SE during the AM and PM peak hour 5 Suitland Parkway SE and Firth Sterling Avenue SE (Intersection #3) 6 Northbound Suitland Parkway SE during the AM and PM peak hour 7 Southbound Suitland Parkway SE during the AM and PM peak hour 8 Eastbound Firth Sterling Avenue SE during the AM and PM peak hour 9 Westbound Firth Sterling Avenue SE during the AM peak hour 10 I-295 NB On-ramp/Dorothea Dix Avenue SE and Malcolm X Avenue SE (Intersection #11) Northbound I-295 NB Off-ramp during the AM peak hour 11 12 Overlook Avenue SW and Chappie James Boulevard SW (Intersection #14) 13 Southeast-bound Chappie James Boulevard SW during the PM peak hour 14 Overlook Avenue SW and Chesapeake Street SW (Intersection #15) 15 Northbound Overlook Avenue SW during the AM peak hour 16 Southbound Overlook Avenue SW during the PM peak hour 17 Overlook Avenue SW and NRL Main Gate/Laboratory Road SW (Intersection #16) 18 Southbound Overlook Avenue SW during the AM and PM peak hour 19 Table 3-30 and Table 3-31 contain the overall intersection LOS grades for the AM and PM peak hours 20 under Alternative 2 compared to the No Action Alternative. The tables show that the study intersections 21 that are unsatisfactory under the No Action Alternative (LOS E or F, highlighted in yellow) would 22 experience no change in LOS under Alternative 2. The net difference in average vehicle delay for most of 23 these unsatisfactory intersections would be minimal, with delay times either minimally changing or 24 improving. For I-295 NB On-ramp/Dorothea Dix Avenue SE and Malcolm X Avenue SE (Intersection 25 #11), the overall intersection would degrade from LOS C under the No Action Alternative to LOS F 26 under Alternative 2 during the AM peak hour. For Overlook Avenue SW and Chesapeake Street SW 27 (Intersection #15), the overall intersection would degrade from LOS D under the No Action Alternative to 28 LOS F under Alternative 2 during the AM peak hour. During the PM peak hour, Overlook Avenue SW 29 and Chesapeake Street SW (Intersection #15) would degrade from LOS E under the No Action 30 Alternative to LOS F under Alternative 2; and Overlook Avenue SW and NRL Main Gate/Laboratory 31 Road SW (Intersection #16) would degrade from LOS C under the No Action Alternative to LOS F under 32 Alternative 2.

Alternative 2 during the AM and PM peak hours.

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35 36 The overall intersection LOS grades are depicted in Figure 3-25, Figure 3-26, and Figure 3-27 for the AM

and PM peak hours under Alternative 2. Appendix F, Section 4.3.3.1, contains the detailed results of the LOS capacity analysis and the intersection vehicle delay comparing the No Action Alternative with

**Table 3-28: Alternative 2 Intersection Operations (AM Peak Hour)** 

					r	r	r	r	
No.	Intersection	2030 No Action Alternative Condition: AM Delay (seconds/vehicle)	2030 No Action Alternative Condition: AM LOS	2030 No Action Alternative Condition: AM Check	2030 Alternative 2 Condition: AM Delay (seconds/ vehicle)	2030 Alternative 2 Condition: AM LOS	2030 Alternative 2 Condition: AM Check	Net Difference of Average Delay (seconds/vehicle)	Net Change in LOS
1	I-295 SB Ramps & Suitland Pkwy SE	18.7	В	Pass	18.7	В	Pass	No Change	No Change
2	Suitland Pkwy SE & I-295 NB Off-Ramp/ I-295 NB On-Ramp	153.7	F	Fail	153.8	F	Fail	+0.1	No Change
3	Firth Sterling Ave SE/Firth Sterling Ave SE & Suitland Pkwy	131.2	F	Fail	131.1	F	Fail	-0.1	No Change
4	Sumner Rd SE/Barry Rd SE & Firth Sterling Ave SE	10.9	В	Pass	11.0	В	Pass	+0.1	No Change
5	Eaton Rd SE & Firth Sterling Ave SE	7.1	A	Pass	7.2	A	Pass	+0.1	No Change
6	St. Elizabeth Rd SE & Stevens Rd SE & Firth Sterling Ave SE	17.1	В	Pass	17.2	В	Pass	+0.1	No Change
7	South Capitol St & Defense Blvd/ Firth Sterling Ave SE	32.9	С	Pass	32.4	С	Pass	-0.5	No Change

No.	Intersection	2030 No Action Alternative Condition: AM Delay (seconds/vehicle)	2030 No Action Alternative Condition: AM LOS	2030 No Action Alternative Condition: AM Check	2030 Alternative 2 Condition: AM Delay (seconds/ vehicle)	2030 Alternative 2 Condition: AM LOS	2030 Alternative 2 Condition: AM Check	Net Difference of Average Delay (seconds/vehicle)	Net Change in LOS
8	S Capitol St SB Ramps & MacDill Blvd SW/Malcol m X Ave	16.8	В	Pass	22.1	С	Pass	+5.3	Worse LOS
9	S Capitol St NB Ramps & Malcolm X Ave SE	21.3	С	Pass	26.6	С	Pass	+5.3	No Change
11	I-295 NB Ramp/ Dorothea Dix Ave SE & Malcolm X Ave SE	34.4	С	Pass	87.8	F	Fail	+53.4	Worse LOS
12	I-295 SB Ramps & Crossover	8.2	A	Pass	8.2	A	Pass	No Change	No Change
13	Dorothea Dix Ave SE & Crossover & I-295 NB Ramp	7.7	A	Pass	8.0	A	Pass	+0.3	No Change
14	Overlook Ave SW & Chappie James Blvd	39.3	D	Pass	8.4	A	Pass	-30.9	Better LOS
15	Overlook Ave SW & Chesapeake St SW	50.8	D	Pass	86.5	F	Fail	+35.7	Worse LOS
16	Overlook Ave SW & NRL Main Gate/ Laboratory Rd SW	193.7	F	Fail	62.8	E	Fail	-130.9	Better LOS

Key: LOS = Level of Service; Pass = LOS D or better; Fail = LOS E or LOS F

<sup>1</sup> 2 3 Notes: Synchro signalized intersection analysis; HCM criteria. Delay is measured in seconds per vehicle.

Intersection #10 is not included in this table because it is unsignalized.

**Table 3-29: Alternative 2 Intersection Operations (PM Peak Hour)** 

No.	Intersection	2030 No Action Alternative Condition: PM Delay (seconds/vehicle)	2030 No Action Alternative Condition: PM LOS	2030 No Action Alternative Condition: PM Check	2030 Alternative 2 Condition: PM Delay (seconds/ vehicle)	2030 Alternative 2 Condition: PM LOS	2030 Alternative 2 Condition: PM Check	Net Difference of Average Delay (seconds/vehicle)	Net Change in LOS
1	I-295 SB Ramps & Suitland Pkwy SE	20.6	С	Pass	20.6	С	Pass	No Change	No Change
2	Suitland Pkwy SE & I-295 NB Off-Ramp/ I-295 NB On-Ramp	68.0	E	Fail	67.7	Е	Fail	-0.3	No Change
3	Firth Sterling Ave SE/Firth Sterling Ave SE & Suitland Pkwy	223.1	F	Fail	222.4	F	Fail	-0.7	No Change
4	Sumner Rd SE/Barry Rd SE & Firth Sterling Ave SE	7.8	A	Pass	7.8	A	Pass	No Change	No Change
5	Eaton Rd SE & Firth Sterling Ave SE	4.6	A	Pass	4.6	A	Pass	No Change	No Change
6	St. Elizabeth Rd SE & Stevens Rd SE & Firth Sterling Ave SE	19.5	В	Pass	19.6	В	Pass	+0.1	No Change
7	South Capitol St & Defense Blvd/Firth Sterling Ave SE	30.2	С	Pass	29.9	С	Pass	-0.3	No Change

No.	Intersection	2030 No Action Alternative Condition: PM Delay (seconds/vehicle)	2030 No Action Alternative Condition: PM LOS	2030 No Action Alternative Condition: PM Check	2030 Alternative 2 Condition: PM Delay (seconds/ vehicle)	2030 Alternative 2 Condition: PM LOS	2030 Alternative 2 Condition: PM Check	Net Difference of Average Delay (seconds/vehicle)	Net Change in LOS
8	S Capitol St SB Ramps & MacDill Blvd SW/ Malcolm X Ave	29.2	С	Pass	52.3	D	Pass	+23.1	Worse LOS
9	S Capitol St NB Ramps & Malcolm X Ave SE	11.1	В	Pass	9.8	A	Pass	-1.3	No Change
11	I-295 NB Ramp/ Dorothea Dix Ave SE & Malcolm X Ave SE	12.9	В	Pass	11.7	В	Pass	-1.2	No Change
12	I-295 SB Ramps & Crossover	13.2	В	Pass	13.2	В	Pass	No Change	No Change
13	Dorothea Dix Ave SE & Crossover & I-295 NB Ramp	4.5	A	Pass	4.5	A	Pass	No Change	No Change
14	Overlook Ave SW & Chappie James Blvd	287.5	F	Fail	77.7	Е	Fail	-209.8	Better LOS
15	Overlook Ave SW & Chesapeake St SW	73.7	Е	Fail	84.0	F	Fail	+10.3	Worse LOS
16	Overlook Ave SW & NRL Main Gate/ Laboratory Rd SW	26.4	С	Pass	137.9	F	Fail	+111.5	Worse LOS

Key: LOS = Level of Service; Pass = LOS D or better; Fail = LOS E or LOS F

<sup>1 2 3</sup> Notes: Synchro signalized intersection analysis; HCM criteria. Delay is measured in seconds per vehicle.

Intersection #10 is not included in this table because it is unsignalized.

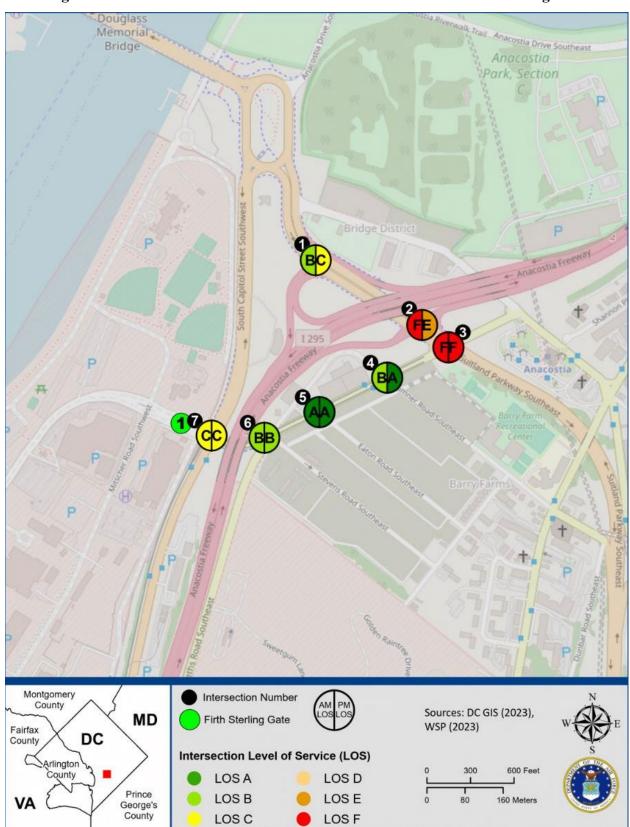


Figure 3-23: Alternative 2—AM and PM Peak Hour LOS—Firth Sterling Gate

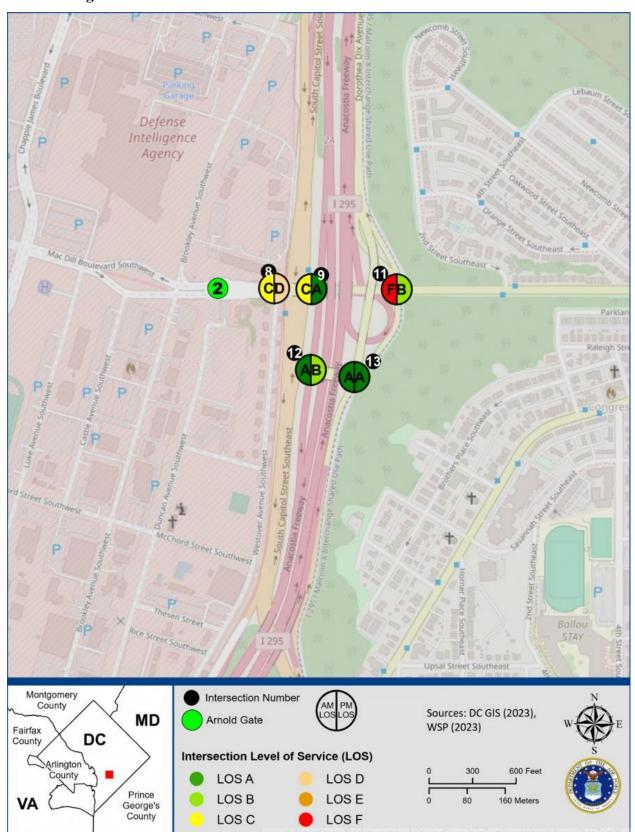


Figure 3-24: Alternative 2—AM and PM Peak Hour LOS—Arnold Gate

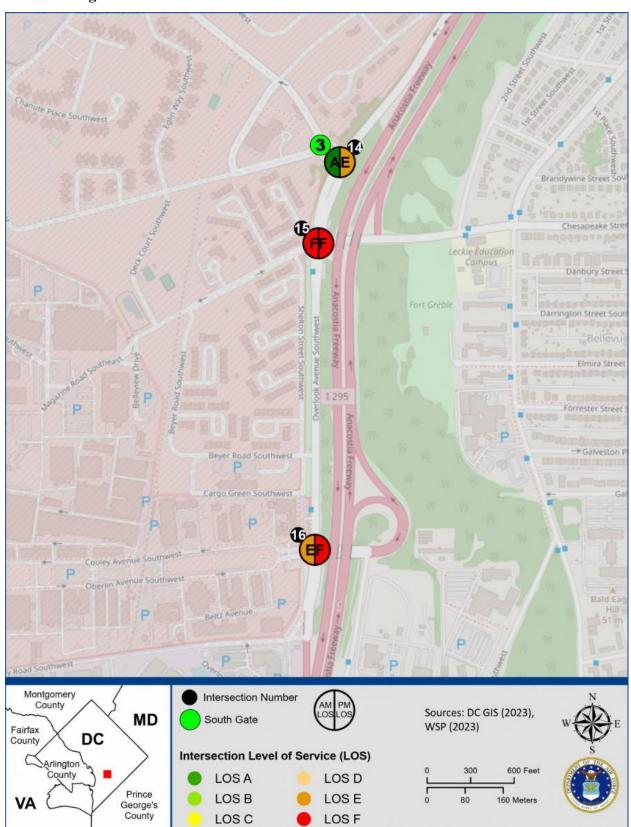


Figure 3-25: Alternative 2—AM and PM Peak Hour LOS—South Gate

### **Alternative 2 Intersection Queuing Analysis**

- 2 Based on the Synchro queue results of all study intersections, several signalized intersections have lane
- 3 groups that would experience queuing lengths exceeding the available storage capacity. The following
- 4 lane groups, with a comparison to the queues for the No Action Alternative, would exceed the available
- 5 storage under Alternative 2:

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- Suitland Parkway SE and I-295 NB Off-ramp/I-295 NB On-ramp (Intersection #2)
  - Off-ramp from northbound I-295 to northwest-bound Suitland Parkway SE during the AM peak hour (shown as the EB approach in the summary tables)
  - o Southeast-bound Suitland Parkway SE (though movement) during the PM peak hour
- Suitland Parkway SE and Firth Sterling Avenue SE (Intersection #3)
  - o Southbound Suitland Parkway SE during the AM and PM peak hour
  - o Northbound Suitland Parkway SE (through movement) during the AM peak hour
  - o Eastbound Firth Sterling Avenue SW during the AM and PM peak hour
  - Westbound Fifth Sterling Avenue SE (right turn movement) during the AM and PM peak hour
- Malcolm X Avenue SE and S Capitol Street NB ramps (Intersection #9)
  - Eastbound Malcolm X Avenue SE (through movement) during the AM and PM peak hour
- Overlook Avenue SW and Chesapeake Street SW (Intersection #15)
  - o Southbound Overlook Avenue SW (through movement) during the PM peak period
- All other intersection lane groups would experience queues that are adequately stored. Queuing results comparing Alternative 2 to the No Action Alternative are depicted in Appendix F, Section 4.3.3.2.
- Based on the number of inspection lanes at each of the three JBAB gates, the projected highest hourly
- volume entering each gate, and the average inspection time per vehicle (measured at the existing gates),
- 25 the queues entering the gates are not expected to spill back into the adjacent signalized intersection at any
- 26 time.

#### **Alternative 2 Summary**

- Under Alternative 2, effects for the pedestrian network, bicycle network, or transit would be minimal.
- 29 Short-term effects to sidewalks associated with traffic effect mitigation measures may occur along
- 30 Overlook Avenue SW south of Chappie James Boulevard. Short-term, adverse effects to truck access and
- 31 traffic may occur during construction activity within the installation, due to a temporary increase in truck
- 32 trips moving on and off the construction sites. For traffic under Alternative 2, there would be long-term,
- 33 adverse effects. Based on the Synchro analysis performed for this study, the additional volume of vehicles
- 34 would cause the degradation of overall intersection levels of service for a few intersections when
- 35 comparing the No Action Alternative with Alternative 2. During the AM peak hour, at I-295 NB On-
- ramp/Dorothea Dix Avenue SE and Malcolm X Avenue SE (Intersection #11), the overall intersection
- 37 would degrade from LOS C to LOS F; and at Overlook Avenue SW and Chesapeake Street SW
- 38 (Intersection #15), the overall intersection would degrade from LOS D to LOS F. During the PM peak
- 39 hour, at Overlook Avenue SW and Chesapeake Street SW (Intersection #15), the overall intersection
- 40 would degrade from LOS E to LOS F; and at Overlook Avenue SW and NRL Main Gate/Laboratory
- Road SW (Intersection #16), the overall intersection would degrade from LOS C to LOS F. Under
- 42 Alternative 2, several queues would increase slightly, while others would decrease slightly, but the overall
- 43 effect would be comparable to the No Action Alternative.

1 Therefore, based on DDOT's "Significant Impact Policy" in the DDOT CTR guidelines, when comparing the No Action Alternative with Alternative 2, the following intersections would require mitigation:

- I-295 NB On-ramps/Dorothea Dix Avenue SE and Malcolm X Avenue SE (Intersection #11) during the AM peak hour, because the overall intersection worsens from LOS C under the No Action Alternative to LOS F under Alternative 2 during the AM peak hour
- Overlook Avenue SW and Chesapeake Street SW (Intersection #15) during the AM and PM peak hour, because the overall intersection worsens from LOS D and LOS E under the No Action Alternative to LOS F under Alternative 2 during the AM and PM peak hours, respectively
- Overlook Avenue SW and NRL Main Gate/Laboratory Road SW (Intersection #16) during the PM peak hour, because the overall intersection worsens from LOS C under the No Action Alternative to LOS F under Alternative 2 during the PM peak hour

Required measures to improve Alternative 2 relative to the No Action Alternative were developed for each intersection that requires mitigation and are elaborated in Section 4.3.4 of Appendix F. The mitigation option implemented to improve traffic options at the aforementioned intersections would involve optimizing the signal timing splits. However, for Intersections #15, and #16, the only potential mitigation option that could be implemented to improve traffic performance along Overlook Avenue SW during the PM peak hour is to add a second southbound travel lane between Chesapeake Street SW and Laboratory Road SW. The southbound lane configuration at Overlook Avenue and Chesapeake would consist of one dedicated left turn lane, one dedicated through lane, and one shared through-right lane. The second southbound lane could continue through the intersection and taper off about 1,000 feet south of the Chesapeake Street. This configuration would require minor adjustments to the road alignment, the elimination of parking along Overlook Avenue SE, and reconstruction of the concrete median.

- 23 Section 4.3.4 of Appendix F presents detailed results of the intersection operations analysis that
- 24 demonstrate the effectiveness of the mitigation to minimize the long-term, adverse effects on traffic.
- Therefore, if Alternative 2 were selected, mitigation would be required to offset the anticipated traffic effects.

### 27 3.9 Summary

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- Table 3-32 provides a summary of the potential effects on the resource areas associated with the No
- 29 Action Alternative and the two action alternatives.

**Table 3-30: Summary of the Potential Effects on Resource Areas** 

Resource Area	No Action Alternative	Alternative 1: Implement IDP Five- Year Projects (Preferred Alternative)	Alternative 2: Alternative Siting for IDP Five-Year Projects
Air Quality	No change to existing air quality conditions. No significant effects.	Short-term, minor effects on air quality from demolition and construction activities. Long-term, minor effects from operations and vehicular travel from increased personnel. No significant effects.	Effects would be similar to Alternative 1, but slightly less, since slightly less criteria pollutant emissions would occur during construction. Intensity would still be the same (minor). No significant effects.
Water Resources	No change to existing water resources conditions. No significant effects.	Short-term, minor effects on groundwater, surface water, and floodplains from construction activities. Long-term, minor effects on groundwater, surface water, and floodplains from increased impervious surfaces. No effects on wetlands. No significant effects.	Effects would be similar to Alternative 1, but slightly less, since proposed ground disturbance and impervious surfaces would be slightly less. Intensity would still be the same (minor). No significant effects.
Biological Resources	No change to existing biological resources conditions. No significant effects.	Direct, minor effects on vegetation. Short-term, negligible wildlife effects. No long-term effects to wildlife habitat. No significant effects on threatened or endangered species; coordination with USFWS is ongoing. No significant effects.	Effects would be similar to Alternative 1, but slightly less effects on monarch butterfly host plant milkweed. No significant effects.
Cultural Resources	No change to existing cultural resources conditions. No significant effects.	The DAF will consult with the DC SHPO on each individual project as sufficient information to inform consultation becomes available. DAF would first avoid, then minimize effects to historic resources. If adverse effects cannot be avoided, they would be mitigated through an agreement with the DC SHPO and other consulting parties as appropriate. If appropriate mitigation is identified and implemented, all projects would result in no significant effects.	The DAF will consult with the DC SHPO on each individual project as sufficient information to inform consultation becomes available. DAF would first avoid, then minimize effects to historic resources. If adverse effects cannot be avoided, they would be mitigated through an agreement with the DC SHPO and other consulting parties as appropriate. If appropriate mitigation is identified and implemented, all projects would result in no significant effects.

Resource Area	No Action Alternative	Alternative 1: Implement IDP Five- Year Projects (Preferred Alternative)	Alternative 2: Alternative Siting for IDP Five-Year Projects
Infrastructure	No change to existing infrastructure conditions. No significant effects.	Short-term, minor effects to utility infrastructure and services at JBAB during construction. Long-term, minor, adverse effects due to increased demand on infrastructure. Long-term, beneficial effects on electrical reliability at JBAB. No significant effects.	Effects would be similar to Alternative 1. No significant effects.
Noise	No change to existing noise levels. No significant effects.	Short-term, minor effects from construction activities. Long-term, minor effects from increase in traffic. Noise levels would not be uncommon within the existing urban environment. No significant effects.	Effects would be similar to Alternative 1. No significant effects.
Hazardous Materials and Waste	No change to existing conditions. No significant effects.	Short-term, minor, adverse effects during demolition and construction. Long-term, negligible, beneficial effects from reduced amounts of hazardous materials. No significant effects.	Effects would be similar to Alternative 1. No significant effects.
Transportation	No changes to the transportation network from the Proposed Action. Transportation effects would occur within the region due to external planned developments and background growth. Adverse long-term traffic effects would occur from five planned developments external to the JBAB installation.	Minimal effects on the pedestrian, bicycle, and transit networks. Long-term, adverse effects on traffic due to additional volume of vehicles. Three intersections would require mitigation to offset anticipated traffic effects. With mitigation, no significant effects.	Minimal effects on the pedestrian, bicycle, and transit networks. Long-term, adverse effects on traffic due to additional volume of vehicles. Three intersections would require mitigation to offset anticipated traffic effects. With mitigation, no significant effects.

Key: AFB = Air Force Base; DAF = Department of the Air Force; DC SHPO = District of Columbia State Historic Preservation Office; IDP = Installation Development Plan; JBAB = Joint Base Anacostia-Bolling; NRHP = National Register of Historical Places; USFWS = U.S. Fish and Wildlife Service.

# 4 Reasonably Foreseeable Actions and Cumulative Effects

- 3 Cumulative effects are those effects on the environment that result from the incremental effects of the
- 4 Proposed Action when added to the effects of other past, present, and reasonably foreseeable actions.
- 5 Cumulative actions include those taken by federal or non-federal agencies or individuals. Cumulative
- 6 effects can result from actions with individually minor but collectively significant effects taking place
- 7 over a period of time. The scope of the cumulative effects analysis involves both the geographic extent of
- 8 the effects and the time frame in which the effects could be expected to occur. The cumulative effects
- 9 analysis qualitatively considers other reasonably foreseeable actions occurring within a similar time frame
- and geographic extent as the Proposed Action. This EA does not consider future actions that are
- 11 speculative.

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### 4.1 Past, Present, and Reasonably Foreseeable Actions

#### 4.1.1 Projects on JBAB Property

Past, current, and reasonably foreseeable actions or projects at JBAB are summarized in Table 4-1.

Table 4-1: Past, Current, and Reasonably Forseeable Actions on JBAB

Project Name	Project Description
Parking Garages 357 and 358	These are both two-story garages in the northern part of JBAB. These
	buildings were recently demolished to create a single surface lot.
Construction of a LVIS and	Construction and operation of a Unified Facilities Criteria compliant LVIS
Access Control Point	and access control point at Firth Sterling Gate at JBAB is being proposed.
	In May of 2024, a Final EA was prepared for this project. The Proposed
	Action is needed to improve overall safety, security, and traffic flow
	effectiveness at JBAB. The Proposed Action is estimated to require 18–24
	months to construct, with construction anticipated to begin in the summer
	of 2026.
<b>Building 29 Demolition</b>	Building 29, a 12,009 square foot facility, is the former Naval Supply
	Systems Command Postal Service at JBAB. Building 29 is located on the
	western side of the installation, adjacent to the Anacostia River. This
	building is at high risk for flooding and is expected to negatively affect the
	installation's ability to fight floods and repair the FRMS/levee system in
	the event of a failure. JBAB and DC SHPO have entered into a
	Memorandum of Agreement with delineated mitigation for the demolition
	of Building 29. The demolition of Building 29 is pending.
<b>Building 73 Demolition</b>	Building 73 is an abandoned heat plant located at the northwestern side of
	JBAB near Building 29. JBAB and DC SHPO have entered into a
	Memorandum of Agreement with delineated mitigation for the demolition
	of this facility. The demolition of Building 73 is pending.
Building 10106 Demolition	Building 10106 is a storage facility located at the southwestern side of
	JBAB adjacent to the Potomac River. Demolition of Building 10106 is
D 1111 (20 D 1111	planned but not funded at this time.
Building 628 Demolition	Building 628 was the distinguished visitors quarters and is located within
	the Housing and Community Support District. Building 628 is planned for
	demolition in the future.

Project Name	Project Description
Flood Risk Management System	The FRMS, composed of an earthen levee, T-walls, and seawall at the
Repair or Replacement	northern end of JBAB are in a region that is prone to flooding. The soil at
	this location is largely composed of dredged fill, and this area has low
	elevation; thus, subsidence is a major concern. The portion of the FRMS
	behind Buildings 72, 47, 29, and 94 has major deficiencies resulting in the
	full system being decertified by the USACE. Once the FRMS is repaired,
	the system will be recertified, and the floodplain is expected to be
	mitigated to the maximum extent practicable. The NEPA process began in
TEADY DOD IN CO.	FY2024, with construction tentatively planned for FY2029.
LEARN DC Public Charter	A new public charter school was constructed in 2021 on the southern end
School	of JBAB near Hickam Village Family Housing along Duncan Street SW.
	For the 2024–2025 school year, the school will serve pre-kindergarten-3
	through fourth grade students for JBAB military residents and civilian
	residents in Washington, DC. Initial site development included temporary buildings, perimeter fencing, parking, and utility connections. The school
	plans to serve one additional grade level each year up to eighth grade. The
	students are presently housed in temporary buildings on the six-acre site
	where the permanent buildings will be constructed. Design has not yet
	begun for the permanent facility, but construction of the permanent
	facilities, landscaping, outdoor spaces, and paving is anticipated to be
	completed in 2028. An EA and Supplemental EA were completed for this
	project in 2020 and 2021, respectively.
Potential Future Use of	The Navy recently completed an EIS in 2023 for acquisition of land
Northern JBAB	adjacent to the Washington Navy Yard. The Navy selected the alternative
	that included land acquisition through land exchange that involves future
	purchase options to the Navy-owned portion of JBAB. The acquisition of
	these parcels by a private developer would be subject to certain restrictions
	and conditions including a separate, future NEPA analysis, a national
	security review, and other restrictive easements to protect existing and
	future military operations. The developer has 10 years to enact their rights
	to acquire the parcels, at which point the Navy would initiate the NEPA
	process as well as other studies and reviews. While this development is
	still highly speculative at this time, it is reasonable to assume that
	development on the parcels would be dense, adding to an existing highly
	developed area.

### 1 4.1.2 Projects Outside of JBAB Property

2 Past, current, and reasonably foreseeable actions or projects outside of JBAB are summarized in Table

3 4-2.

Table 4-2: Past, Current, and Reasonably Forseeable Actions Outside of JBAB

Project Name	Project Description
South Capitol Street Trail	This trail will be constructed along the southeastern boundary of the installation.
Construction	The project will extend the Anacostia Riverwalk Trail into the southernmost areas
	of Washington, DC, filling a bicycle and pedestrian travel void and providing a new commuting option for JBAB and St. Elizabeths West Campus employees.
	The project has been in design development by DDOT over the last few years,
	with construction slated to begin in 2025 (Anacostia Waterfront Initiative, 2022;
	NCPC, 2024b).
	The potential implementation strategy would include four phases. Phase 1
	includes constructing interim network connections from Oxon Run Park and
	points south to the Department of Homeland Security campus and points north.  Phase 2 includes trail construction in the DC Village area, which would connect
	to existing and ongoing redevelopment in the area. Phase 3 includes the
	continuation of the trail construction from Overlook Avenue to Malcolm X
	Avenue. Phase 4 is the final section of the South Capitol Street Trail construction
	from Malcolm X Avenue to Firth Sterling Avenue. The sections in Phase 3 and 4
G. Fil. I. d. G	are along the boundary of the installation (DDOT, n.d.a).
St. Elizabeths Campus Redevelopment	The St. Elizabeths parcel is the site of the government-run St. Elizabeths Hospital, which was established in 1855 to provide mental health facilities for the
Kedevelopment	federal government and Washington, DC. St. Elizabeths is divided into two
	campuses. The West Campus is owned and controlled by the U.S. General
	Services Administration and is planned as a high-security campus for federal
	agencies. The U.S. Coast Guard Headquarters on-site houses 3,700 staff. The
	Department of Homeland Security headquarters, completed in 2019, houses an
	additional 800 employees. After a <i>Master Plan Amendment 2 Final EIS</i> was issued in August 2020, Alternative B was selected, which will add 1.2 million
	gross SF of office space in two separate structures, ranging from three to eight
	stories, on the plateau site of the West Campus. An additional 175,000 gross SF
	of office space in one two-story building will also be added on the Sweetgum
	Lane site. An additional 1,014 parking spaces will be added to the proposed
	underground parking garages and several buildings will be demolished (GSA, 2023).
	The 180-acre East Campus, owned by Washington, DC, is located across Martin
	Luther King Jr. Avenue from the West Campus. The long-term plan for the East
	Campus includes a 567,000 square foot mixed-use project featuring two residential buildings (288 units), a 200,000 square foot office building, a 125-
	room hotel, and up to 50,000 SF of retail. Construction of these projects is
	expected to begin in August 2024 and to be complete by March 2026 (DC
	Government, 2022). One project has already been constructed on the East
	Campus—the George Washington University Hospital, which is scheduled to
	open in late 2024. The hospital will feature 136 beds, an ambulatory pavilion for
	physician officers and clinics, a 500-car garage, and a helipad (GW Medical Faculty Associates, 2022). A new 20,000 SF library is also expected to open on
	the East Campus by 2027 (DC Government, 2021).

Project Name	Project Description
Poplar Point 'Bridge	This development, formerly known as Columbian Quarter, occupies six acres of
District' Development	land along Anacostia Park, near the Anacostia Metro Station. When fully built
	out, the project will be composed of up to 2.5 million SF of mixed-use
	development. Phase 1 includes a 130-foot-tall building with more than 700
	residential units atop tens of thousands of SF of restaurant, grocery, and retail
	space (Washburn, 2021). Construction broke ground in mid-2022, Phase 1 is
	slated to be completed in 2025, and subsequent phases will follow (Urban Turf,
	2023). The property will be transferred to Washington, DC, from the federal
	government. A Request for Proposal was re-issued earlier in 2024 with the award
	expected in June 2024 (DC Government, 2024a).
Barry Farm	The Barry Farm neighborhood is located off Martin Luther King Jr. Avenue. New
Redevelopment	roads and utilities have already been constructed, and demolition occurred in
	2020. The site is being redeveloped into a mixed-use community that includes
	approximately 900 residential units, 55,000 SF of commercial space, new roads, a
	central park, and new community facilities. The project is expected to be
	completed by 2030 (McGrath, 2022).
Reunion Square	This multi-phase, master planned development will consist of 1.5 million SF
Development	spread across nine buildings on approximately eight acres along Martin Luther
	King Jr. Avenue. Construction of this project started in mid-2021 (Reunion
	Square, n.d.). Development underway consists of 29,000 SF of retail, 38,000 SF
	of office space, a 231,000-square foot headquarters building for the Department
	of Health, a hotel, and 134 apartments (BLDUP, 2021). The Reunion Square
2577.6	Development project is slated for completion in 2025.
MLK Gateway	Located at the intersection of Good Hope Road and Martin Luther King Jr.
Development	Avenue SE, this project includes 20,000 SF of office space, 14,600 SF of retail
	space, and 45 parking spaces. Phase 1, which started in 2020 and was completed
	the following year, included the renovation of existing historic retail buildings on
	Good Hope Road. Phase 2, which started in 2021 and was completed in April
	2024, included a new 55,000-square foot building for the Department of Housing
	and Community Development headquarters. This building created more than 200 on-site jobs (DC Government, 2023; The Menkiti Group, 2021; DC Government,
	2024b).
Anacostia Metro	Construction of the Anacostia Metro Pedestrian Bridge will connect the south
Pedestrian Bridge	entrance site at the Anacostia Metrorail Station and the Barry Farm
1 caestrian Briage	neighborhood. The approximately 3-acre south entrance site is the main access
	point for bicyclists and pedestrians in the surrounding neighborhood. The bridge
	would span the topography between Suitland Parkway and the Metrobus
	facilities, which currently prohibits pedestrian access to and from the Barry Farm
	neighborhood (DDOT, n.d.b) (DDOT, n.d.b).
	neighborhood (DDO1, n.d.b) (DDO1, n.d.b).

### 4.2 Analysis of Cumulative Effects by Resource Area

#### 4.2.1 Air Quality

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For present and future actions, construction would generate short-term criteria pollutant and fugitive dust emissions while ground-disturbing activities are occurring. Air emissions are based on the size and complexity of the project and the extent to which activities would disturb the soil. All present and reasonably foreseeable future actions could collectively increase emissions of criteria pollutants temporarily in and around JBAB. Any new or modified stationary emissions sources would undergo appropriate permitting. Redevelopment surrounding JBAB could increase mobile source emissions as well as result in new stationary sources. New development projects would be expected to incorporate

- 1 high-efficiency heating and cooling, light fixtures, and sustainable window/exterior openings design,
- which would contribute to cumulative energy reductions.
- 3 Estimated construction and operational emissions resulting from the Proposed Action in this EA are well
- 4 below de minimis thresholds. Per regulation, by demonstrating that this project would be below de
- 5 minimis thresholds, the Proposed Action would not be considered significant individually or cumulatively
- 6 within the airshed. Because Washington, DC, is in nonattainment/maintenance for criteria pollutants, all
- 7 federal projects would require an applicability analysis to ensure general conformity. Therefore, the
- 8 Proposed Action, when combined with other past, present, and reasonably foreseeable projects, would not
- 9 result in significant cumulative effects on air quality.
- 10 GHGs are non-hazardous to human health at normal ambient concentrations. Therefore, the Proposed
- Action's GHGs emissions would have an insignificant effect on local air quality. However, cumulatively,
- 12 local GHG emissions can contribute to global warming and associated effects.
- 13 The intensity of the Proposed Action's GHG effects was measured by comparing the estimated GHG
- 14 emissions of the Proposed Actions to state, U.S., and global baseline GHG inventories. The effect
- 15 intensity was determined by its annual net change in GHG emissions relative to global, national, and
- 16 regional emissions. To contextualize the impact on a global scale, the Proposed Action's GHG emission
- 17 change was evaluated against the state and U.S. annual emissions. Although the Proposed Action and
- other past, present, and reasonably foreseeable projects have increased or would further increase global
- 19 GHG emissions, cumulatively, these emissions would be negligible when compared to regional and
- 20 global emissions.

#### 21 4.2.2 Water Resources

- 22 Construction and demolition activities occurring from other present and reasonably foreseeable projects
- have the potential to cause short-term, minor effects on water resources from runoff into local surface
- 24 water bodies (i.e., the Anacostia and Potomac Rivers). Individual projects that disturb more than one acre
- require an NPDES permit and the associated erosion- and sediment-control and stormwater management
- plans. Projects in Washington, DC, that disturb more than 5,000 SF require a stormwater management
- plan as part of the building permit process. Furthermore, projects in Washington, DC, that disturb more
- 28 than 50 SF require an erosion- and sediment-control plan. Such broad incorporation of erosion- and
- 29 sediment-control and stormwater BMPs minimizes potentially adverse cumulative effects during short-
- 30 term ground-disturbing activities.
- 31 The North End Levee and Seawall Repair or Replacement project would add long-term, beneficial
- 32 contributions to water resources at JBAB by decreasing the likelihood of flood damage on the northern
- portion of the installation. Completion of the repairs to the FRMS/levee system would mitigate the
- designations of the 100- and 500-year floodplains on JBAB, such that most of the area would likely no
- 35 longer be considered vulnerable to flood risk. The Proposed Action, when combined with other past,
- 36 present, and reasonably foreseeable projects, would contribute cumulatively to the adverse effects on
- 37 water resources; however, for reasons mentioned above, this cumulative effect is not anticipated to be
- 38 significant.

#### 39 4.2.3 Biological Resources

- The past, present, and future projects listed in Section 4.1 could contribute directly or indirectly to
- 41 adverse effects on biological resources. These projects would occur in an urban environment with limited
- 42 wildlife or high-quality wildlife habitat. These projects could result in a loss of trees or vegetation. For
- 43 instance, forest removal would occur under the St. Elizabeths Campus Redevelopment project; however,
- NCPC guidelines for tree replacement would be followed. Tree or vegetation removal could directly

- 1 affect wildlife and their habitat, including bat and migratory bird species. These effects could be
- 2 minimized by tree replacement mitigation, time of year restrictions on tree clearing where needed to
- 3 protect endangered bats, and adherence to federal and DC regulations. During construction of these
- 4 projects, some noise and dust could be generated, which could affect wildlife in the short term. Larger,
- 5 more mobile wildlife should be able to flee to adjacent vegetated areas. The projects listed in Section 4.1
- 6 would likely not affect the Shepherd Parkway forested habitat, which would provide habitat for any
- 7 displaced wildlife including bats and migratory birds. Individual projects would be expected to have
- 8 negligible to minor effects on biological resources. Therefore, the Proposed Action, when combined with
- 9 past, present, and reasonably foreseeable future projects would not result in significant cumulative effects
- 10 on biological resources.

#### 11 4.2.4 Cultural Resources

- 12 The DAF meets its stewardship requirements for cultural resources under Sections 106 and 110 of the
- NHPA. The installation has an ICRMP that is a reference and a planning tool for management and
- 14 preservation of cultural resources and preserving cultural resources while maintaining mission readiness.
- 15 Consultation with the DC SHPO (and/or other appropriate parties) must be conducted prior to
- undertaking any action that may affect historic properties. In this way, the DAF works to identify, avoid,
- 17 minimize, and/or mitigate any potential adverse effects on cultural resources when implementing
- 18 individual projects. Therefore, cumulative effects on cultural resources from past, present, and reasonably
- 19 foreseeable projects when considered in conjunction with the Proposed Action would not be significant.

#### 20 4.2.5 Infrastructure

- 21 The cumulative effects of the Proposed Action, when combined with other past, present, and reasonably
- foreseeable actions, are anticipated to result in continued increases in demand on JBAB's infrastructure,
- 23 including electrical, potable water, wastewater, stormwater, and natural gas systems. Much of this
- 24 infrastructure is interconnected with and shared by entities outside of the installation, such as PEPCO for
- electricity and DC Water for potable water.
- As other development and redevelopment projects proceed, both within the installation and the
- 27 surrounding communities, the incremental demand on these shared infrastructure systems will require
- 28 continued modernization and upgrades to maintain reliable and efficient operations. The collective effect
- of these projects will drive the need for improved infrastructure capacity and resilience. Upgrading
- 30 outdated systems, expanding capacity, and implementing new technologies will enhance efficiency and
- 31 reliability. Continued modernization of facilities is likely to equate to overall increased efficiencies.
- 32 Improved technologies and infrastructure upgrades will likely reduce the overall increase in infrastructure
- demands, as more efficient facilities typically require less energy, water, and other resources to operate.
- 34 The combined effects of the Proposed Action and other development projects would lead to increased
- 35 infrastructure demand, necessitating ongoing and proactive modernization efforts. Such modernization
- 36 efforts would ensure the continued functionality and sustainability of JBAB's interconnected
- 37 infrastructure systems while leveraging increased efficiencies to help minimize overall infrastructure
- 38 demand. Therefore, the Proposed Action, when combined with other past, present, and reasonably
- 39 foreseeable projects, would contribute cumulatively to the adverse effects on infrastructure; however, for
- reasons mentioned above, this cumulative effect is not anticipated to be significant.

#### 41 4.2.6 Noise

- 42 Cumulative effects on the noise environment would occur if construction or demolition activities occurred
- in the same timeframe as the Proposed Action and in the vicinity of the noise-sensitive receptors

- 1 surrounding JBAB. Under the Proposed Action, demolition activities could begin in FY2025, and
- 2 construction activities could last until FY2029, which is the same timeframe that the Barry Farm
- Redevelopment project is taking place. As a result, cumulative noise effects could occur from these
- 4 projects and other projects listed in Section 4.1 that are not scheduled vet. Noise sensitive receptors on the
- 5 installation include schools, medical facilities, and residences. Although some noise from construction
- 6 activities would be louder than the typical sounds in the existing environment, the ambient noise
- 7 environment at JBAB and the surrounding area is typical of an urban environment. The predominant
- 8 sources of existing noise include military helicopter operations, commercial aircraft operations, vehicular
- 9 traffic, and heavy equipment operation. Therefore, noise from construction equipment would not be
- 10 unfamiliar to the surrounding populations. Cumulative construction noise effects from present and future
- actions within the study area would be intermittent and short-term. As listed in Section 4.1, there are
- 12 numerous projects currently under development around JBAB; this trend is expected to continue in the
- 13 future. The noise environment will be influenced by existing noise sources from the urban environment,
- 14 increases in vehicular traffic, and changes in land uses from redevelopment. Therefore, the Proposed
- Action, when combined with other past, present, and reasonably foreseeable projects, would contribute
- 16 cumulatively to the adverse effects of noise; however, for reasons mentioned above, this cumulative effect
- is not anticipated to be significant.

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#### 4.2.7 Hazardous Materials and Waste

- 19 The Proposed Action would be carried out in compliance with laws and regulations applicable to
- 20 hazardous materials and waste. Implementation of BMPs and environmental protection measures would
- 21 reduce the potential for an accidental release of hazardous materials. BMPs include maintaining
- 22 construction equipment according to the manufacturer's specifications and placing drip mats under parked
- equipment as needed. Hazardous and petroleum waste generated at JBAB would be handled and disposed
- 24 of in accordance with federal, state, and local regulations. It is anticipated that all other present and future
- 25 actions would also be carried out in compliance with applicable laws and regulations. Therefore,
- 26 cumulative effects from hazardous materials and waste from past, present, and reasonably foreseeable
- 27 projects when considered in conjunction with the Proposed Action would be negligible.

#### 4.2.8 Transportation

- The past, present, and future projects generate trips that are, for the most part, captured in the
- 30 transportation analysis under the No Action Alternative and the two action alternatives. Traffic volumes
- 31 are expected to increase outside the installation along Firth Sterling Avenue, Suitland Parkway, Howard
- 32 Road, Eaton Road, Sumner Road, and St. Elizabeths Avenue SE; South Capitol Street; Malcolm X
- 33 Avenue SE; Overlook Avenue and Chappie James Boulevard SW; and the I-295 interchange ramps.
- 34 As presented in Section 3.8.2 of the Transportation Study (Appendix F), the analysis covers past and
- 35 present projects already open and in operation (developments and roadway improvements) and the
- existing condition data collected in November 2022. As presented in Section 3.8.3 of the Transportation
- 37 Study, the analysis covers future projects that include the proposed alternatives, five planned external
- 38 developments, and the regional growth of trips, plus improvements to increase entry capacity at Firth
- 39 Sterling Gate. The five planned external land use developments have a publicly established construction
- 40 timeline and were deemed large enough or close enough to the project area. Including the Proposed
- 41 Action and the planned external development projects provides an estimate of future vehicle trips through
- 42 2030. The cumulative effects for 2030 were studied as part of the transportation analysis and cover each
- transportation mode. The actions included in the analysis represent most of the potential growth to the
- transportation system. In addition, actions not included in the analysis may be required to include
- roadway improvements that would address any additional effects caused by the action.

- 1 Cumulative transportation effects that would occur with implementation of the Proposed Action are
- 2 broken down by transportation mode. Cumulative effects on the pedestrian network would be long term
- 3 and beneficial from the five external planned developments and DDOT pedestrian improvement projects
- 4 that would provide new pedestrian connections and amenities, although, short-term, adverse effects may
- 5 occur during pedestrian facility construction. Cumulative effects on the bicycle network would also be
- 6 long term and beneficial from planned external and on-installation bicycle facilities, such as DDOT's
- 7 plans to construct several new bicycle lanes and multiuse trails throughout the city. Cumulative effects on
- 8 the transit network would be minor. The moderate increase in ridership generated from the five planned
- 9 developments and background growth would be offset by routine route adjustments as well as proposed
- 10 Metrobus and Metrorail improvements and recommendations, including the Momentum plan, Bus
- 11 Priority Program, and 2025 Better Bus Network. Cumulative effects on the parking network would be
- long term and beneficial from the increase in parking spaces associated with the external planned
- developments.

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- 14 Cumulative effects on the traffic network would be long term and adverse because vehicular operations 15 would fail at the following intersections under each action alternative:
  - Action Alternative 1
    - o Suitland Parkway SE & Firth Sterling Avenue SE (Intersection #3)
    - South Capitol Street SB Ramps and MacDill Boulevard/Malcolm X Avenue SE (Intersection #8)
    - I-295 NB On-ramps/Dorothea Dix Avenue SE and Malcolm X Avenue SE (Intersection #11)
  - Action Alternative 2
    - o I-295 NB On-ramp/Dorothea Dix Avenue SE and Malcolm X Avenue SE (Intersection #11)
    - Overlook Avenue SW and Chesapeake Street SW (Intersection #15)
    - o Overlook Avenue SW and NRL Main Gate/Laboratory Road SW (Intersection #16)
- 27 The effects on those intersections would occur as a result of the increase in vehicle trips generated by the
- 28 Proposed Action. The Proposed Action is expected to add vehicle trips and contribute to an increase in
- 29 delays and queues for these study intersections that meet or exceed the DDOT mitigation thresholds.
- However, mitigation for effects on traffic from the two action alternatives includes signal timing
- 31 modifications and roadway geometric improvements that would minimize effects. With mitigations,
- 32 implementation of the Proposed Action, combined with past, present, and reasonably foreseeable future
- 33 projects, would not result in significant transportation effects within the study area.

# 5 Summary of Environmental Management and Mitigation

- Table 5-1 below summarizes the environmental management and mitigation, as discussed in Chapter 3 of
- 4 this EA, needed to offset potential environmental effects from the Proposed Action.

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Table 5-1: Environmental Management and Mitigation

Best Management Practice	Description	Adverse Effects Reduced/Avoided
Tree replacement	Any trees removed would be replaced according to the NCPC's Tree Replacement Policy and JBAB's Installation Development Plan and IFS.	Negate loss of tree canopy in Washington, DC.
Construction equipment	Good housekeeping measures for construction equipment (i.e., POL) for optimal performance.	Prevent leaching of contaminants into groundwater and surface water.
Erosion and sediment control	Measures would be site-specific and developed following the site geotechnical report but could include standard measures such as appropriate scheduling and sequencing, silt fencing covering soil stockpiles, and watering exposed areas.	Limit erosion and sedimentation during construction to minimize effects on soil and water resources.
Floodplains	DAF would comply with the standards and requirements set forth under EO 11988, DTM-22-003, and UFC 3-201-01 for facilities and flood-susceptible utilities built in the floodplain, or pursue an exemption to these requirements.	Elevating facilities and utilities above base flood elevation projections would protect infrastructure. Alternatively, the anticipated FRMS/levee project would reinstate flood control to JBAB and the installation's FRMS would likely be recertified. Both measures would result in the proposed IDP project facilities and utilities not being at risk during 100-year flood events.
Stormwater control	Incorporated low-impact development and other stormwater measures to treat and store stormwater, including bioretention basins.	Ensure that post-development hydrology meets or improves pre-development hydrology, which improves stormwater quality and minimizes local flooding or drainage issues.

D 115		Adverse Effects
Best Management Practice	Description	Reduced/Avoided
Fugitive dust control	Measures would be site-specific but could include wetting dry soil or using chemical additives to minimize wind erosion, stabilizing/covering soil stockpiles, stabilizing/planting disturbed areas that are not being actively worked, or using wheelwashing stations as vehicles enter or leave the active construction site.	Minimize particulate emissions during ground-disturbing activities on unpaved surfaces.
Safety protocols	All contractors performing construction and demolition activities would develop comprehensive health and safety plans detailing all potential hazards and site-specific guidance.	Minimize potential safety risks during construction and demolition activities.
Contaminated sites	If any soil and/or groundwater within the project sites is determined to be contaminated (such as with POL, PFAS/PFOA), soil and groundwater would be handled according to applicable environmental compliance regulations.	Protect the health and safety of construction workers, and to prevent the spread of contaminated materials, if present.
Continued NHPA consultation	Once adequate project designs are available, DAF will complete consultation under Section 106 of the NHPA. DAF will first avoid, then minimize and/or mitigate potential adverse effects to historic properties through consultation with the DC SHPO. Mitigate any identified adverse effects under the terms of an individual project Section 106 consultation with the DC SHPO.	Protect historic properties in consultation with the DC SHPO during construction and demolition activities.
SOPs in the 2020 JBAB ICRMP	Avoid all historic properties where feasible and conduct archaeological investigations for each project where necessary.	Protect historic properties on JBAB in accordance with the JBAB ICRMP.
Traffic Mitigation	Mitigate the intersections identified in Section 3.8.3 for the alternative selected for implementation.	Improve traffic performance off- base to mitigate increased traffic associated with the Proposed Action.

1 Key: DAF = Department of the Air Force; DC = District of Columbia; EO = Executive Order; FRMS = Flood Risk

Management System; ICRMP = Installation Cultural Resources Management Plan; IDP=Installation Development

<sup>2</sup> 3 4 5 6 Plan; IFS = Installation Facility Standards; JBAB = Joint Base Anacostia-Bolling; NCPC=National Capital Planning

Commission; NHPA = National Historic Preservation Act; PFAS=per- and polyfluoroalkyl substances;

PFOA = perfluorooctanoic acid; POL=petroleum, oil, and lubricants; SHPO = State Historic Preservation Office;

SOP = Standard Operating Procedure

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### Appendix A Relevant Laws and Regulations

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- 1 This appendix contains additional detail regarding the regulatory setting pursuant to relevant laws and
- 2 regulations. The information below is organized by the resource areas analyzed. Not every resource area
- 3 needed to provide additional regulatory setting details.

### **Regulatory Setting**

#### **5** Water Resources

4

- 6 The Clean Water Act (CWA), as amended, regulates point and non-point source pollutant discharges into
- 7 navigable Waters of the United States. As part of the 2014 Final Rule for the CWA, titled Effluent
- 8 Limitations Guidelines and Standards for the Construction and Development Point Source Category,
- 9 activities covered by a NPDES permit must implement non-numeric erosion and sediment controls and
- 10 pollution prevention measures.
- 11 The CWA also requires that states establish a Section 303(d) list to identify impaired waters and establish
- 12 Total Maximum Daily Loads (TMDLs) for the sources causing the impairment. A TMDL is the
- maximum amount of a substance that can be assimilated by a water body without causing impairment. A
- 14 water body can be deemed impaired if water quality analyses conclude that exceedances of water quality
- 15 standards occur.

#### 16 Biological Resources

- 17 Special-status species, for the purposes of this assessment, are those species listed as threatened or
- 18 endangered under the Endangered Species Act (ESA) and species afforded federal protection under the
- 19 Marine Mammal Protection Act (MMPA) or the Migratory Bird Treaty Act (MBTA).
- The purpose of the ESA is to conserve the ecosystems upon which threatened and endangered species
- 21 depend and to conserve and recover listed species. Section 7 of the ESA requires action proponents to
- 22 consult with the U.S. Fish and Wildlife Service (USFWS) or National Oceanic and Atmospheric
- 23 Administration (NOAA) Fisheries to ensure that their actions are not likely to jeopardize the continued
- existence of federally listed threatened and endangered species, or result in the destruction or adverse
- 25 modification of designated critical habitat. Critical habitat cannot be designated on any areas owned,
- 26 controlled, or designated for use by the DoD where an Integrated Natural Resources Management Plan
- has been developed that, as determined by the Department of Interior or Department of Commerce
- 28 Secretary, provides a benefit to the species subject to critical habitat designation.
- All marine mammals are protected under the provisions of the MMPA. The MMPA prohibits any person
- or vessel from "taking" marine mammals in the United States or the high seas without authorization. The
- 31 MMPA defines "take" to mean "to harass, hunt, capture, or kill or attempt to harass, hunt, capture, or kill
- 32 any marine mammal."
- Birds, both migratory and most native-resident bird species, are protected under the MBTA, and their
- conservation by federal agencies is mandated by EO 13186 (Migratory Bird Conservation). Under the
- 35 MBTA it is unlawful by any means or in any manner, to pursue, hunt, take, capture, kill, attempt to take,
- 36 capture, or kill, [or] possess migratory birds or their nests or eggs at any time, unless permitted by
- 37 regulation. The 2003 National Defense Authorization Act gave the Secretary of the Interior authority to
- 38 prescribe regulations to exempt the Armed Forces from the incidental taking of migratory birds during
- authorized military readiness activities. The final rule authorizing the DoD to take migratory birds in such
- 40 cases includes a requirement that the Armed Forces must confer with the USFWS to develop and
- 41 implement appropriate conservation measures to minimize or mitigate adverse effects of the Proposed
- 42 Action if the action will have a significant negative effect on the sustainability of a population of a
- 43 migratory bird species.
- 44 Under EO 13186, Responsibilities of Federal Agencies to Protect Migratory Birds, federal agencies are

- 1 required to define what actions and programs should be included in an agency-specific Memorandum of
- 2 Understanding (MOU) with the USFWS (U.S. Government, 2001). In July 2006, a MOU between the
- 3 DOD and the USFWS was established. This MOU identifies specific activities (excluding military
- 4 readiness) that the DOD should take to advance the conservation of migratory birds and to avoid or
- 5 minimize the take of migratory birds. This MOU also directs the DOD to ensure that their operations are
- 6 consistent with the MBTA, but it does not authorize the take of migratory birds (DAF, 2021)(DOD
- 7 Environment, Safety, & Occupational Health Network and Information Exchange (DENIX), 2006).
- 8 The 1988 amendment to the Fish and Wildlife Conservation Act mandates the USFWS to identify
- 9 species, subspecies, and populations of all migratory nongame birds that, without additional conservation
- actions, are likely to become candidates for listing under the Endangered Species Act (ESA) of 1973. The
- Birds of Conservation Concern 2021, Migratory Bird Program, is the most recent effort to carry out this
- mandate (USFWS, 2021a).
- Bald and golden eagles are protected by the Bald and Golden Eagle Protection Act. This act prohibits
- 14 anyone, without a permit issued by the Secretary of the Interior, from taking bald eagles, including their
- parts, nests, or eggs. The Act defines "take" as "pursue, shoot, shoot at, poison, wound, kill, capture, trap,
- 16 collect, molest or disturb."
- 17 The Magnuson-Stevens Fishery Conservation and Management Act provides for the conservation and
- management of the fisheries. Under the Act, essential fish habitat (EFH) consists of the waters and
- substrate needed by fish to spawn, breed, feed, or grow to maturity.
- 20 The Comprehensive Plan for the National Capital's Federal Environment Element's Tree Replacement
- Policy and Submission Guidelines (called Federal Comprehensive Plan hereinafter), Section FE.G.1,
- 22 directs the federal government to preserve and protect existing trees, especially healthy native (non-
- 23 invasive) trees and to account for existing trees early in the planning process to maximize preservation.
- Trees 100 inches or greater in circumference (called Heritage Trees) may not be removed unless specific
- criteria are met. All possible considerations should be given to protect trees in critical areas for the health
- of the Chesapeake Bay or Potomac River watersheds. FE.G.2 of the Federal Comprehensive Plan states
- 27 that when tree transplanting is not feasible and tree removal is necessary, trees should be replaced
- 28 following specific procedures using an arborist's consultation. Guidelines require that a Tree Preservation
- and Replacement Plan be submitted with master plans and individual projects (NCPC, 2020a: NCPC,
- 30 2020b; DC Government, 2016; NCPC, 2024a; NCPC, 2016).
- 31 Under the DC Urban Tree Canopy Plan, DC has a 40 percent tree canopy goal by 2032. Achieving this 5
- 32 percent goal increase (from 35 percent) will require a sustained 25 percent increase in DC tree planting
- rates for the next twenty years. This effort requires the collective work of federal and DC agencies,
- individual residents, and private sectors (DOEE, 2013).

#### **Cultural Resources**

- 36 Cultural resources are governed by other federal laws, regulations, and Executive Orders (EOs) including
- 37 the National Historic Preservation Act (NHPA), Archeological and Historic Preservation Act (AHPA),
- 38 American Indian Religious Freedom Act (AIRFA), Archaeological Resources Protection Act of 1979
- 39 (ARPA), the Native American Graves Protection and Repatriation Act of 1990 (NAGPRA), and EO
- 40 13007, *Indian Sacred Sites*. Federal agencies' responsibilities for protecting historic properties are defined
- 41 primarily by Sections 106 and 110 of the NHPA. Section 106 requires federal agencies to take into
- 42 account the effects of their undertakings on historic properties. Section 110 of the NHPA requires federal
- 43 agencies to establish—in conjunction with the Secretary of the Interior—historic preservation programs
- for the identification, evaluation, and protection of historic properties. Cultural resources also may be
- 45 covered by state, local, and territorial laws.

- 1 The National Historic Preservation Act (NHPA) focuses on property types such as prehistoric and historic
- 2 sites, buildings and structures, districts, and other places that have physical evidence of human activity
- 3 considered important to a culture or a community for scientific, traditional, religious, or other reasons.
- 4 These resources can prove useful in understanding and describing the cultural practices of past peoples or
- 5 these resources retain cultural and religious significance to modern groups. Resources judged significant
- 6 under criteria established in the NHPA are considered eligible for listing in the National Register of
- 7 Historic Places (NRHP). The NRHP refers to these places as "historic properties," and they are protected
- 8 under the NHPA. The NHPA requires federal agencies to consider the effects of their activities and
- 9 programs on NRHP-eligible properties.
- 10 Regulations for the Protection of Historic Properties (36 C.F.R. Part 800) present a process for federal
- agencies to consult with the appropriate SHPO or Tribal Historic Preservation Office (THPO), federally
- 12 recognized Indian Tribes, Native Hawaiian groups, other interested parties, and, when appropriate, the
- 13 Advisory Council on Historic Preservation. This is to ensure potential effects on historic resources, as a
- 14 result of the undertaking, are considered adequately. Native American Graves Protection and Repatriation
- Act is a federal law passed in 1990 that provides a process for museums and federal agencies to return
- 16 certain Native American cultural items—human remains, funerary objects, sacred objects, or objects of
- 17 cultural patrimony—to lineal descendants and culturally affiliated Indian tribes and Native Hawaiian
- 18 organizations.

#### 19 Hazardous Materials and Waste

- 20 Under the Resource Conservation and Recovery Act (RCRA; 42 U.S.C. 6901 et seq.), the USEPA has the
- 21 authority to control hazardous waste from, "cradle-to-grave." This includes the generation, transportation,
- treatment, storage, and disposal of hazardous waste. In order to adhere to RCRA, the USEPA has
- developed regulations, guidance, policies, and programs to ensure safe management and cleanup of solid
- 24 and hazardous waste and to encourage source reduction and beneficial reuse. RCRA creates the
- 25 framework for the proper management of both hazardous and nonhazardous solid waste.
- 26 The Air Force Manual 32-7002 outlines comprehensive guidelines for the management of hazardous
- 27 materials and waste. It establishes the Hazardous Materials Management Process as an essential part of
- 28 the DAF Environmental Management System. The Hazardous Materials Management Process is designed
- 29 to ensure compliance with various federal laws, such as the RCRA. This process involves the continuous
- 30 identification, authorization, and tracking of hazardous materials to minimize their use and associated
- 31 risks. Furthermore, the manual assigns specific responsibilities to various DAF units, emphasizing a
- 32 coordinated approach to hazardous materials management. The Toxic Substances Control Act (TSCA) of
- 33 1976 (15 U.S.C. 2601 et seq.) provides the USEPA with the authority to require reporting, record-keeping
- 34 and testing requirements, and restrictions relating to chemical substances and/or mixtures. Certain
- 35 substances are generally excluded from TSCA, including, among others, food, drugs, cosmetics, and
- 36 pesticides. TSCA addresses the production, importation, use, and disposal of specific chemicals including
- PCBs, ACM, radon, and LBP.
- 38 The USEPA is currently proposing to designate two PFAS—perfluorooctanoic acid (PFOA) and
- 39 perfluorooctane sulfonic acid (PFOS), including their salts and structural isomers—as hazardous
- 40 substances under CERCLA, also known as Superfund. This proposed rulemaking would increase
- 41 transparency around releases of these harmful chemicals and help to hold polluters accountable for
- 42 cleaning up their contamination. The rulemaking (anticipated to be final in early July 2024) would require
- entities to immediately report releases of PFOA and PFOS that meet or exceed the reportable quantity to
- 44 the National Response Center, state or Tribal emergency response commission, and the local or Tribal
- 45 emergency planning committee (local emergency responders). Entities would not be required to report
- past releases of PFOA or PFOS as they were not yet listed as hazardous substances.

### Appendix B Public Engagement and Agency Correspondence Materials

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### **Public and Agency Involvement**

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### **Agency Distribution List for the Early Public Scoping**

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Clayton Rosenberg Advisory Neighborhood Commission 8F	Clayton Rosenberg	
Chris Wilson Advisory Council on Historic Preservation	Chris Wilson	Advisory Council on Historic Preservation
Diane Sullivan, Director, Urban National Capital Planning Commission (NCPC)	Diane Sullivan, Director, Urban	
Design & Plan Review Division	Design & Plan Review Division	

Appendix B B-3 February 2025

Recipient	Agency
Thomas Luebke, Secretary	U.S. Commission of Fine Arts
Kym Hall, Area Director, National	National Park Service
Capital Region	
Kathryn G. Smith, National Historic	National Park Service
Landmarks & National Register	
Coordinator, National Capital Region	
Jennifer Cheswick	U.S. Naval Research Lab
Ed Wandelt, Office of Environmental	U.S. Coast Guard Headquarters
Management	
Jennifer Hass	Department of Homeland Security St. Elizabeth's Campus
Kristi Tunstall Williams, Director,	U.S. General Services Administration
Office of Planning and Design	
Quality	
Genevieve LaRouche, Project Leader	U.S. Fish and Wildlife Service – Chesapeake Bay
	Ecological Services Field Office
David Maloney	DC State Historic Preservation Office
Marnique Heath	DC Historic Preservation Review Board
Richard Jackson, Director	District Department of Energy and Environment
Rese Cloyd, Associate Director	Department of Energy and Environment, Fisheries and
	Wildlife Division
Anita Cozart, Director	DC Office of Planning
Anna Chamberlin, Associate Director	District Department of Transportation
of Planning and Sustainability	
Division	
Angie Schmidt, President	Capitol Hill Restoration Society
Greta Fuller	Historic Anacostia Preservation Society
Clark Mercer, Executive Director	Metropolitan Washington Council of Governments
Tom Webster, Chief Planning &	Washington Metropolitan Area Transit Authority
Performance Officer	NATE OF THE CONTROL O
Robert Williams, Environmental	NAVFAC Washington
Business Line Leader	A
Kristina Noell, Executive Director	Anacostia Business Improvement District
Native American Tribal Recipients	D.1. 31.2
Katelyn Lucas, Tribal Historic	Delaware Nation
Preservation Office	D 1 11 77 1
Kendall Stevens, Cultural Resource	Pamunkey Indian Tribe
Director	

### Early Public Scoping Letter (June 4, 2024)



## DEPARTMENT OF THE AIR FORCE 1 1TH CIVIL ENGINEER SQUADRON (AFDW) JOINT BASE ANACOSTIA-BOLLING DC

June 5, 2024

Lt Col. April H. Clemmensen Commander 11th Civil Engineer Squadron 370 Brookley Avenue SW Washington, D.C. 20032

Contact Name, Title Contact Office Agency Name Street Address City, State Zip

SUBJECT: Programmatic Environmental Assessment for the Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling, Washington, DC

#### **Dear Contact Name**

The United States Air Force (USAF) is currently preparing an Environmental Assessment (EA) under the National Environmental Policy Act (NEPA) to evaluate potential environmental impacts associated with the construction, infrastructure, and demolition projects identified within the Five-Year Installation Development Plan (IDP) update at Joint Base Anacostia-Bolling (JBAB), Washington, DC. The EA will focus on the projects projected to be implemented over the next five (5) years (Fiscal Years 2025-2029).

The purpose of the Proposed Action is to implement the five-year physical development plans to support JBAB's future mission requirements as outlined in the IDP. The National Capital Planning Commission (NCPC) reviewed and approved the IDP in 2022. The overall purpose of the JBAB IDP is to ensure that management and development of the real property assets of the installation support the planning vision, mission readiness, and quality of life for installation residents and employees. The need for the Proposed Action is to provide the facilities and infrastructure to meet the mission requirements of the 11th Wing and its tenant units. Overall, the construction of new facilities, demolition of obsolete facilities, and implementation of infrastructure improvements (such as roads and utility lines) would address deficiencies in existing facilities and infrastructure and provide the space to accommodate future missions planned to join JBAB. The demolition of aging infrastructure would provide space for new construction and enhance or restore important viewsheds in accordance with guidance set forth by NCPC. The implementation of infrastructure improvements would modernize aging electrical infrastructure and improve electrical reliability. The Proposed Action is also needed to increase vehicle and pedestrian capacity; to address increasing demand on mobility networks; and to create recreational trails to support JBAB's need for accessible, walkable development within the Housing and Community Support District.

The Proposed Action includes 10 separate activities, which would occur over the five-year period. The construction or demolition schedule for each project would vary within this time period, dependent

on the timing of the design schedule, funding, and other coordination requirements. The proposed projects include: Blanchard Barracks Demolition, Defense Information System Agency (DISA) Facility, National Capital Region (NCR) Center of Excellence, Electric Switch Station Reliability Improvements, Reversible Travel Lane on Defense Blvd., Connection of Waterfront Trail to Bellevue Housing, CSX Trail, Replacement Child Development Center (CDC), Medical Squadron (MDS) Clinic, and South Gate and Visitor Center.

Much of JBAB, including land proposed for the five-year IDP projects, is within the 100-year or 500-year floodplain. In accordance with EO 11988, Floodplain Management and EO 13690, Establishing a Federal Flood Risk Management Standard and a Process for Further Soliciting and Considering Stakeholders, federal agencies must notify the public and solicit comments on actions impacting floodplains. Further, federal agencies must implement more rigid floodplain definitions for planning purposes, either using the 500-year floodplain for facility planning or elevated floodplain contours 2–3 feet above base flood elevation projections. This letter serves to initiate early stakeholder engagement for a Proposed Action within a floodplain. If the Air Force finds that there is no practicable alternative to constructing the Proposed Action within the floodplain, a Finding of No Practicable Alternative (FONPA) would be prepared with the Finding of No Significant Impact, if appropriate.

As part of the NEPA process, the Air Force is considering reasonable alternatives to implement the Proposed Action. Two action alternatives will be analyzed within the EA, in addition to a No Action Alternative. Under Alternative 1, JBAB would implement the 10 proposed projects at the sites shown on **Attachments 2** and **3**. Under Alternative 2, JBAB would implement the 10 proposed projects at the sites shown on **Attachments 4** and **5**. The effects of a No Action Alternative will be analyzed as a baseline for measuring the environmental consequences of the action alternatives.

The Air Force respectfully requests your written comments and other input on the Proposed Action within the 30-day public comment period. Comments must be emailed or postmarked by 11:59 pm on July 11, 2024 to be considered during preparation of the Draft EA. Comments can be submitted via email to NAVFACWashNEPA1@navy.mil; please include ATTN: JBAB IDP EA in the subject line. Comments may also be submitted via mail to NAVFAC Washington at 1314 Harwood Street SE, Washington, DC 20374. Additional project materials can be found at: https://www.jbab.jb.mil/Units-Agencies/11th-Wing/Mission-Support-Group/Environmental.

The Draft EA will be available for public and agency review and comment in the fall of 2024. If you have any questions or require additional information, please contact Nicole Tompkins-Flagg via the email listed above or telephone at (202) 355-2084.

Sincerely,

APRIL H. CLEMMENSEN, Lt Col, USAF

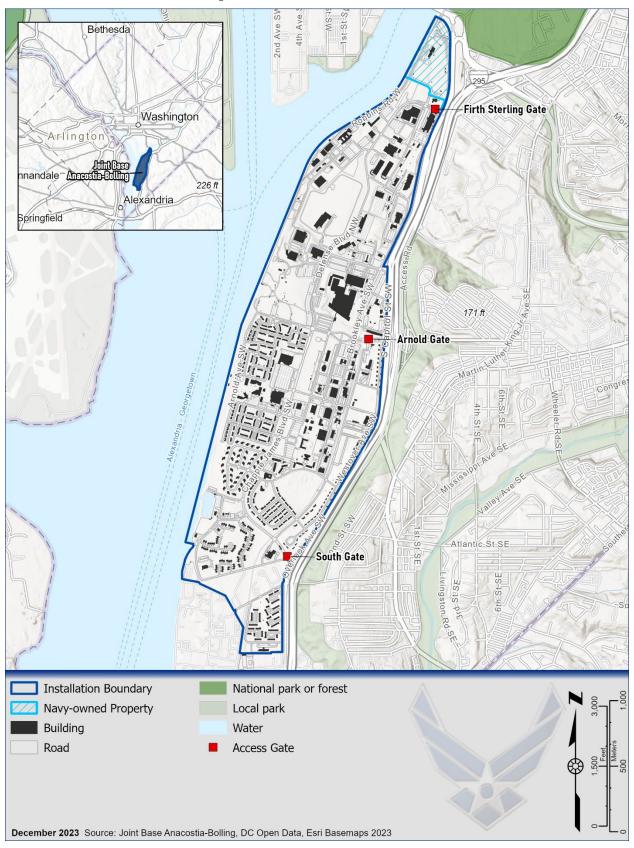
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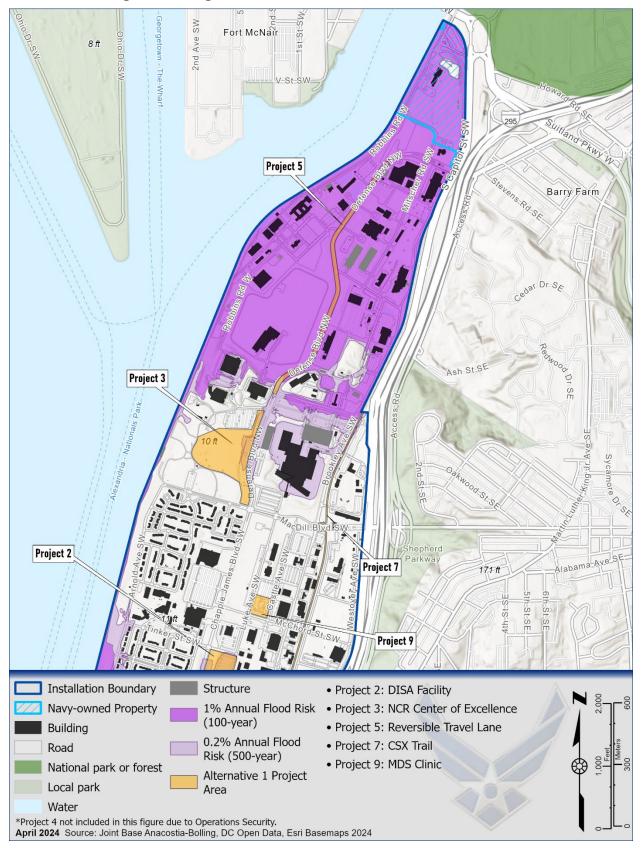
#### Attachments:

- 1. JBAB Location Map
- 2. Proposed Development Plan Sites for Alternative 1, North JBAB
- 3. Proposed Development Plan Sites for Alternative 1, South JBAB
- 4. Proposed Development Plan Sites for Alternative 2, North JBAB
- 5. Proposed Development Plan Sites for Alternative 2, South JBAB

**Attachment 1. JBAB Location Map** 



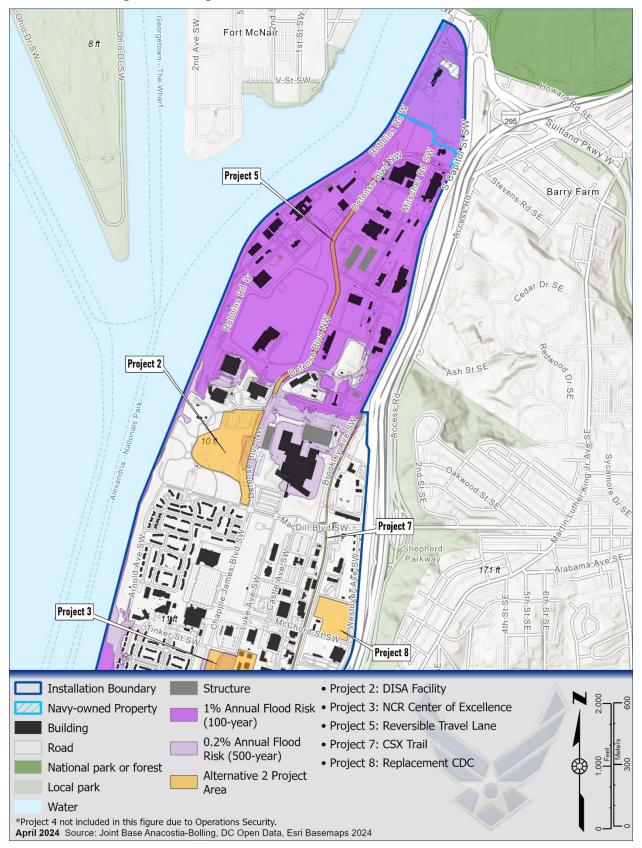
Attachment 2. Proposed Development Plan Sites for Alternative 1, North JBAB



Project 7 Project 2 Project 1 (Buildings) hepherd Project 8 Atlantic St-SW-Project 10 Chesapeake-St-SW Danbury-St-SW Project 6 Elmira-St-SW Forrester St SW Shepherd 172 ft Galveston-S Installation Boundary Structure • Project 1: Blanchard Barracks Demolition 1% Annual Flood Risk • Project 2: DISA Facility Navy-owned Property (100-year) • Project 6: Waterfront Trail Connection Building 0.2% Annual Flood • Project 7: CSX Trail Road Risk (500-year) • Project 8: Replacement CDC Local park Alternative 1 Project • Project 10: South Gate & Visitors Center Water Area \*Project 4 not included in this figure due to Operations Security. **April 2024** Source: Joint Base Anacostia-Bolling, DC Open Data, Esri Basemaps 2024

Attachment 3. Proposed Development Plan Sites for Alternative 1, South JBAB

Attachment 4. Proposed Development Plan Sites for Alternative 2, North JBAB



Project 7 Project 9 Project 1 (Buildings) Project 3 Atlantic St-SW-Project 10 Chesapeake-St-SW Danbury-St-SW Project 6 Elmira-St-SW Smith St SW Forrester St SW Shepherd 172 ft Galveston-S Installation Boundary Structure • Project 1: Blanchard Barracks Demolition 1% Annual Flood Risk • Project 3: NCR Center of Excellence Navy-owned Property (100-year) • Project 6: Waterfront Trail Connection Building 0.2% Annual Flood • Project 7: CSX Trail Road Risk (500-year) • Project 9: MDS Clinic Local park Alternative 2 Project • Project 10: South Gate & Visitors Center Water Area \*Project 4 not included in this figure due to Operations Security. **April 2024** Source: Joint Base Anacostia-Bolling, DC Open Data, Esri Basemaps 2024

Attachment 5. Proposed Development Plan Sites for Alternative 2, South JBAB

## Early Public Notice Affidavit: *The Washington Times* (June 12, 2024)

### **Affidavit of Publication**

AD # 00084545

To Wit: I hereby certify that on the 12th day of June 2024, before me, the subscriber, Shalique Jones, a notary public, that the matters of facts set forth are true. Bryanah Alexander, who being duly sworn according to law, and oath says that she is an authorized agent of The Washington Times, L.L.C., publisher of The Mashington Times Circulated daily, in the trafet (dentio advertisement, of which the annexed is a true copy, was published in said newspaper 1 time(s) on the following dates: June 12, 2024 Total Cost: \$673.20 As witness, my hand and notarial seal. Notary Public My Commission Expires Date

District of Columbia

## EARLY PUBLIC NOTICE OF A PROPOSED ACTION WITHIN FLOODPLAINS AT JOINT BASE ANACOSTIA-BOLLING

The Alf Force is preparing a programmatic Environmental Assessment (EA) to consider the potential consequences to the human and natural environment associated with the construction, infrastructure, and demolition projects identified within the Five-Year Installation Development Plan (IDP) Update at Joint Base Anacostia-Bolling (JBAB), Washington, DC. The Proposed Action is to implement ten separate projects over a five-year period (FY 2025-FY 2029) to support JBAB's future mission requirements as outlined in the IDP.

The Proposed Action is subject to the requirements and objectives of Executive Order (EO) 11988, Floodplain Management, and EO 13690, Establishing a Federal Flood Risk Management Standard and a Process for Further Soliciting and Considering Stakeholders, because construction of several of the Proposed Action projects are within the 100-year or 500-year floodplain.0

The EA will consider two action alternatives to implement the Proposed Action, as well as a No Action Alternative. The action alternatives are located on project sites throughout the installation. The proposed sites would be demolished and/or redeveloped with new structures and associated infrastructure to execute the ten projects and installation improvements.

The Air Force is seeking advance public comment on the Proposed Action to determine if there are any concerns regarding the Proposed Action's potential impacts or practicable alternatives to the proposed site locations. The Draft EA will be available for public review in the fall of 2024. Please provide written comments to NAVFAC Washington by mail at 1314 Harwood Street SE, Washington DC 20374 or by email at NAVFACWashNEPAL@navy.mil. Written comments are requested within the 30-day public comment period, therefore should be postmarked or received by 11:59 pm on July 11, 2024 to be considered in the Draft EA.

Run date: June 12th, 2024

AD#84545

## Early Public Scoping Response: National Capital Planning Commission National (July 5, 2024)

401 9th Street, NW North Lobby, Suite 500 Washington, DC 20004 Tel 202.482.7200 Fax 202.482.7272 www.ncpc.gov

IN REPLY REFER TO: NCPC FILE No. MP55

July 5, 2024

Lt Col. April H. Clemmensen Commander 11th Civil Engineer Squadron 370 Brookley Avenue SW Washington, DC, 20032

Re: JBAB Five-Year Installation Development Plan (IDP) Programmatic Environmental Assessment (PEA) Scoping Comments

Dear Commander Clemmensen:

Thank you for the opportunity to provide scoping comments on the Joint Base Anacostia-Bolling (JBAB) Five-Year Installation Development Plan, on behalf of the National Capital Planning Commission (NCPC). We understand the Air Force will develop a Programmatic Environmental Assessment (PEA) to study the potential impacts from JBAB's five-year development plan pursuant to the National Environmental Policy Act (NEPA). As the federal government's planning agency for the National Capital Region, NCPC has advisory review authority over installation projects per the National Capital Planning Act (40 U.S.C. §§ 8722 (b)(1)) and Public Law 93-166, Section 610(a). Please consider the following staff comments, which are based on policies from the *Comprehensive Plan for the National Capital* and recent Commission reviews of the JBAB Installation Development Plan (IDP), district plans, and Transportation Management Plan (TMP).

We understand the PEA will evaluate two action alternatives and a no action alternative. The action alternatives, which include different project locations, will consist of 10 separate planned projects over the next five years to include: Blanchard Barracks Demolition, Defense Information System Agency (DISA) Facility, National Capital Region Center of Excellence (COE), Electric Switch Station Reliability Improvements, Reversible Travel Lane on Defense Boulevard, Connection of Waterfront Trail to Bellevue Housing, CSX Trail, Replacement Child Development Center (CDC), Medical Squadron Clinic, and South Gate and Visitor Center.

The scoping notice shows alternative sites for the CDC, DISA, and Center of Excellence. Therefore, the PEA should describe the trade-offs between those sites, including a comparison of potential impacts, to assist in the site selection for each project. Should any selected sites vary from those indicated in the approved 2022 IDP (e.g., DISA), a modification to the IDP and respective district plan may be required in the future, and subject to NCPC review.

Further, NCPC staff encourages the Air Force to assess its future development plan using the following impact topic areas:

• Water Resources - Analyze changes in total impervious surface area, stormwater runoff, impacts to stream health, function, and water quality.

- **Flooding** Evaluate how future development (and alternative project sites) will impact the 100-and 500-year floodplains. Given the installation's proximity to the river, and the potential for flooding, this is a critical consideration.
- **Trees and Vegetation** Evaluate changes in total vegetation, tree canopy area, and number of on-site trees, as well as impacts to existing animal habitat.
- **Transportation** Analyze travel changes and parking characteristics on-site, including impacts to vehicular and pedestrian circulation.
- **Views/Visual Quality** Evaluate potential impacts to views or visual quality resulting from the future development alternatives.
- Energy and Water Use Analyze changes in energy and potable water use. Compliance with executive orders regarding sustainability, renewable energy production and others should be considered.
- **Plan Consistency** Consistency with NCPC-approved IDP and district plans should be analyzed and assessed.
- **Historic Resources** Evaluate how the development plans will impact any historic properties and/or districts on the installation.
- **Cumulative Impacts** Cumulative impacts for these resources should also be evaluated.

Staff encourages the Air Force to explore sustainable strategies and consult NCPC's Comprehensive Plan policies (some of which are listed below) when developing future project plans.

- **FE.C.5** Use pervious surfaces and bio-retention facilities, if appropriate, to reduce stormwater runoff and off-site water quality impacts.
- **FE.J.1** Reduce levels of light pollution by selecting the appropriate level of lighting to meet design needs, while minimizing excess light; designing light fixtures to eliminate upward and horizontal spillage; and designing and providing appropriate controls to operate lighting only when needed.
- **FE.I.1** Ensure that development projects reuse or recycle salvaged building and organic materials to conserve resources and divert materials from landfills and incinerators. Encourage procurements that increase the purchase and use of products containing recycled content.
- **FE.G.1** Preserve and protect existing trees, especially individual trees, stands, and forests of healthy, native, or non-invasive species. Account for existing trees early in the planning and design processes to maximize preservation and to incorporate the natural landscape into the design.
- **FE.G.2** Transplant or replace existing tree(s) when they are impacted by development and preservation is not feasible, according to the following procedures: Transplant healthy, native, or non-invasive tree(s) where practicable. Replace tree(s) when they require removal. Replacement tree(s) should increase biodiversity, be native species or non-invasive species, and have a mature canopy spread equivalent to, or greater than, the tree(s) removed. Replacement tree(s) should be planted at a minimum caliper size of 2.5-inches for shade trees, 1.5-inches for ornamental trees, and six-foot height for multi-stem and evergreen trees.
- **FE.G.4** Incorporate new trees and vegetation into plans and projects to absorb carbon dioxide, moderate temperatures, minimize energy consumption, reduce pollution, and mitigate stormwater runoff. This includes the use of vegetation in the design and development of green roof projects where feasible and consistent with local regulations.
- **FE.G.11** Support sustainable practices in federal landscape development to include, but not be limited to reduced irrigation runoff; reduced greenhouse gas emissions; use of Integrated Pest

Management practices; reduced potable water consumption and recycling of all organic matter; introduction of plants that support pollinator species.

In particular, consider lower maintenance meadow plantings with pollinator species in lieu of turfgrass; minimizing potable water use; generating solar power (with canopy rooftop panels); and using outdoor lighting that complies with International Dark-Sky Association (IDSA) standards. While we recognize DOD standards require projects to comply with Leadership in Energy and Environmental Design (LEED) Silver (or equivalent) certification, we encourage the Air Force to achieve higher LEED certification levels (Gold or Platinum) if possible, especially for larger developments such as the new DISA campus and Center of Excellence.

We appreciate the opportunity to provide these comments and look forward to reviewing the draft PEA and all future project submissions. Please consult NCPC staff for additional information regarding the project review process. The Submission Guidelines and process-related information can be found at <a href="https://www.ncpc.gov/review/guidelines/">www.ncpc.gov/review/guidelines/</a>. If you have any questions, please contact Michael Weil at (202) 482-7253, or <a href="michael.weil@ncpc.gov">michael.weil@ncpc.gov</a>.

Sincerely,

Diane Sullivan, Director

Urban Design and Plan Review Division

Diane Sullivan

#### Early Public Scoping Response: District of Columbia SHPO (July 10, 2024)

District of Columbia Office of Planning



July 10, 2024

April H. Clemmensen, Lt. Col, USAF Commander Department of the Air Force 11<sup>th</sup> Civil Engineer Squadron (AFDW) Joint Base Anacostia-Bolling, DC

ATTN: JBAB IDP EA

RE: Request for Initiation of Section 106 Consultation for Ten Proposed Projects Identified in JBAB's Five-Year Installation Development Plan Update / Environmental Assessment

#### Dear Lt. Col. Clemmensen:

The District of Columbia State Historic Preservation Officer (DC SHPO) recently received a hard copy letter informing us that the USAF is preparing an Environmental Assessment (EA) to "...evaluate potential environmental impacts associated with the construction, infrastructure, and demolition projects identified within the Five-Year Installation Development Plan (IDP) Update at JBAB." The EA will focus on projects intended for implementation over the next five (5) years.

We understand the USAF is meeting its National Environmental Policy Act (NEPA) responsibilities by inviting our comments on the EA, but the information submitted with the letter was insufficient for us to develop meaningful comments so we are requesting the USAF to provide more detailed information and formally initiate consultation pursuant to Section 106 of the National Historic Preservation Act and its implementing regulations, 36 CFR Part 800. Specifically, we are requesting the USAF to initiate Section 106 consultation on the following "ten (10) separate activities" referred to as:

- 1. Blanchard Barracks Demolition
- 2. Defense Information System Agency (DISA) Facility
- 3. National Capital Region (NCR) Center of Excellence
- 4. Electric Switch Station Reliability Improvements
- 5. Reversible Travel Land on Defense Boulevard
- 6. Connection of Waterfront Trail to Bellevue Housing
- 7. CSX Trail
- 8. Replacement Child Development Center (CDC)
- 9. Medical Squadron (MDS) Clinic; and
- 10. South Gate and Visitor Center

Over the last few years, we provided comments on several JBAB planning documents, including the IDP, but these were generally "high level" observations related to broad planning concepts rather than detailed comments on specific projects that may soon be funded.

April H. Clemmensen, Lt. Col, USAF

RE: Request for Section 106 Consultation for 10 Proposed Projects Identified in JBAB's Five-Year Installation Development Plan Update July 10, 2024

Page 2

To initiate Section 106 review, please provide detailed narrative project descriptions, information about the history of the subject buildings/sites, plans, photographs, renderings, maps, and any other information we will need to understand the project and provide meaningful responses. If any of the projects involve ground disturbance, please also identify the anticipated vertical and horizontal levels of disturbance.

Pursuant to 36 CFR 800.1(c), Section 106 consultation must be initiated "...early in the undertaking's planning, so that a broad range of alternatives may be considered during the planning process for the undertaking" so we request opportunities to comment before the proposed EA is completed.

If you should have any questions or comments regarding historic built environment resources, please contact me at <a href="mailto:andrew.lewis@dc.gov">andrew.lewis@dc.gov</a> or 202-442-8841. Questions or comments relating to archaeology should be directed to Ruth Trocolli at <a href="mailto:ruth.trocolli@dc.gov">ruth.trocolli@dc.gov</a> or 202-442-8836.

We look forward to consulting further with the USAF and all other parties to evaluate the effects of these undertakings on historic properties.

Sincerely,

Senior Historic Preservation Officer DC State Historic Preservation Office

24-0662

## **Endangered Species Act Coordination**

## U.S. Fish and Wildlife Service IPaC List of Threatened and Endangered Species (December 19, 2024)



## United States Department of the Interior



#### FISH AND WILDLIFE SERVICE

Chesapeake Bay Ecological Services Field Office 177 Admiral Cochrane Drive Annapolis, MD 21401-7307 Phone: (410) 573-4599 Fax: (410) 266-9127

In Reply Refer To: 12/19/2024 18:49:56 UTC

Project Code: 2024-0084408

Project Name: Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

#### To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

**Migratory Birds**: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see https://www.fws.gov/program/migratory-bird-permit/what-we-do.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see https://www.fws.gov/library/collections/threats-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

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Project code: 2024-0084408 12/19/2024 18:49:56 UTC

#### Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Wetlands

## **OFFICIAL SPECIES LIST**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Chesapeake Bay Ecological Services Field Office 177 Admiral Cochrane Drive Annapolis, MD 21401-7307 (410) 573-4599

#### **PROJECT SUMMARY**

Project Code: 2024-0084408

Project Name: Five-Year Installation Development Plan Update at Joint Base Anacostia-

**Bolling** 

Project Type: Military Development

Project Description: The United States Air Force is currently preparing an Environmental

Assessment (EA) under the National Environmental Policy Act (NEPA) to evaluate potential environmental impacts associated with the construction, infrastructure, and demolition projects identified within the Installation Development Plan (IDP) update at Joint Base Anacostia-Bolling (JBAB), Washington, DC. The purpose of the Proposed Action is to implement the five-year physical development plans to support JBAB's future mission requirements as outlined in the IDP. The overall purpose of the JBAB IDP is to ensure that management and development of the real property assets of the installation support the planning vision, mission readiness, and quality of life for installation residents and employees. The need for the Proposed Action is to provide the facilities and infrastructure to meet the mission requirements of the 11th Wing and its tenant units. Overall, the construction of new facilities, demolition of obsolete facilities, and implementation of infrastructure improvements (such as roads and utility lines) would address deficiencies in existing facilities and infrastructure and provide the space to accommodate future missions planned to join JBAB. The demolition of aging infrastructure would provide space for new construction and enhance or restore important viewsheds in accordance with guidance set forth by National Capital Planning Commission (NCPC). The implementation of infrastructure improvements would modernize aging electrical infrastructure and improve electrical reliability. The Proposed Action is also needed to increase vehicle and pedestrian capacity; to address increasing demand on mobility networks; and to create recreational trails to support JBAB's need for accessible, walkable development within the Housing and Community Support District. The Proposed Action includes 10 separate activities, which would occur over the five-year period Fiscal Year (FY) 2025–2029. The construction or demolition schedule for each project would vary within this time period, dependent on the timing of the design schedule, funding, and other coordination requirements. The proposed projects include: Blanchard Barracks Demolition, Defense Information System Agency (DISA) Facility, National Capital Region (NCR) Center of Excellence, Electric Switch Station Reliability Improvements, Reversible Travel Lane on Defense Blvd., Connection of Waterfront Trail to Bellevue Housing, CSX Trail, Replacement Child Development Center (CDC), Medical Squadron (MDS) Clinic, and South Gate and Visitor Center.

**Project Location:** 

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Project code: 2024-0084408 12/19/2024 18:49:56 UTC

The approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/@38.8456322,-77.01485803840251,14z">https://www.google.com/maps/@38.8456322,-77.01485803840251,14z</a>



Counties: District of Columbia County, District of Columbia

Project code: 2024-0084408 12/19/2024 18:49:56 UTC

#### **ENDANGERED SPECIES ACT SPECIES**

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

#### **MAMMALS**

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Endangered
Tricolored Bat <i>Perimyotis subflavus</i> No critical habitat has been designated for this species.  Species profile: <a href="https://ecos.fws.gov/ecp/species/10515">https://ecos.fws.gov/ecp/species/10515</a>	Proposed Endangered
INSECTS	
NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> There is <b>proposed</b> critical habitat for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	Proposed Threatened

#### **CRITICAL HABITATS**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

# USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

### **WETLANDS**

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

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#### RIVERINE

- R4SBC
- R1UBV
- R5UBFx
- R1UBVx
- R5UBH

#### FRESHWATER EMERGENT WETLAND

■ PEM1Ex

Project code: 2024-0084408 12/19/2024 18:49:56 UTC

### **IPAC USER CONTACT INFORMATION**

Agency: Air Force Name: Emily Cella

Address: 10708 Ballantraye Drive

Address Line 2: Suite 208 City: Fredericksburg

State: VA Zip: 22407

Email ecella@marstel-day.com

Phone: 5407182428

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## U.S. Fish and Wildlife Service Northern Long-eared Bat and Tricolored Bat Determination Key (December 20, 2024)



## United States Department of the Interior



#### FISH AND WILDLIFE SERVICE

Chesapeake Bay Ecological Services Field Office 177 Admiral Cochrane Drive Annapolis, MD 21401-7307 Phone: (410) 573-4599 Fax: (410) 266-9127

In Reply Refer To: 12/20/2024 01:18:26 UTC

Project code: 2024-0084408

Project Name: Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling

Federal Nexus: yes

Federal Action Agency (if applicable): Air Force

**Subject:** Technical assistance for 'Five-Year Installation Development Plan Update at Joint

Base Anacostia-Bolling'

#### Dear Emily Cella:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on December 20, 2024, for 'Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling' (here forward, Project). This project has been assigned Project Code 2024-0084408 and all future correspondence should clearly reference this number. **Please carefully review this letter. Your Endangered Species Act (Act) requirements are not complete.** 

#### **Ensuring Accurate Determinations When Using IPaC**

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project. Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key (Dkey), invalidates this letter.

#### **Determination for the Northern Long-Eared Bat and Tricolored Bat**

Based on your IPaC submission and a standing analysis completed by the Service, you determined the proposed Project will have the following effect determinations:

Species	Listing Status	Determination
Northern Long-eared Bat (Myotis septentrionalis)	Endangered	May affect
Tricolored Bat (Perimyotis subflavus)	Proposed	May affect
	Endangered	

#### Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination key for the northern long-eared bat and tricolored bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

Monarch Butterfly Danaus plexippus Proposed Threatened

You may coordinate with our Office to determine whether the Action may cause prohibited take of the species listed above.

#### Conclusion

Consultation with the Service is not complete. Further consultation or coordination with the Service is necessary for those species or designated critical habitats with a determination of "May Affect." A "May Affect" determination in this key indicates that the project, as entered, is not consistent with the questions in the key. Not all projects that reach a "May Affect" determination are anticipated to result in adverse impacts to listed species. These projects may result in a "No Effect", "May Affect, Not Likely to Adversely Affect", or "May Affect, Likely to Adversely Affect" determination depending on the details of the project. Please contact our Chesapeake Bay Ecological Services Field Office to discuss methods to avoid or minimize potential adverse effects to those species or designated critical habitats.

Federal agencies must consult with U.S. Fish and Wildlife Service under section 7(a)(2) of the Endangered Species Act (ESA) when an action *may affect* a listed species. Tricolored bat is proposed for listing as endangered under the ESA, but not yet listed. For actions that may affect a proposed species, agencies cannot consult, but they can *confer* under the authority of section 7(a) (4) of the ESA. Such conferences can follow the procedures for a consultation and be adopted as such if and when the proposed species is listed. Should the tricolored bat be listed, agencies must review projects that are not yet complete, or projects with ongoing effects within the tricolored bat range that previously received a NE or NLAA determination from the key to confirm that the determination is still accurate. Projects that receive a may affect determination for tricolored bat through the key, should contact the appropriate Ecological Services Field Office if they want to conference on this species.

#### **Action Description**

You provided to IPaC the following name and description for the subject Action.

#### 1. Name

Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling

#### 2. Description

The following description was provided for the project 'Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling':

The United States Air Force is currently preparing an Environmental Assessment (EA) under the National Environmental Policy Act (NEPA) to evaluate potential environmental impacts associated with the construction, infrastructure, and demolition projects identified within the Installation Development Plan (IDP) update at Joint Base Anacostia-Bolling (JBAB), Washington, DC. The purpose of the Proposed Action is to implement the five-year physical development plans to support JBAB's future mission requirements as outlined in the IDP. The overall purpose of the JBAB IDP is to ensure that management and development of the real property assets of the installation support the planning vision, mission readiness, and quality of life for installation residents and employees. The need for the Proposed Action is to provide the facilities and infrastructure to meet the mission requirements of the 11th Wing and its tenant units. Overall, the construction of new facilities, demolition of obsolete facilities, and implementation of infrastructure improvements (such as roads and utility lines) would address deficiencies in existing facilities and infrastructure and provide the space to accommodate future missions planned to join JBAB. The demolition of aging infrastructure would provide space for new construction and enhance or restore important viewsheds in accordance with guidance set forth by National Capital Planning Commission (NCPC). The implementation of infrastructure improvements would modernize aging electrical infrastructure and improve electrical reliability. The Proposed Action is also needed to increase vehicle and pedestrian capacity; to address increasing demand on mobility networks; and to create recreational trails to support JBAB's need for accessible, walkable development within the Housing and Community Support District. The Proposed Action includes 10 separate activities, which would occur over the five-year period Fiscal Year (FY) 2025–2029. The construction or demolition schedule for each project would vary within this time period, dependent on the timing of the design schedule, funding, and other coordination requirements. The proposed projects include: Blanchard Barracks Demolition, Defense Information System Agency (DISA) Facility, National Capital Region (NCR) Center of Excellence, Electric Switch Station Reliability Improvements, Reversible Travel Lane on Defense Blvd., Connection of Waterfront Trail to Bellevue Housing, CSX Trail, Replacement Child Development Center (CDC), Medical Squadron (MDS) Clinic, and South Gate and Visitor Center.

The approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/@38.8456322,-77.01485803840251,14z">https://www.google.com/maps/@38.8456322,-77.01485803840251,14z</a>



### **DETERMINATION KEY RESULT**

Based on the answers provided, the proposed Action is consistent with a determination of "may affect" for a least one species covered by this determination key.

#### **QUALIFICATION INTERVIEW**

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed bats or any other listed species?

**Note:** Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

No

2. Is the action area wholly within Zone 2 of the year-round active area for northern long-eared bat and/or tricolored bat?

#### Automatically answered

No

3. Does the action area intersect Zone 1 of the year-round active area for northern long-eared bat and/or tricolored bat?

#### Automatically answered

No

4. Does any component of the action involve leasing, construction or operation of wind turbines? Answer 'yes' if the activities considered are conducted with the intention of gathering survey information to inform the leasing, construction, or operation of wind turbines.

**Note:** For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

No

5. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

Yes

6. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) funding or authorizing the proposed action, in whole or in part?

No

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7. Are you an employee of the federal action agency or have you been officially designated in writing by the agency as its designated non-federal representative for the purposes of Endangered Species Act Section 7 informal consultation per 50 CFR § 402.08?

**Note:** This key may be used for federal actions and for non-federal actions to facilitate section 7 consultation and to help determine whether an incidental take permit may be needed, respectively. This question is for information purposes only.

Yes

8. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)? Is the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC) funding or authorizing the proposed action, in whole or in part?

No

- 9. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)? *No*
- 10. [Semantic] Is the action area located within 0.5 miles of a known bat hibernaculum?

**Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

#### Automatically answered

No

11. Does the action area contain any winter roosts or caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating bats?

No

12. Will the action cause effects to a bridge?

**Note:** Covered bridges should be considered as bridges in this question.

No

13. Will the action result in effects to a culvert or tunnel at any time of year?

No

14. Are trees present within 1000 feet of the action area?

**Note:** If there are trees within the action area that are of a sufficient size to be potential roosts for bats answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <a href="https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines">https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines</a>.

Yes

15. Does the action include the intentional exclusion of bats from a building or structure?

**Note:** Exclusion is conducted to deny bats' entry or reentry into a building. To be effective and to avoid harming bats, it should be done according to established standards. If your action includes bat exclusion and you are unsure whether northern long-eared bats or tricolored bats are present, answer "Yes." Answer "No" if there are no signs of bat use in the building/structure. If unsure, contact your local Ecological Services Field Office to help assess whether northern long-eared bats or tricolored bats may be present. Contact a Nuisance Wildlife Control Operator (NWCO) for help in how to exclude bats from a structure safely without causing harm to the bats (to find a NWCO certified in bat standards, search the Internet using the search term "National Wildlife Control Operators Association bats"). Also see the White-Nose Syndrome Response Team's guide for bat control in structures.

No

Project code: 2024-0084408

- 16. Does the action involve removal, modification, or maintenance of a human-made structure (barn, house, or other building) known or suspected to contain roosting bats?
  No
- 17. Will the action cause construction of one or more new roads open to the public?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

18. Will the action include or cause any construction or other activity that is reasonably certain to increase average daily traffic permanently or temporarily on one or more existing roads?

**Note:** For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

Yes

19. Will the increased vehicle traffic occur on any road that lies between any two areas of contiguous forest that are each greater than or equal to 10 acres in extent and are separated by less than 1,000 feet? Bats may cross a road by flying between forest patches that are up to 1,000 feet apart.

**Note:** "Contiguous forest" of 10 acres or more may includes areas where multiple forest patches are separated by less than 1,000 feet of non-forested area if the forested patches, added together, comprise at least 10 acres. *No* 

20. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g., leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

**Note:** For information regarding NSF/ANSI 60 please visit <a href="https://www.nsf.org/knowledge-library/nsf-ansi-standard-60-drinking-water-treatment-chemicals-health-effects">https://www.nsf.org/knowledge-library/nsf-ansi-standard-60-drinking-water-treatment-chemicals-health-effects</a>

No

21. Will the proposed action involve the creation of a new point source discharge from a facility other than a water treatment plant or storm water system?

No

22. Will the action include drilling or blasting?

Yes

23. Will the drilling or blasting produce noise or vibrations above existing background levels that will affect suitable summer habitat for northern long-eared bats and/or tricolored bats?

**Note:** Additional information defining suitable suitable summer habitat for the northern long-eared bat and/or tricolored bat, can be found in Appendix A in the USFWS' Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines

No

- 24. Will the action involve military training (e.g., smoke operations, obscurant operations, exploding munitions, artillery fire, range use, helicopter or fixed wing aircraft use)? *No*
- 25. Will the proposed action involve the use of herbicides or other pesticides other than herbicides (e.g., fungicides, insecticides, or rodenticides)?

  No.
- 26. Will the action include or cause activities that are reasonably certain to cause chronic or intense nighttime noise (above current levels of ambient noise in the area) in suitable summer habitat for the northern long-eared bat or tricolored bat during the active season?

Chronic noise is noise that is continuous or occurs repeatedly again and again for a long time. Sources of chronic or intense noise that could cause adverse effects to bats may include, but are not limited to: road traffic; trains; aircraft; industrial activities; gas compressor stations; loud music; crowds; oil and gas extraction; construction; and mining.

**Note:** Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <a href="https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines">https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines</a>.

No

27. Does the action include, or is it reasonably certain to cause, the use of permanent or temporary artificial lighting within 1000 feet of suitable northern long-eared bat or tricolored bat roosting habitat?

**Note:** Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <a href="https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines">https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines</a>.

Yes

28. Will the action cause an increase in the extent of suitable forested habitat exposed to artificial lighting?

No

29. Will the action include tree cutting or other means of knocking down or bringing down trees, tree topping, or tree trimming?

Yes

30. Will the proposed action occur exclusively in an already established and currently maintained utility right-of-way?

No

31. Does the action include emergency cutting or trimming of hazard trees in order to remove an imminent threat to human safety or property? See hazard tree note at the bottom of the key for text that will be added to response letters

**Note:** A "hazard tree" is a tree that is an immediate threat to lives, public health and safety, or improved property. *No* 

32. Does the project intersect with the 0- 9.9% forest density category?

#### Automatically answered

Yes

33. Does the project intersect with the 10.0- 19.9% forest density category map?

#### **Automatically answered**

Yes

34. Does the project intersect with the 20.0- 29.9% forest density category map?

#### Automatically answered

No

35. Does the project intersect with the 30.0- 100% forest density category map?

#### Automatically answered

No

36. Will the action cause trees to be cut, knocked down, or otherwise brought down across an area greater than 0.5 acre in total extent?

Yes

37. Does the action area intersect the northern long-eared bat species list area?

#### Automatically answered

Yes

38. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats?

#### Automatically answered

No

39. [Semantic] Is the action area located within 150 feet of a documented northern long-eared bat roost site?

**Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

#### Automatically answered

No

40. Is suitable summer habitat for the northern long-eared bat present within 1000 feet of project activities?

If unsure, answer "Yes."

**Note:** Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: <a href="https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines">https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines</a>.

Yes

41. Does the action area intersect the tricolored bat species list area?

#### Automatically answered

Yes

42. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats?

**Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

#### Automatically answered

No

43. Is suitable summer habitat for the tricolored bat present within 1000 feet of project activities?

(If unsure, answer ""Yes."")

**Note:** If there are trees within the action area that may provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (Tillandsia usneoides), clusters of dead pine needles of large live pines) answer ""Yes."" For a complete definition of suitable summer habitat for the tricolored bat, please see Appendix A in the <a href="Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines">Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines</a>.

Yes

44. Do you have any documents that you want to include with this submission?

No

12/20/2024 01:18:26 UTC

## **PROJECT QUESTIONNAIRE**

Enter the extent of the action area (in acres) from which trees will be removed - round up to the nearest tenth of an acre. For this question, include the entire area where tree removal will take place, even if some live or dead trees will be left standing.

11.1

Project code: 2024-0084408

### **IPAC USER CONTACT INFORMATION**

Agency: Air Force Name: Emily Cella

Address: 10708 Ballantraye Drive

Address Line 2: Suite 208

City: Fredericksburg

State: VA Zip: 22407

Email ecella@marstel-day.com

Phone: 5407182428

## Letter to the District Department of Energy and Environment (June 5, 2024)



# DEPARTMENT OF THE AIR FORCE 1 1TH CIVIL ENGINEER SQUADRON (AFDW) JOINT BASE ANACOSTIA-BOLLING DC

June 5, 2024

Lt Col. April H. Clemmensen Commander 11th Civil Engineer Squadron 370 Brookley Avenue SW Washington, D.C. 20032

Ms. Rese Cloyd Associate Director Department of Energy and Environment Fisheries and Wildlife Division 1200 First Street, NE Washington, DC 20002

SUBJECT: Programmatic Environmental Assessment for the Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling, Washington, DC

Dear Ms. Cloyd

The United States Air Force (USAF) is currently preparing an Environmental Assessment (EA) under the National Environmental Policy Act (NEPA) to evaluate potential environmental impacts associated with the construction, infrastructure, and demolition projects identified within the Five-Year Installation Development Plan (IDP) update at Joint Base Anacostia-Bolling (JBAB), Washington, DC. The EA will focus on the projects projected to be implemented over the next five (5) years (Fiscal Years 2025–2029). The Air Force respectfully requests information on DC species of greatest conservation need (SGCN) that may potentially exist within the study area at JBAB (see **Attachment 1**), and any general input you may have on the Proposed Action.

The purpose of the Proposed Action is to implement the five-year physical development plans to support JBAB's future mission requirements as outlined in the IDP. The National Capital Planning Commission (NCPC) reviewed and approved the IDP in 2022. The overall purpose of the JBAB IDP is to ensure that management and development of the real property assets of the installation support the planning vision, mission readiness, and quality of life for installation residents and employees. The need for the Proposed Action is to provide the facilities and infrastructure to meet the mission requirements of the 11th Wing and its tenant units. Overall, the construction of new facilities, demolition of obsolete facilities, and implementation of infrastructure improvements (such as roads and utility lines) would address deficiencies in existing facilities and infrastructure and provide the space to accommodate future missions planned to join JBAB. The demolition of aging infrastructure would provide space for new construction and enhance or restore important viewsheds in accordance with guidance set forth by NCPC. The implementation of infrastructure improvements would modernize aging electrical infrastructure and improve electrical reliability. The Proposed Action is also needed to increase vehicle and pedestrian capacity; to address increasing demand on mobility networks; and to create recreational trails to support JBAB's need for accessible, walkable development within the Housing and Community Support District.

The Proposed Action includes 10 separate activities, which would occur over the five-year period. The construction or demolition schedule for each project would vary within this time period, dependent on the timing of the design schedule, funding, and other coordination requirements. The proposed projects include: Blanchard Barracks Demolition, Defense Information System Agency (DISA) Facility, National Capital Region (NCR) Center of Excellence, Electric Switch Station Reliability Improvements, Reversible Travel Lane on Defense Blvd., Connection of Waterfront Trail to Bellevue Housing, CSX Trail, Replacement Child Development Center (CDC), Medical Squadron (MDS) Clinic, and South Gate and Visitor Center.

Much of JBAB, including land proposed for the five-year IDP projects, is within the 100-year or 500-year floodplain. In accordance with EO 11988, Floodplain Management and EO 13690, Establishing a Federal Flood Risk Management Standard and a Process for Further Soliciting and Considering Stakeholders, federal agencies must notify the public and solicit comments on actions impacting floodplains. Further, federal agencies must implement more rigid floodplain definitions for planning purposes, either using the 500-year floodplain for facility planning or elevated floodplain contours 2-3 feet above base flood elevation projections. This letter serves to initiate early stakeholder engagement for a Proposed Action within a floodplain. If the Air Force finds that there is no practicable alternative to constructing the Proposed Action within the floodplain, a Finding of No Practicable Alternative (FONPA) would be prepared with the Finding of No Significant Impact, if appropriate.

As part of the NEPA process, the Air Force is considering reasonable alternatives to implement the Proposed Action. Two action alternatives will be analyzed within the EA, in addition to a No Action Alternative. Under Alternative 1, JBAB would implement the 10 proposed projects at the sites shown on Attachments 2 and 3. Under Alternative 2, JBAB would implement the 10 proposed projects at the sites shown on Attachments 4 and 5. The effects of a No Action Alternative will be analyzed as a baseline for measuring the environmental consequences of the action alternatives.

During the EA process, the Air Force will determine whether the Proposed Action would have adverse impacts on any fish or wildlife resources considered SGCN in DC. The Air Force respectfully requests your written comments and other input on the Proposed Action within the 30-day public comment period. Comments must be emailed or postmarked by 11:59 pm on July 11, 2024 to be considered during preparation of the Draft EA. Comments can be submitted via email to NAVFACWashNEPAl@navy.mil. Please include ATTN: JBAB IDP EA in the subject line. Comments may also be submitted via mail to NAVFAC Washington at 1314 Harwood Street SE, Washington, DC 20374.

When completed, the Draft EA will be provided to your office for review and comment. If you have any questions or require additional information, please contact Nicole Tompkins-Flagg via the email listed above or telephone at (202) 355-2084.

Sincerely.

APRIL H. CLEMMENSEN, Lt Col, USAF

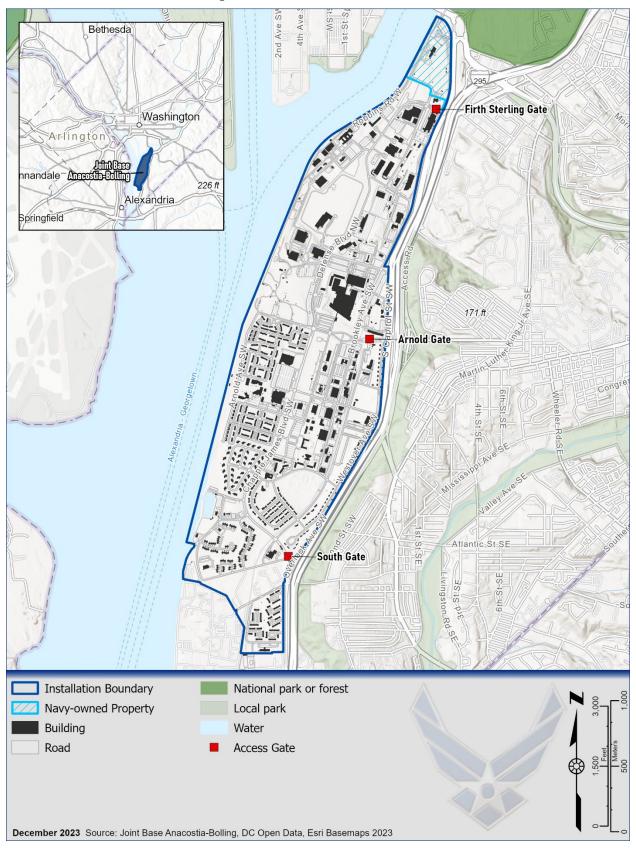
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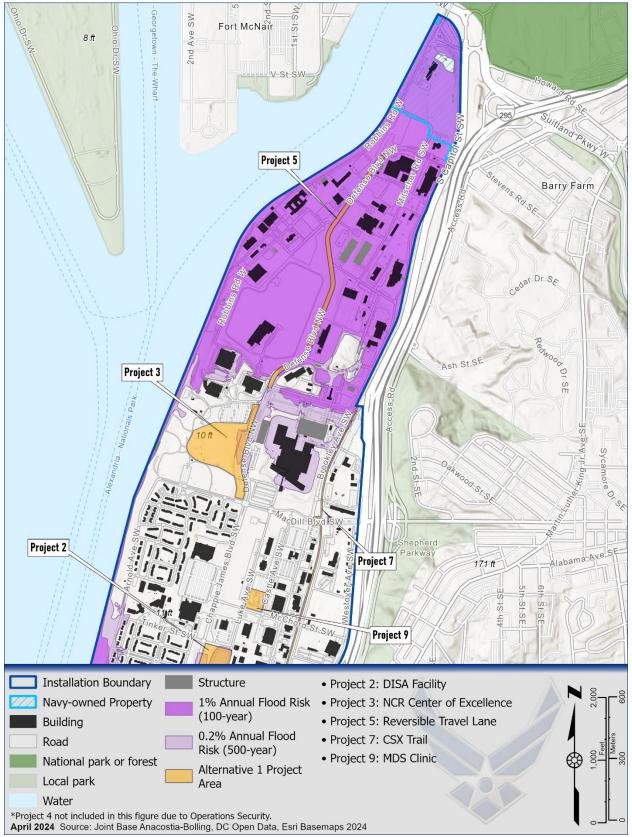
#### Attachments:

- 1. JBAB Location Map
- 2. Proposed Development Plan Sites for Alternative 1, North JBAB
- 3. Proposed Development Plan Sites for Alternative 1, South JBAB
- 4. Proposed Development Plan Sites for Alternative 2, North JBAB
- 5. Proposed Development Plan Sites for Alternative 2, South JBAB

**Attachment 1. JBAB Location Map** 



Attachment 2. Proposed Development Plan Sites for Alternative 1, North JBAB



Galveston-S

Project 7 Project 2 Project 1 (Buildings) hepherd Project 8 Atlantic St-SW-Project 10 Chesapeake-St-SW Danbury-St-SW Project 6 Elmira-St-SW Smith St SW Forrester St SW Shepherd 172 ft

Attachment 3. Proposed Development Plan Sites for Alternative 1, South JBAB

1% Annual Flood Risk • Project 2: DISA Facility

• Project 1: Blanchard Barracks Demolition

• Project 6: Waterfront Trail Connection

• Project 10: South Gate & Visitors Center

• Project 7: CSX Trail

• Project 8: Replacement CDC

Installation Boundary

Navy-owned Property

Building

Local park

Road

Water

Structure

(100-year)

Area

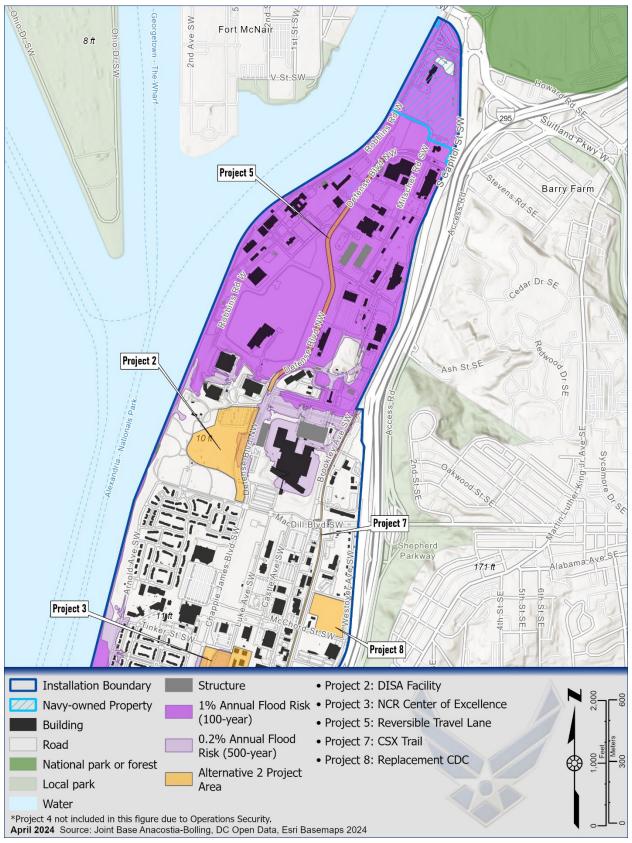
\*Project 4 not included in this figure due to Operations Security. **April 2024** Source: Joint Base Anacostia-Bolling, DC Open Data, Esri Basemaps 2024

0.2% Annual Flood

Alternative 1 Project

Risk (500-year)

Attachment 4. Proposed Development Plan Sites for Alternative 2, North JBAB



Galveston-S

Project 7 Project 9 Project 1 (Buildings) Project 3 Atlantic St-SW-Project 10 Chesapeake-St-SW Danbury-St-SW Project 6 Elmira-St-SW Smith St SW Forrester St SW Shepherd 172 ft

Attachment 5. Proposed Development Plan Sites for Alternative 2, South JBAB

• Project 1: Blanchard Barracks Demolition

• Project 6: Waterfront Trail Connection

• Project 10: South Gate & Visitors Center

1% Annual Flood Risk • Project 3: NCR Center of Excellence

• Project 7: CSX Trail

• Project 9: MDS Clinic

Installation Boundary

Navy-owned Property

Building

Local park

Road

Water

Structure

(100-year)

Area

\*Project 4 not included in this figure due to Operations Security. **April 2024** Source: Joint Base Anacostia-Bolling, DC Open Data, Esri Basemaps 2024

0.2% Annual Flood

Alternative 2 Project

Risk (500-year)

#### Department of Energy and Environment SGCN Response (July 9, 2024)

#### GOVERNMENT OF THE DISTRICT OF COLUMBIA

Department of Energy and Environment

Lt Col. April H. Clemmensen Commander 11<sup>th</sup> Civil Engineer Squadron 370 Brookley Avenue SW Washington, DC 20032

RE: Programmatic Environmental Assessment for the Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling, Washington, DC

July 9, 2024

Dear Lt Col. Clemmensen,

The Department of Energy and Environment Fisheries & Wildlife Division (the Department) has reviewed the **Department of the Air Force** request for information regarding the presence of species of greatest conservation need on the **grounds of Joint Base Anacostia-Bolling**, **Washington**, **DC**.

The Department does not have biological survey records from within the project area. Department biological surveys and iNaturalist research-grade observations from nearby locations indicate that the following SGCN may be present within or around the project area:

- Northern red-bellied cooter Pseudemys rubriventris
- Alewife floater Utterbackiana implicata
- Painted turtle Chrysemys picta
- Eastern box turtle Terrapene carolina
- Eastern cottontail Sylvilagus floridanus
- Monarch Danaus plexippus
- Dekay's brownsnake Storeria dekayi
- Wood duck Aix sponsa
- Brown thrasher Toxostoma rufum
- Black-and-white warbler Mniotilta varia
- Virginia opossum Didelphis virginiana
- Eastern chipmunk Tamias striatus
- Gray treefrog Hyla versicolor
- Marsh wren Cistothorus palustris
- Tricolored bat Perimyotis subflavus (IUCN Vulnerable, ESA Proposed Endangered (PE) as of 9/14/22)
- Northern long-eared bat Myotis septentrionalis (IUCN Near Threatened, ESA Endangered)

Additional SGCN species may be present, including migratory bird species. The Department suggests conducting biological monitoring before and during projects and Department biologists may be available for consultation about plans for such monitoring.





Due to the potential presence of threatened or endangered bats within the adjoining area of Shepherd Parkway, **time-of-year restrictions may be warranted for some of the projects**, particularly Project 8 for Alternative 2, North JBAB, and Project 10 for Alternatives 1 and 2, South JBAB.

Please be advised that this response is not an assessment of environmental, human, or economic impacts. It does not address common species afforded Federal protections (e.g., migratory birds), nor species or habitats that may be considered important or valuable. Unless otherwise permitted by law, all District of Columbia and federal laws pertaining to fish and wildlife shall remain in effect for the duration of the project.

This correspondence in no way circumvents or nullifies any other permits or processes that may be required in connection with this project. For more information, please contact me by phone at (202) 997-9607 or by email at rese.cloyd@dc.gov.

Sincerely,

Rese Cloyd

Rese Cloyd, Associate Director Fisheries and Wildlife Division

1

2

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### Appendix C Air Conformity Applicability Model Record of Air Analysis and Detail Report

Appendix C C-1 February 2025

**1. General Information:** The Air Force's Air Conformity Applicability Model (ACAM) was used to perform a net change in emissions analysis to assess the potential air quality impact/s associated with the action. The analysis was performed in accordance with the Air Force Manual 32-7002, *Environmental Compliance and Pollution Prevention*; the *Environmental Impact Analysis Process* (EIAP, 32 CFR 989); the *General Conformity Rule* (GCR, 40 CFR 93 Subpart B); and the *USAF Air Quality Environmental Impact Analysis Process* (EIAP) *Guide*. This report provides a summary of the ACAM analysis.

Report generated with ACAM version: 5.0.23a

a. Action Location:

Base: BOLLING AFB
State: District of Columbia
County(s): Entire District

**Regulatory Area(s):** Washington, DC-MD-VA

**b. Action Title:** Programmatic Environmental Assessment - Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling, Washington, DC

c. Project Number/s (if applicable): Project 1 - Blanchard Barracks Demolition

d. Projected Action Start Date: 1 / 2025

e. Action Description:

Project 1 - Blanchard Barracks Demolition

This project is to demolish the Blanchard Barracks and three adjacent buildings (Buildings 3618, 3621, and 1301). In total, the demolition would be approximately 309,128 square feet (SF) over 20 acres, covering four buildings.

Blanchard Barracks, first built in the 1970s, contains environmental concerns such as asbestos-containing materials (ACM), mold, and lead-based paint that make renovation of the building prohibitive. In addition, the barracks do not meet Americans with Disabilities Act (ADA) guidelines for accessibility. The barracks are not habitable and are currently vacant. This demolition would enhance/restore important viewsheds in accordance with guidance set forth by NCPC.

- 309,128 SF demolition (4 buildings)

f. Point of Contact:

Name: Paul Sanford

**Title:** Environmental Planner

**Organization:** AECOM

Email: paul.sanford@aecom.com

**Phone Number:** 813-675-6843

**2. Analysis:** Total reasonably foreseeable net change in direct and indirect emissions associated with the action were estimated through ACAM on a calendar-year basis for the "worst-case" (highest annual emissions) and "steady state" (no net gain/loss in emission stabilized and the action is fully implemented) emissions. General Conformity under the Clean Air Act, Section 1.76 has been evaluated for the action described above according to the requirements of 40 CFR 93, Subpart B.

All emissions estimates were derived from various sources using the methods, algorithms, and emission factors from the most current Air Emissions Guide for Air Force Stationary Sources, Air Emissions Guide for Air Force Mobile

Sources, and/or Air Emissions	Guide for Air Force	Transitory Sources.	For greater details of	this analysis, refer to
the Detail ACAM Report.				

	applicable
X	not applicable

#### **Conformity Analysis Summary:**

### 2025

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA			
VOC	0.021	50	No
NOx	0.312	100	No
CO	0.233		
SOx	0.000		
PM 10	1.955		
PM 2.5	0.007		
Pb	0.000		
NH3	0.006	·	

2026 - (Steady State)

2020 - (Steady State)				
Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY		
		Threshold (ton/yr)	Exceedance (Yes or No)	
Washington, DC-MD-VA				
VOC	0.000	50	No	
NOx	0.000	100	No	
CO	0.000			
SOx	0.000			
PM 10	0.000			
PM 2.5	0.000			
Pb	0.000			
NH3	0.000			

The Criteria Pollutants (or their precursors) with a General Conformity threshold listed in the table above are pollutants within one or more designated nonattainment or maintenance area/s for the associated National Ambient Air Quality Standard (NAAQS). These pollutants are driving this GCR Applicability Analysis. Pollutants exceeding the GCR thresholds must be further evaluated potentially through a GCR Determination.

The pollutants without a General Conformity threshold are pollutants only within areas designated attainment for the associated NAAQS. These pollutants have an insignificance indicator for VOC, NOx, CO, SOx, PM 10, PM 2.5, and NH3 of 250 ton/yr (Prevention of Significant Deterioration major source threshold) and 25 ton/yr for Pb (GCR de minimis value). Pollutants below their insignificance indicators are at rates so insignificant that they will not cause or contribute to an exceedance of one or more NAAQSs. These indicators do not define a significant impact; however, they do provide a threshold to identify actions that are insignificant. Refer to the *Level II*, *Air Quality Quantitative Assessment Insignificance Indicators* for further details.

None of the annual net change in estimated emissions associated with this action are above the GCR threshold values established at 40 CFR 93.153 (b); therefore, the proposed Action has an insignificant impact on Air Quality and a General Conformity Determination is not applicable.

Paul Sanford, Environmental Planner	May 04 2024
Name Title	Date

**1. General Information:** The Air Force's Air Conformity Applicability Model (ACAM) was used to perform a net change in emissions analysis to assess the potential air quality impact/s associated with the action. The analysis was performed in accordance with the Air Force Manual 32-7002, *Environmental Compliance and Pollution Prevention*; the *Environmental Impact Analysis Process* (EIAP, 32 CFR 989); the *General Conformity Rule* (GCR, 40 CFR 93 Subpart B); and the *USAF Air Quality Environmental Impact Analysis Process (EIAP) Guide*. This report provides a summary of the ACAM analysis.

Report generated with ACAM version: 5.0.23a

a. Action Location:

Base: BOLLING AFB
State: District of Columbia
County(s): Entire District

Regulatory Area(s): Washington, DC-MD-VA

- **b. Action Title:** Programmatic Environmental Assessment Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling, Washington, DC
- **c. Project Number/s (if applicable):** Project 2A Defense Information System Agency (DISA) Facility (Project 2, Alternative 1)
- d. Projected Action Start Date: 1 / 2029
- e. Action Description:

Project 2A - Defense Information System Agency (DISA) Facility (Project 2, Alternative 1)

Construct DISA at location of demolition performed under Project 1

Under this project, a facility to support a mission partner, DISA, would be constructed. The facility would be composed of a 5- story main building (with a footprint of 132,034 SF), a central utility plant/service building (8,100 SF), a gatehouse (1,400 SF), and a 3-story parking deck (with a footprint of 145,722 SF). The parking deck would meet the NCPC parking ratio cap of one parking space for every three employees.

This project would accommodate an expanding service mission and growing workforce at JBAB. There would not be an increase in personnel at JBAB anticipated with this project.

- Construct 5-story main building (132,034 SF footprint Conservative Estimate)
- Construct central utility plant/service building (8,100 SF)
- Construct 3-story parking deck (with a footprint of 145,722 SF)
- Construct gatehouse (1,400 SF)
- Install heating for all new facilities
- Install emergency generator for each new facility, except parking (3 total)

### f. Point of Contact:

Name: Paul Sanford

**Title:** Environmental Planner

**Organization:** AECOM

Email: paul.sanford@aecom.com

**Phone Number:** 813-675-6843

**2. Analysis:** Total reasonably foreseeable net change in direct and indirect emissions associated with the action were estimated through ACAM on a calendar-year basis for the "worst-case" (highest annual emissions) and "steady state" (no net gain/loss in emission stabilized and the action is fully implemented) emissions. General Conformity under the Clean Air Act, Section 1.76 has been evaluated for the action described above according to the requirements of 40 CFR 93, Subpart B.

All emissions estimates were derived from various sources using the methods, algorithms, and emission factors from the most current *Air Emissions Guide for Air Force Stationary Sources*, *Air Emissions Guide for Air Force Mobile Sources*, and/or *Air Emissions Guide for Air Force Transitory Sources*. For greater details of this analysis, refer to the Detail ACAM Report.

	applicable
X	not applicable

### **Conformity Analysis Summary:**

### 2029

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA			
VOC	13.013	50	No
NOx	1.689	100	No
CO	1.975		
SOx	0.004		
PM 10	4.790		
PM 2.5	0.037		
Pb	0.000		
NH3	0.025		

### 2030

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA			
VOC	0.241	50	No
NOx	4.145	100	No
CO	3.470		
SOx	0.039		
PM 10	0.325		
PM 2.5	0.325		
Pb	0.000	·	
NH3	0.000	·	

2031 - (Steady State)

2001 (State) State)				
Pollutant	Action Emissions (ton/yr)	GENERAL C	ONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)	
Washington, DC-MD-VA				
VOC	0.241	50	No	
NOx	4.145	100	No	
CO	3.470			
SOx	0.039			
PM 10	0.325			
PM 2.5	0.325			
Pb	0.000			

NH3 0.000		
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The Criteria Pollutants (or their precursors) with a General Conformity threshold listed in the table above are pollutants within one or more designated nonattainment or maintenance area/s for the associated National Ambient Air Quality Standard (NAAQS). These pollutants are driving this GCR Applicability Analysis. Pollutants exceeding the GCR thresholds must be further evaluated potentially through a GCR Determination.

The pollutants without a General Conformity threshold are pollutants only within areas designated attainment for the associated NAAQS. These pollutants have an insignificance indicator for VOC, NOx, CO, SOx, PM 10, PM 2.5, and NH3 of 250 ton/yr (Prevention of Significant Deterioration major source threshold) and 25 ton/yr for Pb (GCR de minimis value). Pollutants below their insignificance indicators are at rates so insignificant that they will not cause or contribute to an exceedance of one or more NAAQSs. These indicators do not define a significant impact; however, they do provide a threshold to identify actions that are insignificant. Refer to the *Level II, Air Quality Quantitative Assessment Insignificance Indicators* for further details.

None of the annual net change in estimated emissions associated with this action are above the GCR threshold values established at 40 CFR 93.153 (b); therefore, the proposed Action has an insignificant impact on Air Quality and a General Conformity Determination is not applicable.

Paul Sanford, Environmental Planner

Feb 17 2025

Name, Title

**1. General Information:** The Air Force's Air Conformity Applicability Model (ACAM) was used to perform a net change in emissions analysis to assess the potential air quality impact/s associated with the action. The analysis was performed in accordance with the Air Force Manual 32-7002, *Environmental Compliance and Pollution Prevention*; the *Environmental Impact Analysis Process* (EIAP, 32 CFR 989); the *General Conformity Rule* (GCR, 40 CFR 93 Subpart B); and the *USAF Air Quality Environmental Impact Analysis Process (EIAP) Guide*. This report provides a summary of the ACAM analysis.

Report generated with ACAM version: 5.0.23a

a. Action Location:

Base: BOLLING AFB
State: District of Columbia
County(s): Entire District

Regulatory Area(s): Washington, DC-MD-VA

**b.** Action Title: Programmatic Environmental Assessment - Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling, Washington, DC

c. Project Number/s (if applicable): Project 2B - Defense Information System Agency (DISA) Facility (Project

2, Alternative 2)

d. Projected Action Start Date: 1 / 2029

e. Action Description:

Project 2B - Defense Information System Agency (DISA) Facility (Project 2, Alternative 2)

Construct DISA facility on a portion of Giesboro Park, west of Chappie James Blvd

Under this project, a facility to support a mission partner, DISA, would be constructed. The facility would be composed of a 5- story main building (with a footprint of 132,034 SF), a central utility plant/service building (8,100 SF), a gatehouse (1,400 SF), and a 3-story parking deck (with a footprint of 145,722 SF). The parking deck would meet the NCPC parking ratio cap of one parking space for every three employees.

This project would accommodate an expanding service mission and growing workforce at JBAB. There would not be an increase in personnel at JBAB anticipated with this project.

- Construct 5-story main building (132,034 SF footprint Conservative Estimate)
- Construct central utility plant/service building (8,100 SF)
- Construct 3-story parking deck (with a footprint of 145,722 SF)
- Construct gatehouse (1,400 SF)
- Install heating for all new facilities
- Install emergency generator for each new facility, except parking (3 total)

### f. Point of Contact:

Name: Paul Sanford

**Title:** Environmental Planner

**Organization:** AECOM

Email: paul.sanford@aecom.com

**Phone Number:** 813-675-6843

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	applicable
_X	not applicable

### **Conformity Analysis Summary:**

### 2029

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		Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA			
VOC	13.013	50	No
NOx	1.689	100	No
CO	1.975		
SOx	0.004		
PM 10	4.790		
PM 2.5	0.037		
Pb	0.000		
NH3	0.025		

### 2030

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY		
		Threshold (ton/yr)	Exceedance (Yes or No)	
Washington, DC-MD-VA				
VOC	0.241	50	No	
NOx	4.145	100	No	
CO	3.470			
SOx	0.039			
PM 10	0.325			
PM 2.5	0.325			
Pb	0.000			
NH3	0.000			

2031 - (Steady State)

2001 (Steady State)				
Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY		
		Threshold (ton/yr)	Exceedance (Yes or No)	
Washington, DC-MD-VA				
VOC	0.241	50	No	
NOx	4.145	100	No	
CO	3.470			
SOx	0.039			
PM 10	0.325			
PM 2.5	0.325			
Pb	0.000			

NH3 0.000		
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Paul Sanford, Environmental Planner

Feb 17 2025

Name, Title

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Report generated with ACAM version: 5.0.23a

a. Action Location:

Base: BOLLING AFB
State: District of Columbia
County(s): Entire District

**Regulatory Area(s):** Washington, DC-MD-VA

**b. Action Title:** Programmatic Environmental Assessment - Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling, Washington, DC

c. Project Number/s (if applicable): Project 3A - National Capital Region (NCR) Center of Excellence (Project

3, Alternative 1)

d. Projected Action Start Date: 1 / 2029

e. Action Description:

Project 3A - National Capital Region (NCR) Center of Excellence (Project 3, Alternative 1)

Alternative location: On a portion of Giesboro Park west of Chappie James Blvd

Construct a new, 3-story facility (with a footprint of 155,077 SF) to consolidate 11th Wing headquarter missions and other Air Force NCR-based missions, to accommodate the existing 865 NCR personnel on JBAB and an anticipated 2,165 new employees. Construct associated 3-story parking garage with a footprint of 134,173 SF to provide one parking space for every three employees.

- Construct 155,077 SF NCR facility
- Construct 3-story parking garage with 134,173-SF footprint
- Install one emergency generator
- Install space heating for NCR facility
- Add 2,165 new personnel

#### f. Point of Contact:

Name: Paul Sanford

**Title:** Environmental Planner

**Organization:** AECOM

Email: paul.sanford@aecom.com

**Phone Number:** 813-675-6843

**2. Analysis:** Total reasonably foreseeable net change in direct and indirect emissions associated with the action were estimated through ACAM on a calendar-year basis for the "worst-case" (highest annual emissions) and "steady state" (no net gain/loss in emission stabilized and the action is fully implemented) emissions. General Conformity under the Clean Air Act, Section 1.76 has been evaluated for the action described above according to the requirements of 40 CFR 93, Subpart B.

All emissions estimates were derived from various sources using the methods, algorithms, and emission factors from the most current *Air Emissions Guide for Air Force Stationary Sources*, *Air Emissions Guide for Air Force Mobile Sources*, and/or *Air Emissions Guide for Air Force Transitory Sources*. For greater details of this analysis, refer to the Detail ACAM Report.

	applicable
X	not applicable

### **Conformity Analysis Summary:**

### 2029

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY		
		Threshold (ton/yr)	Exceedance (Yes or No)	
Washington, DC-MD-VA				
VOC	10.234	50	No	
NOx	1.612	100	No	
CO	1.916			
SOx	0.004			
PM 10	4.821			
PM 2.5	0.036			
Pb	0.000	·		
NH3	0.022	·	_	

### 2030

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY		
		Threshold (ton/yr)	Exceedance (Yes or No)	
Washington, DC-MD-VA				
VOC	2.812	50	No	
NOx	2.981	100	No	
CO	36.091			
SOx	0.041			
PM 10	0.211			
PM 2.5	0.204			
Pb	0.000			
NH3	0.526			

### 2031 - (Steady State)

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY		
		Threshold (ton/yr)	Exceedance (Yes or No)	
Washington, DC-MD-VA				
VOC	2.812	50	No	
NOx	2.981	100	No	
CO	36.091			
SOx	0.041			
PM 10	0.211			
PM 2.5	0.204			
Pb	0.000			
NH3	0.526			

The Criteria Pollutants (or their precursors) with a General Conformity threshold listed in the table above are pollutants within one or more designated nonattainment or maintenance area/s for the associated National Ambient

Air Quality Standard (NAAQS). These pollutants are driving this GCR Applicability Analysis. Pollutants exceeding the GCR thresholds must be further evaluated potentially through a GCR Determination.

The pollutants without a General Conformity threshold are pollutants only within areas designated attainment for the associated NAAQS. These pollutants have an insignificance indicator for VOC, NOx, CO, SOx, PM 10, PM 2.5, and NH3 of 250 ton/yr (Prevention of Significant Deterioration major source threshold) and 25 ton/yr for Pb (GCR de minimis value). Pollutants below their insignificance indicators are at rates so insignificant that they will not cause or contribute to an exceedance of one or more NAAQSs. These indicators do not define a significant impact; however, they do provide a threshold to identify actions that are insignificant. Refer to the *Level II*, *Air Quality Quantitative Assessment Insignificance Indicators* for further details.

None of the annual net change in estimated emissions associated with this action are above the GCR threshold values established at 40 CFR 93.153 (b); therefore, the proposed Action has an insignificant impact on Air Quality and a General Conformity Determination is not applicable.

Paul Sanford, Environmental Planner

May 05 2024

Name, Title

**1. General Information:** The Air Force's Air Conformity Applicability Model (ACAM) was used to perform a net change in emissions analysis to assess the potential air quality impact/s associated with the action. The analysis was performed in accordance with the Air Force Manual 32-7002, *Environmental Compliance and Pollution Prevention*; the *Environmental Impact Analysis Process* (EIAP, 32 CFR 989); the *General Conformity Rule* (GCR, 40 CFR 93 Subpart B); and the *USAF Air Quality Environmental Impact Analysis Process* (EIAP) *Guide*. This report provides a summary of the ACAM analysis.

Report generated with ACAM version: 5.0.23a

a. Action Location:

Base: BOLLING AFB
State: District of Columbia
County(s): Entire District

**Regulatory Area(s):** Washington, DC-MD-VA

**b. Action Title:** Programmatic Environmental Assessment - Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling, Washington, DC

c. Project Number/s (if applicable): Project 3B - National Capital Region (NCR) Center of Excellence (Project

3, Alternative 2)

**d. Projected Action Start Date:** 1 / 2029

e. Action Description:

Project 3B - National Capital Region (NCR) Center of Excellence (Project 3, Alternative 2)

Alternative location: Former Blanchard Barracks after demolition accomplished with Project 1

Construct a new, 3-story facility (with a footprint of 155,077 SF) to consolidate 11th Wing headquarter missions and other Air Force NCR-based missions, to accommodate the existing 865 NCR personnel on JBAB and an anticipated 2,165 new employees. Construct associated 3-story parking garage with a footprint of 134,173 SF to provide one parking space for every three employees.

Four additional buildings on JBAB would be demolished to accommodate the buildings at this location: B1303, B1304, B1305, and B1306.

- Demolish B1303 (9,300 SF), B1304 (10,760 SF), B1305 (6,400 SF), and B1306 (6,400 SF) 32,860 SF total
- Construct 155,077 SF NCR facility
- Construct 3-story parking garage with 134,173-SF footprint
- Install one emergency generator
- Install space heating for NCR facility
- Add 2,165 new personnel

### f. Point of Contact:

Name: Paul Sanford

**Title:** Environmental Planner

**Organization:** AECOM

Email: paul.sanford@aecom.com

**Phone Number:** 813-675-6843

**2. Analysis:** Total reasonably foreseeable net change in direct and indirect emissions associated with the action were estimated through ACAM on a calendar-year basis for the "worst-case" (highest annual emissions) and "steady

state" (no net gain/loss in emission stabilized and the action is fully implemented) emissions. General Conformity under the Clean Air Act, Section 1.76 has been evaluated for the action described above according to the requirements of 40 CFR 93, Subpart B.

All emissions estimates were derived from various sources using the methods, algorithms, and emission factors from the most current *Air Emissions Guide for Air Force Stationary Sources*, *Air Emissions Guide for Air Force Mobile Sources*, and/or *Air Emissions Guide for Air Force Transitory Sources*. For greater details of this analysis, refer to the Detail ACAM Report.

	applicable
X	not applicable

### **Conformity Analysis Summary:**

### 2029

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY		
		Threshold (ton/yr)	Exceedance (Yes or No)	
Washington, DC-MD-VA				
VOC	10.235	50	No	
NOx	1.614	100	No	
CO	1.930			
SOx	0.004			
PM 10	4.959			
PM 2.5	0.036			
Pb	0.000	·		
NH3	0.022			

### 2030

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY		
		Threshold (ton/yr)	Exceedance (Yes or No)	
Washington, DC-MD-VA				
VOC	2.812	50	No	
NOx	2.981	100	No	
CO	36.091			
SOx	0.041			
PM 10	0.211			
PM 2.5	0.204			
Pb	0.000			
NH3	0.526			

### 2031 - (Steady State)

2031 - (Steauy State)				
Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY		
		Threshold (ton/yr)	Exceedance (Yes or No)	
Washington, DC-MD-VA				
VOC	2.812	50	No	
NOx	2.981	100	No	
CO	36.091			
SOx	0.041			
PM 10	0.211			
PM 2.5	0.204			
Pb	0.000			
NH3	0.526			

The Criteria Pollutants (or their precursors) with a General Conformity threshold listed in the table above are pollutants within one or more designated nonattainment or maintenance area/s for the associated National Ambient Air Quality Standard (NAAQS). These pollutants are driving this GCR Applicability Analysis. Pollutants exceeding the GCR thresholds must be further evaluated potentially through a GCR Determination.

The pollutants without a General Conformity threshold are pollutants only within areas designated attainment for the associated NAAQS. These pollutants have an insignificance indicator for VOC, NOx, CO, SOx, PM 10, PM 2.5, and NH3 of 250 ton/yr (Prevention of Significant Deterioration major source threshold) and 25 ton/yr for Pb (GCR de minimis value). Pollutants below their insignificance indicators are at rates so insignificant that they will not cause or contribute to an exceedance of one or more NAAQSs. These indicators do not define a significant impact; however, they do provide a threshold to identify actions that are insignificant. Refer to the *Level II*, *Air Quality Quantitative Assessment Insignificance Indicators* for further details.

None of the annual net change in estimated emissions associated with this action are above the GCR threshold values established at 40 CFR 93.153 (b); therefore, the proposed Action has an insignificant impact on Air Quality and a General Conformity Determination is not applicable.

Paul Sanford, Environmental Planner

May 05 2024

Name, Title

**1. General Information:** The Air Force's Air Conformity Applicability Model (ACAM) was used to perform a net change in emissions analysis to assess the potential air quality impact/s associated with the action. The analysis was performed in accordance with the Air Force Manual 32-7002, *Environmental Compliance and Pollution Prevention*; the *Environmental Impact Analysis Process* (EIAP, 32 CFR 989); the *General Conformity Rule* (GCR, 40 CFR 93 Subpart B); and the *USAF Air Quality Environmental Impact Analysis Process* (EIAP) *Guide.* This report provides a summary of the ACAM analysis.

Report generated with ACAM version: 5.0.23a

a. Action Location:

**Base:** BOLLING AFB **State:** District of Columbia **County(s):** Entire District

**Regulatory Area(s):** Washington, DC-MD-VA

**b. Action Title:** Programmatic Environmental Assessment - Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling, Washington, DC

c. Project Number/s (if applicable): Project 4 - Electric Switch Station Reliability Improvements

**d. Projected Action Start Date:** 1 / 2027

e. Action Description:

Project 4 - Electric Switch Station Reliability Improvements

Modernize aging electrical infrastructure on JBAB, which would improve electrical reliability on the installation. A new electrical substation would replace some or all components of two electrical switch stations and create a new tie line between the two switch stations.

Both alternatives would construct substation at same location and tie into same location, using different utility corridors. Both alternatives are materially the same.

- Construct substation (25,600 SF)
- Associated grading, excavation work
- f. Point of Contact:

Name: Paul Sanford

Title: Environmental Planner

**Organization:** AECOM

Email: paul.sanford@aecom.com

**Phone Number:** 813-675-6843

**2. Analysis:** Total reasonably foreseeable net change in direct and indirect emissions associated with the action were estimated through ACAM on a calendar-year basis for the "worst-case" (highest annual emissions) and "steady state" (no net gain/loss in emission stabilized and the action is fully implemented) emissions. General Conformity under the Clean Air Act, Section 1.76 has been evaluated for the action described above according to the requirements of 40 CFR 93, Subpart B.

All emissions estimates were derived from various sources using the methods, algorithms, and emission factors from the most current *Air Emissions Guide for Air Force Stationary Sources*, *Air Emissions Guide for Air Force Mobile* 

Sources, and/or Air Emissions	Guide for Air Force	Transitory Sources.	For greater details of	f this analysis, refe	r to
the Detail ACAM Report.					

	applicable
X	not applicable

### **Conformity Analysis Summary:**

### 2027

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA			
VOC	0.345	50	No
NOx	0.424	100	No
CO	0.546		
SOx	0.001		
PM 10	0.204		
PM 2.5	0.012		
Pb	0.000		
NH3	0.003	·	

2028 - (Steady State)

2020 - (Steady State)			
Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA			
VOC	0.000	50	No
NOx	0.000	100	No
CO	0.000		
SOx	0.000		
PM 10	0.000		
PM 2.5	0.000		
Pb	0.000		
NH3	0.000		

The Criteria Pollutants (or their precursors) with a General Conformity threshold listed in the table above are pollutants within one or more designated nonattainment or maintenance area/s for the associated National Ambient Air Quality Standard (NAAQS). These pollutants are driving this GCR Applicability Analysis. Pollutants exceeding the GCR thresholds must be further evaluated potentially through a GCR Determination.

The pollutants without a General Conformity threshold are pollutants only within areas designated attainment for the associated NAAQS. These pollutants have an insignificance indicator for VOC, NOx, CO, SOx, PM 10, PM 2.5, and NH3 of 250 ton/yr (Prevention of Significant Deterioration major source threshold) and 25 ton/yr for Pb (GCR de minimis value). Pollutants below their insignificance indicators are at rates so insignificant that they will not cause or contribute to an exceedance of one or more NAAQSs. These indicators do not define a significant impact; however, they do provide a threshold to identify actions that are insignificant. Refer to the *Level II*, *Air Quality Quantitative Assessment Insignificance Indicators* for further details.

None of the annual net change in estimated emissions associated with this action are above the GCR threshold values established at 40 CFR 93.153 (b); therefore, the proposed Action has an insignificant impact on Air Quality and a General Conformity Determination is not applicable.

Paul Sanford, Environmental Planner	May 05 2024
Name Title	Date

**1. General Information:** The Air Force's Air Conformity Applicability Model (ACAM) was used to perform a net change in emissions analysis to assess the potential air quality impact/s associated with the action. The analysis was performed in accordance with the Air Force Manual 32-7002, *Environmental Compliance and Pollution Prevention*; the *Environmental Impact Analysis Process* (EIAP, 32 CFR 989); the *General Conformity Rule* (GCR, 40 CFR 93 Subpart B); and the *USAF Air Quality Environmental Impact Analysis Process* (EIAP) *Guide*. This report provides a summary of the ACAM analysis.

Report generated with ACAM version: 5.0.23a

a. Action Location:

Base: BOLLING AFB
State: District of Columbia
County(s): Entire District

**Regulatory Area(s):** Washington, DC-MD-VA

**b. Action Title:** Programmatic Environmental Assessment - Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling, Washington, DC

c. Project Number/s (if applicable): Project XXX. TITLE XXX

**d. Projected Action Start Date:** 1 / 2027

e. Action Description:

Project 5 - Reversible Travel Lane on Defense Blvd.

Reconfigure and widen Defense Blvd. from Boundary Road to the Firth Sterling Gate to add a third, reversible travel lane. Add bicycle lanes and sidewalks on both sides. Install dynamic lane signs over roadway.

- Pave 54,385 SF reversible travel lane
- Pave 65,261 SF bicycle lanes
- Install 34,507 SF sidewalks
- Install 6 (600 SF total) dynamic lane signs

f. Point of Contact:

Name: Paul Sanford

Title: Environmental Planner

**Organization:** AECOM

**Email:** paul.sanford@aecom.com

**Phone Number:** 813-675-6843

**2. Analysis:** Total reasonably foreseeable net change in direct and indirect emissions associated with the action were estimated through ACAM on a calendar-year basis for the "worst-case" (highest annual emissions) and "steady state" (no net gain/loss in emission stabilized and the action is fully implemented) emissions. General Conformity under the Clean Air Act, Section 1.76 has been evaluated for the action described above according to the requirements of 40 CFR 93, Subpart B.

All emissions estimates were derived from various sources using the methods, algorithms, and emission factors from the most current *Air Emissions Guide for Air Force Stationary Sources*, *Air Emissions Guide for Air Force Mobile Sources*, and/or *Air Emissions Guide for Air Force Transitory Sources*. For greater details of this analysis, refer to the Detail ACAM Report.

	applicable
X	not applicable

### **Conformity Analysis Summary:**

#### 2027

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA			
VOC	0.070	50	No
NOx	0.588	100	No
CO	0.765		
SOx	0.001		
PM 10	4.025		
PM 2.5	0.017		
Pb	0.000		
NH3	0.003		

2028 - (Steady State)

Pollutant	<b>Action Emissions (ton/yr)</b>	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA			
VOC	0.000	50	No
NOx	0.000	100	No
CO	0.000		
SOx	0.000		
PM 10	0.000		
PM 2.5	0.000		
Pb	0.000		
NH3	0.000		

The Criteria Pollutants (or their precursors) with a General Conformity threshold listed in the table above are pollutants within one or more designated nonattainment or maintenance area/s for the associated National Ambient Air Quality Standard (NAAQS). These pollutants are driving this GCR Applicability Analysis. Pollutants exceeding the GCR thresholds must be further evaluated potentially through a GCR Determination.

The pollutants without a General Conformity threshold are pollutants only within areas designated attainment for the associated NAAQS. These pollutants have an insignificance indicator for VOC, NOx, CO, SOx, PM 10, PM 2.5, and NH3 of 250 ton/yr (Prevention of Significant Deterioration major source threshold) and 25 ton/yr for Pb (GCR de minimis value). Pollutants below their insignificance indicators are at rates so insignificant that they will not cause or contribute to an exceedance of one or more NAAQSs. These indicators do not define a significant impact; however, they do provide a threshold to identify actions that are insignificant. Refer to the *Level II*, *Air Quality Quantitative Assessment Insignificance Indicators* for further details.

None of the annual net change in estimated emissions associated with this action are above the GCR threshold values established at 40 CFR 93.153 (b); therefore, the proposed Action has an insignificant impact on Air Quality and a General Conformity Determination is not applicable.

Paul Sanford, Environmental Planner

May 05 2024

Name, Title

**1. General Information:** The Air Force's Air Conformity Applicability Model (ACAM) was used to perform a net change in emissions analysis to assess the potential air quality impact/s associated with the action. The analysis was performed in accordance with the Air Force Manual 32-7002, *Environmental Compliance and Pollution Prevention*; the *Environmental Impact Analysis Process* (EIAP, 32 CFR 989); the *General Conformity Rule* (GCR, 40 CFR 93 Subpart B); and the *USAF Air Quality Environmental Impact Analysis Process* (EIAP) *Guide*. This report provides a summary of the ACAM analysis.

Report generated with ACAM version: 5.0.23a

a. Action Location:

Base: BOLLING AFB
State: District of Columbia
County(s): Entire District

**Regulatory Area(s):** Washington, DC-MD-VA

**b. Action Title:** Programmatic Environmental Assessment - Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling, Washington, DC

c. Project Number/s (if applicable): Project 6 - Connection of Waterfront Trail to Bellevue Housing

**d. Projected Action Start Date:** 1 / 2027

e. Action Description:

Project 6 - Connection of Waterfront Trail to Bellevue Housing

Construct a recreational/multipurpose trail connecting Slip Inn to Deck Court and CSX rail line to help connect the housing and community support district with the existing waterfront trail and the proposed CSX trail, creating a continuous walking and bicycling route throughout JBAB. Connect the south end of the Waterfront Trail adjacent to the Slip Inn to the Bellevue housing area traveling through the Doolittle Park housing area.

Alternatives 1 and 2 are identical

- Construct 0.9 mile of 14-ft wide recreational/multipurpose trail (66,528 SF)

f. Point of Contact:

Name: Paul Sanford

**Title:** Environmental Planner

**Organization:** AECOM

Email: paul.sanford@aecom.com

**Phone Number:** 813-675-6843

**2. Analysis:** Total reasonably foreseeable net change in direct and indirect emissions associated with the action were estimated through ACAM on a calendar-year basis for the "worst-case" (highest annual emissions) and "steady state" (no net gain/loss in emission stabilized and the action is fully implemented) emissions. General Conformity under the Clean Air Act, Section 1.76 has been evaluated for the action described above according to the requirements of 40 CFR 93, Subpart B.

All emissions estimates were derived from various sources using the methods, algorithms, and emission factors from the most current *Air Emissions Guide for Air Force Stationary Sources*, *Air Emissions Guide for Air Force Mobile Sources*, and/or *Air Emissions Guide for Air Force Transitory Sources*. For greater details of this analysis, refer to the Detail ACAM Report.

	applicable
X	not applicable

### **Conformity Analysis Summary:**

#### 2027

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA			
VOC	0.013	50	No
NOx	0.100	100	No
CO	0.134		
SOx	0.000		
PM 10	0.787		
PM 2.5	0.003		
Pb	0.000	·	
NH3	0.001		

### 2028 - (Steady State)

2020 (Steady State)			
Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA			
VOC	0.000	50	No
NOx	0.000	100	No
CO	0.000		
SOx	0.000		
PM 10	0.000		
PM 2.5	0.000		
Pb	0.000		
NH3	0.000		

The Criteria Pollutants (or their precursors) with a General Conformity threshold listed in the table above are pollutants within one or more designated nonattainment or maintenance area/s for the associated National Ambient Air Quality Standard (NAAQS). These pollutants are driving this GCR Applicability Analysis. Pollutants exceeding the GCR thresholds must be further evaluated potentially through a GCR Determination.

The pollutants without a General Conformity threshold are pollutants only within areas designated attainment for the associated NAAQS. These pollutants have an insignificance indicator for VOC, NOx, CO, SOx, PM 10, PM 2.5, and NH3 of 250 ton/yr (Prevention of Significant Deterioration major source threshold) and 25 ton/yr for Pb (GCR de minimis value). Pollutants below their insignificance indicators are at rates so insignificant that they will not cause or contribute to an exceedance of one or more NAAQSs. These indicators do not define a significant impact; however, they do provide a threshold to identify actions that are insignificant. Refer to the *Level II*, *Air Quality Quantitative Assessment Insignificance Indicators* for further details.

None of the annual net change in estimated emissions associated with this action are above the GCR threshold values established at 40 CFR 93.153 (b); therefore, the proposed Action has an insignificant impact on Air Quality and a General Conformity Determination is not applicable.

Paul Sanford, Environmental Planner

May 05 2024

Name, Title

**1. General Information:** The Air Force's Air Conformity Applicability Model (ACAM) was used to perform a net change in emissions analysis to assess the potential air quality impact/s associated with the action. The analysis was performed in accordance with the Air Force Manual 32-7002, *Environmental Compliance and Pollution Prevention*; the *Environmental Impact Analysis Process* (EIAP, 32 CFR 989); the *General Conformity Rule* (GCR, 40 CFR 93 Subpart B); and the *USAF Air Quality Environmental Impact Analysis Process* (EIAP) *Guide*. This report provides a summary of the ACAM analysis.

Report generated with ACAM version: 5.0.23a

a. Action Location:

Base: BOLLING AFB
State: District of Columbia
County(s): Entire District

**Regulatory Area(s):** Washington, DC-MD-VA

**b. Action Title:** Programmatic Environmental Assessment - Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling, Washington, DC

c. Project Number/s (if applicable): Project 7 - CSX Trail

**d. Projected Action Start Date:** 1 / 2027

e. Action Description:

Project 7 - CSX Trail

Repurpose the existing CSX easement/owned land into a pedestrian and bicycle trail. The proposed north-south multi-use trail would promote accessible, walkable development within the installation and create additional recreational opportunities. This trail would also provide a safe walking connection between the Bellevue Housing area and the Charter School. The trail would connect the Honor Guard campus to the Bellevue housing area paralleling Duncan Avenue.

Alternatives 1 and 2 are identical

- Construct 0.85 mile of 14-ft wide multi-use trail (62,832 SF)

f. Point of Contact:

Name: Paul Sanford

Title: Environmental Planner

**Organization:** AECOM

Email: paul.sanford@aecom.com

**Phone Number:** 813-675-6843

**2. Analysis:** Total reasonably foreseeable net change in direct and indirect emissions associated with the action were estimated through ACAM on a calendar-year basis for the "worst-case" (highest annual emissions) and "steady state" (no net gain/loss in emission stabilized and the action is fully implemented) emissions. General Conformity under the Clean Air Act, Section 1.76 has been evaluated for the action described above according to the requirements of 40 CFR 93, Subpart B.

All emissions estimates were derived from various sources using the methods, algorithms, and emission factors from the most current *Air Emissions Guide for Air Force Stationary Sources*, *Air Emissions Guide for Air Force Mobile* 

Sources, and/or Air Emissions	Guide for Air Force	Transitory Sources.	For greater details of	f this analysis, refe	r to
the Detail ACAM Report.					

	applicable
X	not applicable

### **Conformity Analysis Summary:**

### 2027

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA			
VOC	0.012	50	No
NOx	0.097	100	No
CO	0.130		
SOx	0.000		
PM 10	0.744		
PM 2.5	0.003		
Pb	0.000		
NH3	0.001		

2028 - (Steady State)

2020 (Steady State)				
Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY		
		Threshold (ton/yr)	Exceedance (Yes or No)	
Washington, DC-MD-VA				
VOC	0.000	50	No	
NOx	0.000	100	No	
CO	0.000			
SOx	0.000			
PM 10	0.000			
PM 2.5	0.000			
Pb	0.000			
NH3	0.000			

The Criteria Pollutants (or their precursors) with a General Conformity threshold listed in the table above are pollutants within one or more designated nonattainment or maintenance area/s for the associated National Ambient Air Quality Standard (NAAQS). These pollutants are driving this GCR Applicability Analysis. Pollutants exceeding the GCR thresholds must be further evaluated potentially through a GCR Determination.

The pollutants without a General Conformity threshold are pollutants only within areas designated attainment for the associated NAAQS. These pollutants have an insignificance indicator for VOC, NOx, CO, SOx, PM 10, PM 2.5, and NH3 of 250 ton/yr (Prevention of Significant Deterioration major source threshold) and 25 ton/yr for Pb (GCR de minimis value). Pollutants below their insignificance indicators are at rates so insignificant that they will not cause or contribute to an exceedance of one or more NAAQSs. These indicators do not define a significant impact; however, they do provide a threshold to identify actions that are insignificant. Refer to the *Level II*, *Air Quality Quantitative Assessment Insignificance Indicators* for further details.

None of the annual net change in estimated emissions associated with this action are above the GCR threshold values established at 40 CFR 93.153 (b); therefore, the proposed Action has an insignificant impact on Air Quality and a General Conformity Determination is not applicable.

Paul Sanford, Environmental Planner	May 05 2024
Name Title	Date

**1. General Information:** The Air Force's Air Conformity Applicability Model (ACAM) was used to perform a net change in emissions analysis to assess the potential air quality impact/s associated with the action. The analysis was performed in accordance with the Air Force Manual 32-7002, *Environmental Compliance and Pollution Prevention*; the *Environmental Impact Analysis Process* (EIAP, 32 CFR 989); the *General Conformity Rule* (GCR, 40 CFR 93 Subpart B); and the *USAF Air Quality Environmental Impact Analysis Process* (EIAP) *Guide.* This report provides a summary of the ACAM analysis.

Report generated with ACAM version: 5.0.23a

a. Action Location:

**Base:** BOLLING AFB **State:** District of Columbia **County(s):** Entire District

**Regulatory Area(s):** Washington, DC-MD-VA

**b. Action Title:** Programmatic Environmental Assessment - Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling, Washington, DC

c. Project Number/s (if applicable): Project 8 - Replacement Child Development Center (CDC)

d. Projected Action Start Date: 1 / 2029

e. Action Description:

Project 8 - Replacement Child Development Center (CDC)

Construct a new, replacement CDC facility to replace the facility slated for demolition. The new facility would be a 1-story 30,000-SF structure and would support approximately 320 children and 110 staff members at maximum capacity, which is an increase over the number children and staff at CDC facility it would replace (260 children and 88 staff members).

Both Alternative 1 and Alternative 2 have identical dimensions, with construction happening at one of two locations: Alternative 1: The replacement CDC would be constructed adjacent to the JBAB Charter School, on a green field site adjacent to Hickam Village. Alternative 2: The replacement CDC would be built on vacant land north of McChord Street, east of Duncan Avenue, and west of Westover Avenue.

- Construct 1-story, 30,000-SG replacement CDC facility
- Install emergency generator
- Install facility heating
- Increase "personnel" by 82 over existing conditions

#### f. Point of Contact:

Name: Paul Sanford

Title: Environmental Planner

**Organization:** AECOM

Email: paul.sanford@aecom.com

**Phone Number:** 813-675-6843

**2. Analysis:** Total reasonably foreseeable net change in direct and indirect emissions associated with the action were estimated through ACAM on a calendar-year basis for the "worst-case" (highest annual emissions) and "steady state" (no net gain/loss in emission stabilized and the action is fully implemented) emissions. General Conformity

under the Clean Air Act, Section 1.76 has been evaluated for the action described above according to the requirements of 40 CFR 93, Subpart B.

All emissions estimates were derived from various sources using the methods, algorithms, and emission factors from the most current *Air Emissions Guide for Air Force Stationary Sources*, *Air Emissions Guide for Air Force Mobile Sources*, and/or *Air Emissions Guide for Air Force Transitory Sources*. For greater details of this analysis, refer to the Detail ACAM Report.

	applicable
X	not applicable

### **Conformity Analysis Summary:**

### 2029

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY		
		Threshold (ton/yr)	Exceedance (Yes or No)	
Washington, DC-MD-VA				
VOC	0.397	50	No	
NOx	0.419	100	No	
CO	0.587			
SOx	0.001			
PM 10	0.263			
PM 2.5	0.010			
Pb	0.000			
NH3	0.002			

### 2030

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA		-	
VOC	0.113	50	No
NOx	0.155	100	No
CO	1.399		
SOx	0.006		
PM 10	0.014		
PM 2.5	0.014		
Pb	0.000		
NH3	0.020		

### 2031 - (Steady State)

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA			
VOC	0.113	50	No
NOx	0.155	100	No
CO	1.399		
SOx	0.006		
PM 10	0.014		
PM 2.5	0.014		
Pb	0.000		
NH3	0.020		

The Criteria Pollutants (or their precursors) with a General Conformity threshold listed in the table above are pollutants within one or more designated nonattainment or maintenance area/s for the associated National Ambient Air Quality Standard (NAAQS). These pollutants are driving this GCR Applicability Analysis. Pollutants exceeding the GCR thresholds must be further evaluated potentially through a GCR Determination.

The pollutants without a General Conformity threshold are pollutants only within areas designated attainment for the associated NAAQS. These pollutants have an insignificance indicator for VOC, NOx, CO, SOx, PM 10, PM 2.5, and NH3 of 250 ton/yr (Prevention of Significant Deterioration major source threshold) and 25 ton/yr for Pb (GCR de minimis value). Pollutants below their insignificance indicators are at rates so insignificant that they will not cause or contribute to an exceedance of one or more NAAQSs. These indicators do not define a significant impact; however, they do provide a threshold to identify actions that are insignificant. Refer to the *Level II*, *Air Quality Ouantitative Assessment Insignificance Indicators* for further details.

None of the annual net change in estimated emissions associated with this action are above the GCR threshold values established at 40 CFR 93.153 (b); therefore, the proposed Action has an insignificant impact on Air Quality and a General Conformity Determination is not applicable.

Paul Sanford, Environmental Planner

May 05 2024

Name, Title

**1. General Information:** The Air Force's Air Conformity Applicability Model (ACAM) was used to perform a net change in emissions analysis to assess the potential air quality impact/s associated with the action. The analysis was performed in accordance with the Air Force Manual 32-7002, *Environmental Compliance and Pollution Prevention*; the *Environmental Impact Analysis Process* (EIAP, 32 CFR 989); the *General Conformity Rule* (GCR, 40 CFR 93 Subpart B); and the *USAF Air Quality Environmental Impact Analysis Process* (EIAP) *Guide*. This report provides a summary of the ACAM analysis.

Report generated with ACAM version: 5.0.23a

a. Action Location:

Base: BOLLING AFB
State: District of Columbia
County(s): Entire District

**Regulatory Area(s):** Washington, DC-MD-VA

**b. Action Title:** Programmatic Environmental Assessment - Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling, Washington, DC

**c. Project Number/s (if applicable):** Project 9A - Medical Squadron (MDS) Clinic (Project 9, Alternative 1)

d. Projected Action Start Date: 1 / 2029

e. Action Description:

Project 9A - Medical Squadron (MDS) Clinic (Project 9, Alternative 1)

Construct a new medical facility for the 316th MDS. The existing medical facilities on JBAB are fragmented, in poor condition, and do not have adequate space to accommodate their mission. Under this proposed project, a new, 3-story facility with a 29,000-SF footprint would be built to consolidate all MDS medical, dental, administrative, and operations support functions of the squadron in one location with adequate space to meet their mission and comply with DoD Defense Health Agency criteria. Building 17 and Building 1300 would be demolished.

There would not be an increase in personnel at JBAB anticipated with this project.

Alternative 1: The new 3-story 316th MDS Clinic facility would be constructed on McChord Street between Castle Avenue SW and Luke Avenue SW.

- Demolish Building 17 (10,600 SF) and Building 1300 (34,934 SF) 45,534 SF total
- Construct 3-story MDS clinic building with a 29,000-SF footprint (87,000 total SF)
- Install facility heating
- Install emergency generator

#### f. Point of Contact:

Name: Paul Sanford

**Title:** Environmental Planner

**Organization:** AECOM

Email: paul.sanford@aecom.com

**Phone Number:** 813-675-6843

**2. Analysis:** Total reasonably foreseeable net change in direct and indirect emissions associated with the action were estimated through ACAM on a calendar-year basis for the "worst-case" (highest annual emissions) and "steady

state" (no net gain/loss in emission stabilized and the action is fully implemented) emissions. General Conformity under the Clean Air Act, Section 1.76 has been evaluated for the action described above according to the requirements of 40 CFR 93, Subpart B.

All emissions estimates were derived from various sources using the methods, algorithms, and emission factors from the most current *Air Emissions Guide for Air Force Stationary Sources*, *Air Emissions Guide for Air Force Mobile Sources*, and/or *Air Emissions Guide for Air Force Transitory Sources*. For greater details of this analysis, refer to the Detail ACAM Report.

	applicable
X	not applicable

### **Conformity Analysis Summary:**

### 2029

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY		
		Threshold (ton/yr)	Exceedance (Yes or No)	
Washington, DC-MD-VA				
VOC	1.077	50	No	
NOx	0.594	100	No	
CO	0.821			
SOx	0.001			
PM 10	0.568			
PM 2.5	0.015			
Pb	0.000	·		
NH3	0.004			

### 2030

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA			
VOC	0.023	50	No
NOx	0.331	100	No
CO	0.274		
SOx	0.007		
PM 10	0.028		
PM 2.5	0.028		
Pb	0.000	·	
NH3	0.000		

### 2031 - (Steady State)

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA			
VOC	0.023	50	No
NOx	0.331	100	No
CO	0.274		
SOx	0.007		
PM 10	0.028		
PM 2.5	0.028		
Pb	0.000		
NH3	0.000	·	

The Criteria Pollutants (or their precursors) with a General Conformity threshold listed in the table above are pollutants within one or more designated nonattainment or maintenance area/s for the associated National Ambient Air Quality Standard (NAAQS). These pollutants are driving this GCR Applicability Analysis. Pollutants exceeding the GCR thresholds must be further evaluated potentially through a GCR Determination.

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None of the annual net change in estimated emissions associated with this action are above the GCR threshold values established at 40 CFR 93.153 (b); therefore, the proposed Action has an insignificant impact on Air Quality and a General Conformity Determination is not applicable.

Paul Sanford, Environmental Planner

May 05 2024

Name, Title

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Report generated with ACAM version: 5.0.23a

a. Action Location:

Base: BOLLING AFB
State: District of Columbia
County(s): Entire District

**Regulatory Area(s):** Washington, DC-MD-VA

**b. Action Title:** Programmatic Environmental Assessment - Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling, Washington, DC

**c. Project Number/s (if applicable):** Project 9B - Medical Squadron (MDS) Clinic (Project 9, Alternative 2)

**d. Projected Action Start Date:** 1 / 2029

e. Action Description:

Project 9B - Medical Squadron (MDS) Clinic (Project 9, Alternative 2)

Construct a new medical facility for the 316th MDS. The existing medical facilities on JBAB are fragmented, in poor condition, and do not have adequate space to accommodate their mission. Under this proposed project, a new, 3-story facility with a 29,000-SF footprint would be built to consolidate all MDS medical, dental, administrative, and operations support functions of the squadron in one location with adequate space to meet their mission and comply with DoD Defense Health Agency criteria. Building 1300 would be renovated as part of this project.

There would not be an increase in personnel at JBAB anticipated with this project.

Alternative 2: The 11th MDS Clinic functions would mostly remain in their existing locations. A 10,000-SF one-story addition would be constructed on Building 17 and Building 1300 would be renovated. Building 3 would be vacated and moved to the new and renovated space, partially consolidating the MDS functions.

- Construct 1-story, 10,000-SF addition to Building 17 and Building 1300
- Install new construction heating
- Install additional emergency generator

f. Point of Contact:

Name: Paul Sanford

**Title:** Environmental Planner

**Organization:** AECOM

Email: paul.sanford@aecom.com

**Phone Number:** 813-675-6843

**2. Analysis:** Total reasonably foreseeable net change in direct and indirect emissions associated with the action were estimated through ACAM on a calendar-year basis for the "worst-case" (highest annual emissions) and "steady

state" (no net gain/loss in emission stabilized and the action is fully implemented) emissions. General Conformity under the Clean Air Act, Section 1.76 has been evaluated for the action described above according to the requirements of 40 CFR 93, Subpart B.

All emissions estimates were derived from various sources using the methods, algorithms, and emission factors from the most current *Air Emissions Guide for Air Force Stationary Sources*, *Air Emissions Guide for Air Force Mobile Sources*, and/or *Air Emissions Guide for Air Force Transitory Sources*. For greater details of this analysis, refer to the Detail ACAM Report.

	applicable
X	not applicable

### **Conformity Analysis Summary:**

### 2029

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
	-	Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA			
VOC	0.148	50	No
NOx	0.266	100	No
CO	0.439		
SOx	0.001		
PM 10	0.067		
PM 2.5	0.008		
Pb	0.000	·	
NH3	0.001		

### 2030

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA			
VOC	0.007	50	No
NOx	0.056	100	No
CO	0.043		
SOx	0.005		
PM 10	0.008		
PM 2.5	0.008		
Pb	0.000		
NH3	0.000		

### 2031 - (Steady State)

2031 - (Steady State)			
Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA			
VOC	0.007	50	No
NOx	0.056	100	No
CO	0.043		
SOx	0.005		
PM 10	0.008		
PM 2.5	0.008		
Pb	0.000		
NH3	0.000		

The Criteria Pollutants (or their precursors) with a General Conformity threshold listed in the table above are pollutants within one or more designated nonattainment or maintenance area/s for the associated National Ambient Air Quality Standard (NAAQS). These pollutants are driving this GCR Applicability Analysis. Pollutants exceeding the GCR thresholds must be further evaluated potentially through a GCR Determination.

The pollutants without a General Conformity threshold are pollutants only within areas designated attainment for the associated NAAQS. These pollutants have an insignificance indicator for VOC, NOx, CO, SOx, PM 10, PM 2.5, and NH3 of 250 ton/yr (Prevention of Significant Deterioration major source threshold) and 25 ton/yr for Pb (GCR de minimis value). Pollutants below their insignificance indicators are at rates so insignificant that they will not cause or contribute to an exceedance of one or more NAAQSs. These indicators do not define a significant impact; however, they do provide a threshold to identify actions that are insignificant. Refer to the *Level II*, *Air Quality Quantitative Assessment Insignificance Indicators* for further details.

None of the annual net change in estimated emissions associated with this action are above the GCR threshold values established at 40 CFR 93.153 (b); therefore, the proposed Action has an insignificant impact on Air Quality and a General Conformity Determination is not applicable.

Paul Sanford, Environmental Planner

May 05 2024 **Date** 

Name, Title

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Report generated with ACAM version: 5.0.23a

a. Action Location:

Base: BOLLING AFB
State: District of Columbia
County(s): Entire District

**Regulatory Area(s):** Washington, DC-MD-VA

**b. Action Title:** Programmatic Environmental Assessment - Five-Year Installation Development Plan Update at Joint Base Anacostia-Bolling, Washington, DC

c. Project Number/s (if applicable): Project 10 - South Gate & Visitor Center

d. Projected Action Start Date: 1 / 2029

e. Action Description:

Project 10 - South Gate & Visitor Center

Replace the current South Gate access control point facility, which is aging and does not meet current UFC 04-022-01 (Entry Control Facilities Access Control Points) requirements for safety and antiterrorism (AT) protection. Reconfigure South Gate to better accommodate visitor access, including drop-offs and pick-ups serving the Charter School, and construct a modern Visitor Center to better accommodate the mission. The proposed South Gate and Visitor Center project would require the demolition of seven existing installation houses located on Westover Avenue.

The South Gate and Visitor Center upgrade would not result in an increase in personnel. Alternatives 1 and 2 are identical

- Demolish 5,500 SF of South Gate facility
- Demolish existing visitor center building (30,000 SF)
- Demolish 7 existing houses 3,700 SF total, each (25,900 SF total)
- Construct 7,000-SF replacement South Gate facility
- Construct new Visitor Center (40,000 SF)
- Pave additional 2,700 SF at South Gate to accommodate reconfiguration
- Install new facilities heating
- Install two emergency generators

#### f. Point of Contact:

Name: Paul Sanford

**Title:** Environmental Planner

**Organization:** AECOM

Email: paul.sanford@aecom.com

**Phone Number:** 813-675-6843

**2. Analysis:** Total reasonably foreseeable net change in direct and indirect emissions associated with the action were estimated through ACAM on a calendar-year basis for the "worst-case" (highest annual emissions) and "steady state" (no net gain/loss in emission stabilized and the action is fully implemented) emissions. General Conformity under the Clean Air Act, Section 1.76 has been evaluated for the action described above according to the requirements of 40 CFR 93, Subpart B.

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	applicable	
X	not applicable	

#### **Conformity Analysis Summary:**

### 2029

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
	·	Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA			
VOC	1.026	50	No
NOx	0.896	100	No
CO	1.222		
SOx	0.002		
PM 10	1.131		
PM 2.5	0.021		
Pb	0.000		
NH3	0.007	·	

### 2030

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA			
VOC	0.027	50	No
NOx	0.329	100	No
CO	0.268		
SOx	0.011		
PM 10	0.032		
PM 2.5	0.032		
Pb	0.000		
NH3	0.000		

2031 - (Steady State)

2031 (Steady State)			
Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Washington, DC-MD-VA			
VOC	0.027	50	No
NOx	0.329	100	No
CO	0.268		
SOx	0.011		
PM 10	0.032		
PM 2.5	0.032		
Pb	0.000		

NH3 0.000	
-----------	--

The Criteria Pollutants (or their precursors) with a General Conformity threshold listed in the table above are pollutants within one or more designated nonattainment or maintenance area/s for the associated National Ambient Air Quality Standard (NAAQS). These pollutants are driving this GCR Applicability Analysis. Pollutants exceeding the GCR thresholds must be further evaluated potentially through a GCR Determination.

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None of the annual net change in estimated emissions associated with this action are above the GCR threshold values established at 40 CFR 93.153 (b); therefore, the proposed Action has an insignificant impact on Air Quality and a General Conformity Determination is not applicable.

Paul Sanford, Environmental Planner

May 05 2024

Name, Title

Date

### **Appendix D Noise Calculations**

### 2 Installation Development Plan at JBAB

### 3 Construction Noise Levels

Cumulative dB=10\*LOG[10EXP(0.1\*dB1)+10EXP(0.1\*dB2)+10EXP(0.1\*dB3)]

### Clearing and Grubbing

Individual dBA

1

Dozer 85 dBA Backhoe 80 dBA

Cumulative dBA=10\*LOG[10EXP(0.1\*85)+10EXP(0.1\*80)] = 86

### Superstructure (building an above-ground structure)

Individual dBA

Crane 88 dBA
Loader 85 dBA
Air Compressor 81 dBA

Cumulative dB=10\*LOG[10EXP(0.1\*88)+10EXP(0.1\*85)+10EXP(0.1\*81)] = 90

### **Paving**

Individual dBA

Paver 89 dBA Truck 88 dBA

Cumulative dBA=10\*LOG[10EXP(0.1\*89)+10EXP(0.1\*88)] = 92

#### 4 Distance Calculations

Paving, 92 dBA, 700 feet 92-10\*(2)LOG(700/50) = 69

Clearing and Grubbing, 86 dBA, 1,700 feet 86-10\*(2)LOG(1700/50) = 55

Paving, 92 dBA, 100 feet

92-10\*(2)LOG(100/50) = 86

Paving, 92 dBA, 300 feet

92-10\*(2)LOG(300/50) = 76

### **1 Operational Traffic Noise Levels**

### 3 Equivalent Sound Level (Leq) Formula

$$Leq = \frac{10 \, x \, Log_{10} \, \left(t1 \, x \, 10 \frac{L1}{10} + t2 \, x \, 10 \frac{L2}{10} + \dots + t10 \, x \, 10 \frac{L10}{10}\right)}{T}$$

5 Where:

2

4

- 6 Leq = Equivalent continuous noise level (dBA)
- 7 t1 = time at L1 (Hours)
- 8 t2 = time at L2 (Hours)
- 9 L1 = sound pressure level dBA at time 1
- 10 L2 = sound pressure level dBA at time 2
- T = total time over which the Leq is required (Hours)

### 12 Equivalent Sound Level (Leq) (1 Hour) Specific Calculations for JBAB EA

- 13 t1 = 0.00027777 hours
- 14 t2 = N/A
- 15 L1 = 73 dBA
- 16 L2 = N/A
- T = 1 Hour

18

### 19 Chesapeake Street SW in the afternoon

No Action

530 cars peak hour

$$Leq = 10 Log 10(530(0.00027777 \times 10 (73/10))) = 64.67852$$

Alternative 2

681 cars peak hour

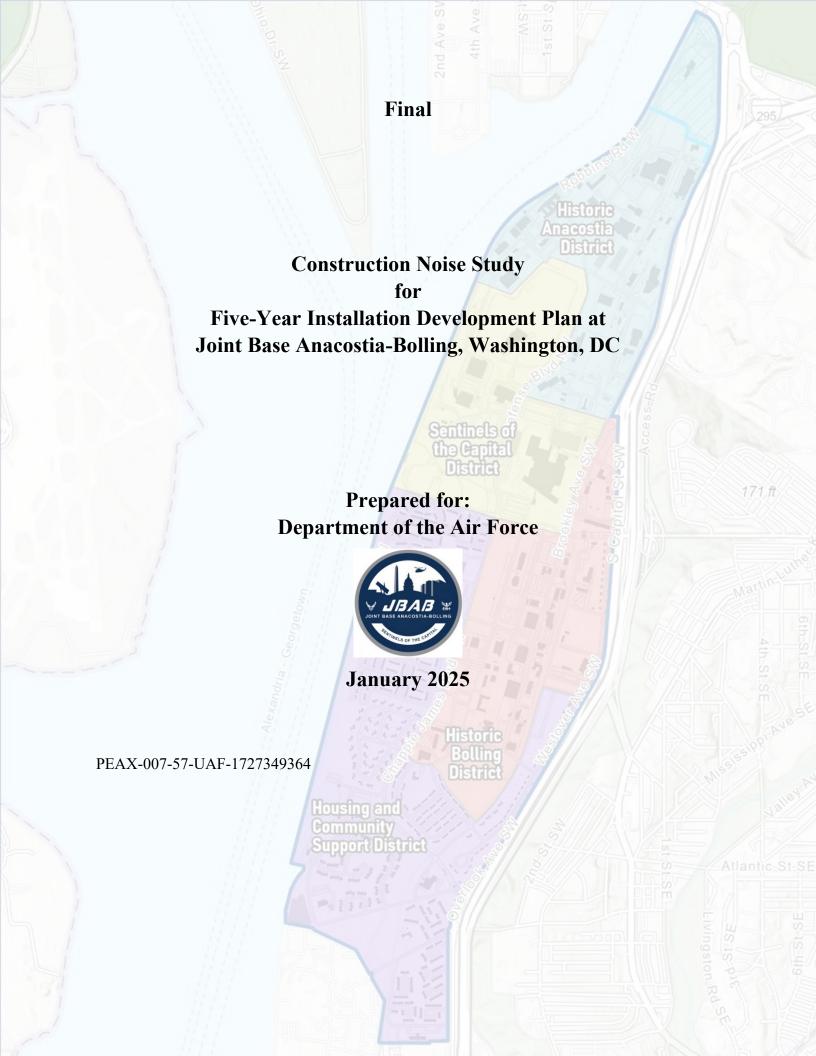
$$Leq = 10 Log 10(681(0.00027777 \times 10 (73/10))) = 65.76723$$

2

3

## Appendix E Construction Noise Study for Five-Year Installation Development Plan at JBAB

Appendix E E-1 February 2025





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## Glossary of Abbreviations and Acronyms

Acronym	Definition
CDC	Child Development Center
DAF	Department of the Air Force
dB	decibels
dBA	A-weighted decibels
DC	District of Columbia
DCA	Ronald Reagan Washington National Airport
DISA	Defense Information System Agency
DNL	Day-Night Average Sound Level
EA	Environmental Assessment
EIS	Environmental Impact Statement
FHWA	Federal Highway Administration
FY	Fiscal Year

Acronym	Definition	
I-	Interstate	
IDP	Installation Development Plan	
JBAB	Joint Base Anacostia-Bolling	
Leq	equivalent sound level	
Lmax	maximum A-weighted sound level	
MDS	Maryland Squadron Clinic	
NCR	National Capital Region	
NEPA	National Environmental Policy Act	
SF	square feet	
SHPO	State Historic Preservation Office	
U.S.	United States	

### 1 Introduction

- 2 This Construction Noise Study supports the Programmatic Environmental Assessment (EA) for the Five-
- 3 Year Installation Development Plan (IDP) at Joint Base Anacostia-Bolling (JBAB), Washington, DC. The
- 4 Department of the Air Force (DAF), 11th Wing proposes to implement 10 separate projects identified in
- 5 the approved IDP over a five-year period (fiscal year [FY]2025-FY2029). This Proposed Action would
- 6 support various missions, which includes construction of new facilities, infrastructure improvements, and
- 7 demolition of obsolete facilities. This Construction Noise Study evaluates the potential noise effects
- 8 caused by the proposed construction, demolition, and renovation projects under two action alternatives
- 9 and the No Action Alternative. It does not evaluate potential long-term noise effects of the Proposed
- 10 Action. The project area for this Construction Noise Study includes JBAB and the surrounding
- 11 communities.

1

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### 1.1 Noise Fundamentals

- 13 Sound is a physical phenomenon consisting of minute vibrations that travel through a medium, such as air
- 14 or water, and are sensed by the human ear. Sound is all around us. The perception and evaluation of sound
- 15 involves three basic physical characteristics:
- 16 Intensity — the acoustic energy, which is expressed in terms of sound pressure, in decibels (dB)
- 17 Frequency — the number of cycles per second the air vibrates, in Hertz
  - Duration the length of time the sound can be detected
- 19 Noise is defined as an unwanted or annoying sound that interferes with or disrupts normal human
- 20 activities. Although continuous and extended exposure to high noise levels (e.g., through occupational
- 21 exposure) can cause hearing loss, the principal human response to noise is annoyance. Human response to
- 22 similar noise events is diverse. Response is influenced by the type of noise and activity, perceived
- 23 importance of the noise, its appropriateness in the setting, time of day, and sensitivity of the individual.
- 24 The loudest sounds that can be detected comfortably by the human ear have intensities that are a trillion
- times higher than those of sounds that can barely be detected. This vast range means that using a linear 25
- 26 scale to represent sound intensity is not feasible. The dB is a logarithmic unit used to represent the
- 27 intensity of a sound, also referred to as the sound level. All sounds have a spectral content, which means
- 28 their magnitude or level changes with frequency. Frequency is measured in cycles per second or Hertz. To
- 29 mimic the human ear's non-linear sensitivity and perception of different sound frequencies, the spectral
- 30 content is weighted. For example, environmental noise measurements are usually on an "A-weighted"
- 31 scale that filters out very low and very high frequencies to replicate human sensitivity. It is common to
- 32 add the "A" to the measurement unit to identify that the measurement has been made with this filtering
- process (i.e., dBA). In this document, the dBA unit refers to A-weighted decibels or sound levels. Table 33
- 34 1-1 provides a comparison of how the human ear perceives changes in loudness using the A-weighted

35 scale.

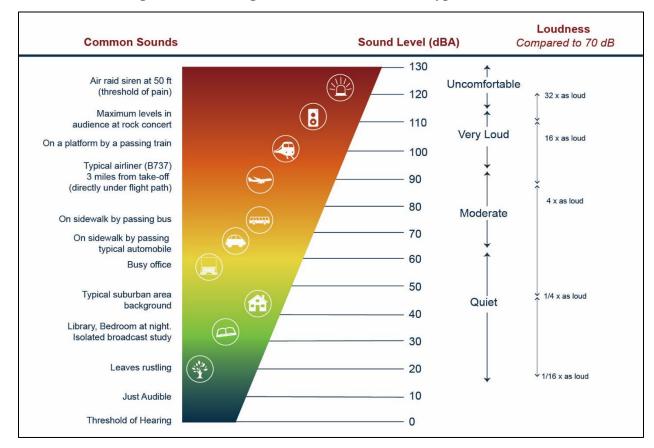
Table 1-1: Subjective Human Response to Changes in Sound

Change	Change in Perceived Loudness
3 dBA	Barely perceptible
5 dBA	Quite noticeable
10 dBA	Dramatic — twice or half as loud
20 dBA	Striking — fourfold change

Key: dBA = A-weighted decibel

Figure 1-1 provides a chart of A-weighted sound levels from typical noise sources. Some noise sources (e.g., air conditioners, vacuum cleaners) are continuous sounds that maintain a constant sound level for some period (Cowan, 1994). Other sources (e.g., automobiles, heavy trucks) are the maximum sound produced during an event like a vehicle pass-by. Other sounds (e.g., urban daytime, urban nighttime) are averages taken over extended periods of time. A variety of noise metrics have been developed to describe noise over different time periods, as discussed in the following text.

Figure 1-1: A-Weighted Sound Levels from Typical Sources



### 1.2 Noise Metrics

- A metric is a system for measuring or quantifying a characteristic of a subject. Since noise is a complex physical event, various noise metrics help to measure the noise environment. These noise metrics include the Maximum Sound Level (Lea), and Day Night Average Sound Level
- the Maximum Sound Level (Lmax), Equivalent Sound Level (Leq), and Day Night Average Sound Level
- 12 (DNL).

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#### 1.2.1 Maximum Sound Level

- Lmax is the highest sound level measured during a single event where the sound level changes value with
- 15 time. Lmax is the highest sound level within a stated time interval. The time interval is typically the
- duration of the noise event.

### 1.2.2 Equivalent Sound Level

- Leq is a metric that averages sound over a period of time that can be useful in describing noise. Leq is the
- 19 continuous sound level that would be present if all the variations in sound level occurring over a specified

- 1 period were smoothed out to contain the same total sound energy. Leq can be used over a specified period
- 2 of time. For example, Leg can be used for an hour, a school day, daytime, nighttime, weekend, facility
- 3 rush periods, or a full 24-hour day. In this Construction Noise Study, Leg for 1 hour [Leg(h)] will be
- 4 used.

### 5 1.2.3 Day Night Average Sound Level

- 6 DNL is defined as the average sound energy in a 24-hour period with an adjustment (in dB) added to
- 7 nighttime noise events occurring between the hours of 10:00 p.m. and 7:00 a.m. DNL provides a measure
- 8 of the overall acoustical environment, but it does not directly represent the sound level at any given time.
- 9 It is an average quantity mathematically representing the continuous A-weighted sound level that would
- 10 be present if all the variations in sound level that occur over a 24-hour period were smoothed out to
- 11 contain the same total sound energy. DNL accounts for the maximum noise levels, the duration of the
- events (operations), the number of events, and the timing of their occurrence over a 24-hour period.

### 13 1.3 Criteria for Assessing Construction Noise

- 14 The Federal Highway Administration (FHWA) Construction Noise Handbook was used as a guide to
- assess construction noise effects from implementing the projects identified in the approved JBAB IDP. At
- 16 the federal level, there are no standardized criteria for assessing construction noise effects. The criteria
- 17 used to assess construction noise effects include the following: 1) existing noise environment and
- 18 expected noise levels during construction, 2) absolute level of expected construction noise, 3) duration of
- 19 construction, and 4) adjacent land use (FHWA, 2006).
- 20 Existing Noise Environment and Expected Noise Levels During Construction. Evaluating the
- 21 difference between existing noise levels (before construction starts) and the expected noise levels (during
- construction) is essential. This evaluation involves analyzing the specific construction activities and
- equipment that will be used. Existing noise levels are compared with those anticipated during
- 24 construction. Through this comparison, potential noise effects can be identified. Mitigation strategies can
- 25 be developed to minimize disruption to the surrounding environment (FHWA, 2006).
- 26 Absolute Level of Expected Construction Noise. The absolute level of expected construction noise
- 27 involves measuring the combined noise levels of all equipment and operations at a given time or focusing
- on the noise level of a specific operation or piece of equipment. This criterion helps in determining
- whether the construction noise will exceed acceptable limits (FHWA, 2006).
- 30 **Duration of Construction.** The duration of high noise levels plays an important role in how noise effects
- 31 are perceived and mitigated. Brief, infrequent noise may be perceived differently compared to constant
- 32 noise. Assessing the duration allows for effective implementation of noise mitigation techniques to ensure
- that prolonged exposure to high noise levels is minimized and that potential adverse effects on humans
- and wildlife is reduced (FHWA, 2006).
- 35 Adjacent Land Use. Considering adjacent land uses provides an indicator of the degree of sensitivity
- 36 expected from the surrounding areas. Residential areas typically have strict noise restrictions during
- 37 nighttime and may also have daytime noise level limits. In contrast, industrial areas may have no noise
- restrictions, and commercial areas may have variable restrictions depending on the time of day.
- 39 Accounting for these restrictions helps in planning construction schedules and selecting appropriate noise
- 40 mitigation techniques to minimize adverse effects on the community (FHWA, 2006).

## 2 Applicable Standards

- 2 The proposed projects would occur on DAF property, and therefore must adhere to federal regulations.
- 3 Although the DAF is not required to follow local noise ordinances, local noise ordinances are considered
- 4 in this Construction Noise Study. The following describes the applicable standards used in this study.

### 2.1 National Environmental Policy Act

- 6 Under the National Environmental Policy Act (NEPA), the DAF is required to evaluate the environmental
- 7 effects of their proposed actions, including noise effects from construction activities. This evaluation is
- 8 conducted to ensure that potential impacts are identified, assessed, and minimized to the extent
- 9 practicable to protect public health and the environment.

### 10 2.2 Comprehensive Plan for the National Capital: Federal Elements

- 11 The National Capital Planning Commission provides guidelines in their Comprehensive Plan for the
- 12 National Capital: Federal Elements that the federal government should follow to minimize adverse noise
- effects or noise pollution. Under this comprehensive plan, the federal government should avoid locating
- 14 activities that produce excessive noise near sensitive natural resources and land uses such as residential
- 15 neighborhoods, hospitals, schools, and major public and civic destinations. The federal government
- should also locate, design, and construct improvements to roads and parking lots for facilities in a manner
- 17 that is sensitive to existing adjacent land uses. The plan also states that federal construction activities
- 18 should comply with local noise ordinances. Coordination should occur with local government and
- 19 adjacent communities to establish limits on noise intensity and operational hours. Lastly, the federal
- 20 government should use low noise equipment, soundproofing methods or technology, and noise barriers to
- 21 reduce noise from mechanical equipment and operational activities (National Capital Planning
- 22 Commission, 2022).

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### 23 **2.3** Federal Highway Administration Construction Noise Handbook

- 24 The FHWA Construction Noise Handbook offers best practices for evaluating and mitigating construction
- 25 noise. The handbook provides practical guidance on noise measurement, impact prediction, and
- 26 mitigation techniques to minimize noise disruptions during construction (FHWA, 2006).

### 27 2.4 Local Noise Ordinances

- 28 Local noise ordinances specify allowable noise levels and times of day for construction activities.
- 29 Compliance with these ordinances ensures that construction noise does not affect the quality of life for
- individuals at noise-sensitive establishments.
- 31 According to the Code of the District of Columbia, Section 22–1321, *Disorderly Conduct*, "It is unlawful
- for a person to make an unreasonably loud noise between 10:00 p.m. and 7:00 a.m. that is likely to annoy
- or disturb one or more other persons in their residences" (Council of the District of Columbia, 2024).
- 34 Section 2802.1, Construction, of the District of Columbia Noise Control Act states, "From 7:00 a.m. to
- 35 7:00 p.m. on any weekday, noise levels resulting from construction or demolition (excluding pile driver
- devices) shall not exceed a L(1) of eighty (80) dB(A) unless granted a variance under §2705 of Chapter
- 37 27 of this subtitle." In this case, L(1) means Leq for 1 hour or Leq(h). This refers to noise levels from 25
- 38 feet from the outermost limits of the construction site (DC Department of Buildings, 1979).

### 3 Existing Conditions

### 2 3.1 Ambient Noise Environment

- 3 The 10 IDP project sites are within the JBAB installation boundary. The land that immediately surrounds
- 4 the project sites consists of military uses. JBAB is bounded by the Anacostia River and Potomac River to
- 5 the west; South Capitol Street (which turns into Overlook Avenue SW to the south) and I-295 to the east;
- 6 South Capitol Street SW and Anacostia Park to the north; and industrial and commercial land uses to the
- 7 south.

- 8 The project sites are within and/or adjacent to different types of installation-specific land uses, including
- 9 industrial/logistics, mission/administration, airfield operations, bachelor housing, CSX easement,
- 10 community support, family housing, medical, open space/outdoor recreation, and transient quarters. The
- 11 predominant sources of existing loud noise at JBAB include on-installation military helicopter operations,
- 12 commercial aircraft operations at Ronald Reagan Washington National Airport (DCA) across the
- 13 Potomac River, and vehicular traffic, particularly from South Capitol Street and I-295. Secondary sources
- of existing noise include installation traffic, equipment operation, installation-wide announcements,
- anthems at the start of day and end of day, boat traffic, and Honor/Ceremonial Guard practice. There are
- 16 two rotary-wing landing facilities on JBAB where helicopter operations occur. A helicopter landing zone
- 17 is designated for personnel transport and medical evacuation flights. Helicopter operations from these
- 18 facilities are sporadic and not a consistent source of noise.
- DCA is west of the Potomac River and is the busiest airport in the Washington metropolitan area. Based
- 20 on data from 2015–2016, JBAB is within the 45 dBA DNL noise contours from aircraft operations at
- DCA. The Anacostia region, which is east of JBAB, is outside of (or below) the 45 dBA DNL contours
- 22 (Government of the District of Columbia, 2018). The 65 dBA DNL level is the accepted threshold for
- 23 incompatibility with residential land uses. The installation and nearby neighborhoods are well below the
- 24 65 dBA DNL threshold.
- Off-installation populations east of the installation and I-295 stretch from Anacostia Park at the northern
- 26 end to the U.S. Naval Research Laboratory at the southern end of the installation. Land uses within this
- area consist of residential neighborhoods, such as Barry Farm; commercial establishments; St. Elizabeth's
- 28 Campus; and the U.S. Coast Guard headquarters. There is a buffer of trees between I-295 and
- development stretching from Ash Street SE to the southern end of JBAB.
- 30 The predominant source of noise outside of the installation is from vehicular traffic. Noise measurements
- 31 were conducted in 2012 at various locations in the region around St. Elizabeth's Campus including
- 32 Malcolm X Avenue SE, Martin Luther King Jr. Avenue SE, and Firth Sterling Avenue SE. Noise
- 33 measurements were taken mostly adjacent to residences, including Barry Farm. Noise levels modeled at
- 34 Barry Farms and Malcom X Avenue SE locations were 53–65 dBA in 2012 (DHS, 2020). Noise is
- 35 primarily from vehicular traffic on I-295; however, secondary roads also contribute to the noise.
- 36 In addition to vehicular traffic, noise sources in urban environments typically include lawn mowing,
- 37 music, talking, and dogs barking. Typically, the more development there is, the louder the ambient noise
- environment. Table 3-1 shows typical sound levels for various types of residential land uses. Very noisy
- 39 urban areas have the highest sound levels at 66 dBA during the daytime and 58 dBA during nighttime
- 40 hours. Normal suburban areas are 50 dBA during the day and 44 dBA at night. Given the land uses and
- 41 measured noise levels, the area adjacent to JBAB is considered noisy urban and very noisy urban.

**Table 3-1: Typical Residential Sound Levels** 

Residential Land Use	Daytime Sound Level	Nighttime Sound Level
Very Noisy Urban	66 dBA	58 dBA
Noisy Urban	61 dBA	54 dBA
Urban/Noisy Suburban	55 dBA	49 dBA
Quiet Urban/Normal Suburban	50 dBA	44 dBA
Quiet Suburban	45 dBA	39 dBA
Very Quiet Suburban/Rural	40 dBA	34 dBA

(ANSI/ASA, 2013)

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Key: dBA = A-weighted decibels

### 3.2 Noise Sensitive Receptors

- 4 Response to noise varies, depending on the type and characteristics of the noise, distance between the
- 5 noise source and whoever hears it (the receptor), receptor sensitivity, and time of day. Noise sensitive
- 6 receptors are areas where human or animal occupants are more susceptible to the adverse effects of
- 7 sound. Noise sensitive receptors include residences, hospitals, educational facilities, libraries, churches,
- 8 parks, and cultural sites. Sensitive receptors can also include domestic animals or certain wildlife species.
- 9 Noise sensitive receptors are located east of the installation and include residences, churches, schools, and
- 10 parks such as Leckie Elementary School, Martin Luther King Jr Elementary School, Barry Farm
- 11 Recreation Center, Anacostia Park, Ox Run Park, Living Word Church, Congress Heights Health Clinic,
- and BridgePoint Hospital National Harbor (see Figure 3-1). To the west of the installation, there are
- boats, ferries, and water taxis that travel on the Potomac River. This includes ferries that take the public
- on sightseeing tours of Washington DC. On-installation noise sensitive receptors include the Learn DC
- 15 Public Charter School, the existing Child Development Center, the 316th Medical Clinic, residences, the
- 16 Historic Bolling Chapel, and John T. Hughes Library. Specific noise sensitive receptors for each action
- 17 alternative are discussed in the following sections.

Anacostia 4th Ave SW Park Barry Farm Recreation Center Suitland P Bruce PI SE 171 ft Martin Luther King, Child Davelopment Jr. Elementary School Historic Oxon Run Park Chapel Sigh Medical Clinic Congress Heights John T. Hughes Library E Health Clinic Learn DC Public Charter School Living Word Atlantic-St-SE Church Leckie Elementary & School 5 Southview Dr BridgePoint Hospital National Harbor Tverson St Installation Boundary Noise Sensitive Receptors Navy-owned Property Historic Bolling Chapel Building Road National park or forest Local park Structure April 2024 Source: Joint Base Anacostia-Bolling, DC Open Data, Esri Basemaps 2024

**Figure 3-1: Noise Sensitive Receptors** 

## 4 Noise Methodology, Alternatives, and Analysis

### 4.1 Proposed Action

action alternatives (see Sections 4.4 and 4.5).

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The DAF, 11th Wing proposes to implement projects identified in the approved IDP, which includes the construction of new facilities, infrastructure improvements, and demolition of obsolete facilities. The Proposed Action includes 10 separate projects, which are summarized in Table 4-1. The Proposed Action projects would occur over the five-year period FY2025–2029. The construction schedule for each project would vary within this timeframe, depending on the timing of the design schedule, funding, and other coordination requirements. The estimated construction timeframes of the projects are shown in Table 4-1. The proposed locations for each specific project are not identified below but are identified within the two

**Table 4-1: Proposed Action Description** 

Project Number	Project Name	Estimated Construction Timeframe	Description
1	Blanchard Barracks Demolition	FY2025	This project is to demolish the Blanchard Barracks and three adjacent buildings (Buildings 3618, 3621, and 1301). In total, the demolition would be approximately 309,128 square feet (SF) over 20 acres, covering four buildings.
2	Defense Information System Agency (DISA) Facility	FY2028– FY2029	Under this project, a facility to support a mission partner, DISA, would be constructed. The facility would be composed of a 3-story main building (with a footprint of 132,034 SF), a central utility plant/service building (8,100 SF), a gatehouse (1,400 SF), and a 3-story parking deck (with a footprint of 145,722 SF).
3	National Capital Region (NCR) Center of Excellence	FY2028– FY2029	This project includes the construction of a new, 3-story facility (with a footprint of 155,077 SF) to consolidate 11th Wing headquarter missions and other DAF NCR-based missions. An associated 3-story parking garage with a footprint of 134,173 SF would be constructed.
4	Electric Switch Station Reliability Improvements	FY2026– FY2027	This project would modernize the aging electrical infrastructure on JBAB. A new electrical substation would replace some or all components of two electrical switch stations and create a new tie line between the two switch stations.
5	Reversible Travel Lane on Defense Blvd.	FY2026– FY2027	This project would reconfigure and widen Defense Blvd. from Boundary Road to the Firth Sterling Gate to add a third, reversible travel lane. The project would also add bicycle lanes and sidewalks on both sides.
6	Connection of Waterfront Trail to Bellevue Housing	FY2026– FY2027	This project would create a recreational/multipurpose trail connecting Slip Inn to Deck Court and CSX rail line. The trail would help connect the housing and community support district with the existing waterfront trail and the proposed CSX trail, creating a continuous walking and bicycling route throughout JBAB.
7	CSX Trail	FY2026– FY2027	This project would repurpose the existing CSX easement/owned land into a pedestrian and bicycle trail. This trail would also provide a safe walking connection between the Bellevue Housing area and the Charter School.

Project Number	Project Name	Estimated Construction Timeframe	Description
8	Replacement Child Development Center (CDC)	FY2028– FY2029	This project would construct a new CDC facility to replace the facility slated for demolition. The new facility would be a 1-story 30,000-square-foot structure. This facility would support approximately 320 children and 110 staff members at maximum capacity, which is an increase over the number children and staff at the CDC facility it would replace (260 children and 88 staff members).
9	Medical Squadron (MDS) Clinic	FY2028– FY2029	This project proposes a new medical facility for the 316th MDS. A new, 3-story facility with a 29,000-square-foot footprint would be built. The space currently occupied by the MDS would be vacated (Building 3) or demolished (Building 1300 and Building 17).
10	South Gate & Visitor Center	FY2028– FY2029	This project would replace the current South Gate access control point facility. The South Gate would be reconfigured to better accommodate visitor access, including drop-offs and pick-ups serving the Charter School, and a modern Visitor Center would be constructed to better accommodate the mission. The proposed South Gate and Visitor Center project would require the demolition of seven existing installation houses located on Westover Avenue.

### 4.2 Construction Noise Methodology

- Construction noise is typically evaluated in a qualitative manner. The basic methodology for predicting construction noise requires:
  - 1) A noise metric to describe the magnitude of the construction noise level and its variation with time.
  - 2) A method to determine the noise generated by the equipment at some reference distance.
  - 3) A method to show how the noise level will vary with distance.

obtain accurate results, a preliminary construction schedule is warranted.

Construction noise models are available for use; however, these models have numerous variables that should be included if the prediction results are to be meaningful. Specifically, the FHWA has the Roadway Construction Noise Model that can be used to estimate noise impacts from construction activities. Input parameters for this noise model include the specific types of construction equipment that will be used, the hours that each piece of equipment is active, the number and type of equipment that will be used simultaneously, tree zones, and ground type. Trees can buffer noise, although the extent of the noise reduction depends on the type of trees and thickness of the tree zone. The larger the number of variables that can be integrated into a noise model, the higher the confidence in the results. The accuracy of a noise estimate is directly related to the accuracy of the input parameters. To use this noise model and

For the IDP EA at JBAB, a construction schedule including the types of equipment that will be used, individually and simultaneously, and the duration of use, has not been developed. Since a construction schedule has not been developed, basic logarithmic equations were used to provide a rough estimate of the expected construction noise levels on noise sensitive receptors. For projects that are not under construction, and the construction schedule is unknown, the following equation was used to provide a rough estimate of the expected construction noise levels (FHWA, 2017).

- 1 Leq(h) site =  $10 \log {}^{n}\Sigma_{i=1} {}^{10\text{Leq(equipment)}/10}$
- Where:

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- Leq(h) site is the A-weighted overall equivalent construction noise sound level obtained by
   summing the individual equipment noise levels on an energy basis.
  - n is the number of pieces of equipment included in the summation.
  - Leg equipment is the individual noise level for each piece of equipment.
- 7 For this equation, the following assumptions were used:
  - One hour is selected as the time period of interest. This is reasonable since most construction equipment operates continuously for a one-hour period.
- Ground effects (i.e., water, pavement, or soils) are ignored.
- A representative noise emission level for a class of construction equipment is used.
- 12 The assumptions listed above are based on FHWA's equation for projects that are not under construction
- and the specifications about construction activities are unknown. Table 4-2 lists the typical maximum
- noise levels (Lmax) at 50 feet from the specific equipment that could be used during the proposed
- 15 demolition and construction activities.
- An assumption must be made about the numbers and types of equipment at the site for projects without a
- 17 construction schedule. It is recognized that the overall construction noise level is governed primarily by
- 18 the noisiest pieces of equipment. The quieter pieces do not affect the overall level, but they do reduce the
- magnitude of the fluctuations in the noise level. Therefore, a rough estimate of the noise level only needs
- 20 to include the noisiest pieces of equipment expected at the site (FHWA, 2017).

**Table 4-2: Construction Equipment Noise Levels** 

Equipment	Typical Maximum Noise Level (Lmax dBA) 50 feet from Source
Air compressor	81
Backhoe	80
Compactor	82
Concrete mixer	85
Concrete pump	82
Crane	88
Dozer	85
Excavator	85
Generator	81
Grader	85
Impact wrench	85
Jack hammer	88
Loader	85
Paver	89
Pump	76
Rail saw	90
Roller	74
Saw	76
Scarifier	83

Equipment	Typical Maximum Noise Level (Lmax dBA) 50 feet from Source		
Scraper	89		
Shovel	82		
Spike driver	77		
Tie cutter	84		
Tie inserter	85		
Truck	88		

Source: (Federal Transit Administration., 2006)

Key: dBA = A-weighted decibels.

Note: Table based on a U.S. Environmental Protection Agency Report, which measured data from railroad construction equipment taken during the Northeast Corridor Improvement Project, and other measured data.

During construction, numerous pieces of equipment are used simultaneously. Based on the type of projects under the Proposed Action, several scenarios were assessed as shown in Table 4-3. Possible equipment scenarios were based on examples in FHWA's *Highway Construction Noise Measurement*, *Prediction, and Mitigation* (FHWA, 2017). The construction scenarios include clearing and grubbing, which is the process of removing vegetation, trees, roots, or stumps from an area to prepare it for construction. Thus, clearing and grubbing could be used where trees and vegetation are present and during the projects involving constructing trails. The superstructures scenario consists of building aboveground structures that would occur during several of the projects such as the DISA facility, replacement CDC, and MDS Clinic. Paving would likely occur during most of the projects including the NCR Center of Excellence, the South Gate and Visitors Center, and the reversible travel lane on Defense Blvd.

**Table 4-3: Construction Scenario Noise Levels** 

Project Type	<b>Equipment Used</b>	Individual dBA 50 feet	Cumulative dBA 50 feet
Classing and Cryphing	Dozer	85	96
Clearing and Grubbing	Backhoe	80	86
Superstructure (building	Crane	88	
an above-ground	Loader	85	90
structure)	Air Compressor	81	
Davis	Paver	89	02
Paving	Truck	88	92

The noise levels listed in Table 4-3 were estimated 50 feet from the source (see Appendix A for noise calculations). Populations within and adjacent to the proposed project sites reside at various distances from the noise sources. Consequently, it is useful to show what the noise levels would be in proximity to the noise receptors (see corresponding figures for Alternative 1 and Alternative 2). The following equation was used in this study to estimate the noise level at the receptor:

- 21 Leg(h) = dBA-10\*(a)log(R2/R1)
- Where:

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- Leg(h) = noise level at receptor
- dBA = noise level at referenced point

- a = conventional drop-off rate coefficient; 2.0 for point source, no ground or atmospheric
   absorption
- R1 = distance from referenced noise level
  - R2 = distance from receptor
- 5 The noise levels estimated in this calculation are for full power operation of one hour because most
- 6 construction equipment operates continuously for a one-hour period at some point in the construction
- 7 period (Federal Transit Administration., 2006). Since the proposed project locations are identified within
- 8 the action alternatives, estimated noise levels for noise sensitive receptors are discussed below under each
- 9 alternative.

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### 4.3 No Action Alternative

- 11 Under the No Action Alternative, the 10 separate projects identified under the Proposed Action, that
- would occur over the five-year period FY2025–2029, would not be implemented. As discussed in Section
- 13 3.1, the predominant sources of noise at JBAB include on-installation military helicopter operations,
- 14 commercial aircraft operations at DCA across the Potomac River, and vehicular traffic, particularly from
- 15 South Capitol Street and I-295.
- 16 There are no development projects in the reasonably foreseeable future that would directly increase on-
- 17 installation military helicopter operations or civilian aircraft operations at DCA. However, as of May
- 18 2024, five new round-trip commercial flights were added to the airport (The Washington Post, 2024). The
- 19 DCA also has two ongoing construction projects, including a runway rehabilitation project expected to
- 20 conclude by November 2024 and a project to improve passenger experience (Metropolitan Washington
- 21 Airports Authority, 2024). These improvements could indirectly increase airport use and therefore,
- 22 increase flight operations to meet demand.

#### 4.3.1 No Action Alternative Projects

- 24 Construction activities for the following present and reasonably foreseeable future projects, located
- outside of JBAB property, would contribute to the noise environment near JBAB. Once completed, some
- of these projects may also increase vehicular traffic near JBAB, including South Capitol Street and I-295:
- 27 St. Elizabeths Campus Redevelopment. The St. Elizabeths Campus is the site of the government-run St.
- 28 Elizabeths Hospital, which was established in 1855 to provide mental health facilities for the federal
- 29 government and Washington, DC. The St. Elizabeths Campus is divided into two campuses: the West
- 30 Campus and East Campus. The West Campus is owned and controlled by the U.S. General Services
- 31 Administration and is planned as a high-security campus for federal agencies. The U.S. Coast Guard
- 32 Headquarters on-site houses 3,700 staff. The Department of Homeland Security headquarters, completed
- in 2019, houses an additional 800 employees. After a Master Plan Amendment 2 Final Environmental
- 34 Impact Statement (EIS) was issued in August 2020, an alternative was selected that will add 1.2 million
- 35 gross SF of office space in two separate structures, ranging from three to eight stories, on the plateau site
- of the West Campus. An additional 175,000 gross SF of office space in one two-story building will also
- be added on the Sweetgum Lane site. An additional 1,014 parking spaces will be added to the proposed
- underground parking garages and several buildings will be demolished (GSA, 2023). Although this
- 39 redevelopment project is years behind schedule, construction may be complete by 2026 (Federal News
- 40 Network, 2024).
- 41 The 180-acre East Campus, owned by Washington, DC, is located across Martin Luther King Jr. Avenue
- 42 SE from the West Campus. The long-term plan for the East Campus includes a 567,000-square-foot
- mixed-use project featuring two residential buildings (288 units), a 200,000-square-foot office building, a

- 1 125-room hotel, and up to 50,000 SF of retail. Construction of these projects is expected to begin in
- 2 August 2024 and to be complete by March 2026 (DC Government, 2022). One project has already been
- 3 constructed on the East Campus the George Washington University Hospital, which is scheduled to
- 4 open in late 2024. The hospital will feature 136 beds, an ambulatory pavilion for physician offices and
- 5 clinics, a 500-car garage, and a helipad (GW Medical Faculty Associates, 2022). A new 20,000 SF library
- 6 is also expected to open on the East Campus by 2027 (DC Government, 2021).
- 7 **Poplar Point 'Bridge District' Development.** This development, formerly known as Columbian
- 8 Quarter, occupies six acres of land along Anacostia Park, near the Anacostia Metro Station. When fully
- 9 built out, the project will be composed of up to 2.5 million SF of mixed-use development. Phase 1
- includes a 130-foot-tall building with more than 700 residential units atop tens of thousands of SF of
- 11 restaurant, grocery, and retail space (Washburn, 2021). Construction broke ground in mid-2022; Phase 1
- is slated to be completed in 2025, and subsequent phases will follow (Urban Turf, 2023). The property
- will be transferred to Washington, DC, from the federal government. (DC Government, 2024).
- 14 Barry Farm Redevelopment. The Barry Farm neighborhood is located off Martin Luther King Jr.
- 15 Avenue SE. New roads and utilities have already been constructed, and demolition occurred in 2020. The
- site is being redeveloped into a mixed-use community that includes approximately 900 residential units,
- 17 55,000 SF of commercial space, new roads, a central park, and new community facilities. The project is
- expected to be completed by 2030 (McGrath, 2022).
- 19 **Reunion Square Development.** This multi-phase, master planned development will consist of 1.5
- 20 million SF spread across nine buildings on approximately eight acres along Martin Luther King Jr.
- Avenue SE. Construction of this project started in mid-2021 (Reunion Square, n.d.). Development
- 22 underway consists of 29,000 SF of retail, 38,000 SF of office space, a 231,000-square-foot headquarters
- building for the Department of Health, a hotel, and 134 apartments (BLDUP, 2021). The Reunion Square
- 24 Development project is slated for completion in 2025.
- 25 South Capitol Street Trail Construction. This trail will be constructed along the southeastern boundary
- of the installation. The project will extend the Anacostia Riverwalk Trail into the southernmost areas of
- Washington, DC, filling a bicycle and pedestrian travel void and providing a new commuting option for
- 28 JBAB and St. Elizabeths West Campus employees. The design phase was completed in late 2022
- 29 (Anacostia Waterfront Initiative, 2022) with construction slated to begin in the spring of 2025.
- 30 Anacostia Metro Pedestrian Bridge. Construction of the Anacostia Metro Pedestrian Bridge will
- 31 connect the south entrance site at the Anacostia Metrorail Station and the Barry Farm neighborhood. The
- 32 approximately 3-acre south entrance site is the main access point for bicyclists and pedestrians in the
- 33 surrounding neighborhood. The bridge would span the topography between Suitland Parkway and the
- 34 Metrobus facilities, which currently prohibits pedestrian access to and from the Barry Farm
- neighborhood. The construction start date is not known.
- 36 Construction activities for the following present and reasonably foreseeable future projects on the
- installation would also contribute to the noise environment on JBAB:
- 38 Parking Garages 357 and 358. These are both two-story garages in the northern part of JBAB. The
- 39 project to demolish these two buildings and create a single surface lot is nearing completion with an
- 40 estimated open date of October 2024.
- 41 Construction of a Large Vehicle Inspection Station and Access Control Point. Construction and
- 42 operation of a Unified Facilities Criteria compliant large vehicle inspection station and access control
- 43 point at Firth Sterling Gate at JBAB is being proposed. In May of 2024, a Final EA was prepared for this
- 44 project. The Proposed Action is needed to improve overall safety, security, and traffic flow effectiveness

- 1 at JBAB. The Proposed Action is estimated to require 18–24 months to construct, with construction
- 2 anticipated to begin in summer 2026.
- 3 **Building 29 Demolition.** Building 29, a 12,009-square-foot facility, is the former Naval Supply Systems
- 4 Command Postal Service at JBAB. Building 29 is located on the western side of the installation, adjacent
- 5 to the Anacostia River. This building is at high risk for flooding and is expected to negatively affect the
- 6 installation's ability to fight floods and repair the Flood Risk Management System in the event of a
- 7 failure. JBAB and DC State Historic Preservation Office (SHPO) have entered into a Memorandum of
- 8 Agreement with delineated mitigation for the demolition of Building 29. The demolition of Building 29 is
- 9 pending.
- 10 **Building 73 Demolition.** Building 73 is an abandoned heat plant located at the northwestern side of
- 11 JBAB near Building 29. JBAB and DC SHPO have entered into a Memorandum of Agreement with
- delineated mitigation for the demolition of this facility. The demolition of Building 73 is pending.
- 13 **Building 10106 Demolition.** Building 10106 is a storage facility located at the southwestern side of
- 14 JBAB adjacent to the Potomac River. Demolition of Building 10106 is planned but not funded at this
- 15 time.
- 16 Flood Risk Management System. The north end levee and seawall at the northern end of JBAB are in a
- 17 region that is prone to flooding. The floodwall portion of the levee system behind Buildings 72, 47, and
- 18 29 has major deficiencies resulting in the full system being decertified by the U.S. Army Corps of
- 19 Engineers. Once the floodwall is repaired, the Flood Risk Management System will be recertified and
- 20 potentially heightened. The project would mitigate much of JBAB out of the 100- and 500-year floodplain
- 21 designation. The NEPA process is expected to begin in FY2024, with construction tentatively planned for
- 22 FY2029.
- 23 Learn DC Public Charter School. A new public charter school was constructed in 2021 on the southern
- 24 end of JBAB near Hickam Village Family Housing along Duncan Street SW. For the 2024–25 school
- 25 year, the school will serve pre-kindergarten through fourth grade students for JBAB military residents and
- 26 civilian residents in Washington, DC. Initial site development included temporary buildings, perimeter
- fencing, parking, and utility connections. The school plans to serve one additional grade level each year
- 28 up to eighth grade. The students are presently housed in temporary buildings on the six-acre site where
- 29 the permanent buildings will be constructed. Design has not yet begun for the permanent facility, but
- 30 construction of the permanent facilities, landscaping, outdoor spaces, and paving is anticipated to be
- 31 completed in 2028. An EA and Supplemental EA were completed for this project in 2020 and 2021,
- 32 respectively.

- 33 Potential Future Use of Northern JBAB. The Navy recently completed an EIS in 2023 for acquisition
- of land adjacent to the Washington Navy Yard. The Navy selected the alternative that included land
- acquisition through land exchange that involves future purchase options to the Navy-owned portion of
- 36 JBAB. The acquisition of these parcels by a private developer would be subject to certain conditions
- including a separate, future NEPA analysis, a national security review, and other restrictive easements to
- 38 protect existing and future military operations. The developer has 10 years to enact their rights to acquire
- 39 the parcels, at which point the Navy would initiate the NEPA process as well as other studies and reviews.
- While potential growth is unknown at this time, development on the parcels could be dense, adding to an
- 41 existing highly developed area.

### 4.3.2 No Action Alternative Noise Analysis

- 43 Noise impacts from the St. Elizabeths Campus Redevelopment were assessed in *The DHS Headquarters*
- 44 Consolidation at St. Elizabeths Final Supplemental Environmental Impact Statement (DHS, 2020). The

- 1 preferred alternative and the no build alternative were modeled to determine short-term and long-term
- 2 noise impacts and compared to the existing noise measurements in 2012. As discussed in Section 3.1,
- 3 noise levels modeled at Barry Farms and Malcom X Avenue SE locations were 53–65 dBA in 2012
- 4 (DHS, 2020). Under the preferred alternative, noise levels would increase to 54–65 dBA. Most of the
- 5 locations would increase by 0–1 dBA with one location on Malcom X Avenue SE increasing by 2 dBA.
- 6 Overall, the EIS described the noise increases as imperceptible and negligible. Indirect and cumulative
- 7 impacts were reported to be negligible.
- 8 Construction noise levels from the St. Elizabeths Campus Redevelopment are expected to be 80–90 dBA
- 9 at a distance of 50 feet (DHS, 2020). Similar noise levels are expected from the other development
- projects. Barry Farm and Reunion Square are located within the same general area east of Anacostia Park
- and construction on these projects is expected to occur during a similar timeframe. Construction for Barry
- 12 Farm will be located on Sumner Road SE and construction for Reunion Square will occur off Morris
- Road SE. There is approximately 2,000 feet between these areas; major roadways, including Suitland
- 14 Parkway; and buildings and trees. It is unlikely that populations between the two project areas would be
- 15 exposed to construction noise levels from both projects. The Savoy Elementary School, the Thurgood
- Marshall Academy Public Charter High School, and a church are about 500 to 700 feet away from the
- 17 approximate site of construction for Reunion Square. As a result, populations accessing these facilities
- could be exposed to noise from the Reunion Square construction project.
- Overall, development projects within the region will contribute to the ambient noise environment inside
- and outside of JBAB. As discussed in Section 3.1, given the land uses and existing noise levels, the area
- 21 within and adjacent to JBAB is currently considered to be noisy urban and very noisy urban. The
- 22 predominant sources of noise include vehicular traffic, aircraft operations, equipment operations, and
- 23 urban development. Although some noise from construction activities would be louder than the typical
- sounds in the existing environment, noise from construction equipment would not be unfamiliar to the
- surrounding populations. As listed in Section 4.3.1, there are numerous projects planned for development
- around JBAB; this trend is expected to continue in the future. Noise levels would increase under the No
- 27 Action Alternative as compared to existing conditions if construction or demolition activities occurred
- within the same time period and in the same vicinity.

### 29 4.4 Alternative 1: Implement IDP Five-Year Projects

### 30 4.4.1 Alternative 1 Projects

- 31 Under Alternative 1, the 10 projects would be implemented as described in the Proposed Action at the
- 32 locations identified in Table 4-4 and depicted in Figures 4-1 and 4-2.

**Table 4-4: Alternative 1 Project Locations** 

Project Number	Project Name	Alternative 1 Project Locations	
1	Blanchard Barracks Demolition	The Blanchard Barracks and other buildings that would be demolished under this project are located on approximately 20 acres within the Historic Bolling District.	
2	DISA Facility	Following the demolition associated with Project 1, the site would be redeveloped with a new DISA facility.	
3	NCR Center of Excellence	The NCR Center of Excellence and an associated parking garage would be constructed on a portion of Giesboro Park west of Chappie James Blvd. Three of the five softball fields in Giesboro Park would be retained for recreation. The remaining two softball fields in Giesboro Park, not adjacent to MacDill Blvd., would be redeveloped.	
4	Electric Switch Station Reliability Improvements	The proposed corridor for this project is within the Historic Anacostia District, Sentinels of the Capital District, and Historic Bolling District.	
5	Reversible Travel Lane on Defense Blvd.	This project would occur on Defense Blvd. from Boundary Road to the Firth Sterling Gate and would include bicycle lanes and new sidewalks.	
6	Connection of Waterfront Trail to Bellevue Housing	The proposed new multi-use trail would connect the south end of the Waterfront Trail adjacent to the Slip Inn to the Bellevue housing are traveling through the Doolittle Park housing area.	
7	CSX Trail	The abandoned CSX tracks along CSX-owned right-of-way and DAF-owned right-of-way with a perpetual CSX easement would be repurposed to a multi-use trail. The trail would connect the Honor Guard campus to the Bellevue housing area paralleling Duncan Avenue.	
8	Replacement CDC	The replacement CDC would be constructed adjacent to the JBAB Charter School, on a green field site adjacent to Hickam Village.	
9	MDS Clinic	The new MDS Clinic would be constructed on McChord Street between Castle Avenue SW and Luke Avenue SW.	
10	South Gate & Visitor Center	This project would replace the existing South Gate with a new antiterrorism-compliant facility with more capacity, a modern visitor center, and drop-off/pick-up area serving the Charter School. Up to seven existing houses in Westover Estates would be demolished to provide ample room to fit all the gate components.	

Ave SW Fort McNair 8 ft Anacostia Park Project 5 Barry Farm Recreation Center Barry Farm edar Dr. S. Ash St SE Project 3 Giesboro Park Martin Luther King, Jr. Elementary School Project 2 Alabama Ave Project 7 Historic Chapel St **Project 9** Installation Boundary 1% Annual Flood Risk • Project 2: DISA Facility (100-year) Navy-owned Property • Project 3: NCR Center of Excellence 0.2% Annual Flood Risk Building (500-year) • Project 5: Reversible Travel Lane Road Alternative 1 Project Area • Project 7: CSX Trail National park or forest Learn DC Public Charter Local park School • Project 9: MDS Clinic Water Historic Chapel Structure \*Project 4 not included in this figure due to Operations Security.

April 2024 Source: Joint Base Anacostia-Bolling, DC Open Data, Esri Basemaps 2024

Figure 4-1: Proposed Development Plan Sites for Alternative 1, North JBAB

Project 7 Project 2 Project 1 0 (Buildings) Learn DC Public Charter School Project 8 Atlantic St-SW-Living Word Church Project 10 Chesapeake-St-SW Leckie Elementary Danbury-St-SW School Project 6 Elmira-St-SW Forrester St SW Forrester St SW Shepherd 172 ft Parkway BridgePoint Hospital National Harbor Galveston-S Installation Boundary 1% Annual Flood Risk • Project 1: Blanchard Barracks Demolition (100-year) Navy-owned Property • Project 2: DISA Facility 0.2% Annual Flood Risk Building • Project 6: Waterfront Trail Connection (500-year) Road Alternative 1 Project • Project 7: CSX Trail Local park Area • Project 8: Replacement CDC Water Learn DC Public Charter Structure School • Project 10: South Gate & Visitors Center Noise Sensitive Receptors \*Project 4 not included in this figure due to Operations Security. **April 2024** Source: Joint Base Anacostia-Bolling, DC Open Data, Esri Basemaps 2024

Figure 4-2: Proposed Development Plan Sites for Alternative 1, South JBAB

### 4.4.2 Alternative 1 Construction Noise Analysis

- 2 Noise Sensitive Receptors Off-Installation. None of the proposed projects on the northern portion of
- 3 JBAB are near off-installation noise sensitive receptors, in any direction (see Figure 4-1). This includes
- 4 the Barry Farm Recreation Center, Anacostia Park, and the neighborhood around Stevens Road SE and
- 5 Eaton Road SE, all of which are at least 1,500–2,000 feet away from the end of Project 7. Major
- 6 roadways, such as I-295, South Capitol Street SE, and Suitland Parkway are between the project site and
- 7 these receptors. Noise from vehicles on the roads contributes to the existing noise environment between
- 8 the project sites and the noise sensitive receptors. In addition, Project 7 is the Waterfront Trail
- 9 Connection; construction at this location will be temporary and short-term, lasting for several weeks, and
- will include a small area. There are no off-installation receptors adjacent to the southern installation
- boundary, which primarily consists of commercial and industrial land uses. However, two proposed
- projects (Projects 10 and 6) on the southern portion of JBAB are near off-installation noise sensitive
- receptors to the west and east (see Figure 4-2).
- 14 The closest off-installation noise sensitive area is in the neighborhood of 2nd Street SW, east of the
- installation, and consists of residences and the Living Word Church. Project 10 is approximately 700 feet
- 16 to the closest residences, which is shown on Figure 4-2 as a noise sensitive receptor. Project 10 involves
- 17 the replacement of a new gate; thus, paving would likely occur. The cumulative noise level from paving is
- estimated to be 92 dBA; at 700 feet that level diminishes to 69 dBA (see Appendix A). Overall,
- 19 construction noise levels diminish with distance from the project site. Overlook Avenue SW, I-295, and
- approximately 275 feet of trees lie between the eastern edge of the project site and the nearest residence.
- 21 These trees would provide a buffer from construction noise. In addition, residences already experience
- 22 noise from vehicular traffic on the major roadways. Therefore, it is unlikely that these off-installation
- 23 residences and the Living Word Church would experience noise levels that are uncommon in the existing
- 24 ambient environment.

- 25 Project 6 is the closest site to the Potomac River (see Figure 4-2). As previously discussed, boats, ferries,
- water taxis, and sightseeing boat tours travel in the Potomac River. The distance between where these
- boats would travel and the closest point of Project 6 is approximately 1,700 feet. Project 6 includes the
- 28 construction of a trail; therefore, clearing and grubbing would likely occur. The cumulative noise level
- from clearing and grubbing is estimated to be 86 dBA; at 1,700 feet that level diminishes to 55 dBA.
- 30 As discussed in Section 3.1, the ambient noise environment adjacent to the installation is considered noisy
- 31 urban and very noisy urban. Major roadways, including I-295, and a tree buffer located along the eastern
- edge of JBAB, create a barrier that helps reduce construction noise levels experienced by populations in
- adjacent neighborhoods. Noise from construction activities would consist of peak sound levels and would
- 34 be intermittent, as equipment and activities would not occur at one continuous level. Noise levels in the
- 35 50–70 dBA range would not be higher than populations are accustomed. Therefore, it is unlikely that off-
- installation residences and other noise sensitive receptors would experience noise levels that are
- 37 uncommon in the existing environment. In addition, local noise ordinances state that noise levels resulting
- from construction shall not exceed 80 dBA Leq(h). Noise at the off-installation sensitive receptors from
- 39 the construction of projects under Alternative 1 would not exceed the noise ordinance threshold.
- 40 Noise Sensitive Receptors On-Installation. The proposed project sites are within and/or adjacent to
- different types of on-installation land uses, including housing, transient quarters, community support,
- 42 medical, open space, and outdoor recreation. Projects 3, 6, 7, 8, and 10 would be located in close
- proximity to on-installation populations that are considered noise sensitive.
- 44 Project 3 (NCR Center of Excellence) would be constructed on a portion of Giesboro Park. Project 8
- 45 (Replacement CDC) would be constructed adjacent to the Learn DC Public Charter School. The exact
- 46 locations of the structures and the limits of disturbance for Projects 3 and 8 will be determined during

- design. Thus, a conservative estimate of 50 feet from the construction site was used to calculate noise
- 2 levels at these sensitive receptors (see Table 4-5).
- 3 Project 6 (Connection of Waterfront Trail to Bellevue Housing) would go through residential housing
- 4 adjacent to McGuire Avenue. There would be approximately 50 feet between Project 6 and the nearest
- 5 residence. A portion of Project 7 (CSX Trail) would be constructed about 100 feet from on-installation
- 6 residences. The total period of construction for Projects 6 and 7 would be about 1 year. However, these
- 7 project sites are long and narrow; thus, construction at one individual location along their paths would be
- 8 short-term.

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- 9 Project 10 (South Gate & Visitor Center) would occur approximately 100 feet from on-installation
- 10 residences northwest of Duncan Avenue SW. There are a few scattered trees between the project site and
- 11 the closest houses.
- 12 To estimate a worst-case scenario, the cumulative noise from construction paving was used to assess what
- 13 the noise levels would be at the on-installation noise sensitive receptor locations. Table 4-5 below shows
- 14 these estimated noise levels from the proposed construction.

Table 4-5: Estimated Noise Levels at On-Installation Noise Sensitive Receptors from Alternative 1 Construction

Noise Sensitive Receptor	Project Number	Distance from Project Construction	Noise Level Leq(h)
Giesboro Park	Project 3	50 feet	92
Residences adjacent to McGuire Ave.	Project 6	50 feet	92
Residences	Project 7	100 feet	86
Learn DC Public Charter School	Project 8	50 feet	92
Residences south of McGuire Ave.	Project 10	100 feet	86

Some noise-sensitive populations at JBAB would be exposed to increased noise levels during the construction; however, these effects would be intermittent and short-term. Construction equipment would be used up to eight hours per day, five days per week, during their respective construction phases. Because noise can cause disruptions in routine activities such as watching television and sleeping, populations have shown greater annoyance when loud noises occur during nighttime hours. Typically, construction activities occur during daytime hours, from around 7 a.m. to 5 p.m. As a result, populations would not be exposed to construction noise during the evening and nighttime hours, when noise can cause greater annoyance. Construction noise would consist of peak sound levels and would be intermittent, as equipment and activities would not occur at one continuous interval. Therefore, although the noise levels shown in Table 4-5 are estimated for Leq(h), populations would likely be exposed to that noise level for a few seconds or minutes, and then the noise would diminish. Although some noise from construction activities would be louder than the typical sounds in the existing environment, populations within the installation already reside in a noisy, urban environment. During peak operating hours, aircraft at DCA fly directly over the southern end of JBAB, that includes Hickam Village and the South Gate, every few minutes. Most of the noise from the proposed construction would not be unfamiliar. Additionally, buildings in good condition (i.e., newer windows) can provide a reduction in interior noise levels. Structures in good condition built with standard materials provide 20 to 30 dB of noise-level reduction

- 1 when the windows and doors are closed (U.S. Navy, 2005). Therefore, populations working and residing
- 2 inside such buildings would be exposed to lower noise levels than those outside.

### 3 4.5 Alternative 2: Alternative Siting for IDP Five-Year Projects

### 4 4.5.1 Alternative 2 Projects

- 5 Under Alternative 2, JBAB would construct the 10 projects as listed and described in the Proposed
- 6 Action; however, some of these projects would occur in different locations than Alternative 1. For
- 7 Alternative 2, the locations of the 10 projects are described in Table 4-6 below. These project locations
- 8 are depicted in Figures 4-3 and 4-4.

**Table 4-6: Alternative 2 Project Locations** 

Project Number	Project Name	Alternative 2 Project Locations	
1	Blanchard Barracks Demolition	Same location as under Alternative 1.	
2	DISA Facility	The new DISA facilities would be constructed on a portion of Giesboro Park west of Chappie James Blvd. Three of the five softball fields in Giesboro Park would be retained for recreation.	
3	NCR Center of Excellence	Following the demolition associated with Project 1, the site would be redeveloped with the NCR Center of Excellence.	
4	Electric Switch Station Reliability Improvements	The proposed corridor for this project is similar to the Alternative 1 location but would be along a different route.	
5	Reversible Travel Lane on Defense Blvd.	Same location as under Alternative 1.	
6	Connection of Waterfront Trail to Bellevue Housing	Same location as under Alternative 1.	
7	CSX Trail	Same location as under Alternative 1.	
8	Replacement CDC	The replacement CDC would be built on vacant land north of McChord Street, east of Duncan Avenue, and west of Westover Avenue. The JBAB Historic Chapel, which is located within the sam parcel, would remain in place and would be avoided.	
9	MDS Clinic	The 316th MDS Clinic functions would mostly remain in their existing locations.	
10	South Gate & Visitors Center	Same location as under Alternative 1.	

Ave SW Fort McNair 8 ft Anacostia Park **Barry Farm** Project 5 **Recreation Center** Barry Farm edar Dr. S. Project 2 Ash St SE Giesboro Park CDIII Blvd SW Project 7 Martin Luther King, Jr. Elementary School Alabama Ave Project 3 Historic Chapel St Project 8 Installation Boundary 1% Annual Flood Risk • Project 2: DISA Facility (100-year) Navy-owned Property • Project 3: NCR Center of Excellence 0.2% Annual Flood Risk (500-year) Building • Project 5: Reversible Travel Lane Alternative 2 Project Area Learn DC Public Charter School National park or forest • Project 7: CSX Trail Local park • Project 8: Replacement CDC Water Historic Chapel Structure \*Project 4 not included in this figure due to Operations Security. **April 2024** Source: Joint Base Anacostia-Bolling, DC Open Data, Esri Basemaps 2024

Figure 4-3: Proposed Development Plan Sites for Alternative 2, North JBAB

Historic Chapel Project 7 Project 1 (Buildings) 0 **Project 9 Project 3** Learn DC Public **Charter School** Atlantic St-SW-Living Word Church Project 10 Chesapeake-St-SW Leckie Elementary Danbury-St-SW School Project 6 Elmira-St-SW Forrester St SW Forrester St SW Shepherd 172 ft Parkway BridgePoint Hospital National Harbor Galveston-S Installation Boundary 1% Annual Flood Risk • Project 1: Blanchard Barracks Demolition (100-year) Navy-owned Property • Project 3: NCR Center of Excellence 0.2% Annual Flood Building Risk (500-year) • Project 6: Waterfront Trail Connection Road Alternative 2 Project • Project 7: CSX Trail Local park Area Water • Project 9: MDS Clinic Noise Sensitive Receptors Structure • Project 10: South Gate & Visitors Center Historic Chapel Learn DC Public Charter School \*Project 4 not included in this figure due to Operations Security. **April 2024** Source: Joint Base Anacostia-Bolling, DC Open Data, Esri Basemaps 2024

Figure 4-4: Proposed Development Plan Sites for Alternative 2, South JBAB

### 4.5.2 Alternative 2 Construction Noise Analysis

- 2 Noise Sensitive Receptors Off-Installation. The majority of the Alternative 2 project sites would be at
- 3 similar locations as compared to Alternative 1. Project 10 (South Gate & Visitor Center) would be in the
- 4 same location as Alternative 1, approximately 700 feet west of the residential area on 2nd Street SW and
- 5 the Living Word Church (Figure 4-4). Thus, cumulative noise level from paving under Project 10 would
- 6 be the same as Alternative 1. Project 6 would also have the same noise effects as Alternative 1.
- 7 Under Alternative 2, Project 8 (Replacement CDC) would be at a different location, approximately 700
- 8 feet from the residential area on Raleigh Street SE (Figure 4-3). Under Project 8, the cumulative noise
- 9 level from paying is estimated to be 92 dBA; at 700 feet that level diminishes to 69 dBA (see Appendix
- ever from paving is estimated to be 92 dBA, at 700 feet that level diffinishes to 69 dBA (see Appendix
- 10 A). Overlook Avenue SW, I-295, and a buffer of trees separates this residential area on Raleigh Street SE
- 11 from Project 8 and would provide a buffer from the construction noise. Populations already experience
- 12 noise from vehicular traffic on the major roadways. Therefore, it is unlikely that these off-installation
- populations would experience noise levels that are uncommon in the existing ambient environment. Noise
- 14 at the off-installation sensitive receptors from construction of the Alternative 2 projects would be
- approximately 69 dBA and would therefore, not exceed the local noise ordinance threshold of 80 dBA
- 16 Leq(h).

- 17 Noise Sensitive Receptors On-Installation. Similar to Alternative 1, several projects would be
- 18 constructed on parcels adjacent to on-installation noise sensitive receptors under Alternative 2. Project 2
- 19 (DISA Facility) would be constructed on a portion of Giesboro Park (see Figure 4-3). Under Alternative
- 20 2, Projects 6 and 7 would be at the same location, and thus have the same noise effects, as under
- 21 Alternative 1. Project 8 would be built adjacent to the JBAB Historic Chapel. Project 9 (MDS Clinic)
- would be constructed adjacent to the Learn DC Public Charter School, which is at a different location as
- compared to Alternative 1 (see Figure 4-4).
- 24 Final project designs have not been completed; therefore, the exact locations of the structures and the
- 25 limits of disturbance for Projects 2, 6, and 8 are unknown. Thus, a conservative estimate of 50 feet from
- 26 the construction site was used to estimate noise levels at these sensitive receptors (Table 4-7). To estimate
- 27 a worst-case scenario, the cumulative noise from paying was used to assess what the noise levels would
- be at the noise sensitive receptor locations. The Leq(h) for the cumulative impacts from paving at 50 feet
- 29 is estimated to be 92 dBA. Table 4-7 shows the estimated noise levels at the on-installation noise
- 30 sensitive receptors from the proposed project construction.

Table 4-7: Estimated Noise Levels at On-Installation Noise Sensitive Receptors from Alternative 2 Construction

Noise Sensitive Receptor	Project Number	Distance from Project Construction	Noise Level Leq(h)
Geisboro Park	Project 2	50 feet	92
Residences adjacent to McGuire Ave.	Project 6	50 feet	92
Residences	Project 7	100 feet	86
JBAB Historic Chapel	Project 8	50 feet	92
Learn DC Public Charter School	Project 9	50 feet	92
Residences south of McGuire Ave.	Project 10	100 feet	86

- 1 Similar to Alternative 1, some populations at JBAB would be exposed to increased noise levels during
- 2 construction; however, these effects would be intermittent and short-term. Although some noise from
- 3 construction activities would be louder than the typical sounds in the existing environment, populations
- 4 within the installation already reside in a noisy, urban environment. As previously mentioned, during
- 5 peak operating hours, aircraft at DCA fly directly over the southern end of JBAB. Most of the noise from
- 6 the proposed construction would not be unfamiliar. Additionally, buildings in good condition can provide
- 7 a reduction in interior noise levels. Structures in good condition built with standard materials provide 20
- 8 to 30 dB of noise-level reduction when the windows and doors are closed (U.S. Navy, 2005). Therefore,
- 9 populations working and residing inside such buildings would be exposed to lower noise levels than those
- 10 outside.

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### 4.6 Minimization Measures

- 12 This Construction Noise Study highlights that while noise levels would temporarily increase during
- 13 construction, existing infrastructure and trees would reduce noise effects on off-installation populations.
- Noise-sensitive receptors would experience some noise, but these effects would be intermittent and short-
- 15 term. The DAF would ensure compliance with local noise regulations to minimize disruptions to the
- 16 community.
- 17 To minimize construction noise effects on sensitive receptors, a comprehensive set of minimization
- measures could be implemented. The following measures are recommended for this Proposed Action:

### 1. Scheduling and Operational Adjustments

- **Limit Construction Hours**: Restrict noisy activities to daytime hours (e.g., 7 a.m. to 7 p.m.) to avoid disturbing residents during the night.
- Avoid Weekend and Holiday Work Near Residences: Whenever possible, avoid scheduling noisy operations during weekends and holidays when residents are more likely to be at home.
- Avoid School Hours Near Learn DC Public Charter School: Whenever possible, avoid scheduling noisy operations when school is in session.

#### 2. Equipment Management

- Use of Low-Noise Equipment: Utilize newer, quieter equipment that meets noise emission standards.
- **Regular Maintenance**: Ensure all construction equipment is properly maintained to reduce noise from malfunctioning or inefficient machinery.
- Mufflers and Sound Barriers: Equip machinery with effective mufflers and noise suppressors.
   Utilize temporary noise barriers or enclosures around stationary noise sources like generators and compressors.

#### 3. Site Planning and Layout

- **Strategic Equipment Placement**: Where possible, position noisy equipment and activities away from noise sensitive receptors like schools, hospitals, and residential zones.
- Use of Natural and Artificial Barriers: Install temporary barriers such as plywood fences or deploy existing structures (buildings, walls) to block noise propagation.

#### 4. Operational Modifications

• **Sequential Operations**: Schedule operations to ensure that only the necessary number of noise-generating activities occur simultaneously, reducing overall noise levels at any given time.

• **Idling Restrictions**: Implement policies to minimize idling times of construction vehicles and machinery, which can contribute to ambient noise levels.

### 5. Communication

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- Community Engagement: Regularly inform noise sensitive receptors, such as local communities, about construction schedules, expected noise levels, and duration of noisy activities. Provide a contact point for noise complaints and concerns (FHWA, 2006).
- By implementing these mitigation measures, the DAF could effectively manage and reduce the impact of
   construction noise, ensuring a more harmonious coexistence with surrounding communities.

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### **Appendix A Noise Calculations**

### 2 Installation Development Plan at JBAB

### **3 Cumulative Noise Levels**

1

Cumulative dB=10\*LOG[10EXP(0.1\*dB1)+ 10EXP(0.1\*dB2)+10EXP(0.1\*dB3)]

### Clearing and Grubbing

Individual dBA

Dozer 85 dBA Backhoe 80 dBA

Cumulative dBA=10\*LOG[10EXP(0.1\*85)+10EXP(0.1\*80)] = 86

### Superstructure (building an above-ground structure)

Individual dBA

Crane 88 dBA
Loader 85 dBA
Air Compressor 81 dBA

Cumulative dB=10\*LOG[10EXP(0.1\*88)+ 10EXP(0.1\*85)+ 10EXP(0.1\*81)] = 90

### **Paving**

Individual dBA

Paver 89 dBA Truck 88 dBA

Cumulative dBA=10\*LOG[10EXP(0.1\*89)+10EXP(0.1\*88)] = 92

### 4 Distance Calculations

Paving, 92 dBA, 700 feet 92-10\*(2)LOG(700/50) = 69

Clearing and Grubbing, 86 dBA, 1,700 feet 86-10\*(2)LOG(1700/50) = 55

Paving, 92 dBA, 100 feet

92-10\*(2)LOG(100/50) = 86

Paving, 92 dBA, 300 feet
92-10\*(2)LOG(300/50) = 76

# Appendix F Transportation Study